

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-35394	1964	1	35

INDEX						
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION	CONTRACT NO.
I-70-35394	I-70-37-5368	COMPOSITE CONT. STEEL BEAM BRIDGE	92'-0", 98'-0"	INTERSTATE ROUTE 70	549+25.5 ON LINE B	B-7263
SHEET NO.	SHEET DESIGNATION	SUBJECT				B.P.P. APPROVAL
1	ONE SHEET	INDEX AND TITLE SHEET				
2	ROADWAY SHEET No. 4	TYPICAL SECTIONS, CO. RD. 400W R.L. Proj. I-70-35394				
2A	ROADWAY SHEET No. 4A	PLAN AND PROFILE LINE B R.L. Proj. I-70-35394				
3	ONE SHEET	PLAN AND PROFILE CO. RD. 400W				
3A	ONE SHEET	BRIDGE APPROACH DETAILS				
4	ONE SHEET	LOG OF BORINGS				
5	B1	LAYOUT				
6	B2	GENERAL PLAN				
7	B3	BENTS NO. 1 AND NO. 3				
8	B4	BENTS NO. 1 AND NO. 3 DETAILS				
9	B5	PIER NO. 2				
10	B6	FRAMING PLAN				
11	B7	STEEL DETAILS				
12	B8	DECK SLAB				
13	B9	DECK DETAILS				
14	B10	SCOFFED				
15	B11	SUMMARY				
16-21	SEVEN SHEETS	CROSS SECTIONS				

STATE OF INDIANA  
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS  
FOR SPANS OVER 20 FEET  
ON  
INTERSTATE ROUTE 70 - SECTION 3  
F.A. PROJECT NO. I-70-35394

COUNTY ROAD 400W OVER INTERSTATE ROUTE 70

BEGINNING AT A POINT ON COUNTY ROAD 400W APPROXIMATELY 911 FEET NORTH OF THE EAST QUARTER SECTION CORNER OF SECTION 20 OF T-16N R-6E AND EXTENDING SOUTH APPROXIMATELY 2100 FEET TO A POINT ON COUNTY ROAD 400W APPROXIMATELY 1189 FEET SOUTH OF THE AFORESAID QUARTER SECTION CORNER THESE LIMITS LIE APPROXIMATELY ON THE SECTION LINE BETWEEN SECTION 20 AND SECTION 21 BOTH IN T-16N R-6E IN HANCOCK COUNTY

ROADWAY LENGTH = 0.360 MILES  
BRIDGE LENGTH = 0.038 MILES  
TOTAL LENGTH = 0.398 MILES  
MAX. GRADE = 4.0%

INDEX CONTINUED STANDARD DRAWINGS					
SHEET NO.	SHEET DESIGNATION	SUBJECT	B.P.P. APPROVAL	ADOPTED IN REVISION	DATE
16	BRIDGE STD. C1	STANDARD MISCELLANEOUS DETAILS	8-10-64	R 8-20-64	64
17	BRIDGE STD. C2	STANDARD MISCELLANEOUS DETAILS			
18	BRIDGE STD. D	CATCH BASIN DETAILS			
19	BRIDGE STD. E	ROADWAY DRAIN TYPICAL DETAILS			
20	BRIDGE STD. F	TYPICAL RAIN GUTTER RAIL DETAILS			
21	BRIDGE STD. G	TYP. DETAILS OF THICK PAVEMENT & LOC. TOE OF SL. AROUND END BENTS			
22	BRIDGE STD. H	TYP. DETAILS OF THICK PAVEMENT & LOCATING TOE OF SLOPE			
23	BRIDGE STD. I	CONT. STEEL BEAM-TYP. APPROACH DETAILS-TWIN STRUCTURES			
24	BRIDGE STD. J	CONT. STEEL BEAM-TYP. APPROACH DETAILS-TWO-LANE STRUCTURES			
25	BRIDGE STD. K	MISCELLANEOUS APPROACH DETAILS	8-21-64	R 8-20-64	64
26	BRIDGE STD. L	MISCELLANEOUS APPROACH DETAILS			
27	BRIDGE STD. M	R.C. BRIDGE APPROACH TURNOUT DETAILS-12' SHOULDERS			
28	BRIDGE STD. N	SLOPE WALL DETAILS			
29	BRIDGE STD. O	STEEL RAILING PROFILE	6-12-64	R 6-12-64	64
30	BRIDGE STD. P	STEEL RAILING PROFILE	6-12-64	R 6-12-64	64
31	BRIDGE STD. Q	PRECAST CONCRETE TYPE I BEAMS	6-12-64	R 6-12-64	64
32	BRIDGE STD. R	PRECAST CONCRETE COMPOSITE BOX BEAMS WIDE SPAN			
33	BRIDGE STD. S	ALUMINUM ROLLING DETAILS	8-18-64	R 8-17-64	64
34	BRIDGE STD. T	EXPANSION JOISTS			
35	BRIDGE STD. U	TYPICAL DETAILS FOR PLACING SPECIAL FILLING MATERIAL	3-28-63	R 2-18-63	63
36	BRIDGE STD. V	TYPICAL DETAILS FOR PLACING SPECIAL FILLING MATERIAL			
37	BRIDGE STD. W	STANDARD TEMPORARY BRIDGE			
38	BRIDGE STD. X	STANDARD TEMPORARY BRIDGE			
39	BRIDGE STD. Y	STANDARD TEMPORARY BRIDGE			
40	BRIDGE STD. Z	STANDARD TEMPORARY BRIDGE			
41	BRIDGE STD. AA	MISCELLANEOUS STANDARDS	7-22-64	R 11-17-64	64
42	BRIDGE STD. AB	MISCELLANEOUS STANDARDS	7-22-64	R 11-17-64	64
43	BRIDGE STD. AC	MISCELLANEOUS STANDARDS	10-9-64	R 7-2-64	64
44	BRIDGE STD. AD	MISCELLANEOUS STANDARDS	8-27-64	R 8-27-64	64
45	BRIDGE STD. AE	MISCELLANEOUS STANDARDS	2-4-64	R 10-14-64	64
46	BRIDGE STD. AF	MISCELLANEOUS STANDARDS	7-22-64	R 10-14-64	64
47	BRIDGE STD. AG	MISCELLANEOUS STANDARDS	8-28-64	R 8-28-64	64
48	BRIDGE STD. AH	MISCELLANEOUS STANDARDS			
49	BRIDGE STD. AI	MISCELLANEOUS STANDARDS			
50	BRIDGE STD. AJ	MISCELLANEOUS STANDARDS			
51	BRIDGE STD. AK	MISCELLANEOUS STANDARDS			
52	BRIDGE STD. AL	MISCELLANEOUS STANDARDS			
53	BRIDGE STD. AM	MISCELLANEOUS STANDARDS			
54	BRIDGE STD. AN	MISCELLANEOUS STANDARDS			
55	BRIDGE STD. AO	MISCELLANEOUS STANDARDS			
56	BRIDGE STD. AP	MISCELLANEOUS STANDARDS			
57	BRIDGE STD. AQ	MISCELLANEOUS STANDARDS			
58	BRIDGE STD. AR	MISCELLANEOUS STANDARDS			
59	BRIDGE STD. AS	MISCELLANEOUS STANDARDS			
60	BRIDGE STD. AT	MISCELLANEOUS STANDARDS			
61	BRIDGE STD. AU	MISCELLANEOUS STANDARDS			
62	BRIDGE STD. AV	MISCELLANEOUS STANDARDS			
63	BRIDGE STD. AW	MISCELLANEOUS STANDARDS			
64	BRIDGE STD. AX	MISCELLANEOUS STANDARDS			
65	BRIDGE STD. AY	MISCELLANEOUS STANDARDS			
66	BRIDGE STD. AZ	MISCELLANEOUS STANDARDS			
67	BRIDGE STD. BA	MISCELLANEOUS STANDARDS			
68	BRIDGE STD. BB	MISCELLANEOUS STANDARDS			
69	BRIDGE STD. BC	MISCELLANEOUS STANDARDS			
70	BRIDGE STD. BD	MISCELLANEOUS STANDARDS			
71	BRIDGE STD. BE	MISCELLANEOUS STANDARDS			
72	BRIDGE STD. BF	MISCELLANEOUS STANDARDS			
73	BRIDGE STD. BG	MISCELLANEOUS STANDARDS			
74	BRIDGE STD. BH	MISCELLANEOUS STANDARDS			
75	BRIDGE STD. BI	MISCELLANEOUS STANDARDS			
76	BRIDGE STD. BJ	MISCELLANEOUS STANDARDS			
77	BRIDGE STD. BK	MISCELLANEOUS STANDARDS			
78	BRIDGE STD. BL	MISCELLANEOUS STANDARDS			
79	BRIDGE STD. BM	MISCELLANEOUS STANDARDS			
80	BRIDGE STD. BN	MISCELLANEOUS STANDARDS			
81	BRIDGE STD. BO	MISCELLANEOUS STANDARDS			
82	BRIDGE STD. BP	MISCELLANEOUS STANDARDS			
83	BRIDGE STD. BQ	MISCELLANEOUS STANDARDS			
84	BRIDGE STD. BR	MISCELLANEOUS STANDARDS			
85	BRIDGE STD. BS	MISCELLANEOUS STANDARDS			
86	BRIDGE STD. BT	MISCELLANEOUS STANDARDS			
87	BRIDGE STD. BU	MISCELLANEOUS STANDARDS			
88	BRIDGE STD. BV	MISCELLANEOUS STANDARDS			
89	BRIDGE STD. BW	MISCELLANEOUS STANDARDS			
90	BRIDGE STD. BX	MISCELLANEOUS STANDARDS			
91	BRIDGE STD. BY	MISCELLANEOUS STANDARDS			
92	BRIDGE STD. BZ	MISCELLANEOUS STANDARDS			
93	BRIDGE STD. CA	MISCELLANEOUS STANDARDS			
94	BRIDGE STD. CB	MISCELLANEOUS STANDARDS			
95	BRIDGE STD. CC	MISCELLANEOUS STANDARDS			
96	BRIDGE STD. CD	MISCELLANEOUS STANDARDS			
97	BRIDGE STD. CE	MISCELLANEOUS STANDARDS			
98	BRIDGE STD. CF	MISCELLANEOUS STANDARDS			
99	BRIDGE STD. CG	MISCELLANEOUS STANDARDS			
100	BRIDGE STD. CH	MISCELLANEOUS STANDARDS			
101	BRIDGE STD. CI	MISCELLANEOUS STANDARDS			
102	BRIDGE STD. CJ	MISCELLANEOUS STANDARDS			
103	BRIDGE STD. CK	MISCELLANEOUS STANDARDS			
104	BRIDGE STD. CL	MISCELLANEOUS STANDARDS			
105	BRIDGE STD. CM	MISCELLANEOUS STANDARDS			
106	BRIDGE STD. CN	MISCELLANEOUS STANDARDS			
107	BRIDGE STD. CO	MISCELLANEOUS STANDARDS			
108	BRIDGE STD. CP	MISCELLANEOUS STANDARDS			
109	BRIDGE STD. CQ	MISCELLANEOUS STANDARDS			
110	BRIDGE STD. CR	MISCELLANEOUS STANDARDS			
111	BRIDGE STD. CS	MISCELLANEOUS STANDARDS			
112	BRIDGE STD. CT	MISCELLANEOUS STANDARDS			
113	BRIDGE STD. CU	MISCELLANEOUS STANDARDS			
114	BRIDGE STD. CV	MISCELLANEOUS STANDARDS			
115	BRIDGE STD. CW	MISCELLANEOUS STANDARDS			
116	BRIDGE STD. CX	MISCELLANEOUS STANDARDS			
117	BRIDGE STD. CY	MISCELLANEOUS STANDARDS			
118	BRIDGE STD. CZ	MISCELLANEOUS STANDARDS			
119	BRIDGE STD. DA	MISCELLANEOUS STANDARDS			
120	BRIDGE STD. DB	MISCELLANEOUS STANDARDS			
121	BRIDGE STD. DC	MISCELLANEOUS STANDARDS			
122	BRIDGE STD. DD	MISCELLANEOUS STANDARDS			
123	BRIDGE STD. DE	MISCELLANEOUS STANDARDS			
124	BRIDGE STD. DF	MISCELLANEOUS STANDARDS			
125	BRIDGE STD. DG	MISCELLANEOUS STANDARDS			
126	BRIDGE STD. DH	MISCELLANEOUS STANDARDS			
127	BRIDGE STD. DI	MISCELLANEOUS STANDARDS			
128	BRIDGE STD. DJ	MISCELLANEOUS STANDARDS			
129	BRIDGE STD. DK	MISCELLANEOUS STANDARDS			
130	BRIDGE STD. DL	MISCELLANEOUS STANDARDS			
131	BRIDGE STD. DM	MISCELLANEOUS STANDARDS			
132	BRIDGE STD. DN	MISCELLANEOUS STANDARDS			
133	BRIDGE STD. DO	MISCELLANEOUS STANDARDS			
134	BRIDGE STD. DP	MISCELLANEOUS STANDARDS			
135	BRIDGE STD. DQ	MISCELLANEOUS STANDARDS			
136	BRIDGE STD. DR	MISCELLANEOUS STANDARDS			
137	BRIDGE STD. DS	MISCELLANEOUS STANDARDS			
138	BRIDGE STD. DT	MISCELLANEOUS STANDARDS			
139	BRIDGE STD. DU	MISCELLANEOUS STANDARDS			
140	BRIDGE STD. DV	MISCELLANEOUS STANDARDS			
141	BRIDGE STD. DW	MISCELLANEOUS STANDARDS			
142	BRIDGE STD. DX	MISCELLANEOUS STANDARDS			
143	BRIDGE STD. DY	MISCELLANEOUS STANDARDS			
144	BRIDGE STD. DZ	MISCELLANEOUS STANDARDS			
145	BRIDGE STD. EA	MISCELLANEOUS STANDARDS			
146	BRIDGE STD. EB	MISCELLANEOUS STANDARDS			
147	BRIDGE STD. EC	MISCELLANEOUS STANDARDS			
148	BRIDGE STD. ED	MISCELLANEOUS STANDARDS			
149	BRIDGE STD. EE	MISCELLANEOUS STANDARDS			
150	BRIDGE STD. EF	MISCELLANEOUS STANDARDS			
151	BRIDGE STD. EG	MISCELLANEOUS STANDARDS			
152	BRIDGE STD. EH	MISCELLANEOUS STANDARDS			
153	BRIDGE STD. EI	MISCELLANEOUS STANDARDS			
154	BRIDGE STD. EJ	MISCELLANEOUS STANDARDS			
155	BRIDGE STD. EK	MISCELLANEOUS STANDARDS			
156	BRIDGE STD. EL	MISCELLANEOUS STANDARDS			
157	BRIDGE STD. EM	MISCELLANEOUS STANDARDS			
158	BRIDGE STD. EN	MISCELLANEOUS STANDARDS			
159	BRIDGE STD. EO	MISCELLANEOUS STANDARDS			
160	BRIDGE STD. EP	MISCELLANEOUS STANDARDS			
161	BRIDGE STD. EQ	MISCELLANEOUS STANDARDS			
162	BRIDGE STD. ER	MISCELLANEOUS STANDARDS			
163	BRIDGE STD. ES	MISCELLANEOUS STANDARDS			
164	BRIDGE STD. ET	MISCELLANEOUS STANDARDS			
165	BRIDGE STD. EU	MISCELLANEOUS STANDARDS			
166	BRIDGE STD. EV	MISCELLANEOUS STANDARDS			
167	BRIDGE STD. EW	MISCELLANEOUS STANDARDS			
168	BRIDGE STD. EX	MISCELLANEOUS STANDARDS			
169	BRIDGE STD. EY	MISCELLANEOUS STANDARDS			
170	BRIDGE STD. EZ	MISCELLANEOUS STANDARDS			
171	BRIDGE STD. FA	MISCELLANEOUS STANDARDS			
172	BRIDGE STD. FB	MISCELLANEOUS STANDARDS			
173	BRIDGE STD. FC	MISCELLANEOUS STANDARDS			
174	BRIDGE STD. FD	MISCELLANEOUS STANDARDS			
175	BRIDGE STD. FE	MISCELLANEOUS STANDARDS			
176	BRIDGE STD. FF	MISCELLANEOUS STANDARDS			
177	BRIDGE STD. FG	MISCELLANEOUS STANDARDS			
178	BRIDGE STD. FH	MISCELLANEOUS STANDARDS			
179	BRIDGE STD. FI	MISCELLANEOUS STANDARDS			
180	BRIDGE STD. FJ	MISCELLANEOUS STANDARDS			
181	BRIDGE STD. FK	MISCELLANEOUS STANDARDS			
182	BRIDGE STD. FL	MISCELLANEOUS STANDARDS			
183	BRIDGE STD. FM	MISCELLANEOUS STANDARDS			
184	BRIDGE STD. FN	MISCELLANEOUS STANDARDS			
185	BRIDGE STD. FO	MISCELLANEOUS STANDARDS			
186	BRIDGE STD. FP	MISCELLANEOUS STANDARDS			
187	BRIDGE STD. FQ	MISCELLANEOUS STANDARDS			
188	BRIDGE STD. FR	MISCELLANEOUS STANDARDS			
189	BRIDGE STD. FS	MISCELLANEOUS STANDARDS			
190	BRIDGE STD. FT	MISCELLANEOUS STANDARDS			
191	BRIDGE STD. FU	MISCELLANEOUS STANDARDS			
192	BRIDGE STD. FV	MISCELLANEOUS STANDARDS			
193	BRIDGE STD. FW	MISCELLANEOUS STANDARDS			
194	BRIDGE STD. FX	MISCELLANEOUS STANDARDS			
195	BRIDGE STD. FY	MISCELLANEOUS STANDARDS			
196	BRIDGE STD. FZ	MISCELLANEOUS STANDARDS			
197	BRIDGE STD. GA	MISCELLANEOUS STANDARDS			
198	BRIDGE STD. GB	MISCELLANEOUS STANDARDS			
199	BRIDGE STD. GC	MISCELLANEOUS STANDARDS			
200	BRIDGE STD. GD	MISCELLANEOUS STANDARDS			



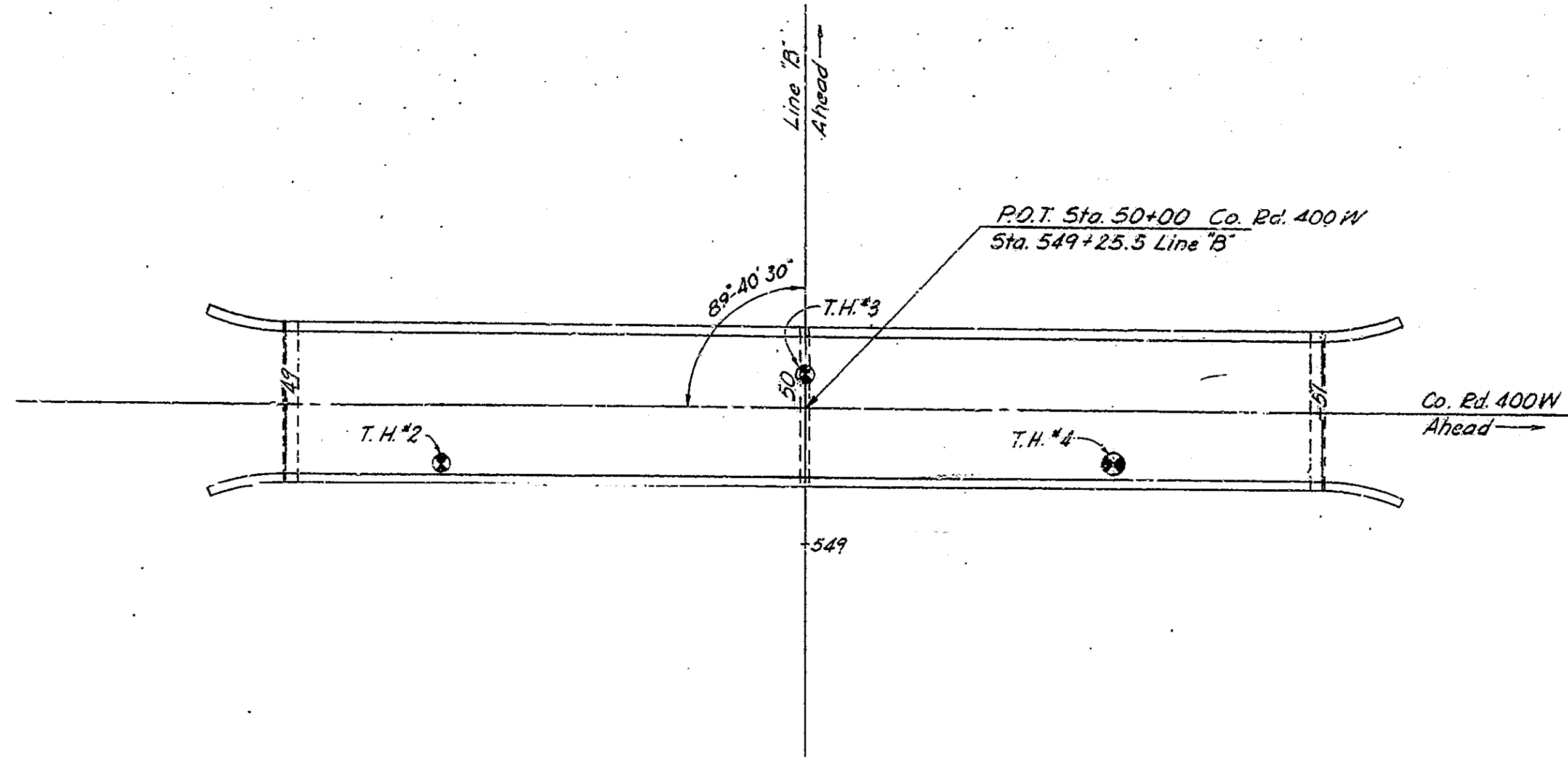








FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70-35894	1964	4	33



PLAN  
SCALE 1"=20'

CO. RD. 400W

Not Requested

ELEVATION	T.H. NO. 1 Sta. 492.30 11.81 863.50		T.H. NO. 2 Sta. 502.00 6.11 862.98		T.H. NO. 3 Sta. 507.80 7.04 863.30		T.H. NO. 4 Sta. 517.80 7.04 863.30		T.H. NO. 5	
	N	DESCRIPTION	N	DESCRIPTION	N	DESCRIPTION	N	DESCRIPTION	N	DESCRIPTION
860	1	8625	1	8630	1	8633	1	8633		
	2	8595	2	8631	2	8634	2	8634		
	3		3	8632	3	8635	3	8635		
	4		4	8633	4	8636	4	8636		
850	5		5	8634	5	8637	5	8637		
	6		6	8635	6	8638	6	8638		
840	7		7	8636	7	8639	7	8639		
	8		8	8637	8	8640	8	8640		
	9		9	8638	9	8641	9	8641		
830	10		10	8639	10	8642	10	8642		
	11		11	8640	11	8643	11	8643		
820	12		12	8641	12	8644	12	8644		
	13		13	8642	13	8645	13	8645		
810	14		14	8643	14	8646	14	8646		
	15		15	8644	15	8647	15	8647		
	16		16	8645	16	8648	16	8648		
	17		17	8646	17	8649	17	8649		
	18		18	8647	18	8650	18	8650		
	19		19	8648	19	8651	19	8651		
	20		20	8649	20	8652	20	8652		
	21		21	8650	21	8653	21	8653		
	22		22	8651	22	8654	22	8654		
	23		23	8652	23	8655	23	8655		
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	35		35	8664	35	8667	35	8667		
	36		36	8665	36	8668	36	8668		
	37		37	8666	37	8669	37	8669		
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	41		41	8670	41	8673	41	8673		
	42		42	8671	42	8674	42	8674		
	43		43	8672	43	8675	43	8675		
	44		44	8673	44	8676	44	8676		
	45		45	8674	45	8677	45	8677		
	46		46	8675	46	8678	46	8678		
	47		47	8676	47	8679	47	8679		
	48		48	8677	48	8680	48	8680		
	49		49	8678	49	8681	49	8681		
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	54		54	8683	54	8686	54	8686		
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	57		57	8686	57	8689	57	8689		
	58		58	8687	58	8690	58	8690		
	59		59	8688	59	8691	59	8691		
	60		60	8689	60	8692	60	8692		
	61		61	8690	61	8693	61	8693		
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	75		75	8704	75	8707	75	8707		
	76		76	8705	76	8708	76	8708		
	77		77	8706	77	8709	77	8709		
	78		78	8707	78	8710	78	8710		
	79		79	8708	79	8711	79	8711		
	80		80	8709	80	8712	80	8712		
	81		81	8710	81	8713	81	8713		
	82		82	8711	82	8714	82	8714		
	83		83	8712	83	8715	83	8715		
	84		84	8713	84	8716	84	8716		
	85		85	8714	85	8717	85	8717		
	86		86	8715	86	8718	86	8718		
	87		87	8716	87	8719	87	8719		
	88		88	8717	88	8720	88	8720		
	89		89	8718	89	8721	89	8721		
	90		90	8719	90	8722	90	8722		
	91		91	8720	91	8723	91	8723		
	92		92	8721	92	8724	92	8724		
	93		93	8722	93	8725	93	8725		
	94		94	8723	94	8726	94	8726		
	95		95	8724	95	8727	95	8727		
	96		96	8725	96	8728	96	8728		
	97		97	8726	97	8729	97	8729		
	98		98	8727	98	8730	98	8730		
	99		99	8728	99	8731	99	8731		
	100		100	8729	100	8732	100	8732		

NOTE:  
 'N' indicates the number of blows required to drive a 15" I.C., 2" O.D. Split Spoon Sampler 18" by means of a 140# weight falling 30".  
 'V' indicates Ground Water Table.  
 All borings taken 11-12-65.

**IND. STATE HIGHWAY COMMISSION  
SOIL BORINGS**

SCALE: HORIZ. 1"=20' VERT. 1"=10'

SUBMITTED FOR APPROVAL *Donald C. Carter* JULY 29, 1964

PROJECT 70-35894  
 BRIDGE CONTRACT NO. B-7263  
 BRIDGE FILE 1-70-97-5388

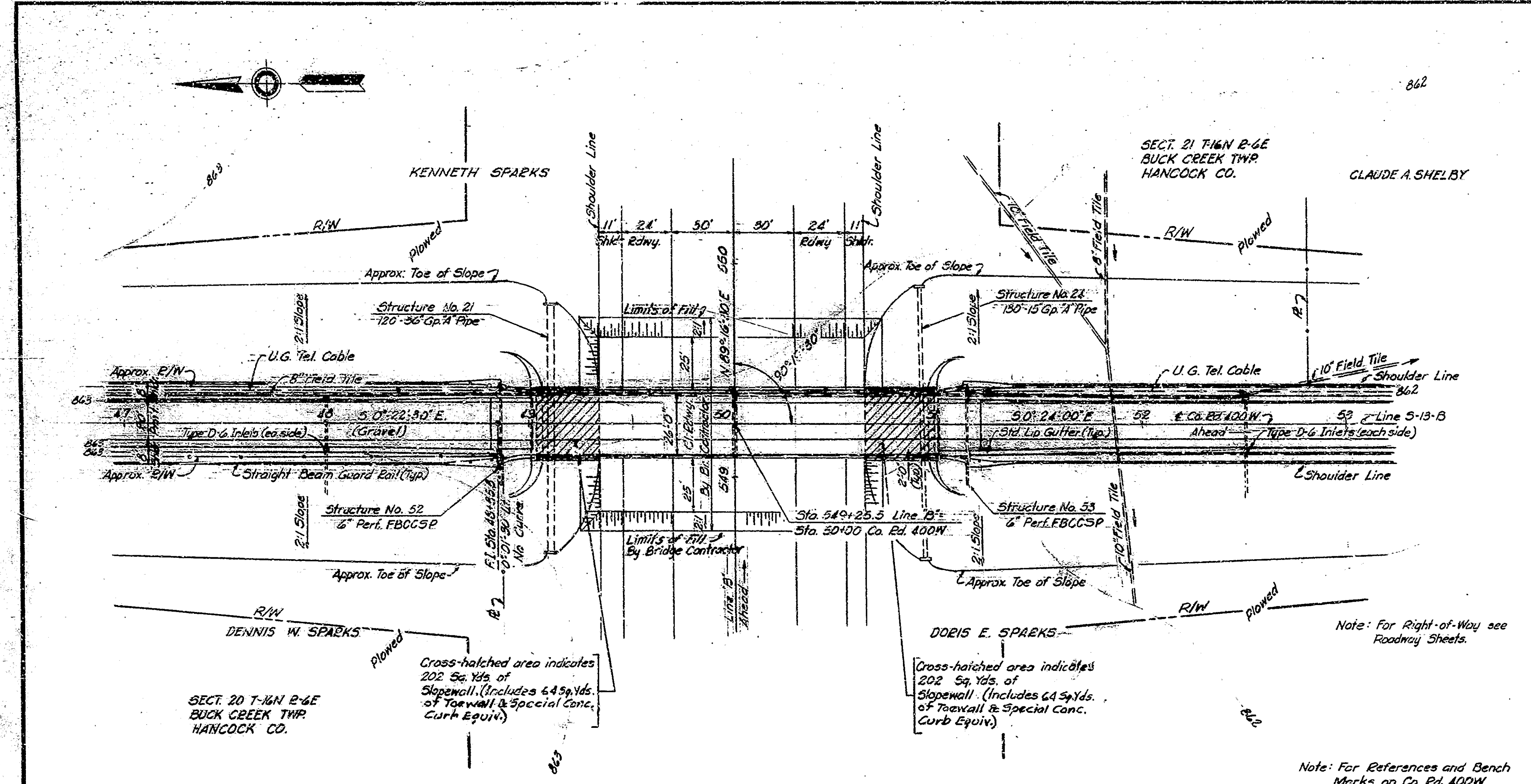
PLAN  
 NOTE: SOIL BORINGS  
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

SOIL BORING LOG  
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.



| BRIDGES OVER 20' SPAN |       |             |             |                        |
|-----------------------|-------|-------------|-------------|------------------------|
| PUB. ROAD DIST. NO.   | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. TOTAL SHEETS |
| 4                     | IND.  | I-70-35394  | 1954        | 5 33                   |

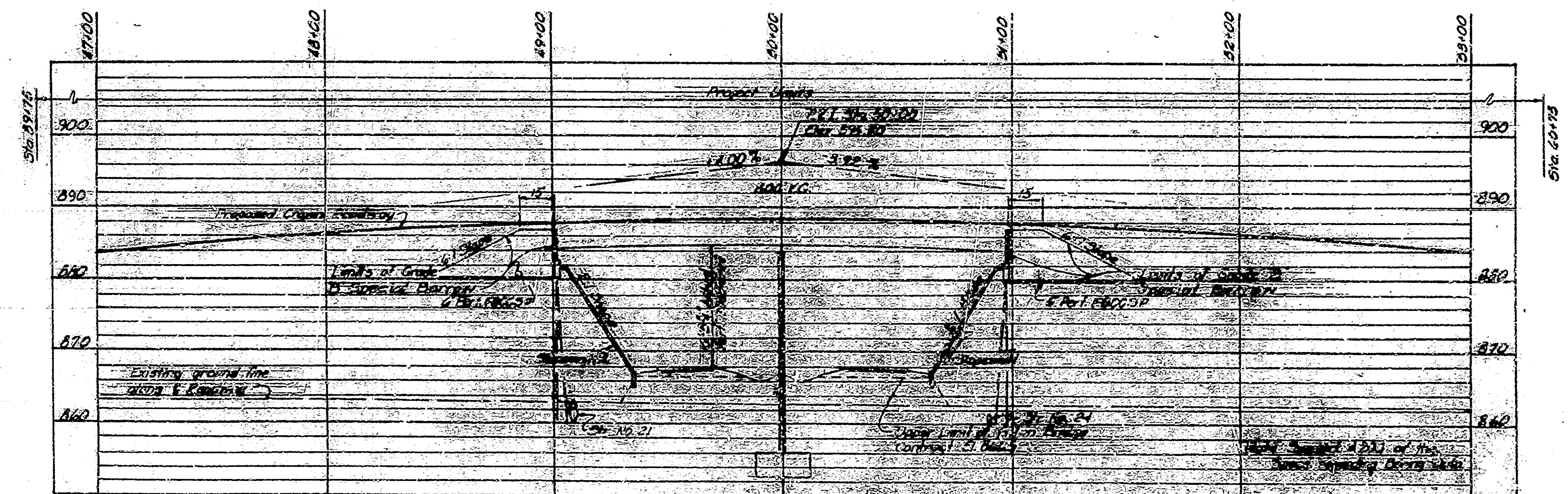
**PUBLIC UTILITIES**  
 Indiana Bell Tel. Co.  
 240 N. Meridian St.  
 Indianapolis, Indiana  
 Public Service Co. of Indiana  
 Plainfield, Indiana



**SITUATION PLAN**  
 SCALE 1" = 30'

**EARTHWORK SUMMARY**

|                    |                   |
|--------------------|-------------------|
| Fill + 20%         | • 76,956 Cu. Yds. |
| Common Excavation  | • 814 " "         |
| Surplus Excavation | • 54 " "          |
| Special Barrrow    | • 76,118 Cu. Yds. |



**PROFILE ON C OF ROADWAY**  
 SCALE 1" = 10' VERT

**LAYOUT**  
**COMPOSITE CONTINUOUS STEEL BEAM BRIDGE**  
 2 SPANS AT 98'-0", 98'-0" OVER INTERSTATE 70  
 2'-9" CURBS, 25'-4" ROADWAY ON CO. RD. 400W  
 0° SKEW AT STA. 50+00

**INDIANA STATE HIGHWAY COMMISSION**  
 HANCOCK COUNTY

SCALE: AS NOTED JULY 29, 1954

SUBMITTED FOR APPROVAL: *Donald C. Ostrow*

DRAWING: S<sub>1</sub> OF 10  
 PROJECT: I-70-35394  
 BRIDGE CONTRACT NO B-7263  
 BRIDGE FILE: I-70-37-5338



|                      |                  |
|----------------------|------------------|
| DESIGNED: <i>DES</i> | CHKD: <i>AED</i> |
| DRAWN: <i>DES</i>    | CHKD: <i>AED</i> |
| TRACED: <i>DES</i>   | CHKD: <i>AED</i> |

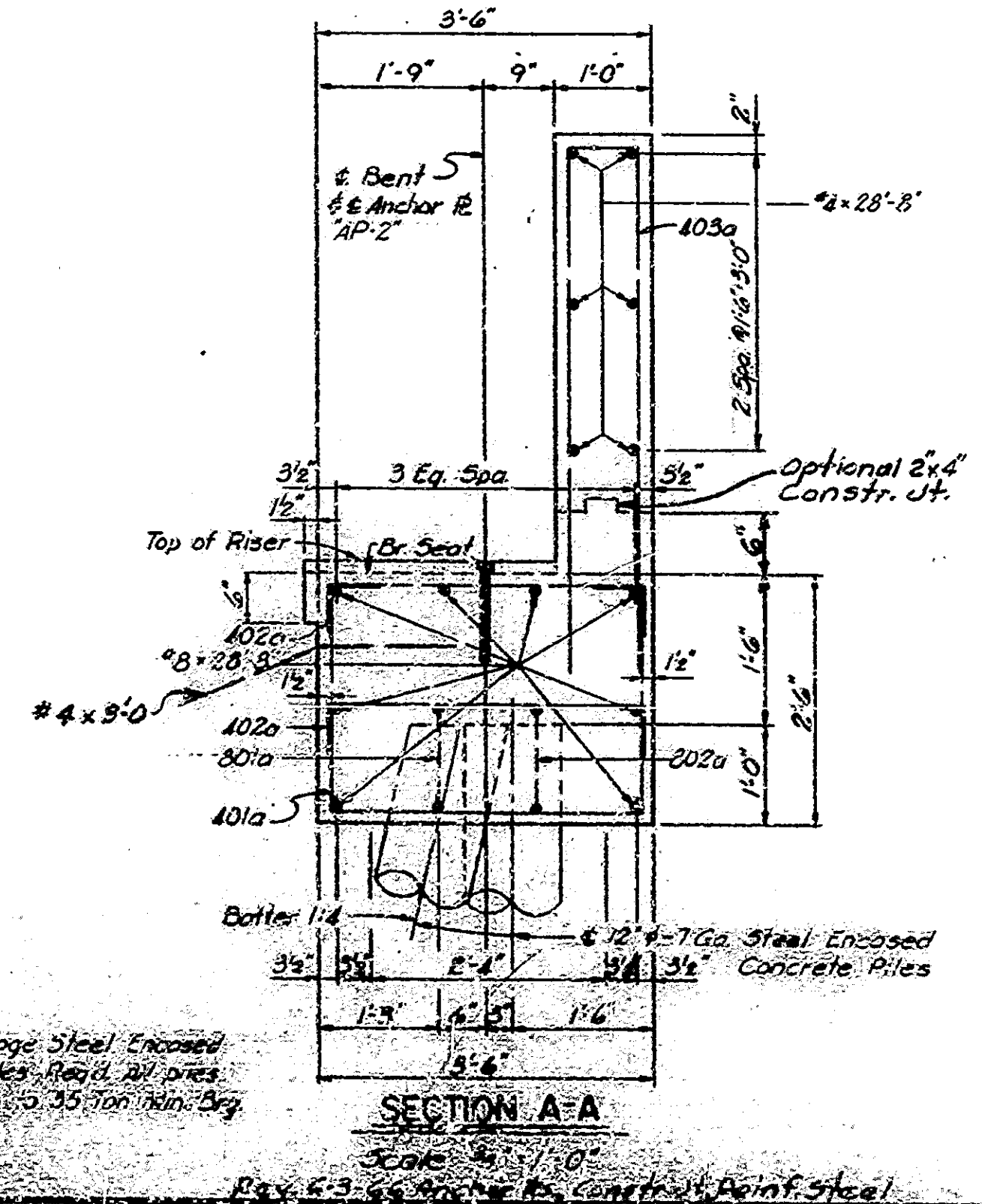
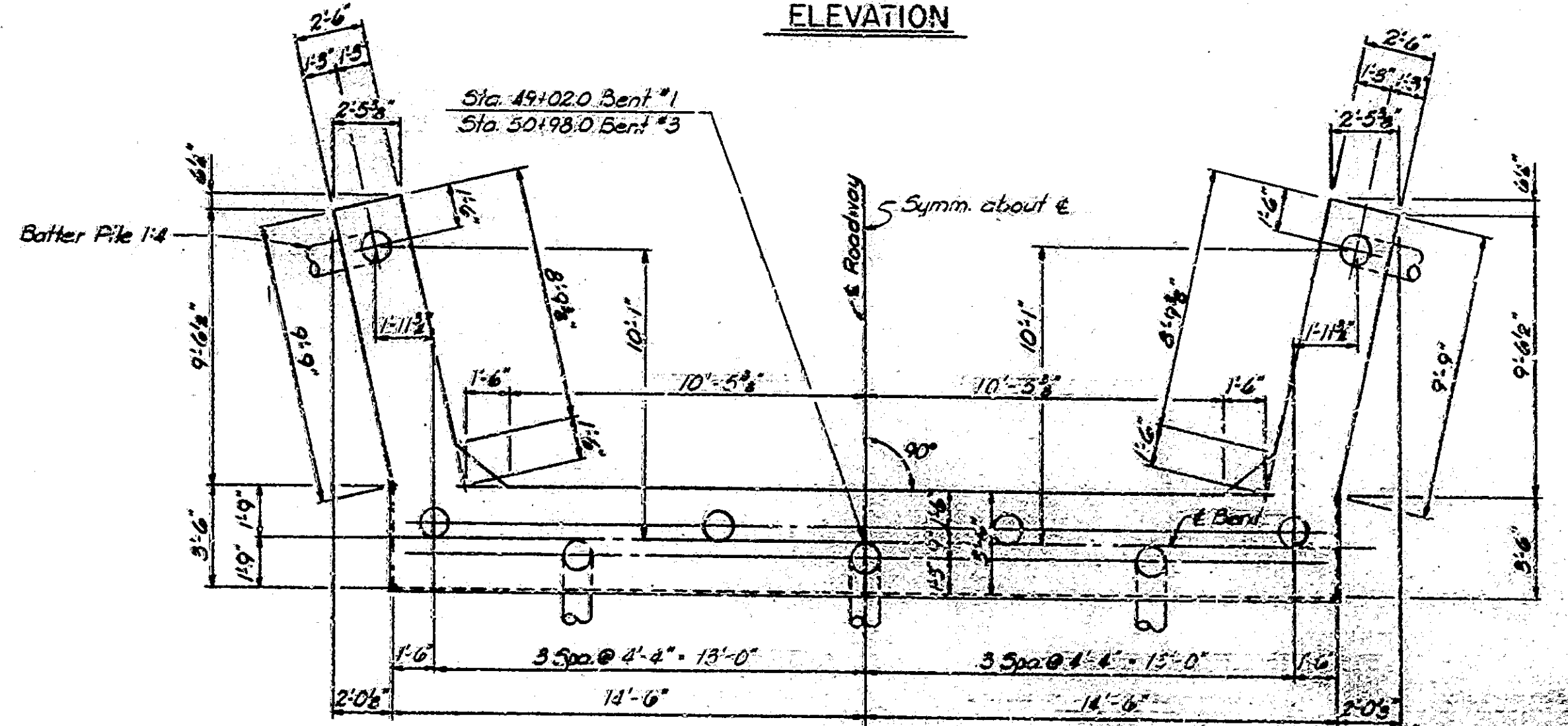
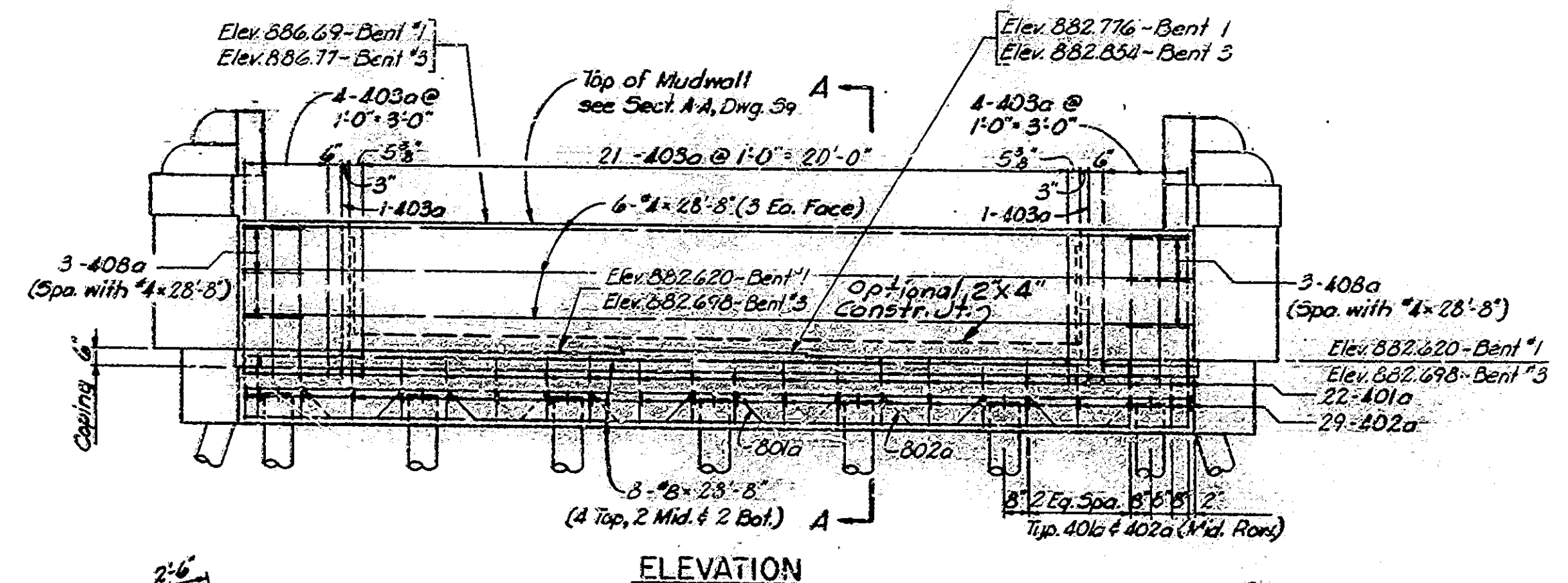
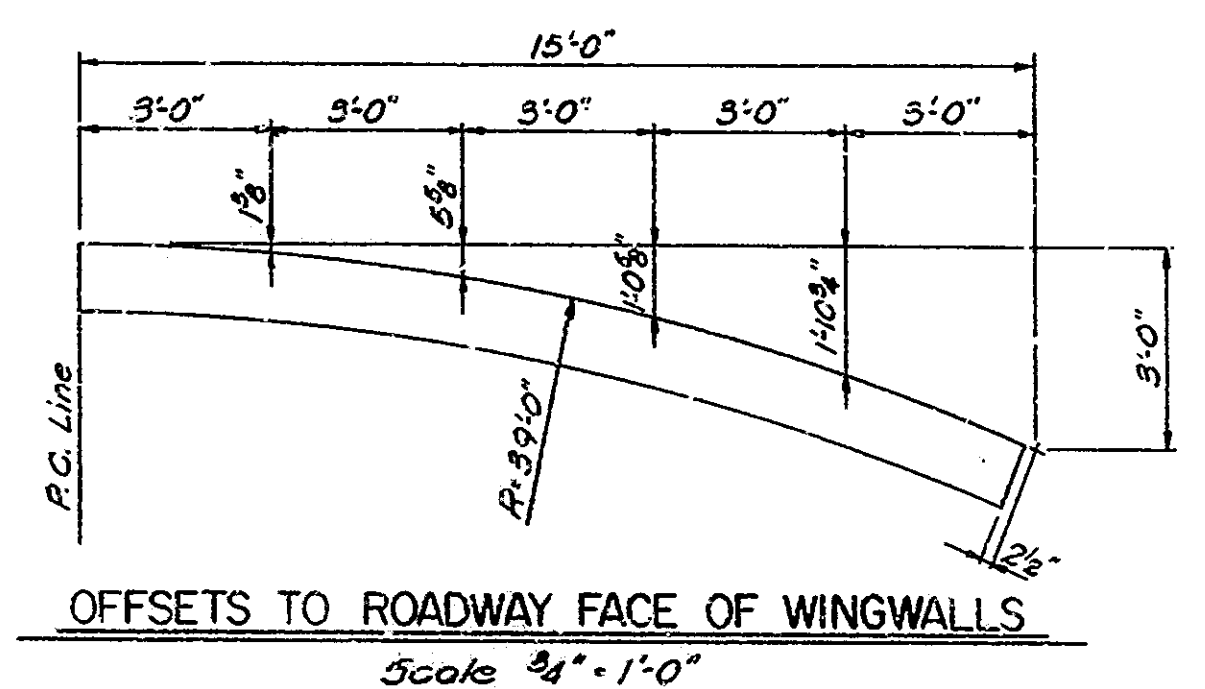
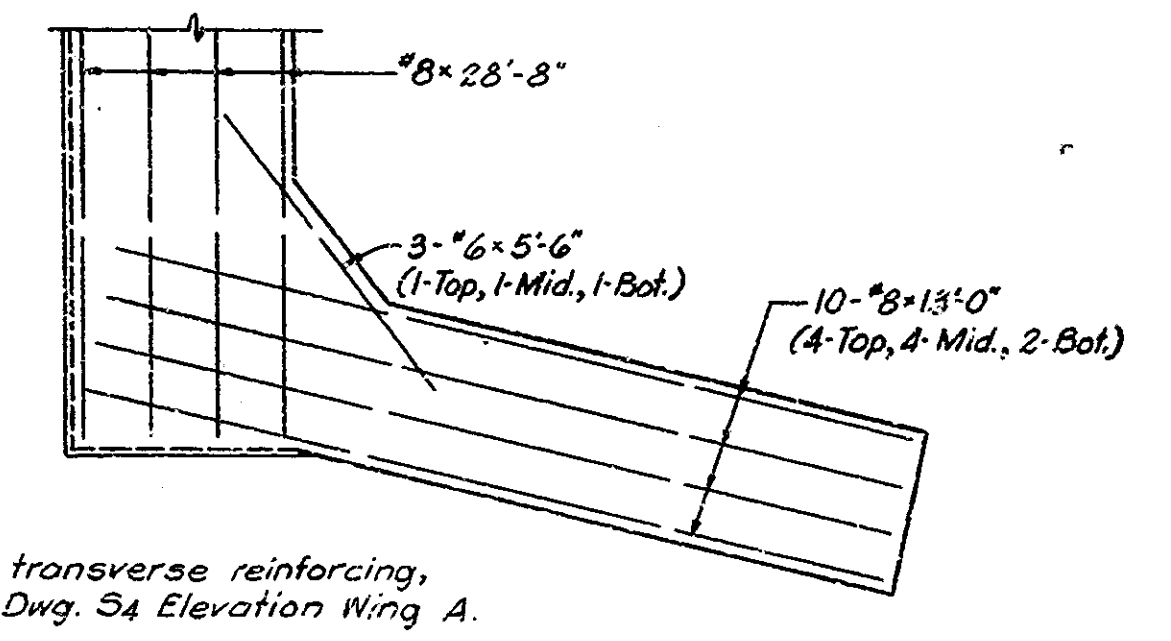
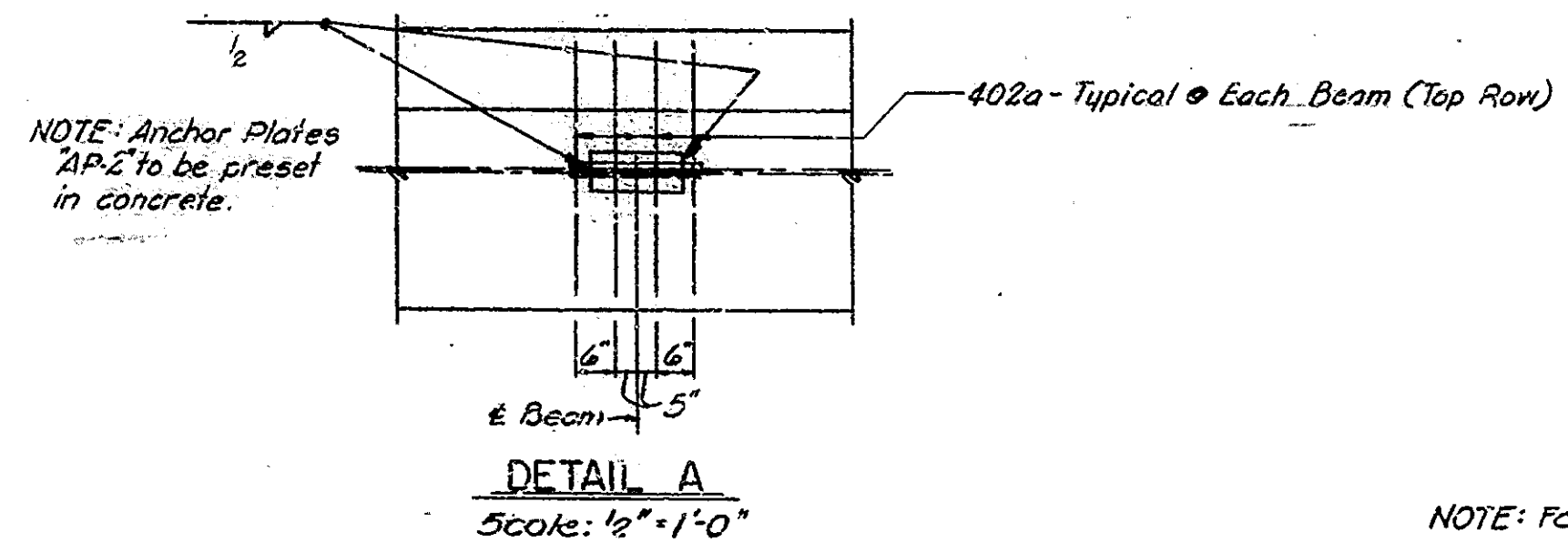
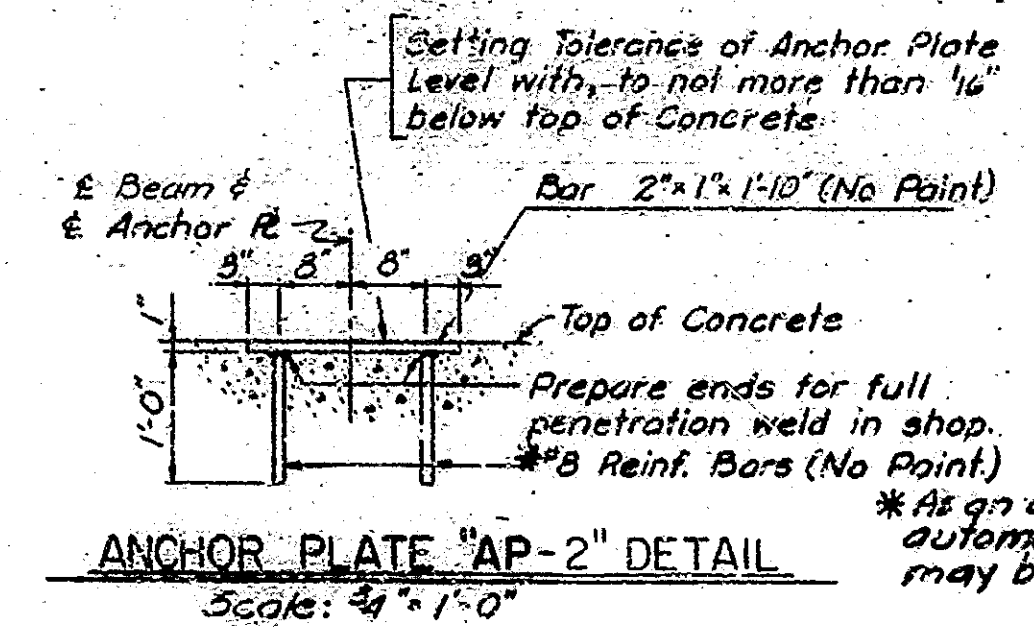
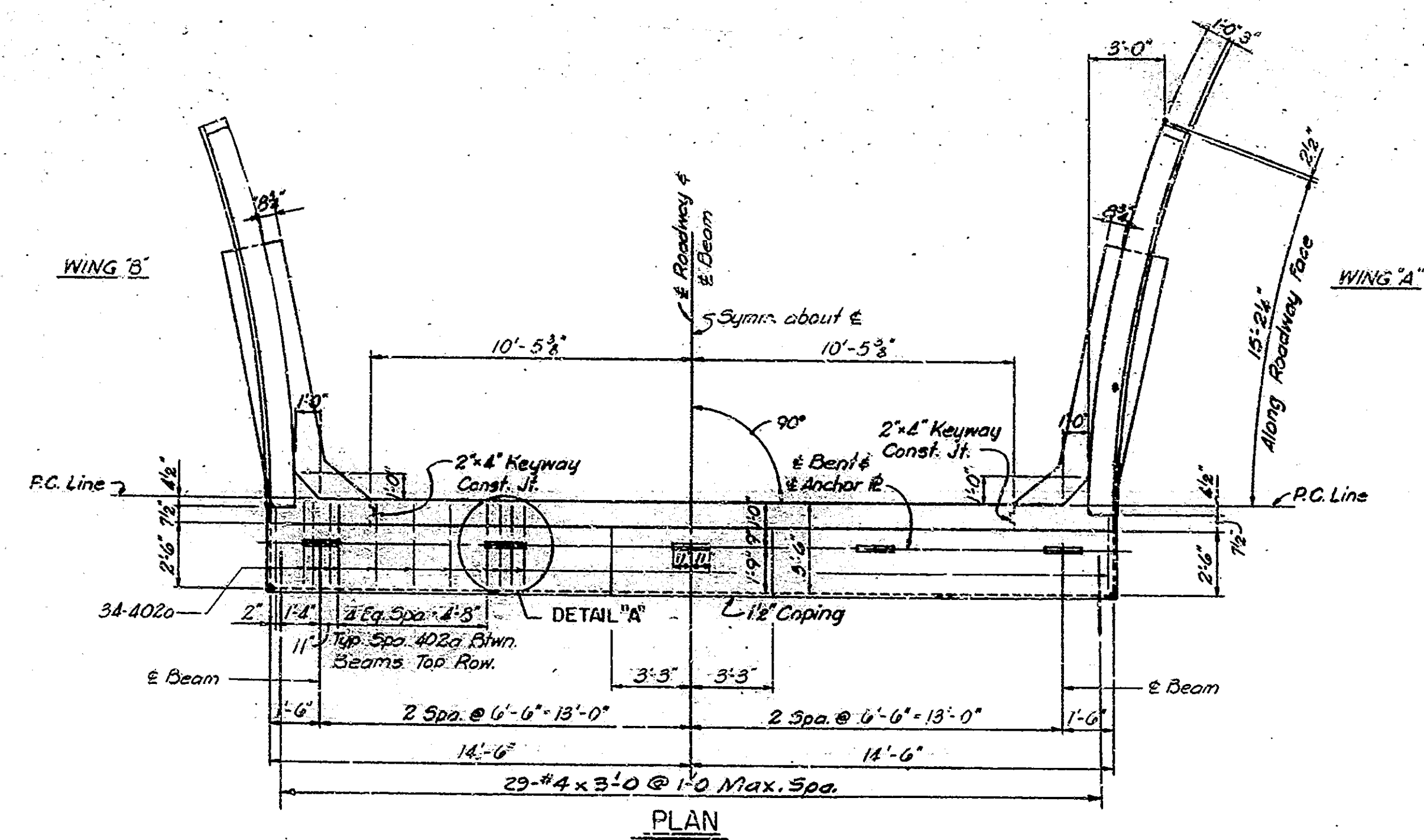
REV. 2-15-57 Guardrail FIELD BOOK 3711-1 892L  
 REV. 12-10-44 Sloped  
 REV. 6-2-66 Pipe Sloped







| BRIDGES OVER 20' SPAN |       |             |             |           |              |
|-----------------------|-------|-------------|-------------|-----------|--------------|
| PUR. ROAD REPAIRS     | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 4                     | IND.  | 1-70-35394  | 1964        | 7         | 33           |



NOTES:  
See Dwg. 52 for General Notes.  
Bent cap not to be poured until after fill has been made to the approximate bottom of cap elevation.

BENTS NOS. 1 AND 3  
**INDIANA STATE HIGHWAY COMMISSION**  
SCALE: 1/4" = 1'-0" EXCEPT AS NOTED JULY 29, 1964  
SUBMITTED FOR APPROVAL: *Donald S. Oster*  
DRAWING: S3 OF 10  
PROJECT: 1-70-35394  
BRIDGE CONTRACT NO. B-7263  
BRIDGE FILE: 1-70-37-5368

DESIGNED: CEV CND: BR  
DRAWN: DRS CND: CEV  
TRACED: CND

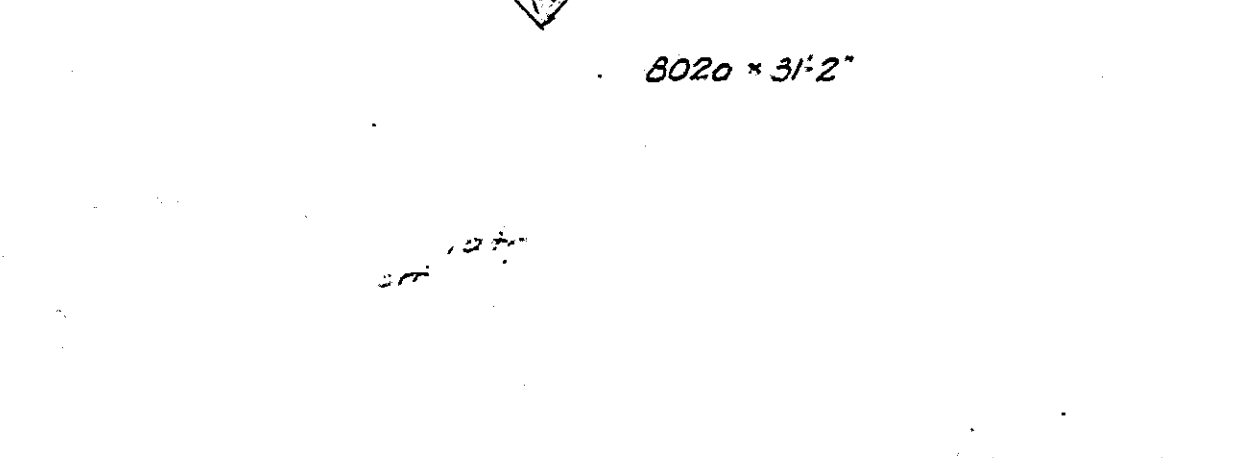
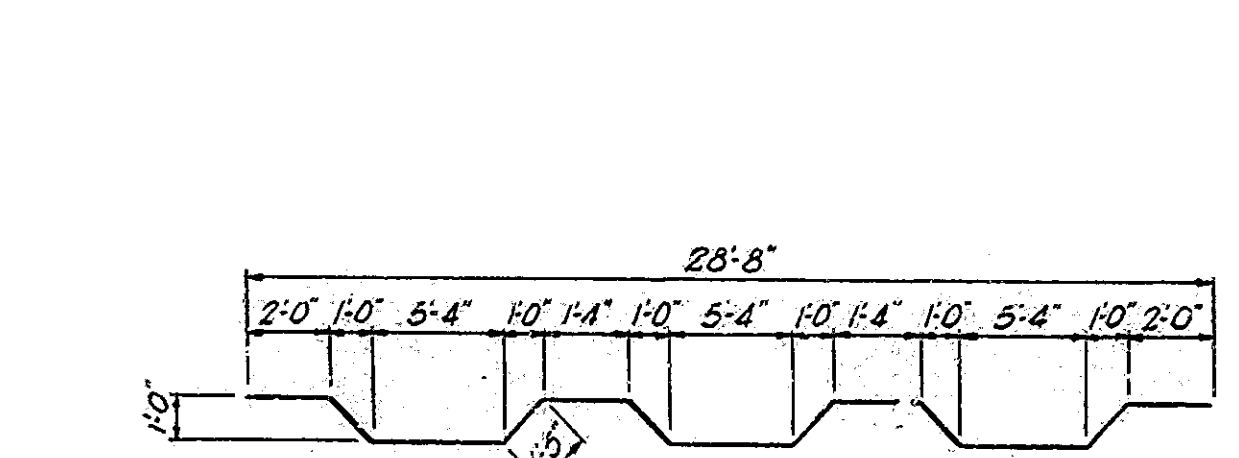
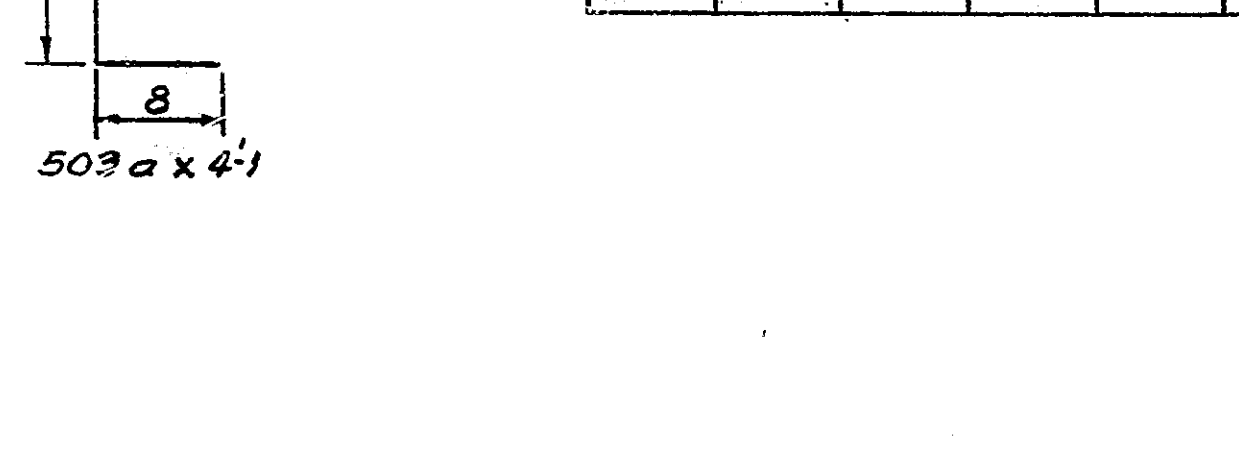
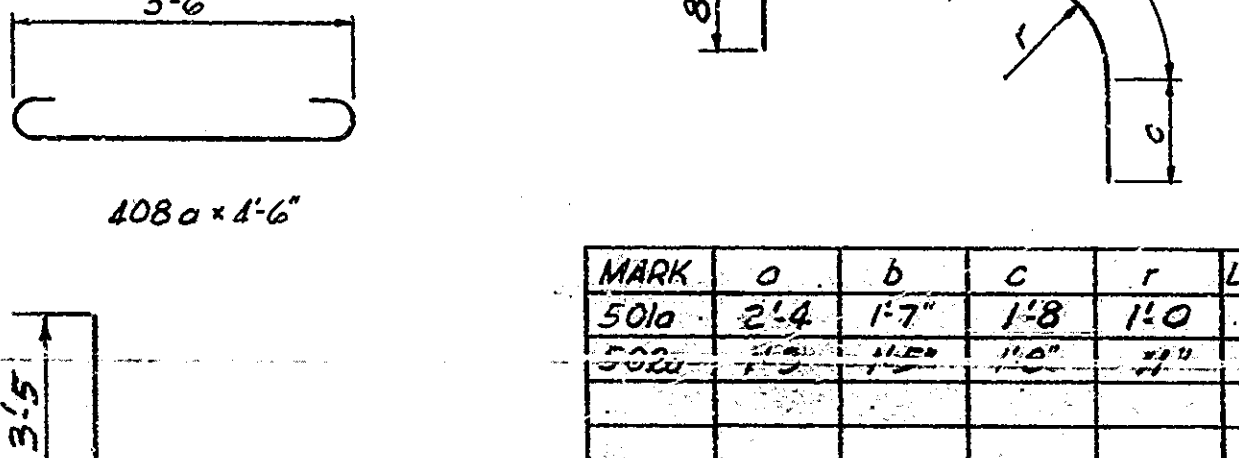
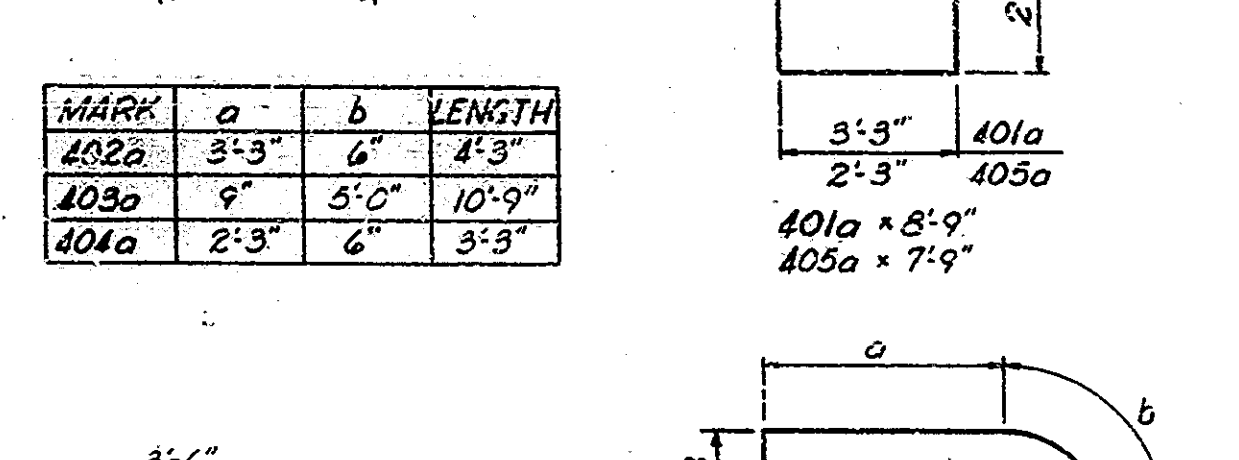
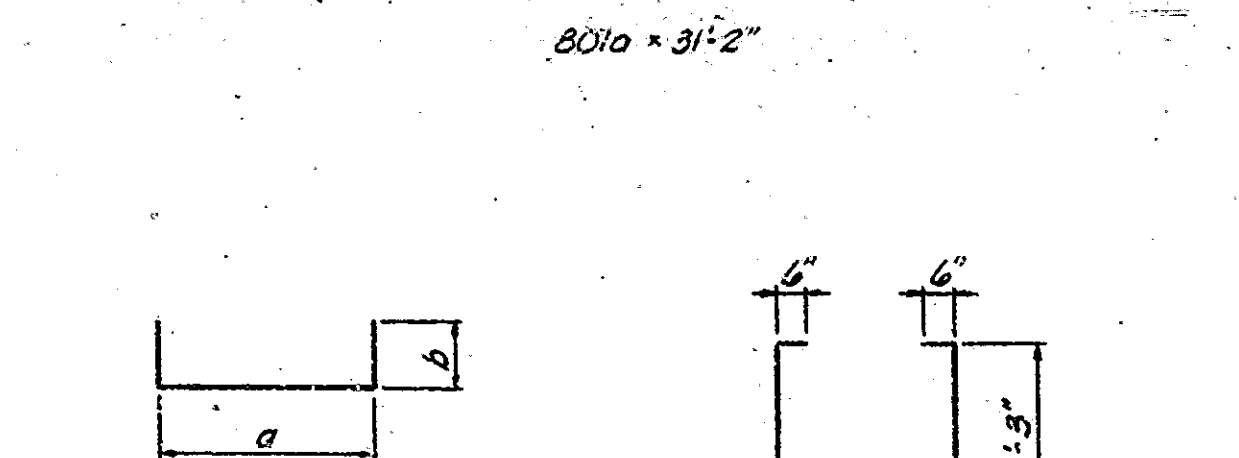
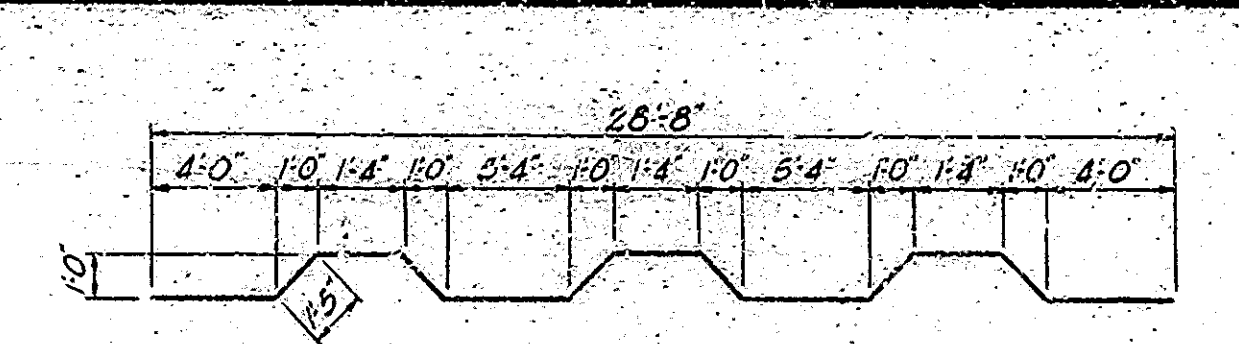
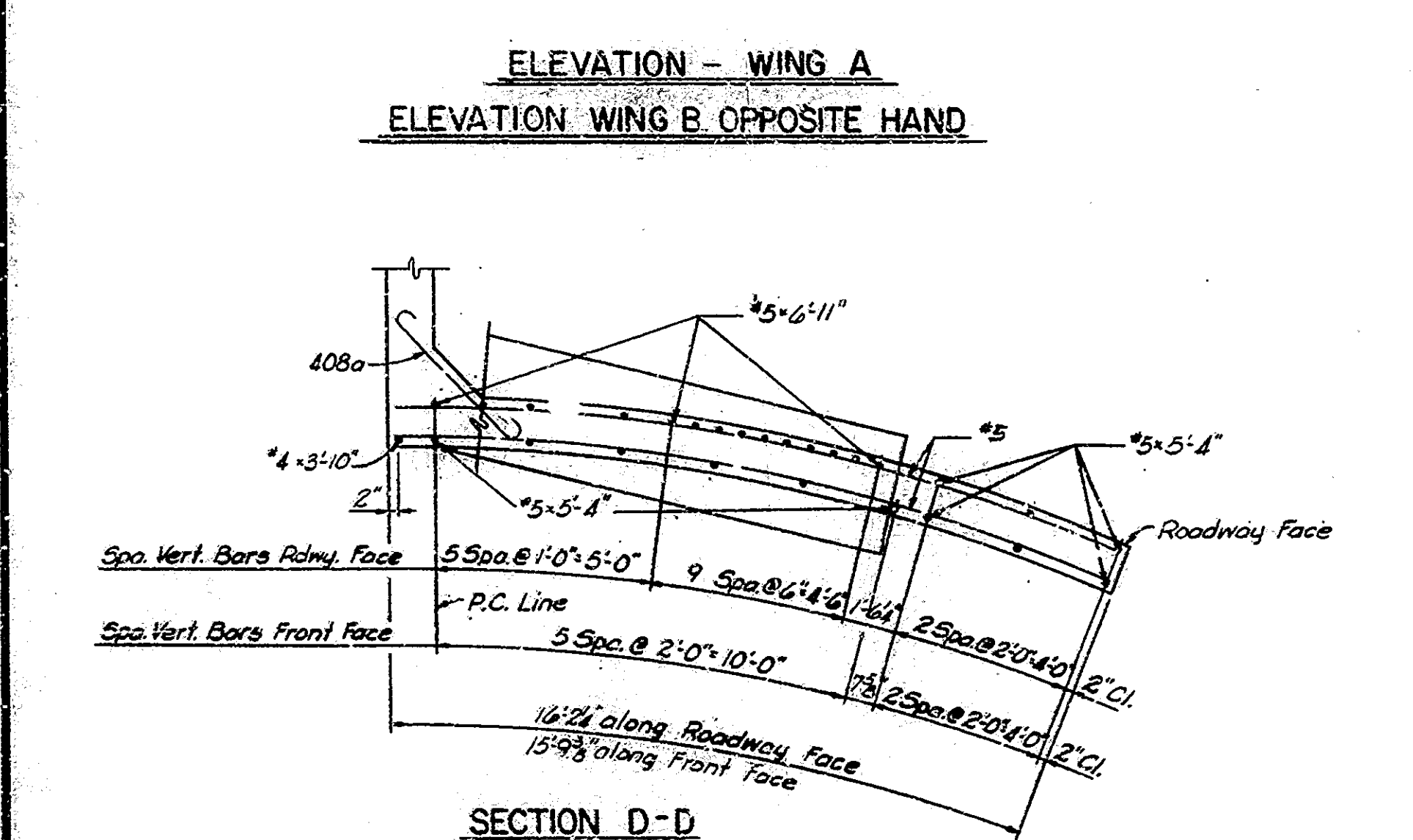
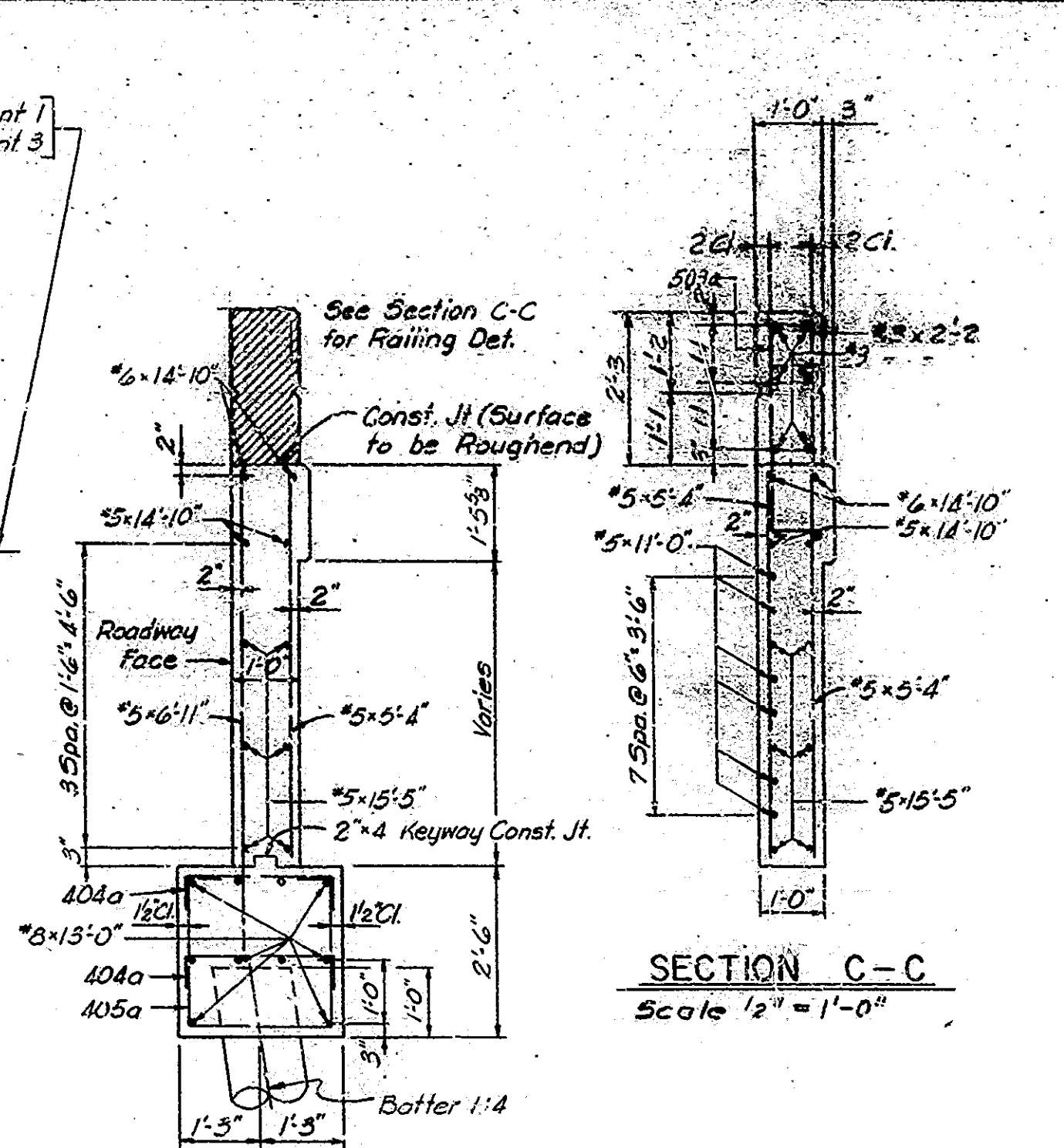
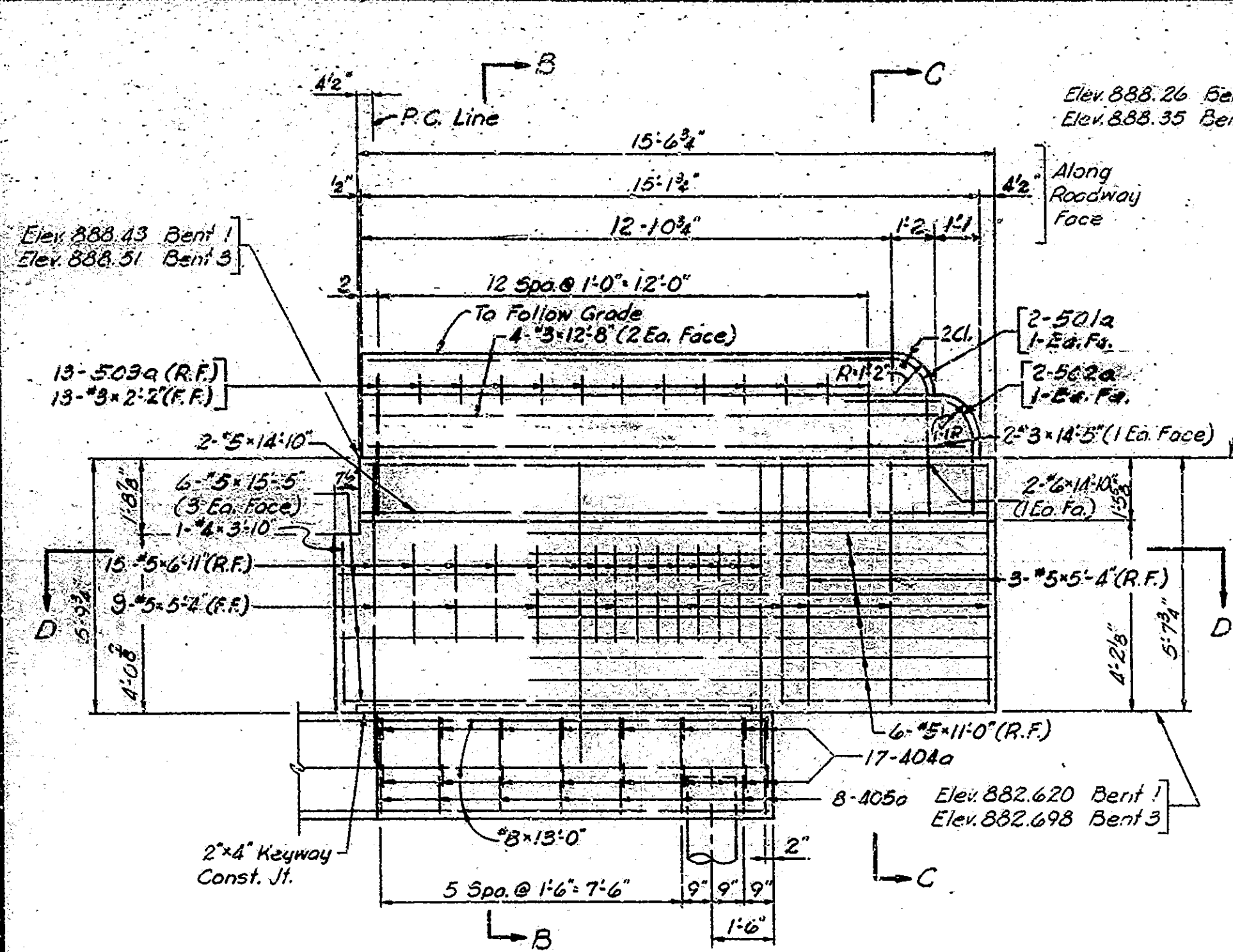




| BRIDGES OVER 20' SPAN |             |              |           |              |      |
|-----------------------|-------------|--------------|-----------|--------------|------|
| STATE                 | FISCAL YEAR | PROJECT NO.  | SHEET NO. | TOTAL SHEETS | DATE |
| IND.                  | 1964        | 1-70-3(53)24 | 8         | 33           |      |

**BENT NO. 1 - BENT NO. 3 SAME**  
**BILL OF MATERIALS**

| REINFORCING STEEL                        |                |          |        |
|--|----------------|----------|--------|
| MARK & SIZE                              | NUMBER OF BARS | LENGTH   | WEIGHT |
| 801a                                     | 1              | 31'-2"   |        |
| 802a                                     | 1              | 31'-2"   |        |
| #8                                       | 8              | 28'-8"   |        |
| #8                                       | 20             | 13'-0"   |        |
| #6                                       | 4              | 14'-10"  | 14.73  |
| #6                                       | 6              | 5'-6"    |        |
|  |                | Total #8 | 14.73  |
|  |                | Total #6 | 11.39  |
| 501a                                     | 4              | 6'-3"    |        |
| 502a                                     | 4              | 5'-0"    |        |
| 503a                                     | 26             | 4'-1"    |        |
| #5                                       | 12             | 15'-5"   |        |
| #5                                       | 4              | 14'-10"  |        |
| #5                                       | 12             | 11'-0"   |        |
| #5                                       | 30             | 6'-11"   |        |
| #5                                       | 24             | 5'-4"    |        |
|  |                | Total #5 | 9.20   |
| 401a                                     | 22             | 8'-9"    |        |
| 402a                                     | 63             | 4'-5"    |        |
| 403a                                     | 31             | 10'-9"   |        |
| 404a                                     | 34             | 3'-3"    |        |
| 405a                                     | 16             | 7'-9"    |        |
| 408a                                     | 6              | 4'-6"    |        |
| #4                                       | 6              | 28'-8"   |        |
| #4                                       | 2              | 3'-10"   |        |
| #4                                       | 29             | 3'-0"    |        |
|  |                | Total #4 | 3.65   |
| #3                                       | 4              | 14'-5"   |        |
| #3                                       | 8              | 12'-8"   |        |
| #3                                       | 26             | 2'-2"    |        |
|  |                | TOTAL #3 | 8.14   |
| Total Reinforcing Steel: 54.86           |                |          |        |
| CONCRETE                                 |                |          |        |
| Class "F"                                |                |          |        |
| Cap & Midwall                            |                |          | 17.60  |
| Wing "A"                                 |                |          | 4.20   |
| Wing "B"                                 |                |          | 4.20   |
| Total Class "F" Concrete                 |                |          | 26.00  |
| Railing Concrete                         |                |          | 2.14   |
| MISCELLANEOUS                            |                |          |        |
| 9-12" x 17-Gal. Steel Encasement         |                |          |        |
| Concrete Piles - 6-35" Tang 155-Lb. Pile |                |          |        |
| Anchor Plates - 4R-2"                    |                |          |        |



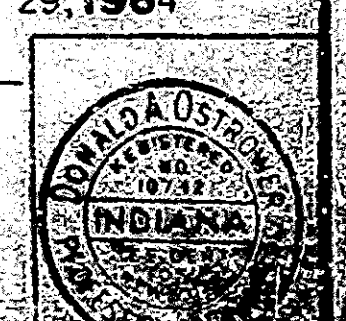
DESIGNED: CEV  
DRAWN: DRS  
CHECKED: CEV  
TRACED: CTD

NOTES:  
See Dwg. 3a for General Notes.  
See Br. 51d C, for Reinforcing Bar Notes.

**BENTS NO. 1 AND NO. 3 DETAILS**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: 3/8" = 1'-0" EXCEPT AS NOTED  
DATE: JULY 29, 1964

APPROVED FOR APPROVAL: *Donald P. [Signature]*  
DRAWING: S<sub>4</sub> OF 0  
PROJECT: 1-70-3(53)24  
BRIDGE CONTRACT NO. B-7263  
BRIDGE FILE: 1-70-97-5388

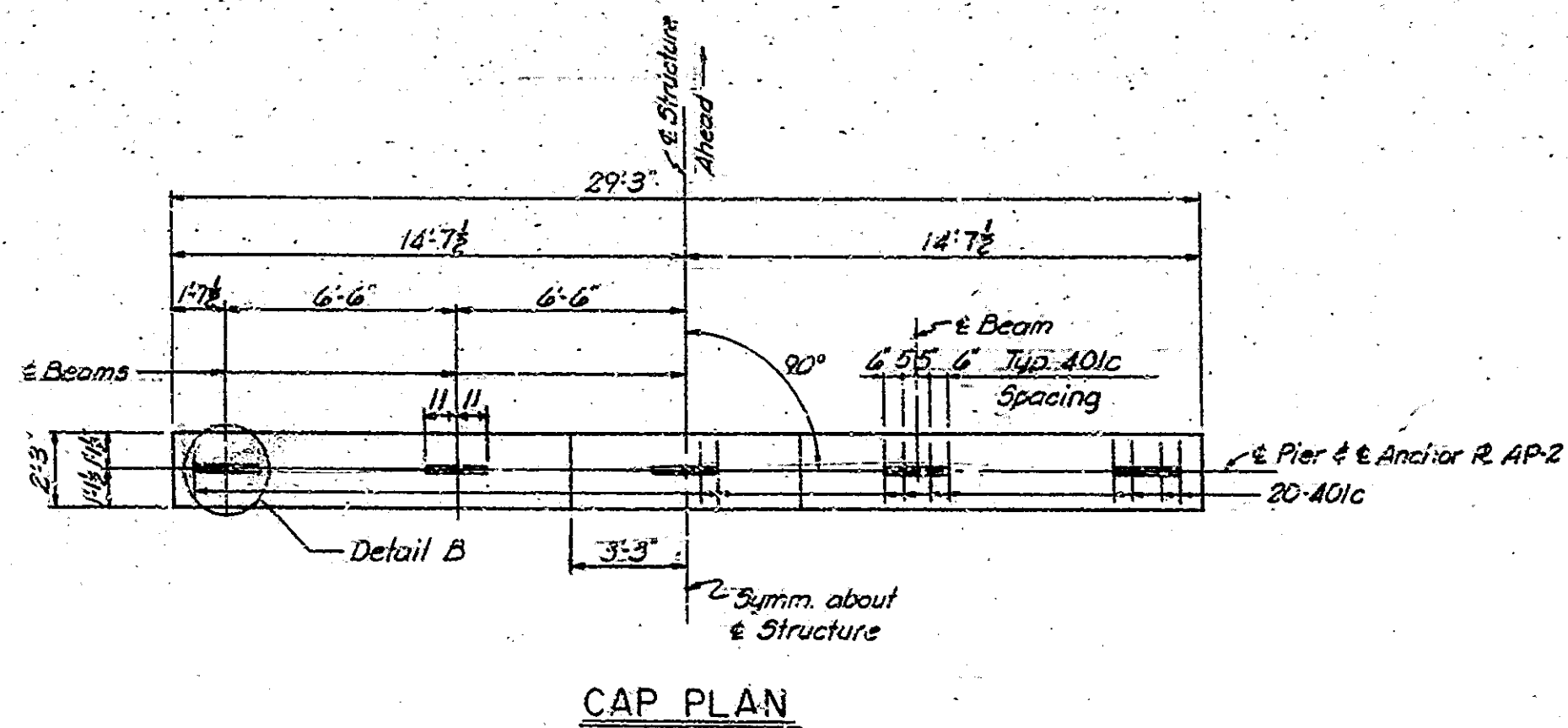




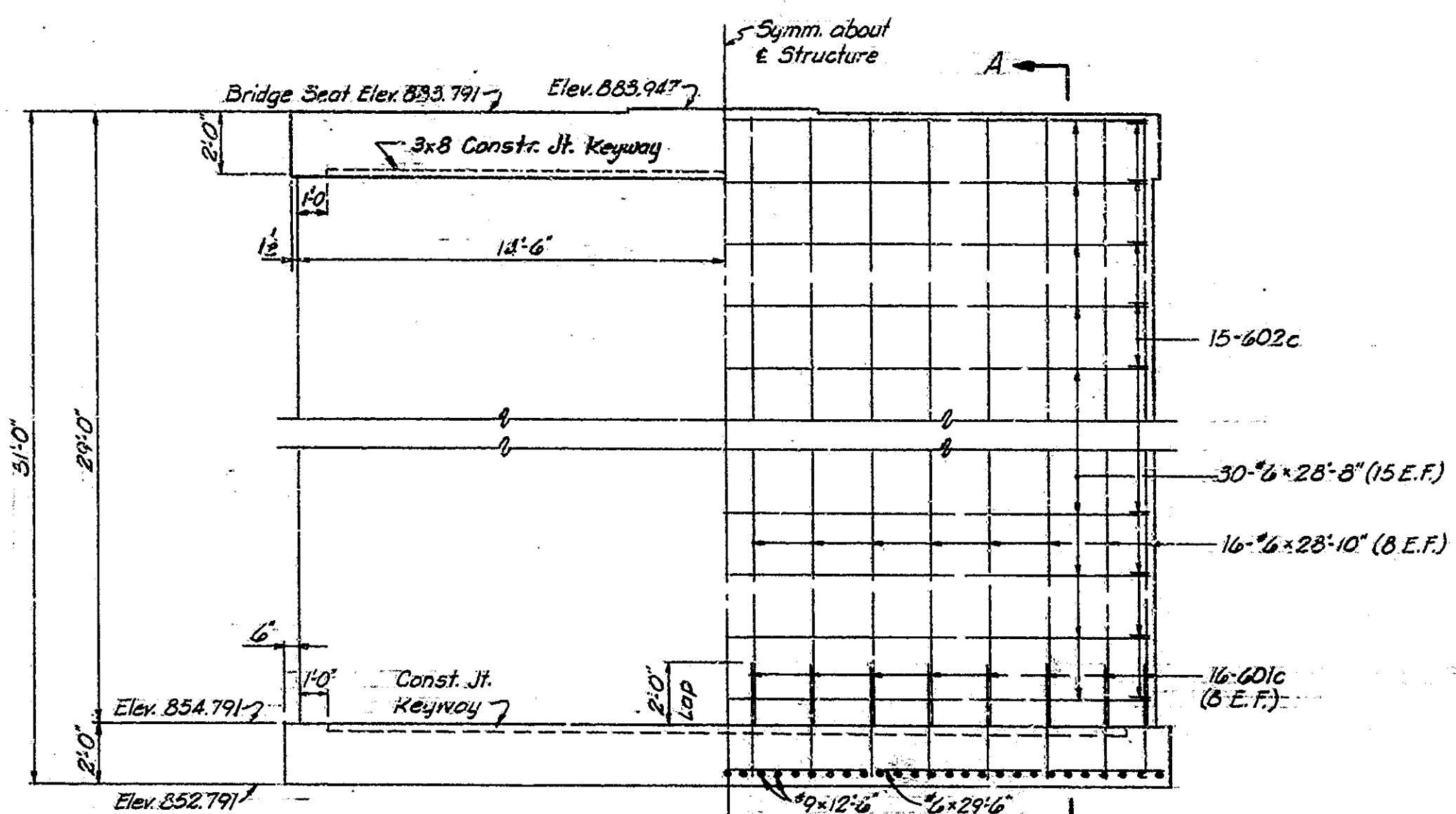
| BRIDGES OVER 20' SPAN |       |             |             |           |              |
|-----------------------|-------|-------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO.   | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 4                     | IND.  | 1-70-363394 | 1964        | 9         | 33           |

**BILL OF MATERIALS**

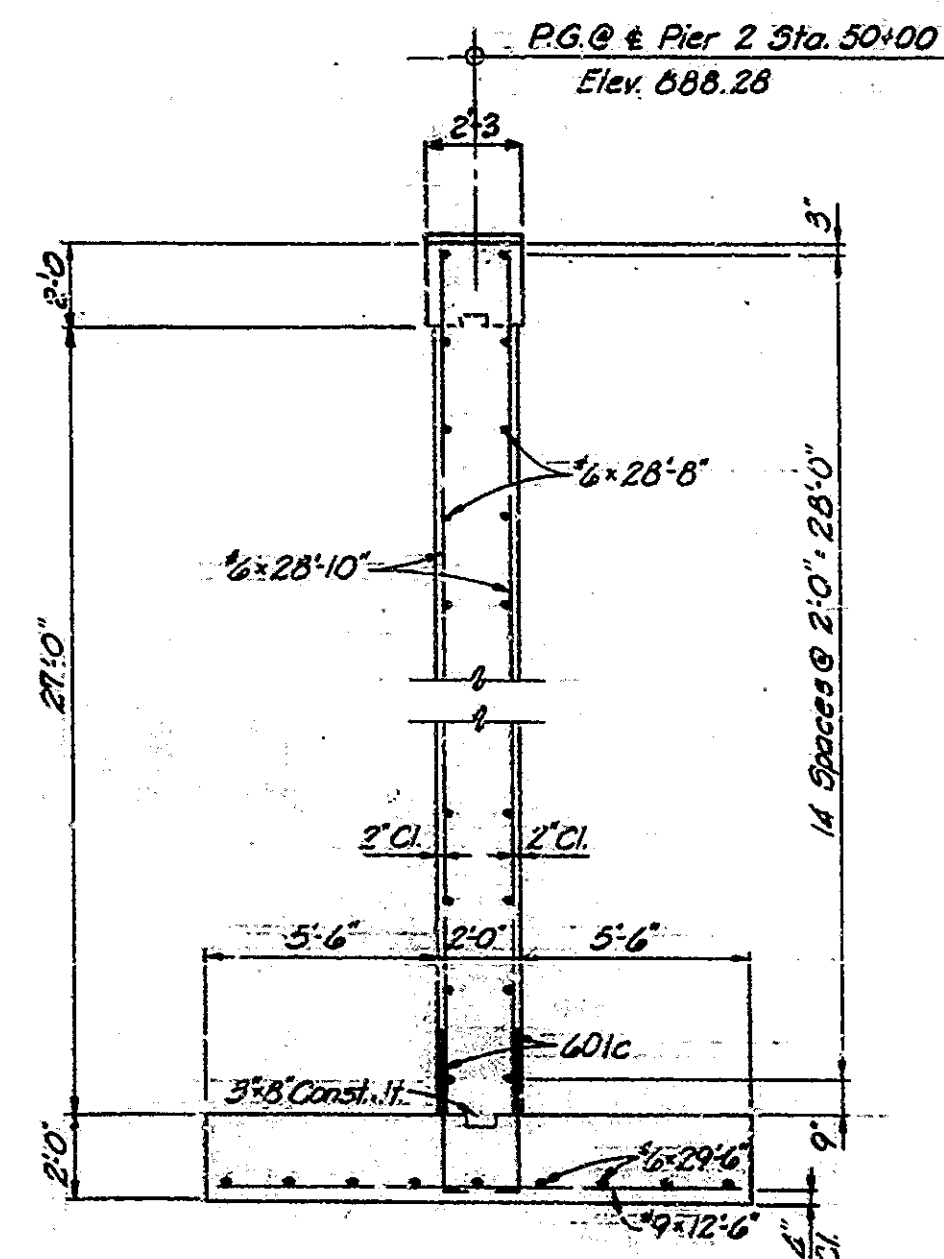
| REINFORCING STEEL       |             |             |        |
|-------------------------|-------------|-------------|--------|
| MARK # SIZE             | NO. OF BARS | LENGTH      | WEIGHT |
| #9                      | 51          | 12'-6"      |        |
|                         |             | Total #9    | 2,160# |
| 601c                    | 32          | 4'-2"       |        |
| 602c                    | 30          | 2'-10"      |        |
| #6                      | 9           | 28'-6"      |        |
| #6                      | 32          | 28'-10"     |        |
| #6                      | 30          | 28'-8"      |        |
|                         |             | Total #6    | 3,404# |
| 401c                    | 20          | 2'-8"       |        |
|                         |             | Total #4    | 36#    |
| Total Reinforcing Steel |             |             |        |
| CONCRETE                |             |             |        |
| Class E above Footing   |             | 58.0 Cu Yds |        |
| Class E in Footing      |             | 249 Cu Yds  |        |
| Class F                 |             | 4.9 Cu Yds  |        |
| MISCELLANEOUS           |             |             |        |
| Anchor Plates "AP-2"    |             | 5 Each      |        |



**CAP PLAN**

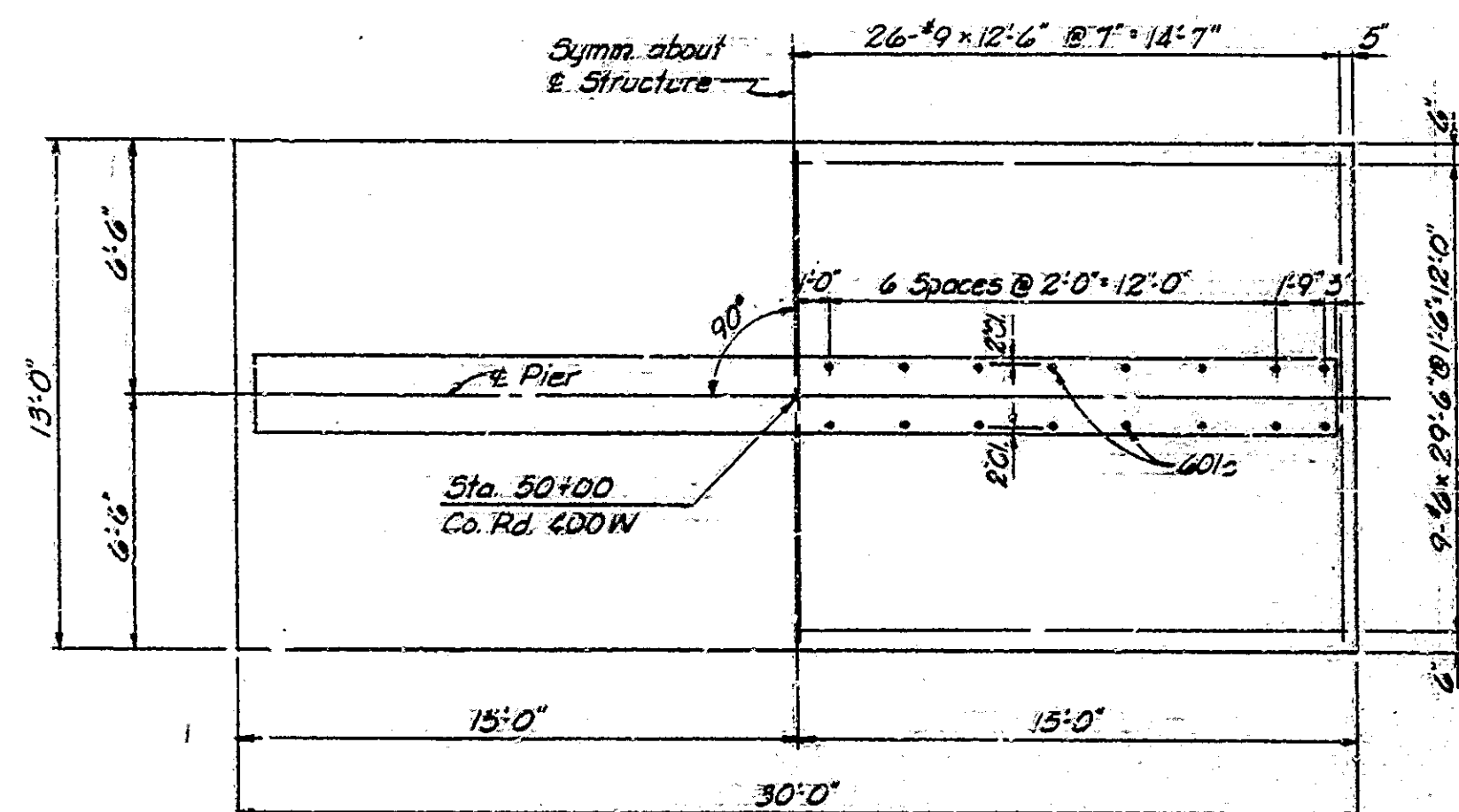


SHOWING CONCRETE DIMENSIONS  
**ELEVATION**  
SHOWING REINFORCING STEEL

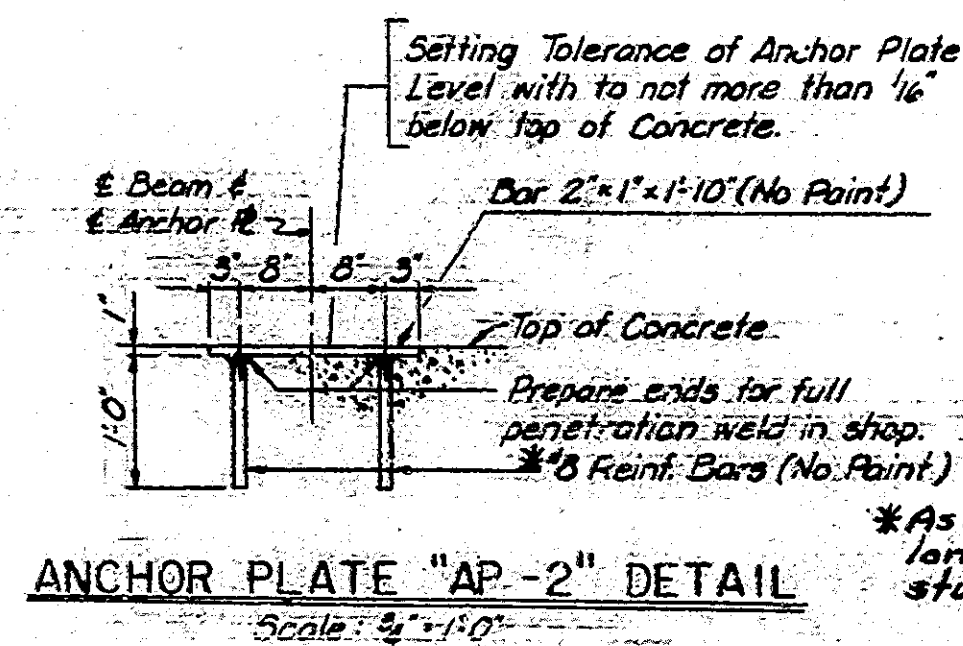


**SECTION A-A**

Maximum allowable soil pressure = 2.5 T/S.F.



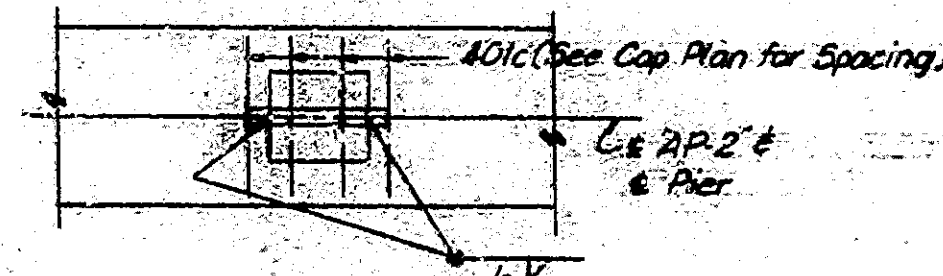
**FOOTING PLAN**



**ANCHOR PLATE "AP-2" DETAIL**

Scale: 1/2" = 1'-0"

NOTE: Anchor Plates AP-2 to be present in concrete



**DETAIL B**

Scale: 3/4" = 1'-0"

NOTE:  
See Dwg. S2 for General Notes.  
For Reinforcing Bar Notes, see Br. Std. C1.

\*As an alternate to #6x8 long automatic welded stud/thread may be used.

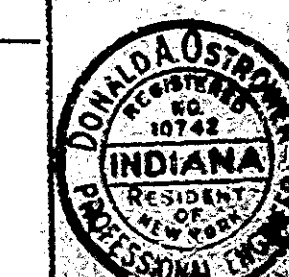
PIER NO. 2  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: 1/4" = 1'-0" EXCEPT AS NOTED

JULY 29, 1964

SUBMITTED FOR APPROVAL: *Donald A. Osterman*

DRAWING: S5 OF 10  
PROJECT: 1-70-363394  
BRIDGE CONTRACT NO. B7263  
BRIDGE FILE: 1-70-97-5388

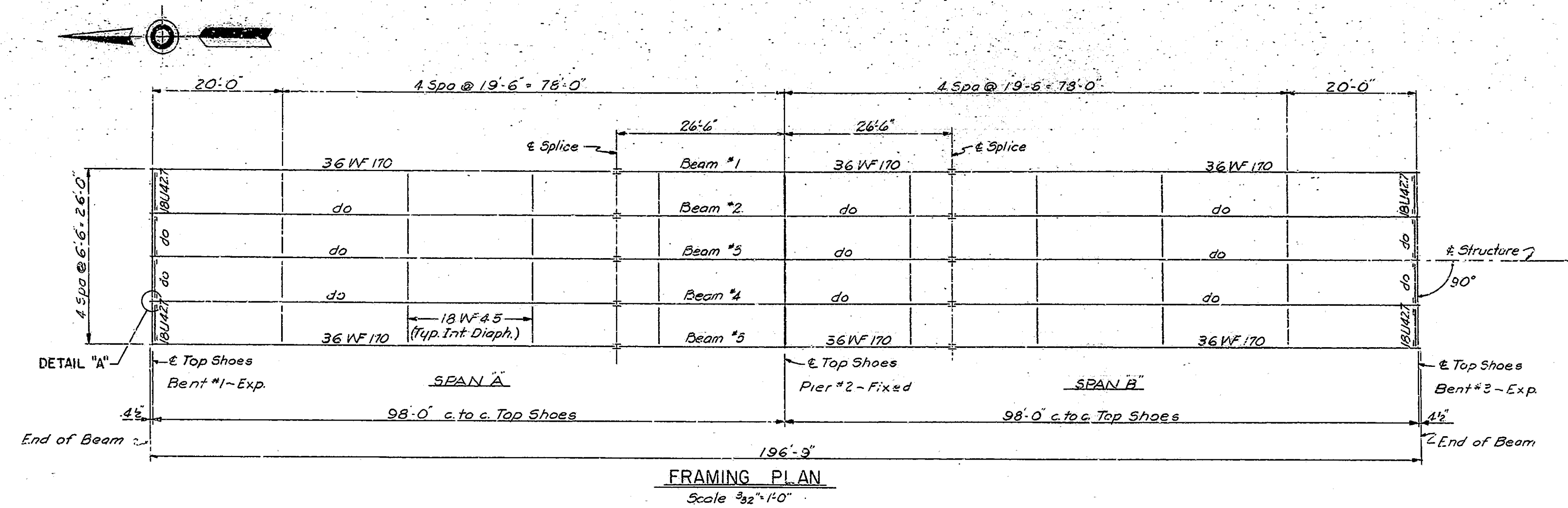


DESIGNED: AED CVD DJH  
DRAWN: DRB CVD AED  
TRACED: CVD

Rev. 6-3-66 Anchor Pls.

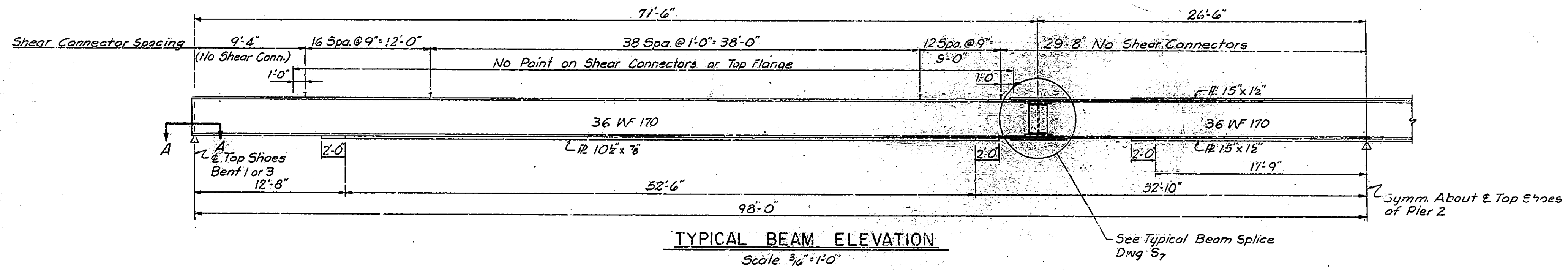


| BRIDGES OVER 20' SPAN |       |             |             |              |
|-----------------------|-------|-------------|-------------|--------------|
| PUB. ROAD RES. NO.    | STATE | PROJECT NO. | FISCAL YEAR | TOTAL SHEETS |
| 4                     | IND.  | 3163194     | 1964        | 33           |

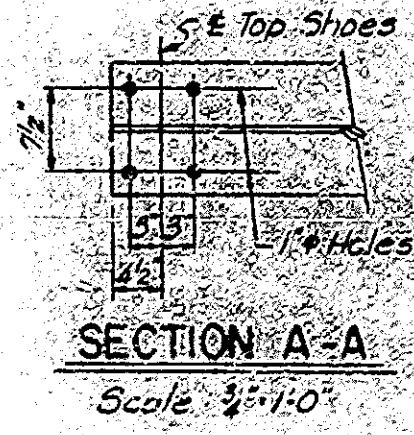
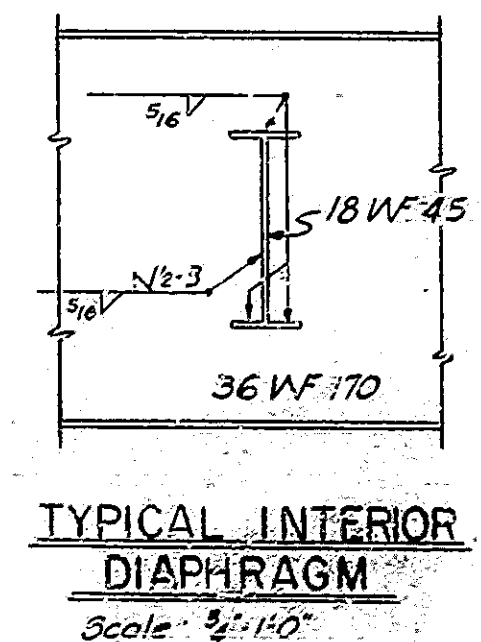
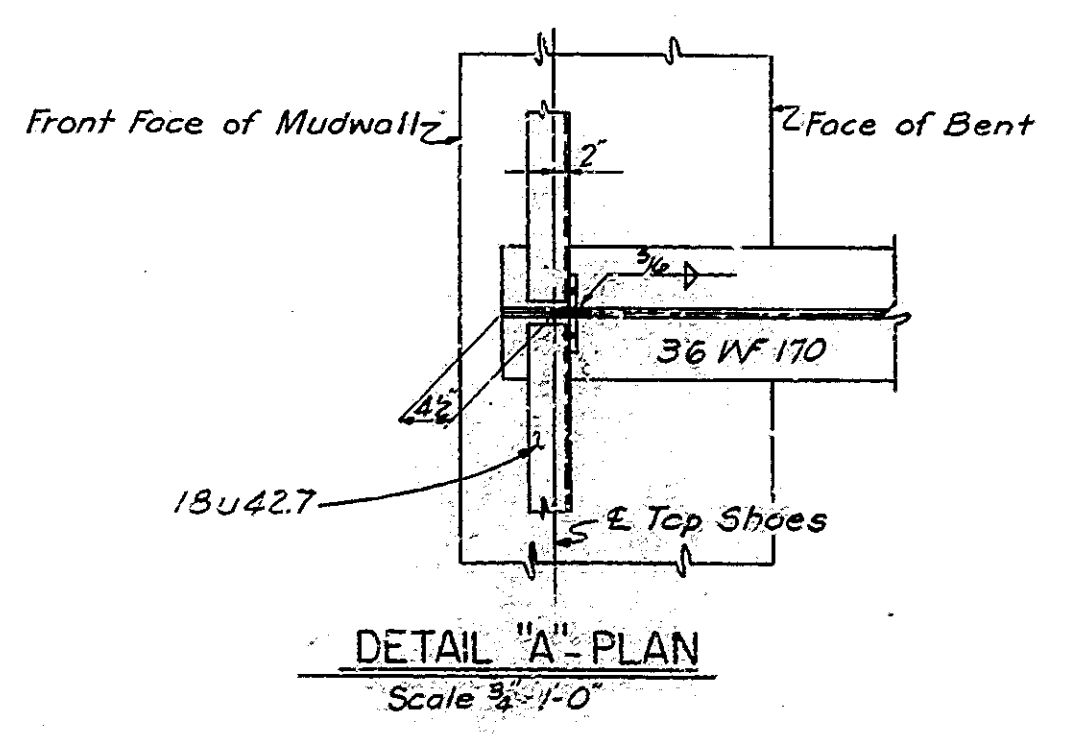


**GENERAL STEEL NOTES**

See Dwg. S7 for additional Steel Notes.  
See Dwg. S2 for General Notes.  
Rivets are 3/4" unless noted.  
Open holes are 3/8" unless noted.  
All paint shall be in accordance with current State Highway Specs.  
Shop Paint: Basic Lead Silico Chromate. (See Special Provision)  
Field Paint: No paint on anchor plates.  
Beams must be cambered to a smooth curve. Camber must be checked while beams are supported in such a way as to have no bending moment in the direction of the camber.  
Holes for beam field splices shall be subpunched or subdrilled and reamed to size while assembled. See Article E1103.18(d) of the specifications.  
The Shop Plans shall indicate whether reaming is to be done in the shop or in the field. If shop reaming or drilling is used the beams shall be assembled in accordance with diagram on sheet S2 (NO LOAD BEAM CAMBER DIAGRAM). If the beams are shop reamed or drilled full size drill pins shall be used in reaming a minimum of 1/16" for each 1/8" of the flange splice holes and fifty percent (50%) of the web splice holes. The elevations shall be checked before bolting or riveting field splices, and the structural steel unsupported by falsework.  
The shop details shall show a plan of matchmarking for all reamed pieces.  
All splice plates are to be removed, cleaned, and painted after reaming. Splice plates shall not extend beyond the ends of the beams after bolting for shipment.  
Flange splice bars shall have planed or rolled edges and holes in bars shall be subdrilled and reamed or drilled full size while assembled.



Holes in all material connecting top shoes to beam flanges to be 1/8". Bolts connecting top shoes to beam flanges shall extend into top shoes a minimum of 1".  
Shims between beams and top shoes may be built up. No shim shall be less than 3/8" in thickness.  
All welding shall conform to current A.W.S. Specifications for "Welded Highway and Railway Bridges" unless noted. As soon as the Engineer has approved the field welds, all welds and any surface from which the shop coat has been omitted or has become worn off or has otherwise become defective, shall be thoroughly cleaned of all chattered paint or any foreign matter and completely covered with one coat of shop paint.  
The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in conformity with the Engineer's Drawings and the Specifications and shall submit five (5) copies of these to the Engineer. See Article E1103.2 of the Specifications.  
All Structural Steel to be ASTM-A36  
Estimated Structural Steel Weight - 239,836.



|                         | Int. Beam (ksi) |              | Fascia Beam (ksi) |              |
|-------------------------|-----------------|--------------|-------------------|--------------|
|                         | Steel Stress    | Conc. Stress | Steel Stress      | Conc. Stress |
| Uniform Dead Load       | 12.5            | —            | 17.6              | —            |
| Uniform Live Load       | 2.3             | 0.1          | 2.7               | 0.1          |
| Impact on Concrete Slab | 0.4             | 0.05         | 0.7               | 0.6          |
| Impact on Concrete Slab | 1.9             | 0.05         | 1.6               | 0.1          |
| Total Stress            | 17.1            | 0.1          | 18.4              | 0.8          |

\* Includes railing and future wearing surface

|   |               |
|---|---------------|
| Designed for HS 20-44. Loading in accordance with 1961 AASHTO Specs.          |               |
| Slab - Designed for 10" wheel + impact, with 1/2" monolithic wearing surface. |               |
| Dead Load increased 35% S.F. to provide for future wearing surface.           |               |
| Shear on Rivets   | 13,500 p.s.i. |
| Bearing - Power Driven Rivets & Torqued H.S. Bolts                            | 40,000 p.s.i. |
| Carbon Steel - ASTM A36   |               |
| Tension   | 20,000 p.s.i. |
| Compression   | 20,000 p.s.i. |
| Shear - Webs  | 12,000 p.s.i. |
| Bearing (Not including Power Driven Rivets & Torqued H.S. Bolts)              | 27,500 p.s.i. |
| Shear - Fillet Welds  | 12,000 P.S.I. |
| Reinforcing Steel   | 22,000 P.S.I. |
| Concrete - f <sub>c</sub>   | 1,200 P.S.I.  |
| Concrete - Bearing  | 1,000 P.S.I.  |

**NOTE:** Diaphragm connections to beams may be either bolted or riveted. If riveted, make connections in the contractor's field. Use details in this drawing for rivets. The contractor shall be responsible for details in the field. The contractor shall assume full responsibility for the design of the diaphragm and for the weight of the diaphragm. The weight of the diaphragm will be assumed.

| LOCATION | 6m   | 3m   | 3m   | 3m   | 3m   |
|----------|------|------|------|------|------|
| Bent #1  | 7/8" | 7/8" | 7/8" | 7/8" | 7/8" |
| Bent #2  | 7/8" | 7/8" | 7/8" | 7/8" | 7/8" |
| Bent #3  | 7/8" | 7/8" | 7/8" | 7/8" | 7/8" |

| POS. MO. OR REACT. | SPAN A    |       |           |       | SPAN B    |       |           |       |
|--------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
|                    | INT. BEAM | CONC. | INT. BEAM | CONC. | INT. BEAM | CONC. | INT. BEAM | CONC. |
| Dead Load          | 12.5      | —     | 17.6      | —     | 12.5      | —     | 17.6      | —     |
| Live Load          | 2.3       | 0.1   | 2.7       | 0.1   | 2.3       | 0.1   | 2.7       | 0.1   |
| Impact             | 0.4       | 0.05  | 0.7       | 0.6   | 0.4       | 0.05  | 0.7       | 0.6   |
| Total              | 15.2      | 0.15  | 21.0      | 0.75  | 15.2      | 0.15  | 21.0      | 0.75  |

**FRAMING PLAN**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: AS NOTED  
JULY 29, 1964

SUBMITTED FOR APPROVAL: *Donald W. Oster*

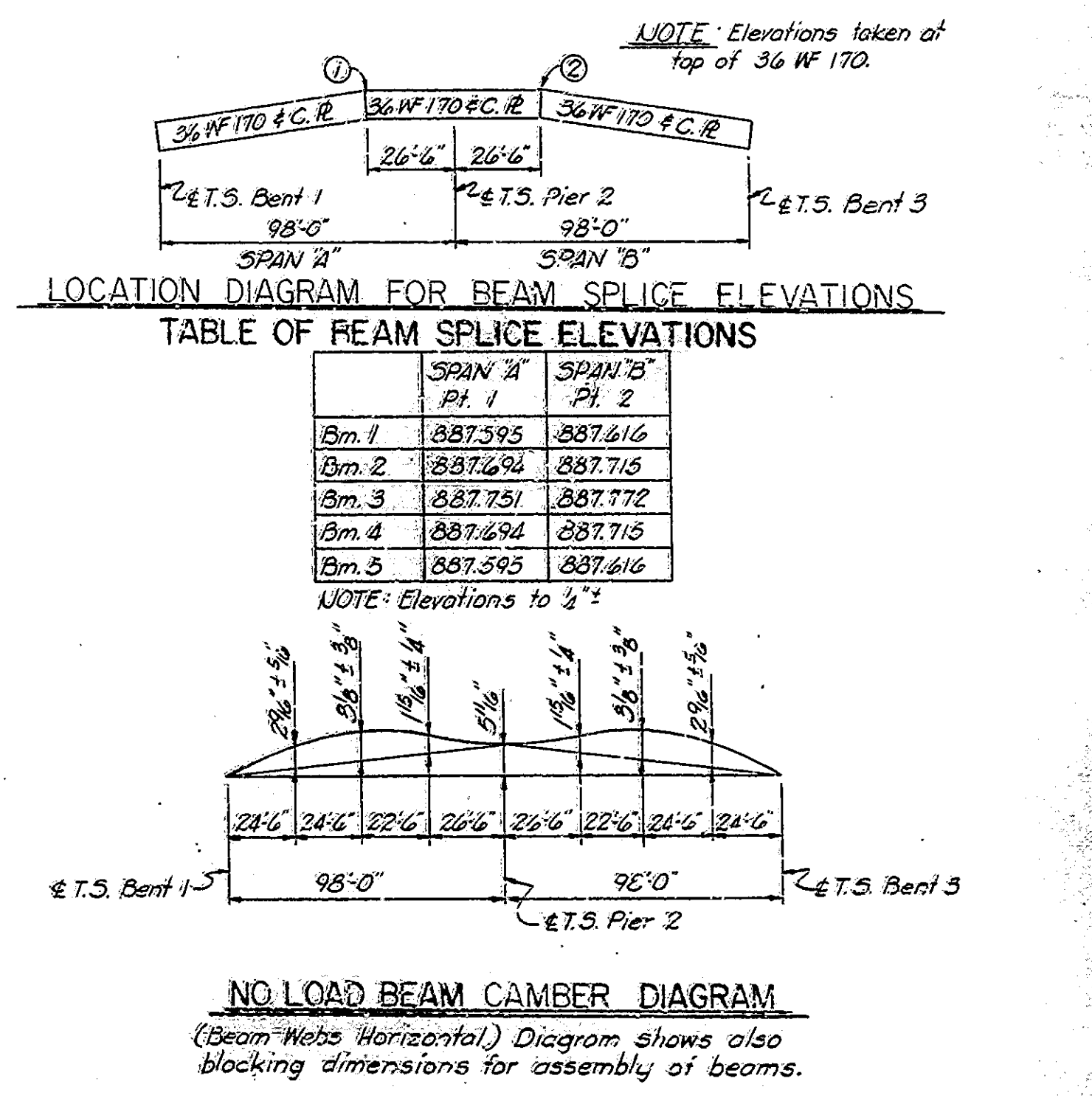
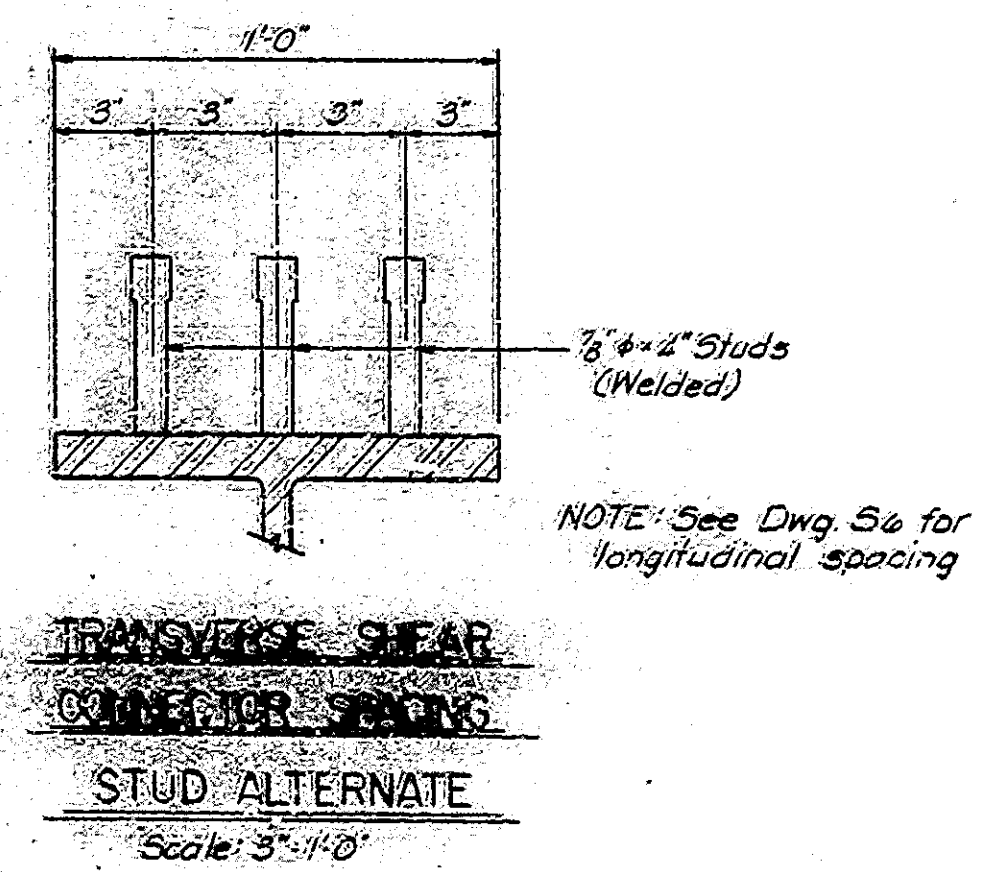
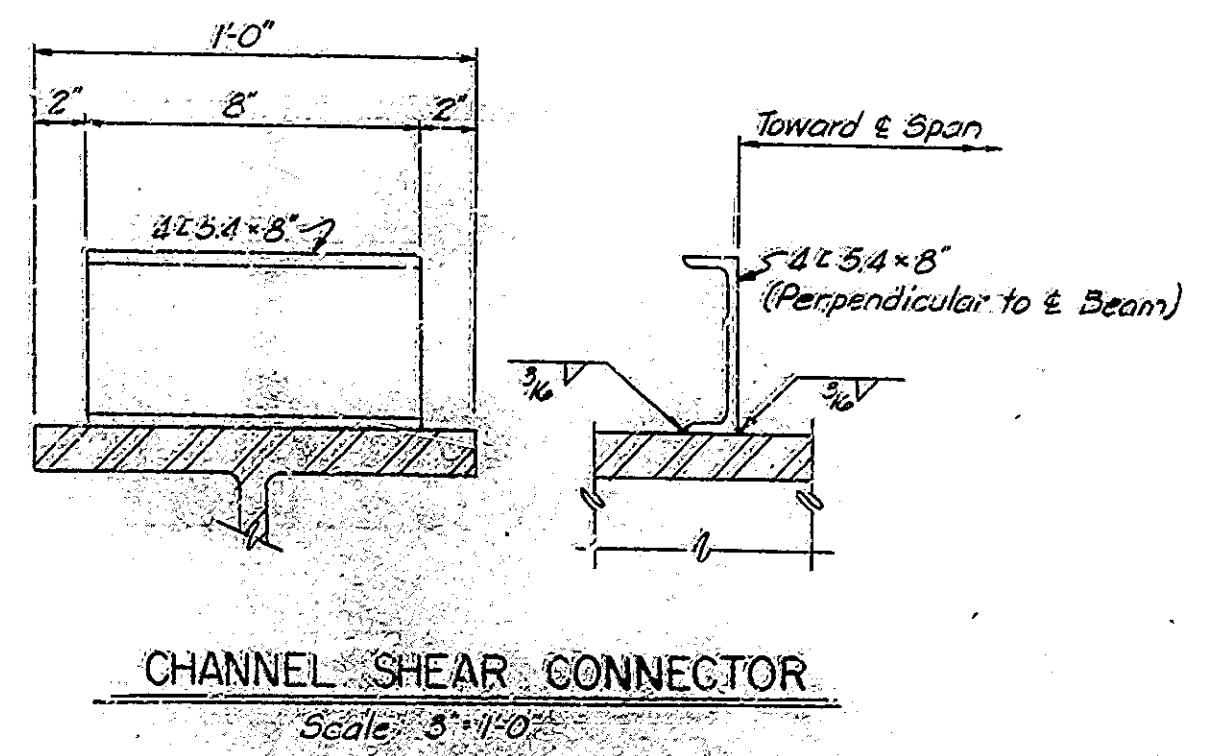
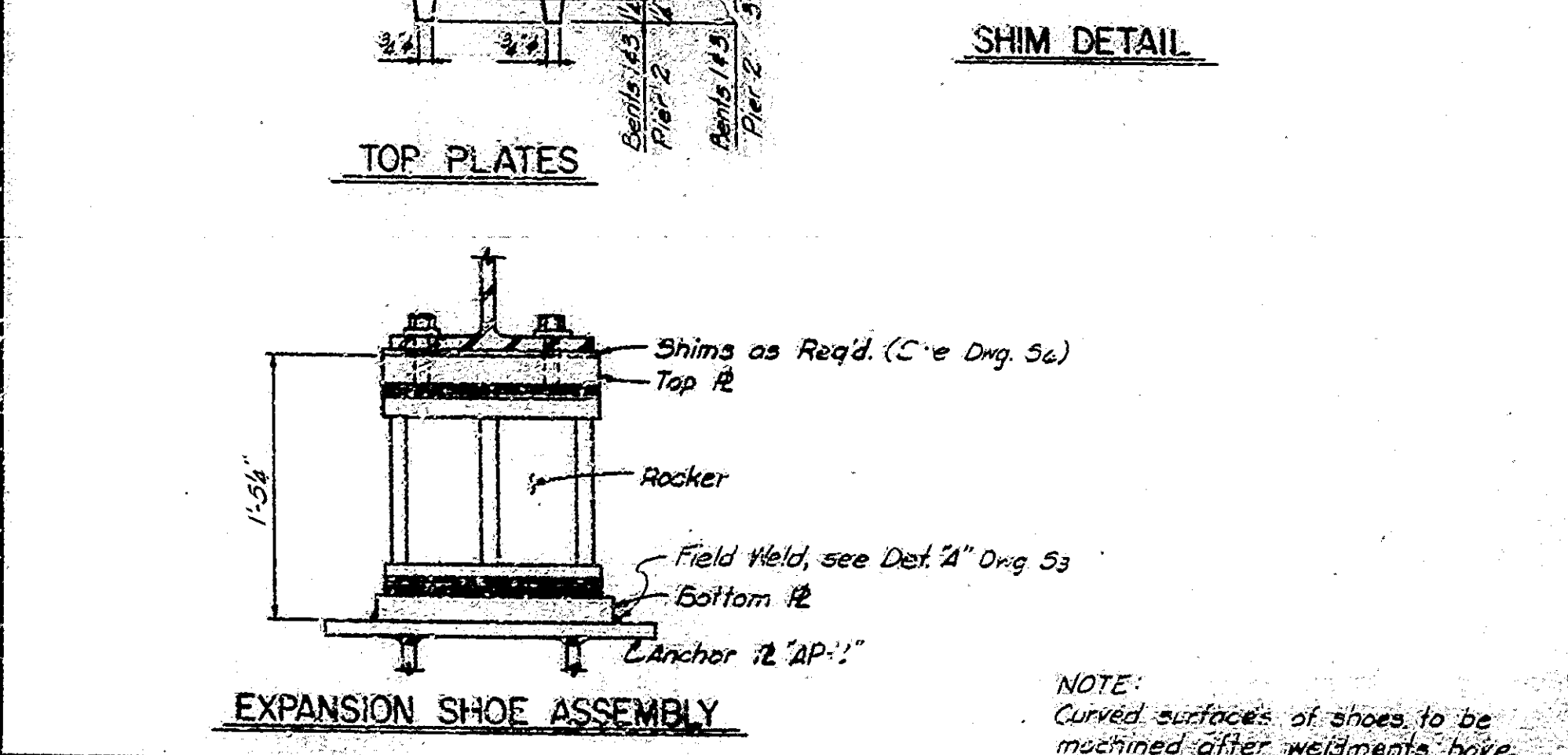
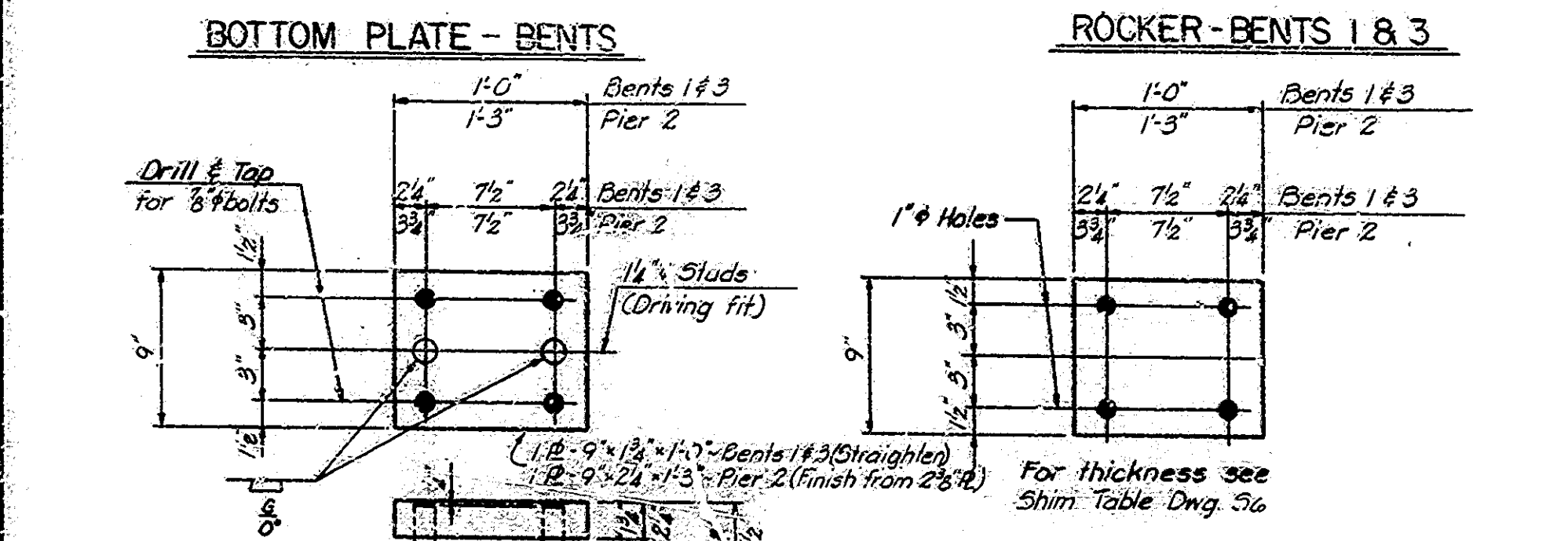
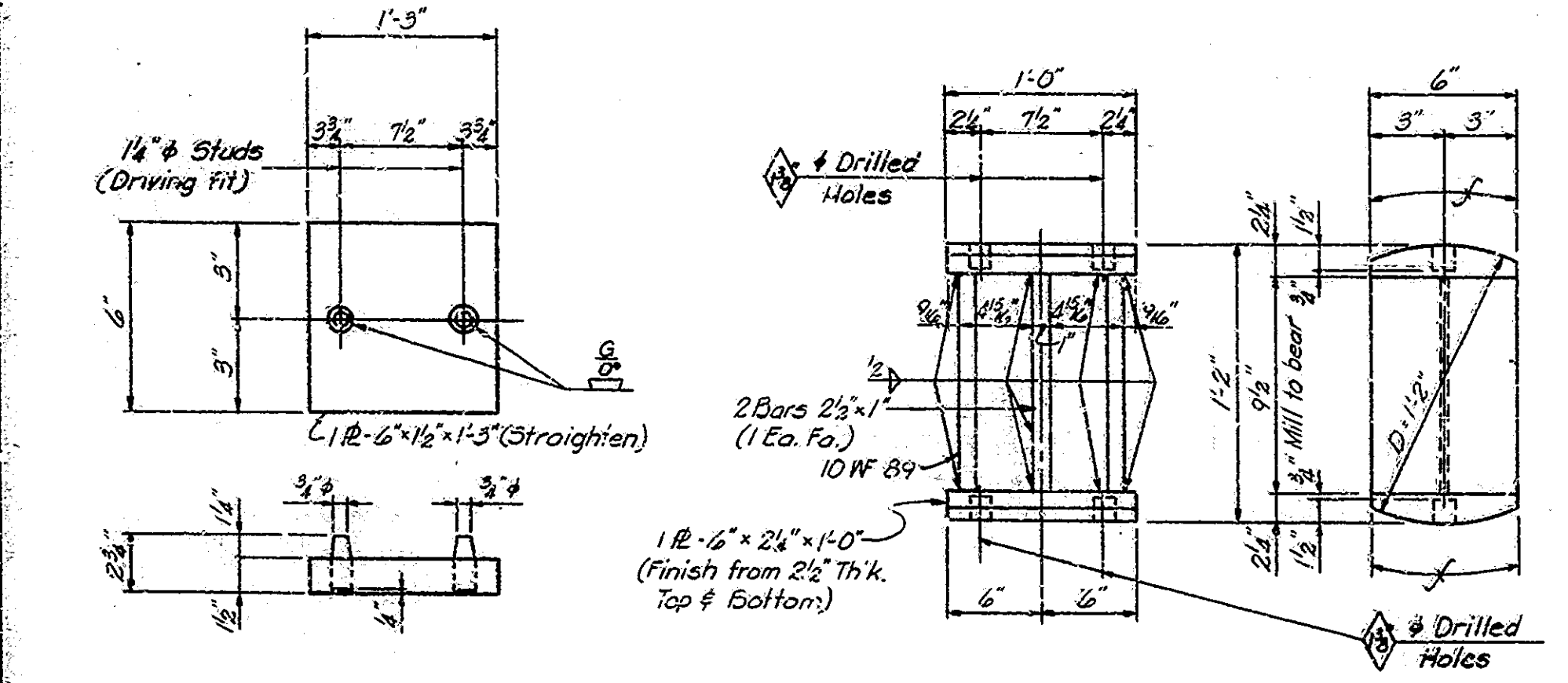
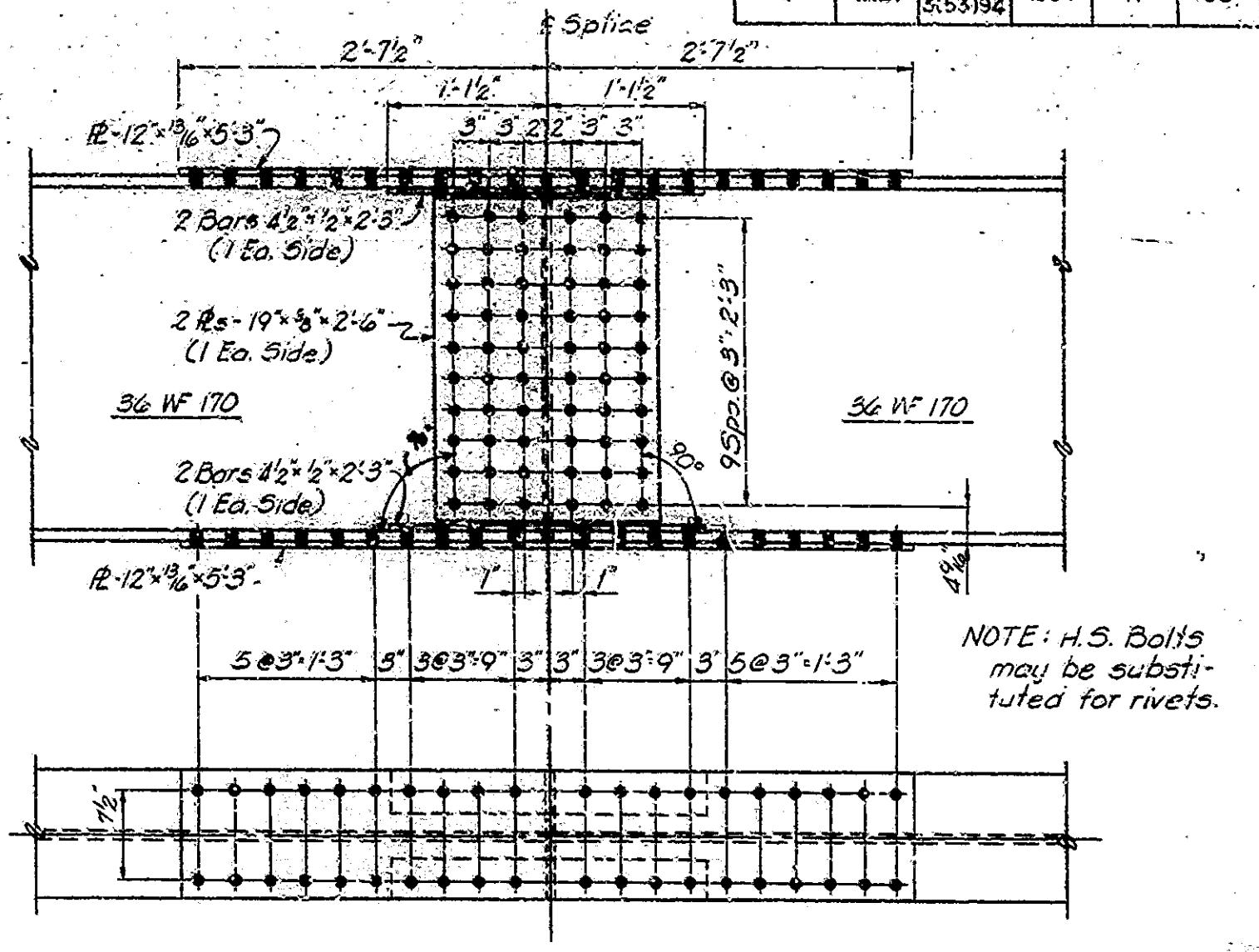
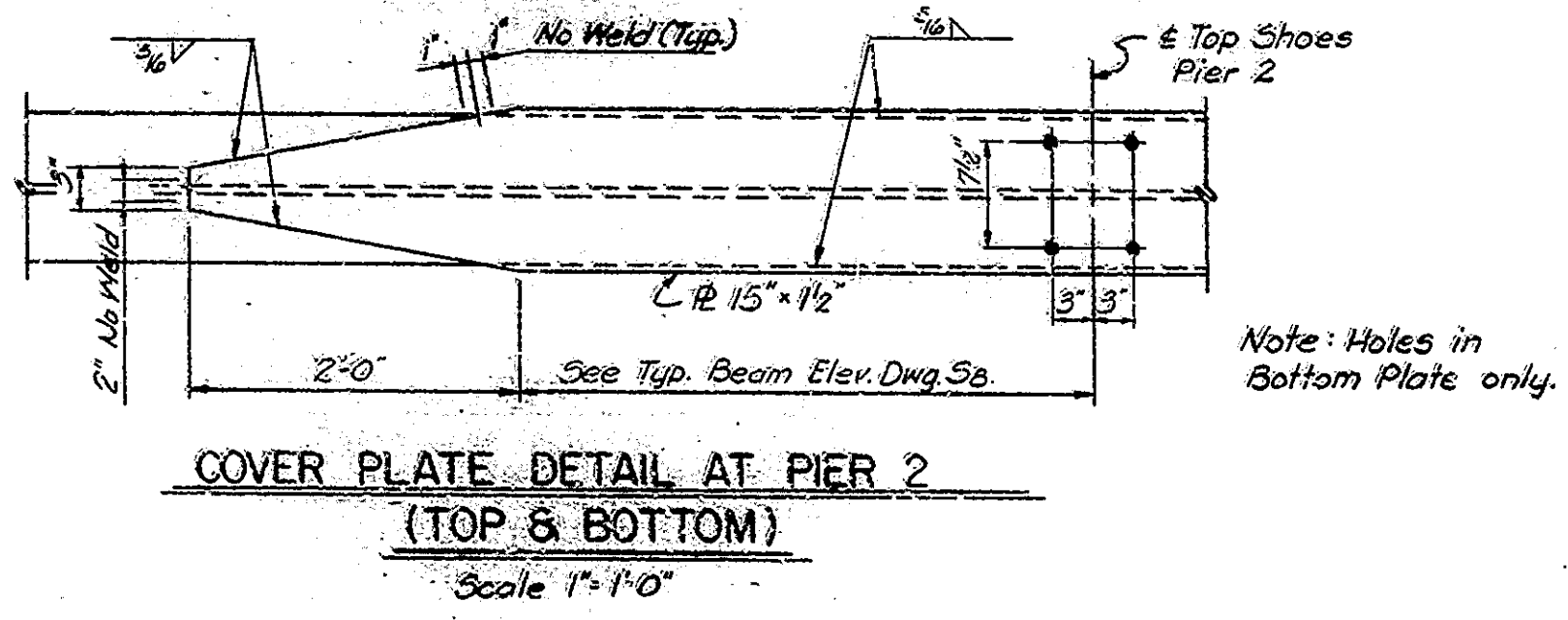
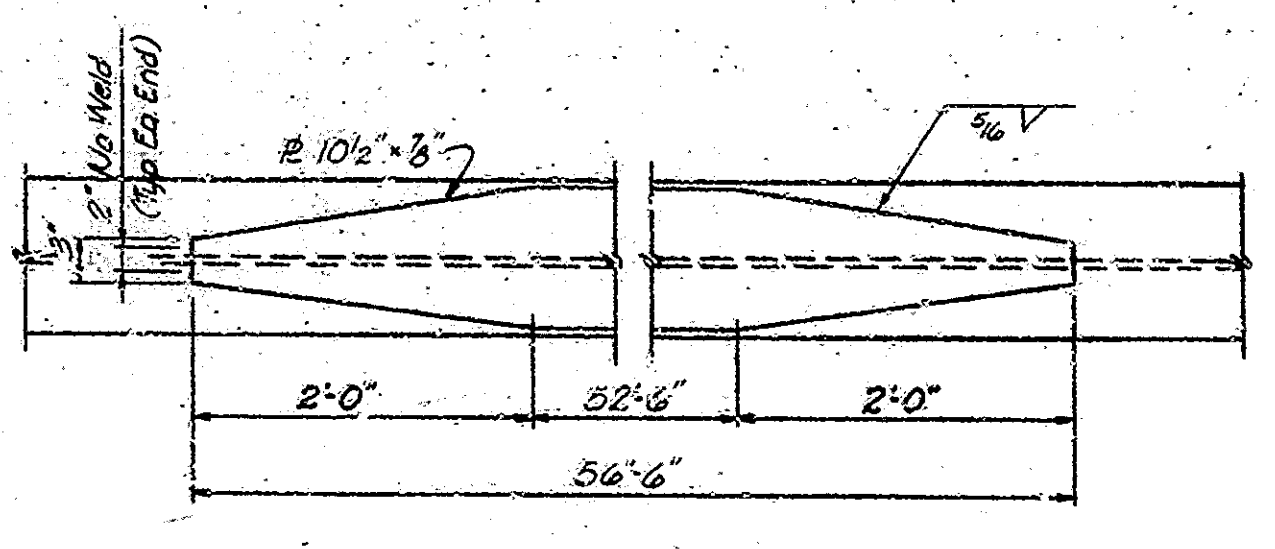
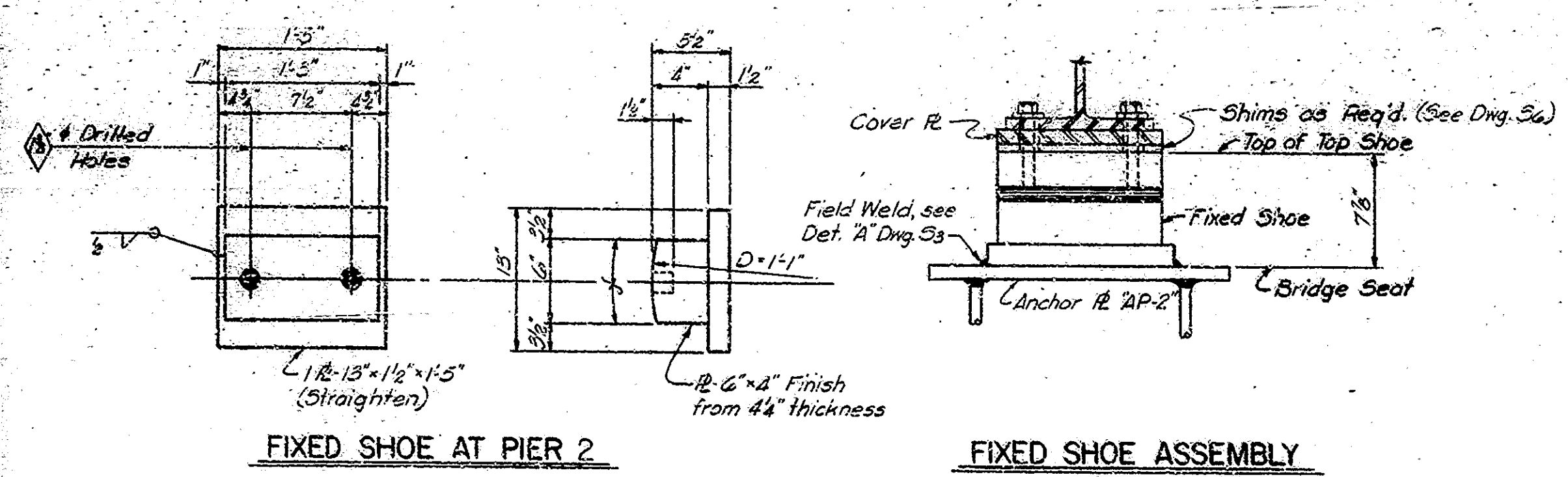
DRAWING: S<sub>6</sub> OF 10  
PROJECT: 1-10-1964  
BRIDGE CONTRACT NO. B-7263  
BRIDGE FILE: 1-10-1964



DESIGNED: CEV CKD: ALP  
DRAWN: ALP CKD: CEV  
TRACED: CKD



| BRIDGES OVER 20' SPAN |       |             |             |           |              |
|-----------------------|-------|-------------|-------------|-----------|--------------|
| PUB. ROAD DIST. NO.   | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 4                     | IND.  | 1-70-353194 | 1964        | 11        | 33           |



NO LOAD BEAM CAMBER DIAGRAM  
(Beam Webs Horizontal) Diagram shows also blocking dimensions for assembly of beams.

STEEL DETAILS  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: 1/2" = 1'-0" EXCEPT AS NOTED  
SUBMITTED FOR APPROVAL: *Donald D. Oster*  
DRAWING: S<sub>2</sub> OF 10  
PROJECT: 1-70-353194  
BRIDGE CONTRACT NO. B-7263  
BRIDGE FILE NO. 07-2888

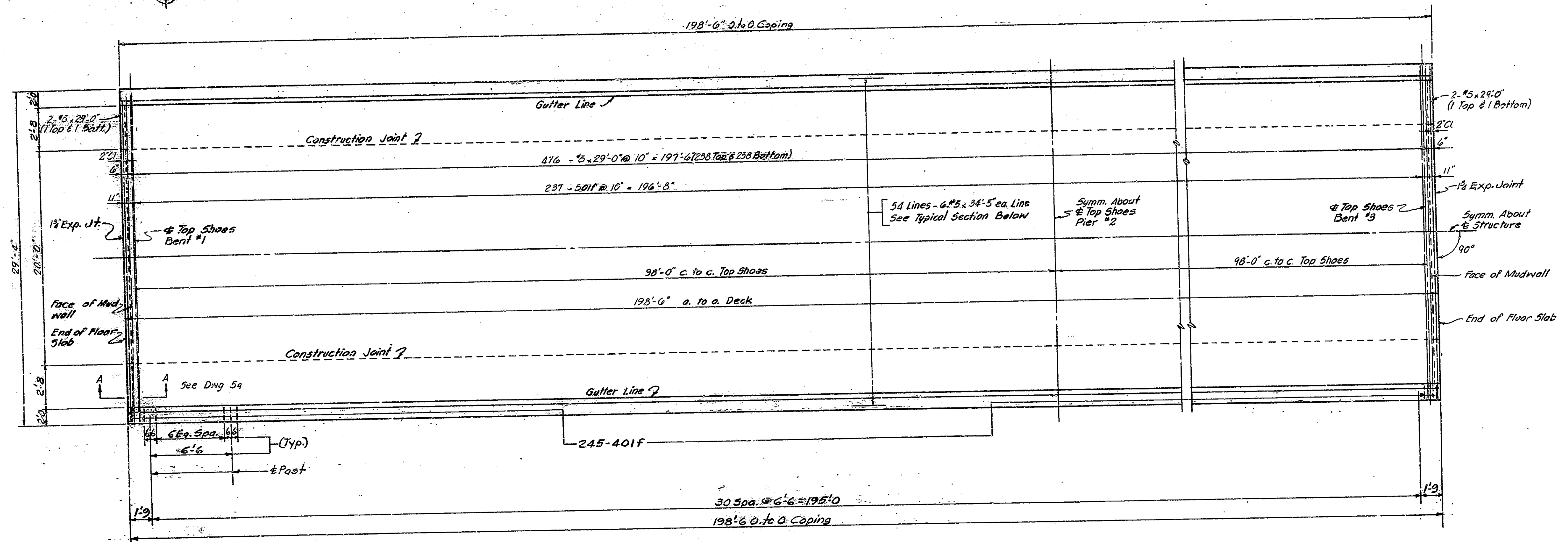
Rev. 6-9-66 Nolz, Dot

DESIGNED: CEV CKD BK  
DRAWN: DBS CKD CEV  
TRACED: CKD





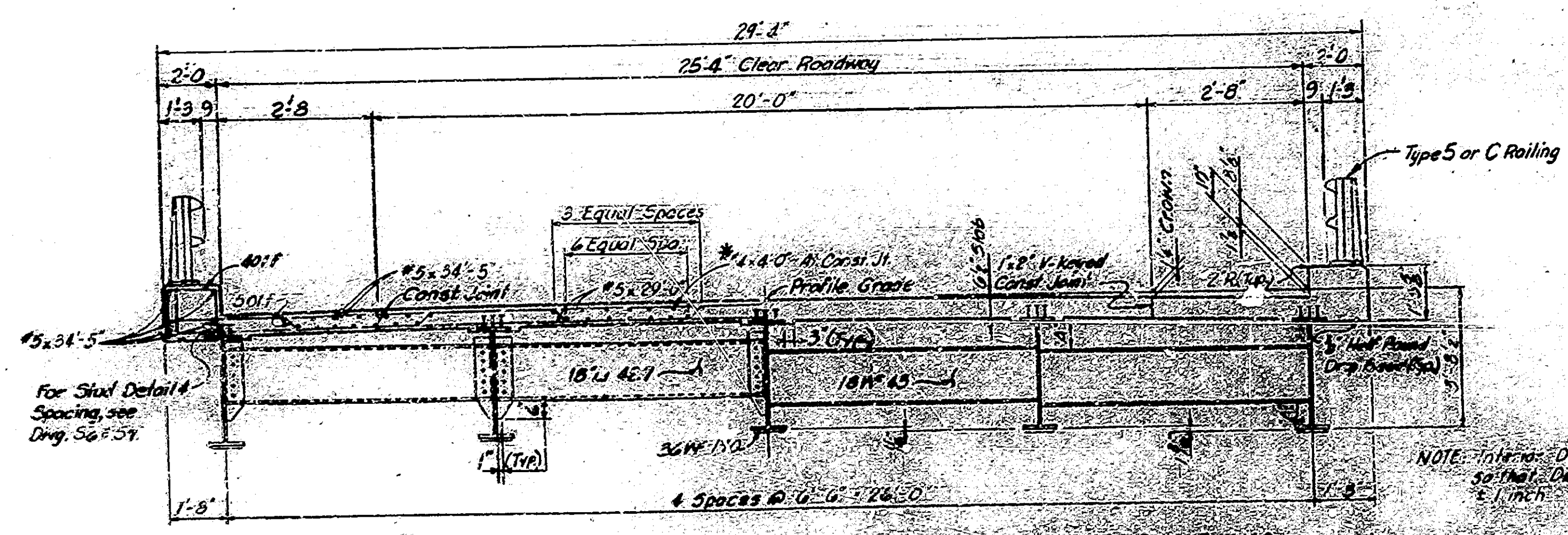
| BRIDGES OVER 20' SPAN |       |             |             |           |              |
|-----------------------|-------|-------------|-------------|-----------|--------------|
| PUB. ROAD RES. NO.    | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 4                     | IND.  | 1-70-345394 | 1964        | 12        | 33           |



PLAN  
Scale: 1/4" = 1'-0"

NOTES

For reinforcing bar notes See Bridge Std. C.  
 After structural steel has been erected, concrete forms shall not be blocked against the expansion end of the steel in making any pours adjacent to the steel span.  
 For Railing Details see Br. Std. R1-C, R1-E or R1-F.  
 Sequence of pours to be made in order of pour numbers.  
 All Superstr. construction joints are optional and pours may be continuous provided the pour terminates at a construction joint indicated on the plans.  
 See Dwg. S4 for additional details and Bill of Materials  
 See Dwg. S2 for General Notes.



TYPICAL SECTION  
Scale: 3/8" = 1'-0"

DECK PLAN  
INDIANA STATE HIGHWAY COMMISSION

SCALE: AS NOTED JULY 29, 1964

SUBMITTED FOR APPROVAL: *Donald J. Oster*

DRAWING: S<sub>6</sub> OF 10  
 PROJECT: 1-70-345394  
 BRIDGE CONTRACT NO. B-7263  
 BRIDGE FILE: 1-70-97-5388



DESIGNED: CEV CTD: AK  
 DRAWN: B.V. CTD: GEL

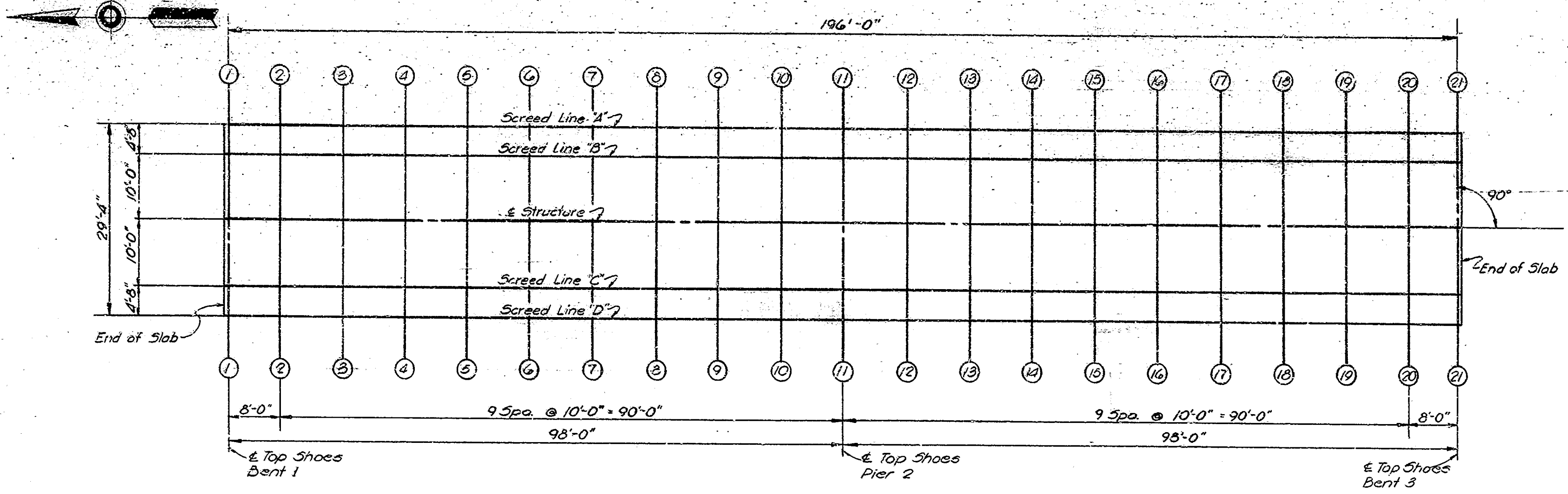
REV. 11-19-67: E. Smith, Beam, Brackets  
 Rev. C: 3/15/68: (None) Change Diaphragm, Notes







| BRIDGES OVER 20' SPAN |       |             |            |           |              |
|-----------------------|-------|-------------|------------|-----------|--------------|
| FED. ROAD DIST. NO.   | STATE | PROJECT NO. | SERIAL NO. | SHEET NO. | TOTAL SHEETS |
| 4                     | IND.  | 1-70        | 353394     | 14        | 33           |

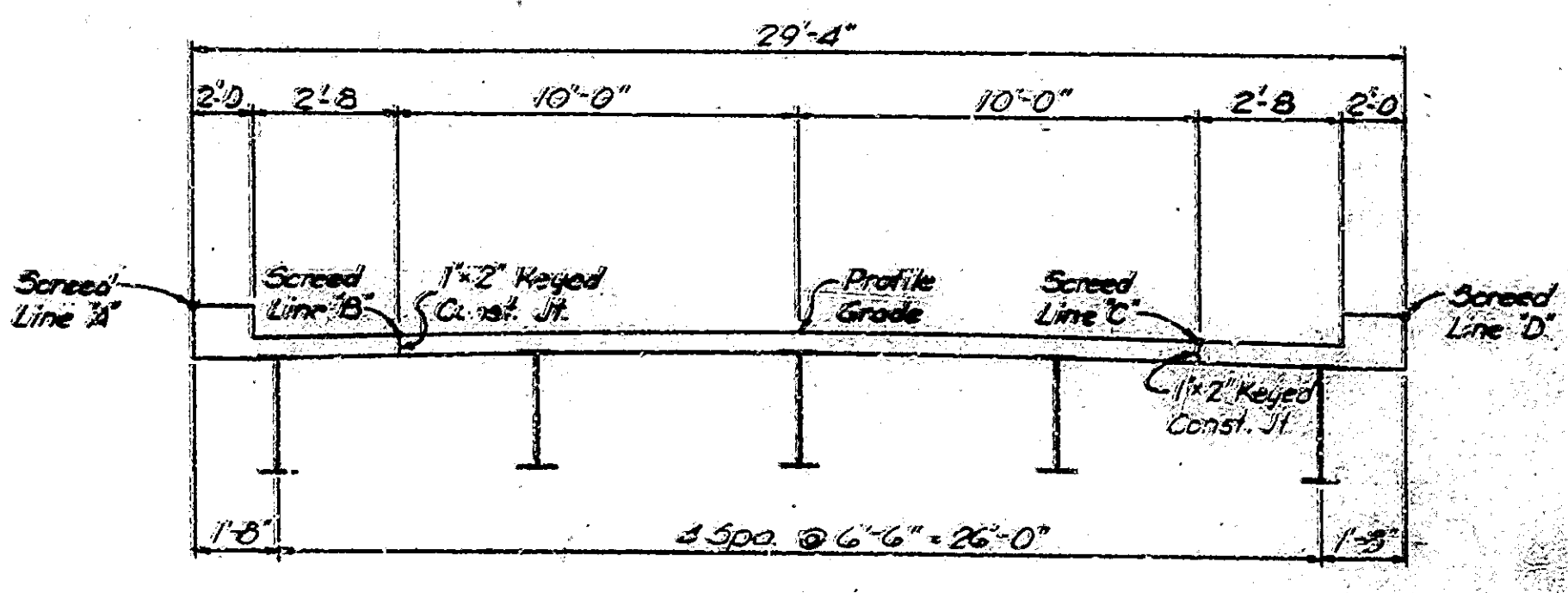
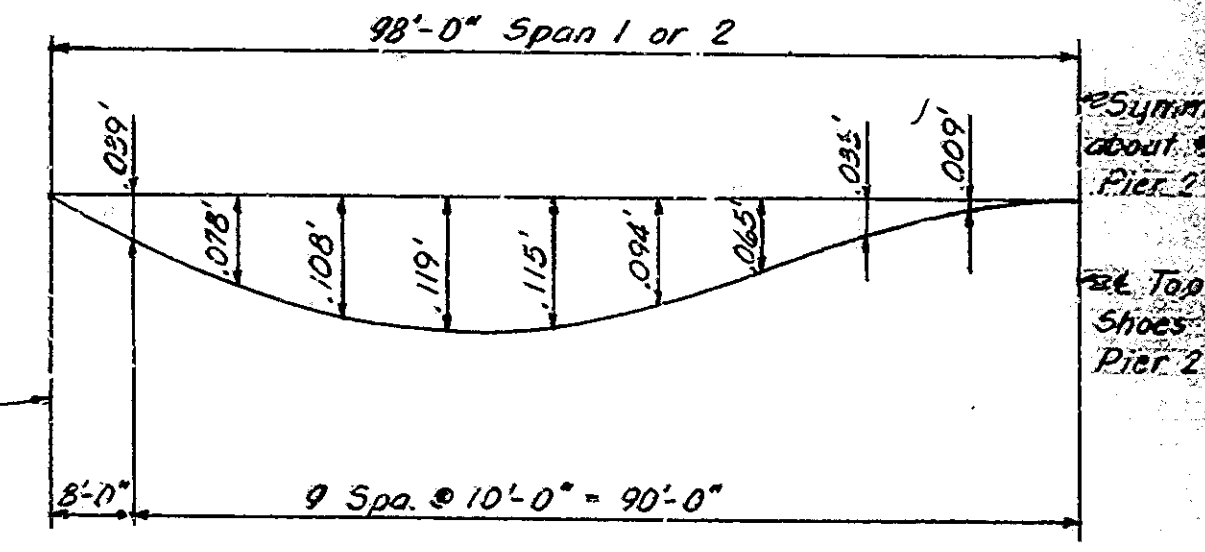


PLAN OF SCREEDS

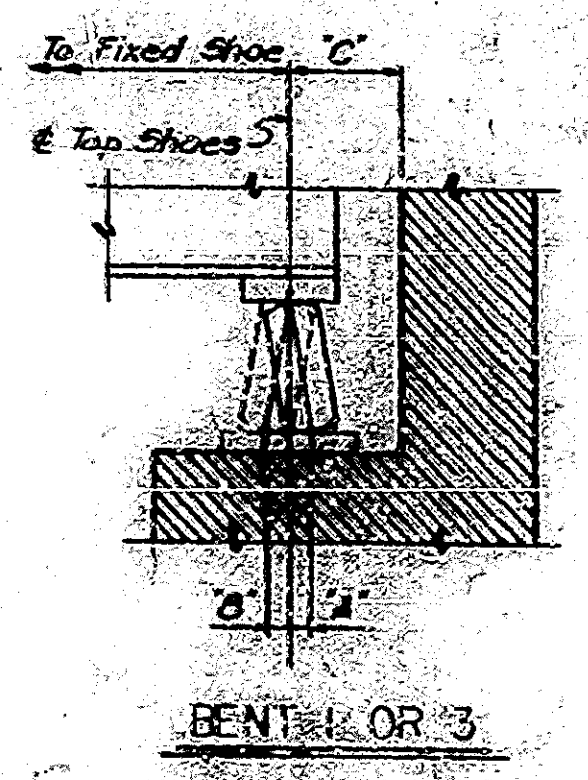
**PURPOSE**  
 Plan of Screeds shows location of Screeds. Table of Elevations shows data for setting screeds and coping forms, so that the slab and coping forms will be at final grade elevations after all the concrete has been poured. Table I shows data for setting expansion or bearing plates for expansion shoes.

- GENERAL PROCEDURE**
- After all rivets have been driven and all welding completed, adjust the superstructure longitudinally so that Dimension C at Bents 1 & 3 is equal.
  - With the superstructure in the adjusted position called for in (1) weld the Bearing Plates to the Anchor Plates of Pier 2.
  - Adjust the Expansion Plates under Expansion Shoes in accordance with Dimension A or B in Table I for the prevailing temperature. Note that Dimension A is always the distance from a vertical line through the  $\epsilon$  Top Shoe in a direction away from the Fixed Shoe. Weld the Bearing Plates to the Anchor Plates.
  - After the shoes are set, take Elevations at all Screed Points on top of Beam adjacent to or below the Screed Point. Enter these elevations in the Table of Elevations. Subtract these elevations from the tabulated elevations and use the resulting dimension as the height for setting the Screed, or Coping Form above that Point. This dimension remains constant regardless of how much or in what order the concrete is poured. Do not set Screeds or Coping Forms by leveling.
  - No Concrete in the floor is to be poured until the above operations are completed.

| TABLE OF ELEVATIONS          |  | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      |
|------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Elevation Top of Coping Form |  | 888.445 | 888.560 | 888.675 | 888.790 | 888.905 | 889.020 | 889.135 | 889.250 | 889.365 | 889.480 | 889.595 | 889.710 | 889.825 | 889.940 | 889.990 | 889.990 | 889.990 | 889.990 | 889.990 | 889.990 | 889.990 |
| A Elevation Top of Beam      |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Top Beam to Top Coping Form  |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Elevation Top of Screed      |  | 887.668 | 887.783 | 887.898 | 888.013 | 888.128 | 888.243 | 888.358 | 888.473 | 888.588 | 888.703 | 888.818 | 888.933 | 889.048 | 889.163 | 889.278 | 889.393 | 889.508 | 889.623 | 889.738 | 889.853 | 889.968 |
| B Elevation Top of Beam      |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Top Beam to Top Screed       |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Elevation Top of Screed      |  | 887.668 | 887.783 | 887.898 | 888.013 | 888.128 | 888.243 | 888.358 | 888.473 | 888.588 | 888.703 | 888.818 | 888.933 | 889.048 | 889.163 | 889.278 | 889.393 | 889.508 | 889.623 | 889.738 | 889.853 | 889.968 |
| C Elevation Top of Beam      |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Top Beam to Top Screed       |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Elevation Top of Coping Form |  | 888.445 | 888.560 | 888.675 | 888.790 | 888.905 | 889.020 | 889.135 | 889.250 | 889.365 | 889.480 | 889.595 | 889.710 | 889.825 | 889.940 | 889.990 | 889.990 | 889.990 | 889.990 | 889.990 | 889.990 | 889.990 |
| D Elevation Top of Beam      |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Top Beam to Top Coping Form  |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |



TYPICAL SECTION



SCREEDS  
 INDIANA STATE HIGHWAY COMMISSION

SCALE - NO SCALE JULY 29, 1954

SUBMITTED FOR APPROVAL *Donald A. Peterson*

DRAWING 5th OF 10  
 PROJECT - I-70  
 BRIDGE CONTRACT NO. B-7263  
 BRIDGE FILE 1-70-353394



|             |     |      |
|-------------|-----|------|
| DESIGNED BY | CED | REV. |
| DRAWN BY    | NJG | CRT  |
| CHECKED BY  | CEV |      |
| DATE        |     |      |

| TABLE I         |                 |
|-----------------|-----------------|
| Span            | Span            |
| 98'-0"          | 95'-0"          |
| 9 Spa. @ 10'-0" | 9 Spa. @ 10'-0" |



| BRIDGES OVER 20' SPAN |       |             |             |           |              |
|-----------------------|-------|-------------|-------------|-----------|--------------|
| FUR. ROAD REC. NO.    | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 4                     | IND.  | I-70-355394 | 1964        | 15        | 33           |

| ITEM                  | CONCRETE |          | RAILING CONCRETE |          | REINFORCING STEEL (1934 STD. WTS.) |           |        |          |         |         |         |         |         |         | # STRUCTURAL STEEL | CAST IRON | STEEL ENCASED PILES | ANCHOR PLATES "AP-2" | RAIL TYPE "5" or "C" | 1/2" EXP JOINT |        |
|-----------------------|----------|----------|------------------|----------|------------------------------------|-----------|--------|----------|---------|---------|---------|---------|---------|---------|--------------------|-----------|---------------------|----------------------|----------------------|----------------|--------|
|                       | CLASS F  | CLASS D  | CLASS E          | CLASS F  | *1(1/4")                           | *10(1/8") | *9(10) | *8(11/4) | *7(3/4) | *6(3/4) | *5(3/4) | *4(3/4) | *3(3/4) | *2(3/4) |                    |           |                     |                      |                      |                | TOTAL# |
|                       | CU. YDS. | CU. YDS. | CU. YDS.         | CU. YDS. | LBS.                               | LBS.      | LBS.   | LBS.     | LBS.    | LBS.    | LBS.    | LBS.    | LBS.    | LBS.    |                    |           |                     |                      |                      |                | LBS.   |
|                       | CU. YDS. | CU. YDS. | CU. YDS.         | CU. YDS. | LIN. FT.                           | LBS.      | LBS.   | LBS.     | LBS.    | LBS.    | LBS.    | LBS.    | LBS.    | LBS.    |                    |           |                     |                      |                      |                | LBS.   |
| <b>SUBSTRUCTURE</b>   |          |          |                  |          |                                    |           |        |          |         |         |         |         |         |         |                    |           |                     |                      |                      |                |        |
| BENT                  | 26.0     |          |                  | 2.4      |                                    |           |        | 1473     | 139     | 900     | 883     | 81      |         | 3476    |                    |           |                     |                      |                      |                |        |
| PIER                  | 4.9      |          | 58.0             | 28.9     |                                    |           | 2168   |          |         |         |         |         |         | 3404    |                    |           |                     |                      |                      |                |        |
| BENT                  | 26.0     |          |                  | 2.4      |                                    |           | 1473   | 139      | 900     | 883     | 81      |         | 3476    |         |                    |           |                     |                      |                      |                |        |
| <b>SUPERSTRUCTURE</b> |          |          |                  |          |                                    |           |        |          |         |         |         |         |         |         |                    |           |                     |                      |                      |                |        |
| SPANS A & B           | 146.1    |          |                  |          |                                    |           |        |          |         | 53,606  | 1344    |         |         | 34,970  | 239,856            |           |                     | 396.3                | 600                  |                |        |
| <b>SPLICE BARS</b>    |          |          |                  |          |                                    |           |        |          |         |         |         |         |         |         |                    |           |                     |                      |                      |                |        |
|                       |          |          |                  |          |                                    |           |        |          |         |         |         |         |         | 2374    |                    |           |                     |                      |                      |                |        |
|                       |          |          |                  |          |                                    |           |        |          |         |         |         |         |         | 554     | 66                 |           |                     |                      | 620                  |                |        |
| <b>TOTALS</b>         | 203.0    |          | 58.0             | 28.9     | 4.8                                |           | 2168   | 2944     |         | 3,682   | 38334   | 2232    | 162     | 50524   | 239,856            |           | 18                  | 630                  | 396.3                | 600            |        |

| BILL OF SPLICE BARS |        |        |        |        |
|---------------------|--------|--------|--------|--------|
| Size                | Number | Pieces | Length | Weight |
| 4#                  | 1      | 1      | 7'-0"  | 38     |
| 6#                  | 1      | 1      | 8'-9"  | 23     |
| 4#                  | 3      | 3      | 7'-0"  | 34     |
| 6#                  | 3      | 3      | 6'-0"  | 28     |
| 4#                  | 3      | 3      | 6'-0"  | 19     |
| 6#                  | 3      | 3      | 5'-6"  | 16     |
| TOTAL WT(LBS) 135   |        |        |        |        |

| BILL OF MATERIALS FOR BRIDGE APPROACH   |      |         |        |        |
|---|------|---------|--------|--------|
| Size  | Mark | NR Pos. | Length | Weight |
| (FOR BILL OF MATERIALS FOR WIDENED R.C. BR. APPROACH SEE BR. APPROACH DETAILS SH. 34) |      |         |        |        |

| BARRICADES, BARRIERS, TRAFFIC SIGNS, & LIGHTS |      |          |                     |   |
|---|------|----------|---------------------|---|
| ITEM  | UNIT | QUANTITY | ASSEMBLY            |   |
| WARNING SIGNS                                 | Each |          | Signs 130 R         |   |
|   |      |          | " 123 R             |   |
|   |      |          | " 124 R             |   |
|   |      |          | " 115 R             |   |
| STD. BARRICADES (TYPE A)                      | Each |          | Barricades (Type A) |   |
|   |      |          | Signs 113 R         |   |
|   |      |          | " W11 R             |   |
|   |      |          | " 117               |   |
| STD. BARRICADES (TYPE B)                      | Each |          | Lanterns            |   |
|   |      |          | Signs 113           |   |
| BRIDGE (SUITABLE) BARRIERS                    | Each | 2        | Suitable Barriers   | 2 |
|   |      |          | Lanterns or Torches | 2 |
| STD. BARRICADES (TYPE B)                      | Each | 2        | Barricades (Type B) | 2 |
|   |      |          | Signs XR-1          | 2 |
|   |      |          | Lanterns            | 4 |
|   |      |          | Signs XW-1          | 4 |
| TYPICAL SIGN STANDARDS                        | Each | 8        | " XW-2              | 4 |
|   |      |          | " 117               | 4 |
|   |      |          | Torches             | 8 |

| APPROACH STRUCTURES |                              |             |                                     |        |                                  |                   |  |   |
|---------------------|------------------------------|-------------|-------------------------------------|--------|----------------------------------|-------------------|--|---|
| STRUCT. NO.         | LOCATION                     | DESCRIPTION |                                     |        | CL. D CONC. IN STRUCTS. CU. YDS. | REINF. STEEL LBS. | CAST IRON LBS.   | REMARKS   |
|                     |                              | SIZE        | KIND                                | LENGTH |                                  |                   |  |   |
| 11                  | Sta. 38+60 to Sta. 45+40 RT. | 8"          | Drain Tile                          | 675    |                                  |                   | Connect to F.T. in place & Str. No. 16. Remove F.T. in place.          |   |
| 12                  | Sta. 42+27 Rt.               | 12"         | Group D' Pipe (C.S. Ga. 16)         | 24     | 0.58                             |                   |  |   |
| 13                  | Sta. 43+22 Lt.               | 12"         | Group D' Pipe (C.S. Ga. 16)         | 46     | 0.58                             |                   |  |   |
| 14                  | Sta. 44+00 Lt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 15   |   |
| 15                  | Sta. 44+00 Rt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | (Ga. 16 F.B.C.C.S. w/PI.) (2) 22" Bends Req'd. & Hdwl. Req'd. @ Outlet |   |
| 16                  | Sta. 45+40                   | 8"          | F.B.C.C.S. W/PI. Pipe (16 Ga.)      | 24     | 0.64                             |                   | Connect to Str. No. 14   |   |
| 17                  | Sta. 46+00 Rt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 33   |   |
| 18                  | Sta. 46+00 Lt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 18   |   |
| 19                  | Sta. 48+00 Lt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | (Ga. 16 F.B.C.C.S. w/PI.) (2) 22" Bends Req'd. & Hdwl. Req'd. @ Outlet |   |
| 20                  | Sta. 48+00 Rt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 17   |   |
| 21                  | Sta. 49+10                   | 36"         | Group A' Pipe                       | 120    | 8.12                             |                   | Connect to Str. No. 20   |   |
| 24                  | Sta. 50+90                   | 15"         | Group A' Pipe                       | 130    | 1.71                             |                   | (Ga. 16 F.B.C.C.S. w/PI.)  |   |
| 25                  | Sta. 51+85                   | 10"         | Group L' Pipe                       | 210    |                                  |                   | To Replace 3' F.T. in place. Remove F.T. in place                      |   |
| 26                  | Sta. 51+90 Lt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 27   |   |
| 27                  | Sta. 52+50 Rt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | (Ga. 16 F.B.C.C.S. w/PI.) (2) 22" Bends Req'd. & Hdwl. Req'd. @ Outlet |   |
| 28                  | Sta. 54+90 Lt.               | 12"         | F.B.C.C.S. W/PI. Pipe (16 Ga.)      | 54     | 0.64                             |                   | Connect to Str. No. 26   |   |
| 29                  | Sta. 54+90 Rt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 29   |   |
| 30                  | Sta. 55+00                   | 12"         | F.B.C.C.S. W/PI. Pipe (16 Ga.)      | 36     | 0.64                             |                   | (Ga. 16 F.B.C.C.S. w/PI.) (2) 22" Bends Req'd. & Hdwl. Req'd. @ Outlet |   |
| 31                  | Sta. 57+00 Rt.               | 24"         | Group A' Pipe                       | 90     | 3.75                             |                   | Connect to Str. No. 28   |   |
| 32                  | Sta. 57+00 Lt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | (Ga. 16 F.B.C.C.S. w/PI.)  |   |
| 33                  | Sta. 57+00 Lt.               | 12"         | Std. Inlet Type D-6 & Group A' Pipe | 22     |                                  |                   | Connect to Str. No. 32   |   |
| 35                  | Sta. 42+53 to Sta. 59+40 Lt. | 8"          | Drain Tile                          | 1404   |                                  |                   | (Ga. 16 F.B.C.C.S. w/PI.) (2) 22" Bends Req'd. & Hdwl. Req'd. @ Outlet |   |
| 34                  | Sta. 59+10                   | 8"          | Group L' Pipe                       | 200    |                                  |                   | Connect to Str. No. 16 & No. 34  |   |
| 35                  | Sta. 59+15                   | 15"         | Group L' Pipe                       | 90     |                                  |                   | To Replace 15' F.T. in place. Remove F.T. in place                     |   |
|                     |                              |             |                                     | 40     | 4.12                             |                   | Connect to Str. No. 35   |   |
|                     |                              |             |                                     | 64     |                                  |                   | (Ga. 16 F.B.C.C.S. Pipe Arch) Req'd.                                   |   |
| <b>TOTALS</b>       |                              |             |                                     |        | 22.70                            |                   |  | Total of Reinf. Steel carried to Structure Quantities |

| SUMMARY (Cont.) |                                      |          |          |  |
|-----------------|--------------------------------------|----------|----------|--|
| ITEM            | DESCRIPTION                          | UNIT     | QUANTITY |  |
| 62              | Furn. & Place Agricultural Limestone | Tons     | 8        |  |
| 63              | Furnishing & Placing Fertilizer      | Tons     | 1        |  |
| 64              | Furnishing & Placing Seed            | Lbs.     | 287      |  |
| 65              | Furn. & Apply Mulching Material      | Tons     | 10       |  |
| 66              | Agricultural Rye                     | Lbs.     | 131      |  |
| 67              | Type "B" Monuments                   | Each     | 2        |  |
| 68              | Do Not Pass Signs R-1/A              | Each     | 2        |  |
| 69              | Pass With Care Signs R-12A           | Each     | 2        |  |
| 70              | 18" Pipe (Group D' C.S. Ga. 16)      | Lin. Ft. | 70       |  |
| 71              | 12" Pipe (Group L')                  | Lin. Ft. | 21       |  |
| 72              | 12" Pipe (Group L')                  | Lin. Ft. | 210      |  |
| 73              | 12" Pipe (Group L')                  | Lin. Ft. | 210      |  |

| SUMMARY |  |          |          |  |
|---------|--|----------|----------|--|
| ITEM    | DESCRIPTION                                      | UNIT     | QUANTITY |  |
| 1       | Class F Concrete                                 | Cu. Yds. | 203.0    |  |
| 2       | Class D Concrete                                 | Cu. Yds. | 58.0     |  |
| 3       | Class E Concrete above Footings                  | Cu. Yds. | 28.9     |  |
| 4       | Class E Concrete in Footings                     | Cu. Yds. | 28.9     |  |
| 5       | Railing Concrete                                 | Lin. Ft. |          |  |
| 6       | Reinforcing Steel                                | Lbs.     | 50,524   |  |
| 7       | Structural Steel                                 | Lump Sum | 1        |  |
| 8       | Cast Iron  | Lbs.     |          |  |
| 9       | Untreated Timber Piles Furnished                 | Lin. Ft. |          |  |
| 10      | Untreated Timber Piles Driven                    | Lin. Ft. |          |  |
| 11      | Furnishing Equipment for Driving Piles           | Lump Sum | 1        |  |
| 12      | Wet Excavation                                   | Cu. Yds. |          |  |
| 13      | Waterway Excavation                              | Cu. Yds. |          |  |
| 14      | Common Excavation                                | Cu. Yds. | 816      |  |
| 15      | Special Borrow                                   | Cu. Yds. | 76,118   |  |
| 16      | Grade B Special Borrow                           | Cu. Yds. | 510      |  |
| 17      | Sodding  | Sq. Yds. | 5924     |  |
| 18      | Mulched Seeding                                  | Sq. Yds. |          |  |
| 19      | Cement Concrete Pavement                         | Sq. Yds. |          |  |
| 20      | Reinforced Cement Concrete Pavement (9")         | Sq. Yds. | 124.2    |  |
| 21      | Thickened Reinf. Cement Concrete Pavement        | Sq. Yds. |          |  |
| 22      | Type P Compacted Aggregate Base                  | Tons     | 1978     |  |
| 23      | Removal Present Structure                        | Lump Sum |          |  |
| 24      | Temporary Bridge and Approaches                  | Lump Sum |          |  |
| 25      | Warning Signs                                    | Each     |          |  |
| 26      | Std. Barricades (Type B)                         | Each     | 2        |  |
| 27      | Class D Concrete in Structures                   | Cu. Yds. | 22.7     |  |
| 28      | R/W Markers                                      | Each     | 16       |  |
| 29      | Steel Pile She (Is Furn. & Driven)               | Lin. Ft. | 630      |  |
| 30      |  |          |          |  |
| 31      | Railing Concrete                                 | Cu. Yds. | 4.8      |  |
| 32      | Railing Type 5 or C                              | Lin. Ft. | 397.0    |  |
| 33      | Anchor Plates "AP-2"                             | Each     | 15       |  |
| 34      | Foundation Excavation Unclassified               | Cu. Yds. | 190      |  |
| 35      |  | Tons     |          |  |
| 36      | Bituminous Surface                               | Tons     | 187      |  |
| 37      | Bituminous Base                                  | Tons     | 509      |  |
| 38      |  |          |          |  |
| 39      | Bituminous Material Applied for Prime            | Tons     | 6        |  |
| 40      | Bituminous Material Applied (Tack Coat)          | Tons     | 1        |  |
| 41      |  |          |          |  |
| 42      |  | Lin. Ft. | 50.0     |  |
| 43      | Typical Sign Standards                           | Each     | 8        |  |
| 44      | Guard Rail Type "As"                             | Lin. Ft. | 227.0    |  |
| 45      | Sloped Wall                                      | Sq. Yds. | 405      |  |
| 46      | Special Integral Concrete Curb                   | Lin. Ft. | 64       |  |
| 47      | Standard Lip Gutter                              | Lin. Ft. | 2,448    |  |
| 48      | Paved Side Ditches Type A                        | Lin. Ft. | 65       |  |
| 49      | 12" Pipe (Group A' F.B.C.C.S. w/PI. Ga. 16)      | Lin. Ft. | 132      |  |
| 50      | 12" Pipe (F.B.C.C.S. w/PI. Ga. 16)               | Lin. Ft. | 242      |  |
| 51      | 15" Pipe (Group A' F.B.C.C.S. w/PI. Ga. 16)      | Lin. Ft. | 130      |  |
| 52      | 24" Pipe (Group A' F.B.C.C.S. w/PI. Ga. 16)      | Lin. Ft. | 90       |  |
| 53      | 36" Pipe (Group A' F.B.C.C.S. w/PI. Ga. 16)      | Lin. Ft. | 120      |  |
| 54      | Pipe (Group G' F.B.C.C.S. A. Ga. 16 Min. Ar. 6") | Lin. Ft. | 40       |  |
| 55      | 6" Pipe (F.B.C.C.S. 18 Ga.)                      | Lin. Ft. | 104      |  |
| 56      | 15" Pipe (Group L')                              | Lin. Ft. | 90       |  |
| 57      | 8" Pipe (Group L')                               | Lin. Ft. | 416      |  |
| 58      | 8" Drain Tile                                    | Lin. Ft. | 2079     |  |
| 59      | Standard Inlet Type (Type D-6)                   | Each     | 12       |  |
| 60      | Expansion Jt.                                    | Lin. Ft. | 600      |  |
| 61      | Expansion Jt.                                    | Lin. Ft. | 620      |  |

**SUMMARY**  
**INDIANA STATE HIGHWAY COMMISSION**

JULY 29, 1964

SUBMITTED FOR APPROVAL: *Richard C. Oster*

PROJECT: I-70-355394

BRIDGE CONTRACT NO. B-7263

BRIDGE FILE: I-70-97-5388



Revised: 1-19-67 Items 60, 61, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561,