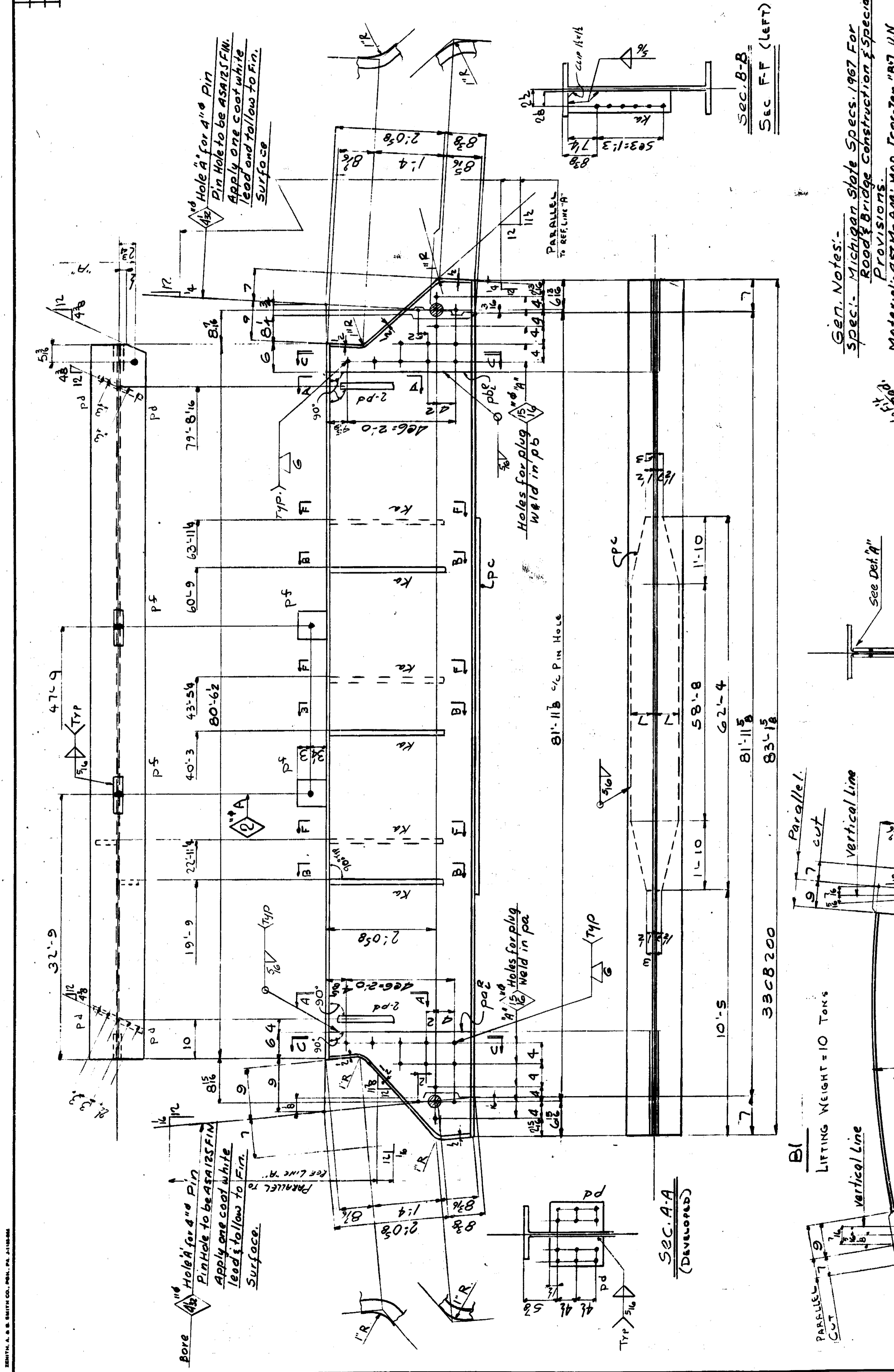


LINE NO.	ITEM	QUANTITY	UNIT	REMARKS	APPROVED BY	DATE
1	BEAM	83	FT			
2	1 CB 33 000	83	LB			
3	1 PL 14 1/2	62	LB			
4	4 FT 62	110	LB			
5	6 FT 34	110	LB			
6	2 PL 10 5/8	268	LB			
7	2 PL 10 5/8	268	LB			
8	2 FT 64	18	LB			



Gen. Notes:-
 Spec.:- Michigan State Specs. 1967 For Road & Bridge Construction & Special Provisions.
 Material:- ASTM-A441 Mod. (Cor-Ten '87) U.N.
 Open Holes:- 1/2" U.N.
 Welding:- AWS Special Provisions-Use E70XX U.N. Electrode on Fillet or F-XXXXX FOR VEE JOINT COMBINATION.
 Paint:- NO

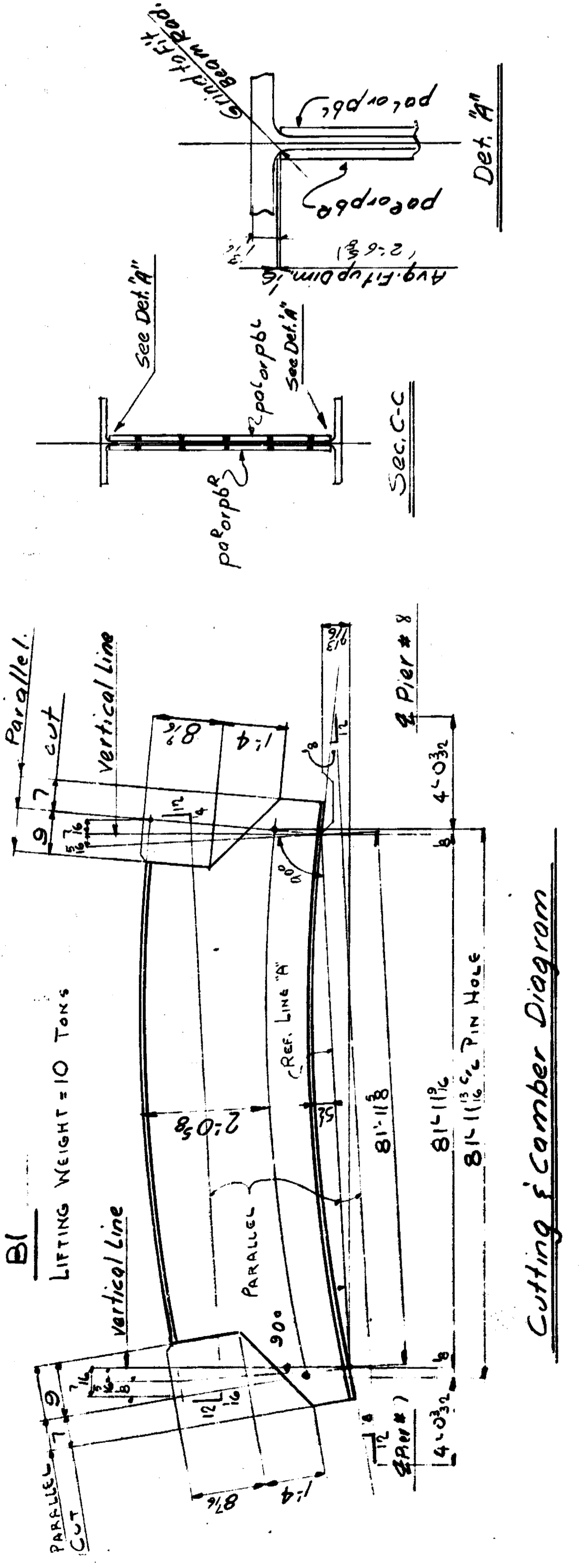
Comber to be measured with the beam lying on its side. Allowable Comber Tolerance is 1/4". Heat is to be used if necessary to assure camber permanency.

Open Holes are for High Strength Structural Bolts U.N. 1/2"

All steel shall be heated carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, crayon marks, dirt, etc.

All shipping marks shall be made using a steel stamp.

The rounding of corners will not be required.



Cutting & Comber Diagram

MICHIGAN DEPT. OF STATE-HIGHWAY
 BRIDGE NO. 4027
 ENGINEER ROAD OVER 1 MI.
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

K-2828

Beam @ Span # 8
 Line F

American Bridge
 Division of
 United States Steel

Fabrication assigned to
 Gary # 2

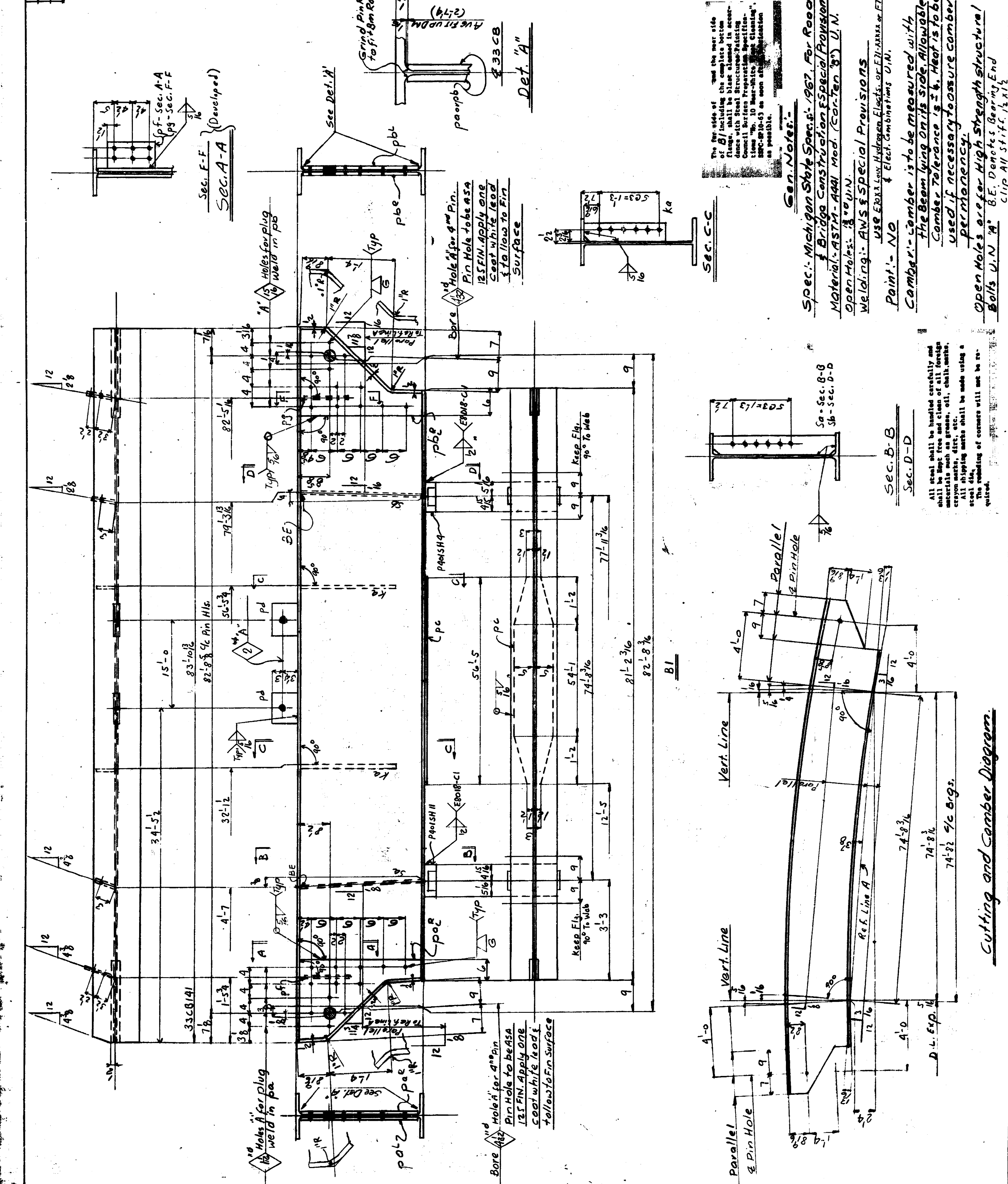
Original made by
 Gary # 2

Checked by
 Gary # 2

Drawn by
 Gary # 2

Scale
 1" = 10'

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	REMARKS
1	1	CEMENT	33 CB	
2	1	CEMENT	33 CB	
3	1	CEMENT	33 CB	
4	1	CEMENT	33 CB	
5	1	CEMENT	33 CB	
6	1	CEMENT	33 CB	
7	1	CEMENT	33 CB	
8	1	CEMENT	33 CB	
9	1	CEMENT	33 CB	
10	1	CEMENT	33 CB	
11	1	CEMENT	33 CB	
12	1	CEMENT	33 CB	
13	1	CEMENT	33 CB	
14	1	CEMENT	33 CB	
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16	1	CEMENT	33 CB	
17	1	CEMENT	33 CB	
18	1	CEMENT	33 CB	
19	1	CEMENT	33 CB	
20	1	CEMENT	33 CB	
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23	1	CEMENT	33 CB	
24	1	CEMENT	33 CB	
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26	1	CEMENT	33 CB	
27	1	CEMENT	33 CB	
28	1	CEMENT	33 CB	
29	1	CEMENT	33 CB	
30	1	CEMENT	33 CB	
31	1	CEMENT	33 CB	
32	1	CEMENT	33 CB	
33	1	CEMENT	33 CB	
34	1	CEMENT	33 CB	
35	1	CEMENT	33 CB	
36	1	CEMENT	33 CB	
37	1	CEMENT	33 CB	
38	1	CEMENT	33 CB	
39	1	CEMENT	33 CB	
40	1	CEMENT	33 CB	
41	1	CEMENT	33 CB	
42	1	CEMENT	33 CB	
43	1	CEMENT	33 CB	
44	1	CEMENT	33 CB	
45	1	CEMENT	33 CB	
46	1	CEMENT	33 CB	
47	1	CEMENT	33 CB	
48	1	CEMENT	33 CB	
49	1	CEMENT	33 CB	
50	1	CEMENT	33 CB	



ITEM NO.	QUANTITY	DESCRIPTION	UNIT	REMARKS
1	1	CEMENT	33 CB	
2	1	CEMENT	33 CB	
3	1	CEMENT	33 CB	
4	1	CEMENT	33 CB	
5	1	CEMENT	33 CB	
6	1	CEMENT	33 CB	
7	1	CEMENT	33 CB	
8	1	CEMENT	33 CB	
9	1	CEMENT	33 CB	
10	1	CEMENT	33 CB	
11	1	CEMENT	33 CB	
12	1	CEMENT	33 CB	
13	1	CEMENT	33 CB	
14	1	CEMENT	33 CB	
15	1	CEMENT	33 CB	
16	1	CEMENT	33 CB	
17	1	CEMENT	33 CB	
18	1	CEMENT	33 CB	
19	1	CEMENT	33 CB	
20	1	CEMENT	33 CB	
21	1	CEMENT	33 CB	
22	1	CEMENT	33 CB	
23	1	CEMENT	33 CB	
24	1	CEMENT	33 CB	
25	1	CEMENT	33 CB	
26	1	CEMENT	33 CB	
27	1	CEMENT	33 CB	
28	1	CEMENT	33 CB	
29	1	CEMENT	33 CB	
30	1	CEMENT	33 CB	
31	1	CEMENT	33 CB	
32	1	CEMENT	33 CB	
33	1	CEMENT	33 CB	
34	1	CEMENT	33 CB	
35	1	CEMENT	33 CB	
36	1	CEMENT	33 CB	
37	1	CEMENT	33 CB	
38	1	CEMENT	33 CB	
39	1	CEMENT	33 CB	
40	1	CEMENT	33 CB	
41	1	CEMENT	33 CB	
42	1	CEMENT	33 CB	
43	1	CEMENT	33 CB	
44	1	CEMENT	33 CB	
45	1	CEMENT	33 CB	
46	1	CEMENT	33 CB	
47	1	CEMENT	33 CB	
48	1	CEMENT	33 CB	
49	1	CEMENT	33 CB	
50	1	CEMENT	33 CB	

MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. OF 21228
 EVERGREEN ROAD, OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Beam 1 e span 9
 American Bridge
 Division of
 United States Steel

Designed by Gary E
 Drawn by Gary E
 Check by W.P. and J.S. on 11/2/42
 in accordance with August 2, 1937

PROJECT NO. K 2828
 SHEET NO. 509

Section A-A
 (Developed)

Section C-C

Section B-B
 Sec. D-D

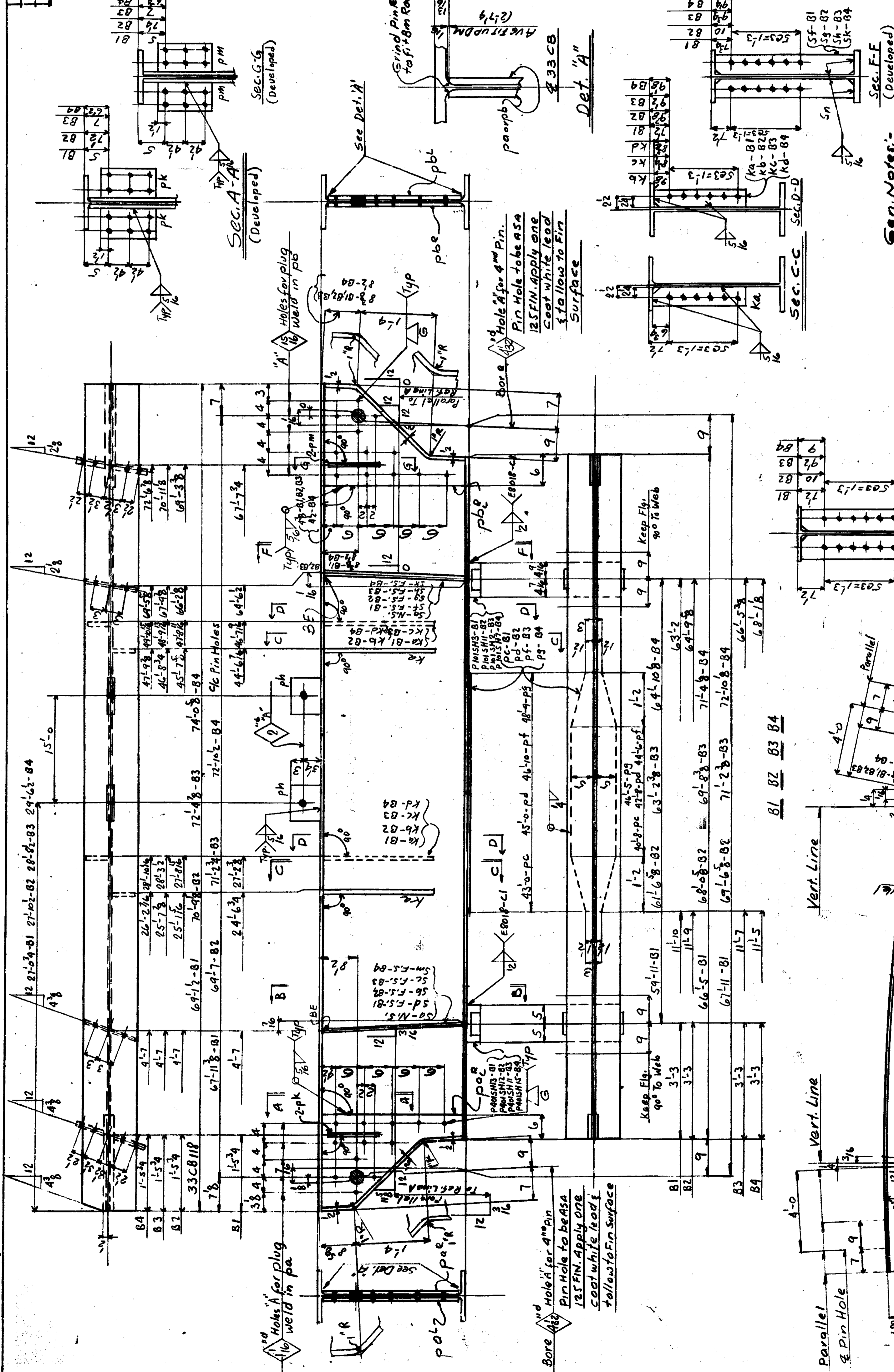
Section E-E
 Sec. F-F

Cutting and Camber Diagram

Vert. Line
 Parallel to Pin Hole

Parallel to Pin Hole

LINE NO.	SECTION	DESCRIPTION	QUANTITY	UNIT	MARKING	REMARKS
1	BEAM	510B1	691			
2	BEAM	510B2	71			
3	BEAM	510B3	72			
4	BEAM	510B4	74			
5						
6						
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100						



MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. OF 2122K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES TRENCH)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Beams & Span #9
 American Bridge
 Division of
 United States Steel

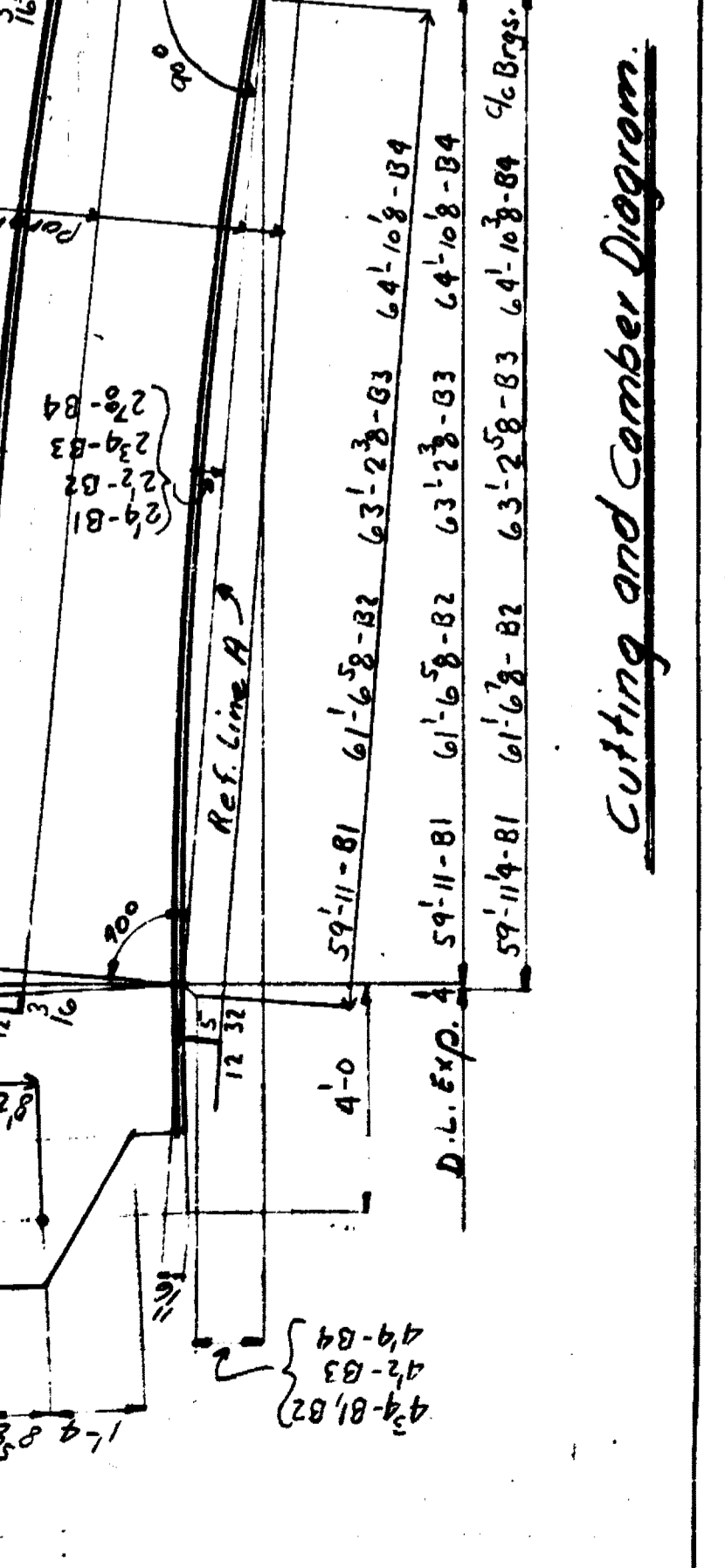
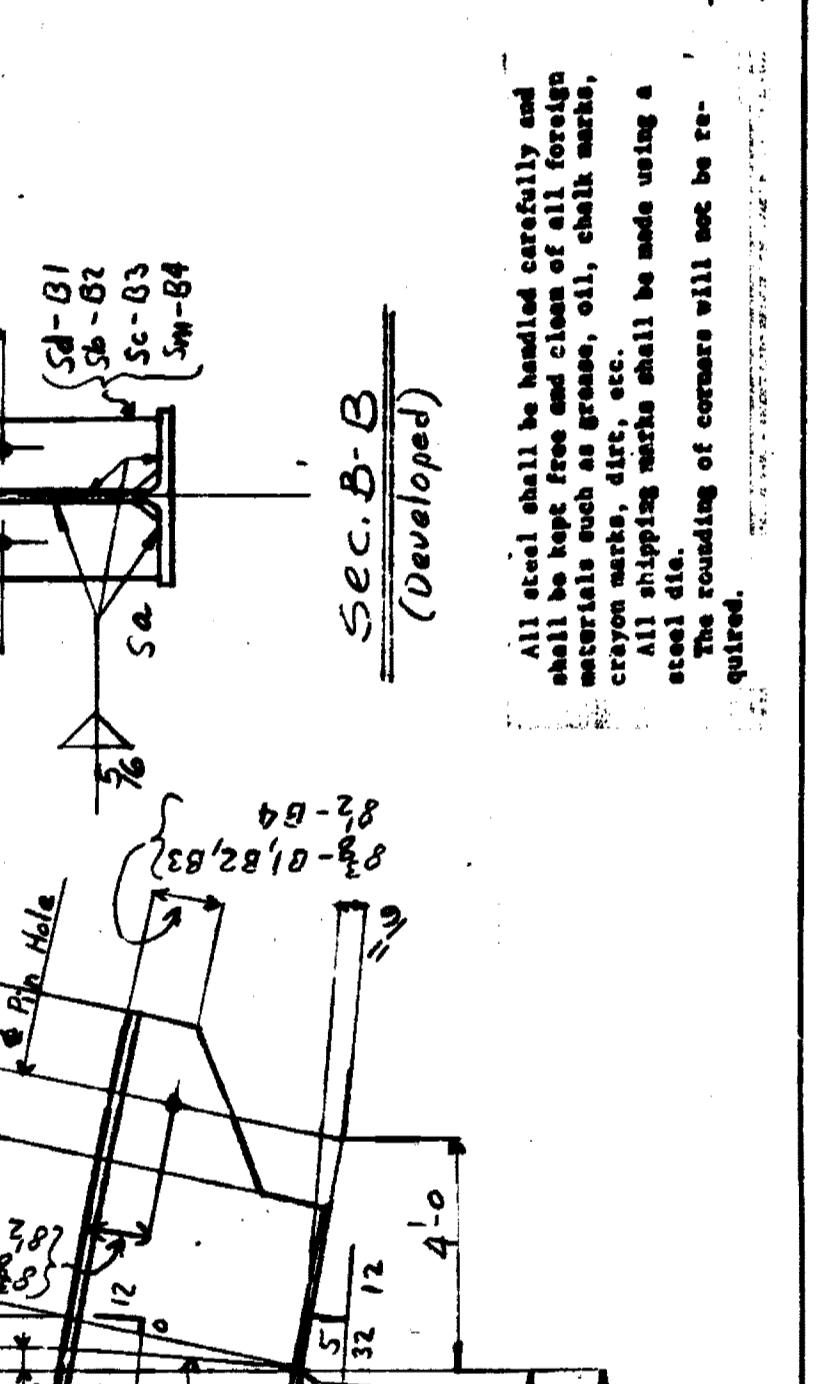
DRAWN BY: Gary E
 CHECKED BY: Gary E
 IN CHARGE: Augustine 5559

K2828
 510

Specs: Michigan State Specs: 1967, For Road
 & Bridge Construction Special Provisions
Material: ASTM-A441 Mod. (Carbon 80) U.N.
Open Holes: 1/8" U.N.
Welding: AWS Special Provisions
Paint: NO
USE: Epoxy Low Hydrogen Elect. or Fil-A-Mark E70-XX-X Flux
 & Elect. Combinations, U.N.

Comber: NO
 Comber is to be measured with
 the beam lying on its side. Allowable
 Comber Tolerance is 1/4". Heat is to be
 used if necessary to assure comber
 permanency.

Open Holes: are for High Strength Structural
 Bolts U.N. 1/4" B.C. Denotes Bearing End
 Clip Shift: 1/2" X 1/2"



All steel shall be handled carefully and
 materials such as grease, oil, chalk marks,
 crayon marks, dirt, etc.
 All shipping marks shall be made using a
 steel die.
 The foundation of corners will not be re-
 quired.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	REMARKS
1	1	Beam	76'	
2	1	CB 33 1/2	75 0/4	
3	2	PL 1/4 x 4	2 1/4	
4	2	PL 1/4 x 3	2 1/4	
5	2	PL 1/4 x 3	2 1/4	
6	2	PL 1/4 x 3	2 1/4	
7	2	PL 1/4 x 3	2 1/4	
8	2	PL 1/4 x 3	2 1/4	
9	1	M Top Shoe		
10	2	FELT 4 x 2	2 1/4	
11	1	FELT 4 x 2	2 1/4	
12	1	FELT 4 x 2	2 1/4	
13	1	FELT 4 x 2	2 1/4	
14	4	FELT 3 x 2	2 1/4	
15	1	FELT 4 x 2	2 1/4	
16	1	FELT 4 x 2	2 1/4	
17	1	FELT 4 x 2	2 1/4	
18	2	FELT 2 x 2	1 0	

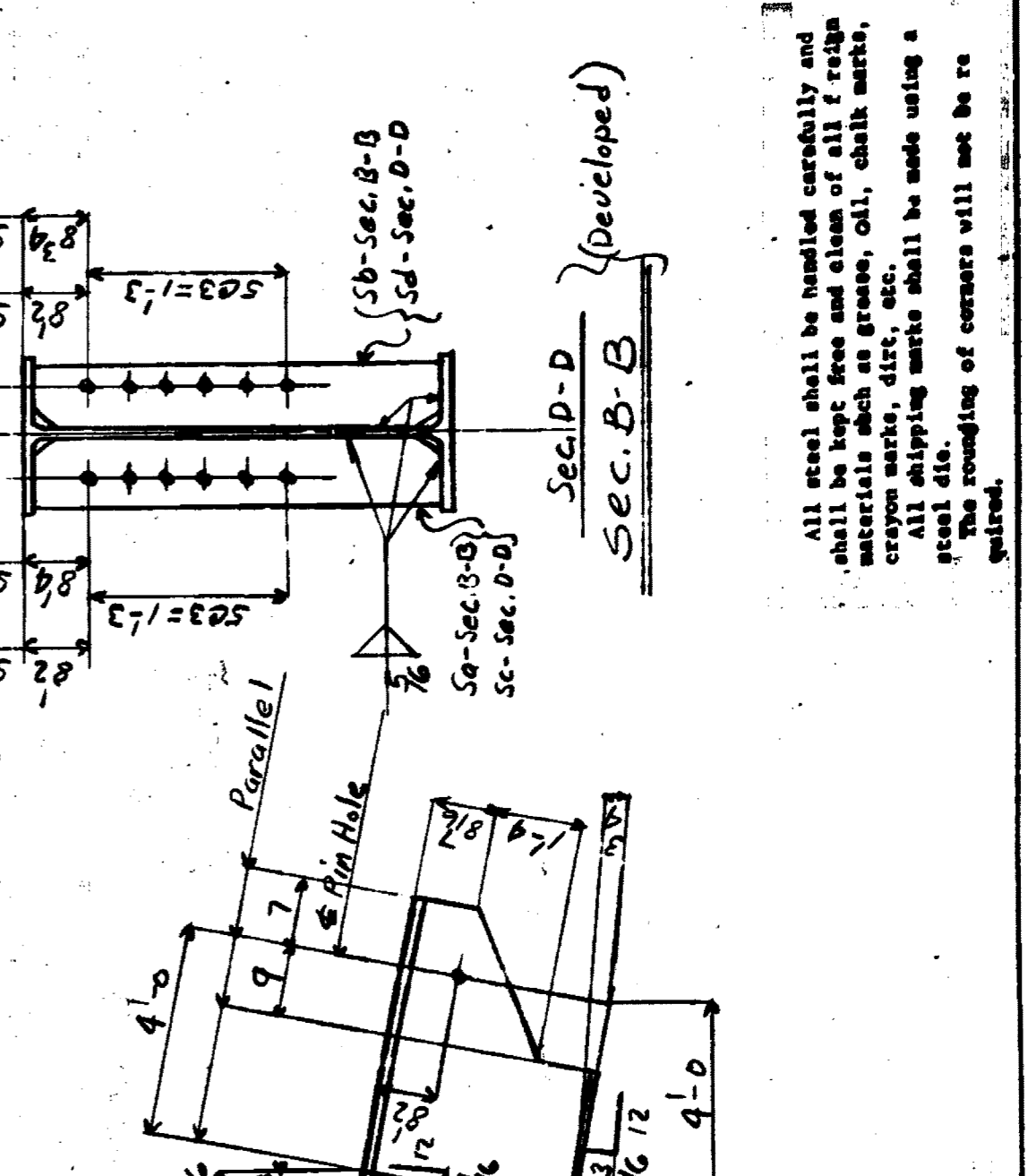
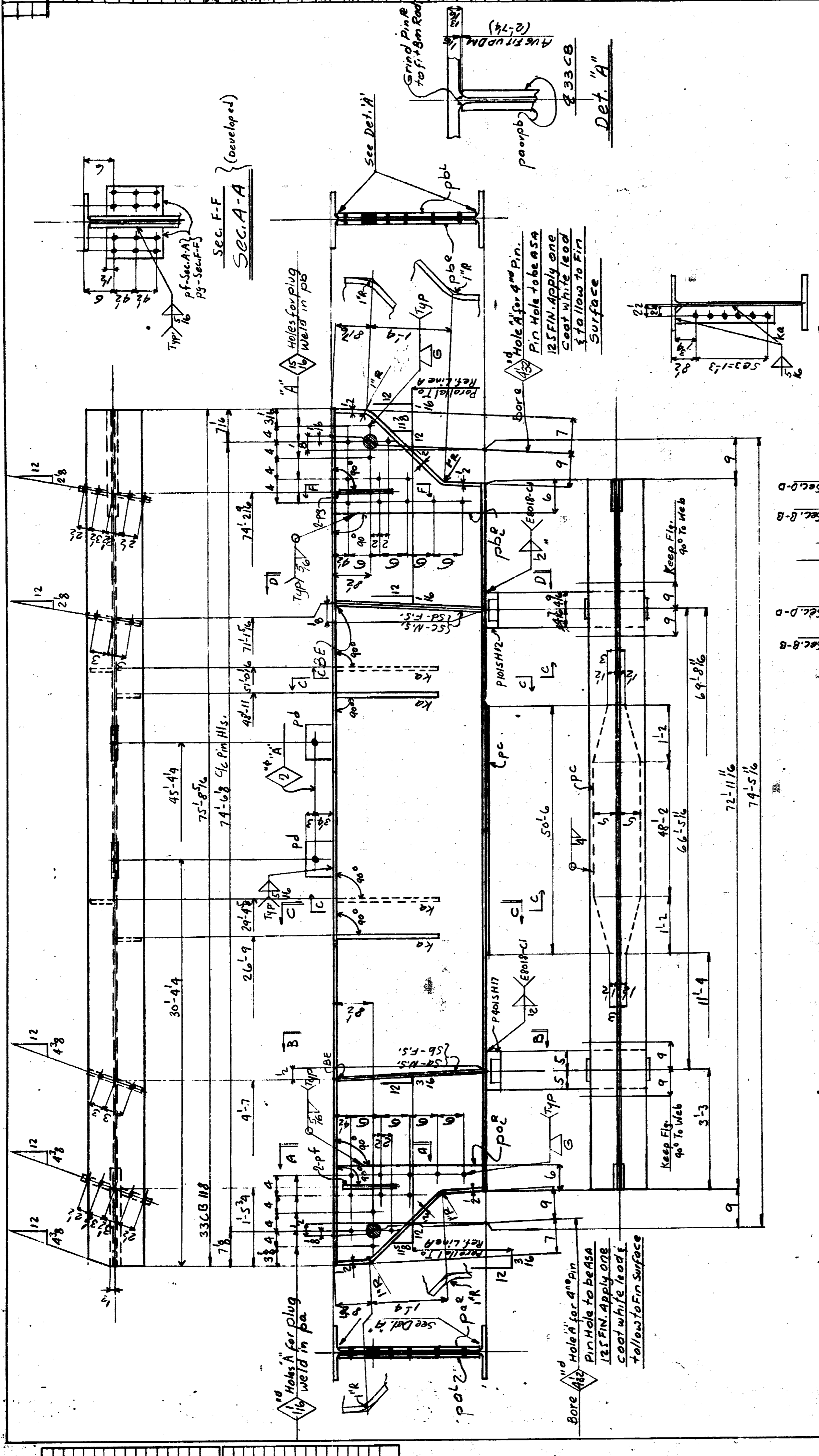
MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. OF 2722K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Beam E span #9

American Bridge Division of Gary, Ind.

Designed by Gary #2
 Date by W.P. 2-5-54
 Checked by Augerline #5559

K 2828 511



Gen. Notes:

Spec. Michigan State Specs. 1967. For Road & Bridge Construction Special Provisions

Material - ASTM - A441 mod. (Cor-Ten B) U.N.

Open Holes: 1/8" U.N.

Welding: AWS E70XX Low Hydrogen Electrodes or E70XX of E70XX-XX Flux & Elec. Combinations, U.N.

Paint: NO

Camber: Camber is to be measured with the beam lying on its side. Allowable Camber Tolerance is ± 6. Heat is to be used if necessary to ensure camber permanency.

Open Holes are for High Strength Structural Bolts U.N. # 8. E.E. Denotes Bearing End

Clip 511-44 13 X 13

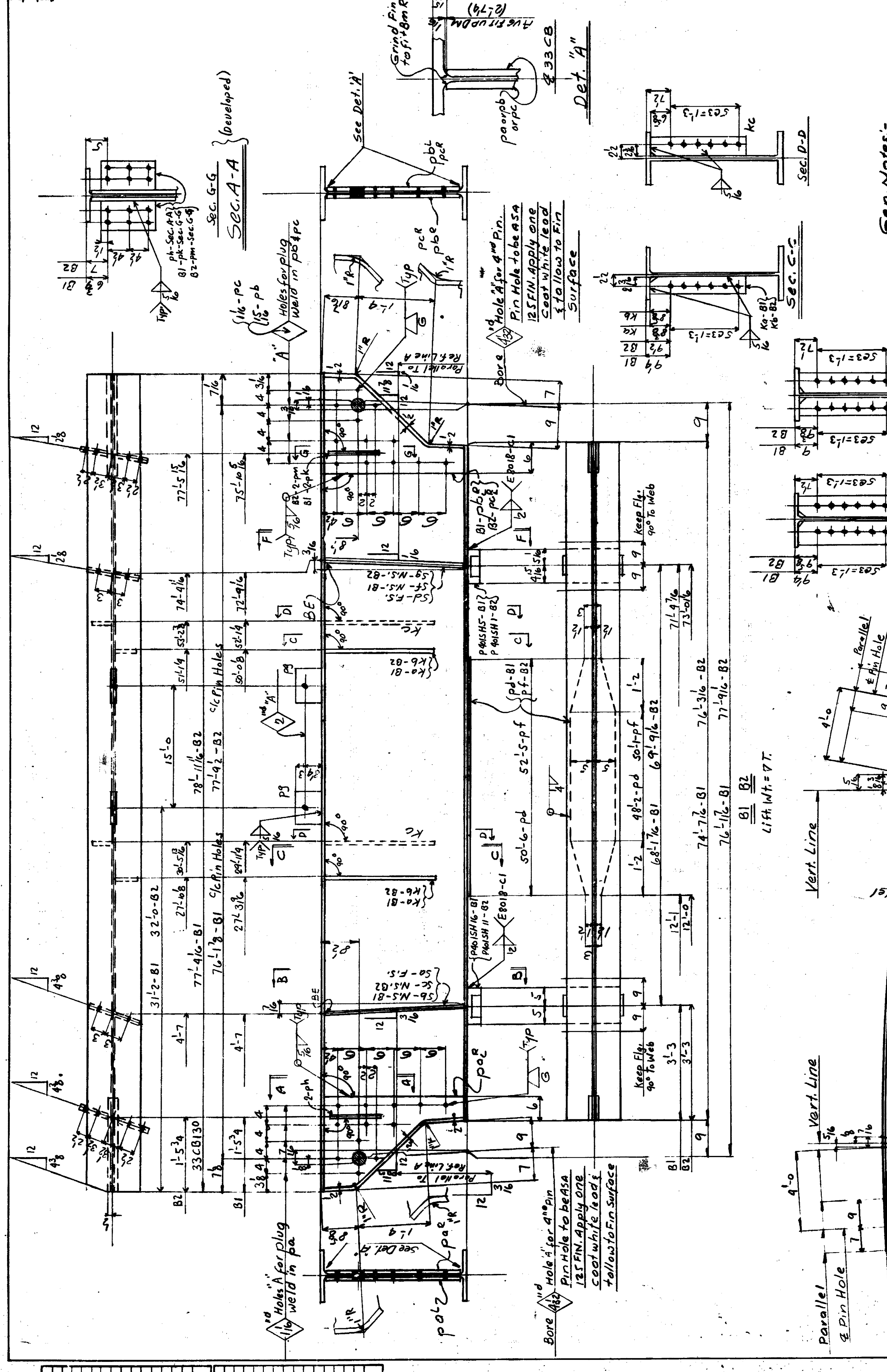
All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk, water, crayon marks, dirt, etc.

All shipping marks shall be made using a grease pencil.

The rounding of corners will not be required.

Cutting and Camber Diagram.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	1 BEAM	1	LT	512.81	512.81
2	1 BEAM	1	LT	512.82	512.82
3	1 CB 33 130	1	EA	71.46	71.46
4	1 CB 33 130	1	EA	78.14	78.14
5	2 PL 2 1/2 x 7	2	EA	2.74	5.48
6	2 PL 2 1/2 x 7	2	EA	2.74	5.48
7	2 PL 2 1/2 x 7	2	EA	2.74	5.48
8	2 PL 2 1/2 x 7	2	EA	2.74	5.48
9	1 PL 10 x 3/4	1	EA	50.6	50.6
10	1 PL 10 x 3/4	1	EA	52.5	52.5
11	4 FRT 6 x 2	4	EA	P	
12	1 M Top Flange	1	EA		
13	1 M Top Flange	1	EA		
14	1 M Top Flange	1	EA		
15	1 M Top Flange	1	EA		
16	2 FRT 6 x 2	2	EA	1.0	2.0
17	2 FRT 6 x 2	2	EA	1.0	2.0
18	2 FRT 6 x 2	2	EA	1.0	2.0
19	2 FRT 6 x 2	2	EA	1.0	2.0
20	1 FRT 4 x 2	1	EA	2.74	2.74
21	1 FRT 4 x 2	1	EA	2.74	2.74
22	1 FRT 4 x 2	1	EA	2.74	2.74
23	1 FRT 4 x 2	1	EA	2.74	2.74
24	2 FRT 4 x 2	2	EA	2.74	5.48
25	1 FRT 4 x 2	1	EA	2.74	2.74
26	1 FRT 4 x 2	1	EA	2.74	2.74
27	1 FRT 4 x 2	1	EA	2.74	2.74
28	1 FRT 4 x 2	1	EA	2.74	2.74
29	1 FRT 4 x 2	1	EA	2.74	2.74
30	1 FRT 4 x 2	1	EA	2.74	2.74
31	1 FRT 4 x 2	1	EA	2.74	2.74
32	1 FRT 4 x 2	1	EA	2.74	2.74
33	1 FRT 4 x 2	1	EA	2.74	2.74
34	1 FRT 4 x 2	1	EA	2.74	2.74
35	1 FRT 4 x 2	1	EA	2.74	2.74
36	1 FRT 4 x 2	1	EA	2.74	2.74
37	1 FRT 4 x 2	1	EA	2.74	2.74
38	1 FRT 4 x 2	1	EA	2.74	2.74
39	1 FRT 4 x 2	1	EA	2.74	2.74
40	1 FRT 4 x 2	1	EA	2.74	2.74
41	1 FRT 4 x 2	1	EA	2.74	2.74
42	1 FRT 4 x 2	1	EA	2.74	2.74
43	1 FRT 4 x 2	1	EA	2.74	2.74
44	1 FRT 4 x 2	1	EA	2.74	2.74
45	1 FRT 4 x 2	1	EA	2.74	2.74
46	1 FRT 4 x 2	1	EA	2.74	2.74
47	1 FRT 4 x 2	1	EA	2.74	2.74
48	1 FRT 4 x 2	1	EA	2.74	2.74
49	1 FRT 4 x 2	1	EA	2.74	2.74
50	1 FRT 4 x 2	1	EA	2.74	2.74
51	1 FRT 4 x 2	1	EA	2.74	2.74
52	1 FRT 4 x 2	1	EA	2.74	2.74
53	1 FRT 4 x 2	1	EA	2.74	2.74
54	1 FRT 4 x 2	1	EA	2.74	2.74
55	1 FRT 4 x 2	1	EA	2.74	2.74
56	1 FRT 4 x 2	1	EA	2.74	2.74
57	1 FRT 4 x 2	1	EA	2.74	2.74
58	1 FRT 4 x 2	1	EA	2.74	2.74
59	1 FRT 4 x 2	1	EA	2.74	2.74
60	1 FRT 4 x 2	1	EA	2.74	2.74
61	1 FRT 4 x 2	1	EA	2.74	2.74
62	1 FRT 4 x 2	1	EA	2.74	2.74
63	1 FRT 4 x 2	1	EA	2.74	2.74
64	1 FRT 4 x 2	1	EA	2.74	2.74
65	1 FRT 4 x 2	1	EA	2.74	2.74
66	1 FRT 4 x 2	1	EA	2.74	2.74
67	1 FRT 4 x 2	1	EA	2.74	2.74
68	1 FRT 4 x 2	1	EA	2.74	2.74
69	1 FRT 4 x 2	1	EA	2.74	2.74
70	1 FRT 4 x 2	1	EA	2.74	2.74
71	1 FRT 4 x 2	1	EA	2.74	2.74
72	1 FRT 4 x 2	1	EA	2.74	2.74
73	1 FRT 4 x 2	1	EA	2.74	2.74
74	1 FRT 4 x 2	1	EA	2.74	2.74
75	1 FRT 4 x 2	1	EA	2.74	2.74
76	1 FRT 4 x 2	1	EA	2.74	2.74
77	1 FRT 4 x 2	1	EA	2.74	2.74
78	1 FRT 4 x 2	1	EA	2.74	2.74
79	1 FRT 4 x 2	1	EA	2.74	2.74
80	1 FRT 4 x 2	1	EA	2.74	2.74
81	1 FRT 4 x 2	1	EA	2.74	2.74
82	1 FRT 4 x 2	1	EA	2.74	2.74
83	1 FRT 4 x 2	1	EA	2.74	2.74
84	1 FRT 4 x 2	1	EA	2.74	2.74
85	1 FRT 4 x 2	1	EA	2.74	2.74
86	1 FRT 4 x 2	1	EA	2.74	2.74
87	1 FRT 4 x 2	1	EA	2.74	2.74
88	1 FRT 4 x 2	1	EA	2.74	2.74
89	1 FRT 4 x 2	1	EA	2.74	2.74
90	1 FRT 4 x 2	1	EA	2.74	2.74
91	1 FRT 4 x 2	1	EA	2.74	2.74
92	1 FRT 4 x 2	1	EA	2.74	2.74
93	1 FRT 4 x 2	1	EA	2.74	2.74
94	1 FRT 4 x 2	1	EA	2.74	2.74
95	1 FRT 4 x 2	1	EA	2.74	2.74
96	1 FRT 4 x 2	1	EA	2.74	2.74
97	1 FRT 4 x 2	1	EA	2.74	2.74
98	1 FRT 4 x 2	1	EA	2.74	2.74
99	1 FRT 4 x 2	1	EA	2.74	2.74
100	1 FRT 4 x 2	1	EA	2.74	2.74



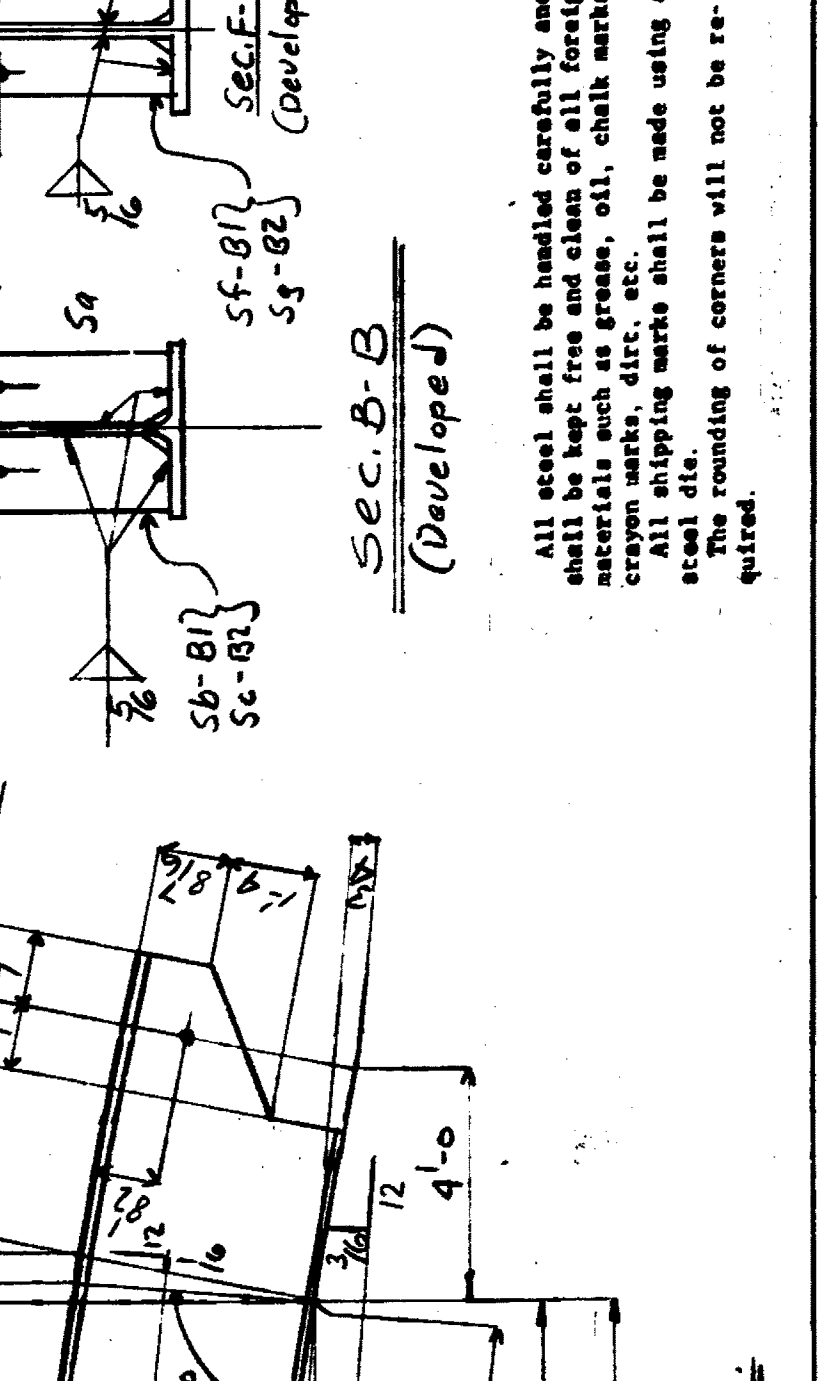
MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. 101 OF 1012K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Beams & Span #9
 American Bridge Division of
 United States Steel

DRAWING MADE BY Gary
 DATE BY W.P. 8-5-49
 CHECKED BY Augustine # 559

SHEET NO. K 2828
 OF 572

Gen. Notes:-
 Spec. Michigan State Spec. 1967 For Road
 & Bridge Construction Special Provisions
 Material - ASTM-A441 Mod. (Carbon 8") U.N.
 Open Holes: 1/8" U.N.
 Welding: AWS E Special Provisions
 Use E70XX Low Hydrogen Electrodes or E70XX or E70XX Flux
 & Elect. Combinations. U.N.
 Paint: - NO
 Camber: - Camber is to be measured with
 the beam lying on its side. Allowable
 camber tolerance is $\pm 1/8$ ". Meas'ts to be
 used if necessary to assure camber
 permanency.
 Open Holes are for High Strength Structural
 Bolts U.N. #8. BE Denotes Bearing End
 CLIP SHIFTS 12 x 1/2"

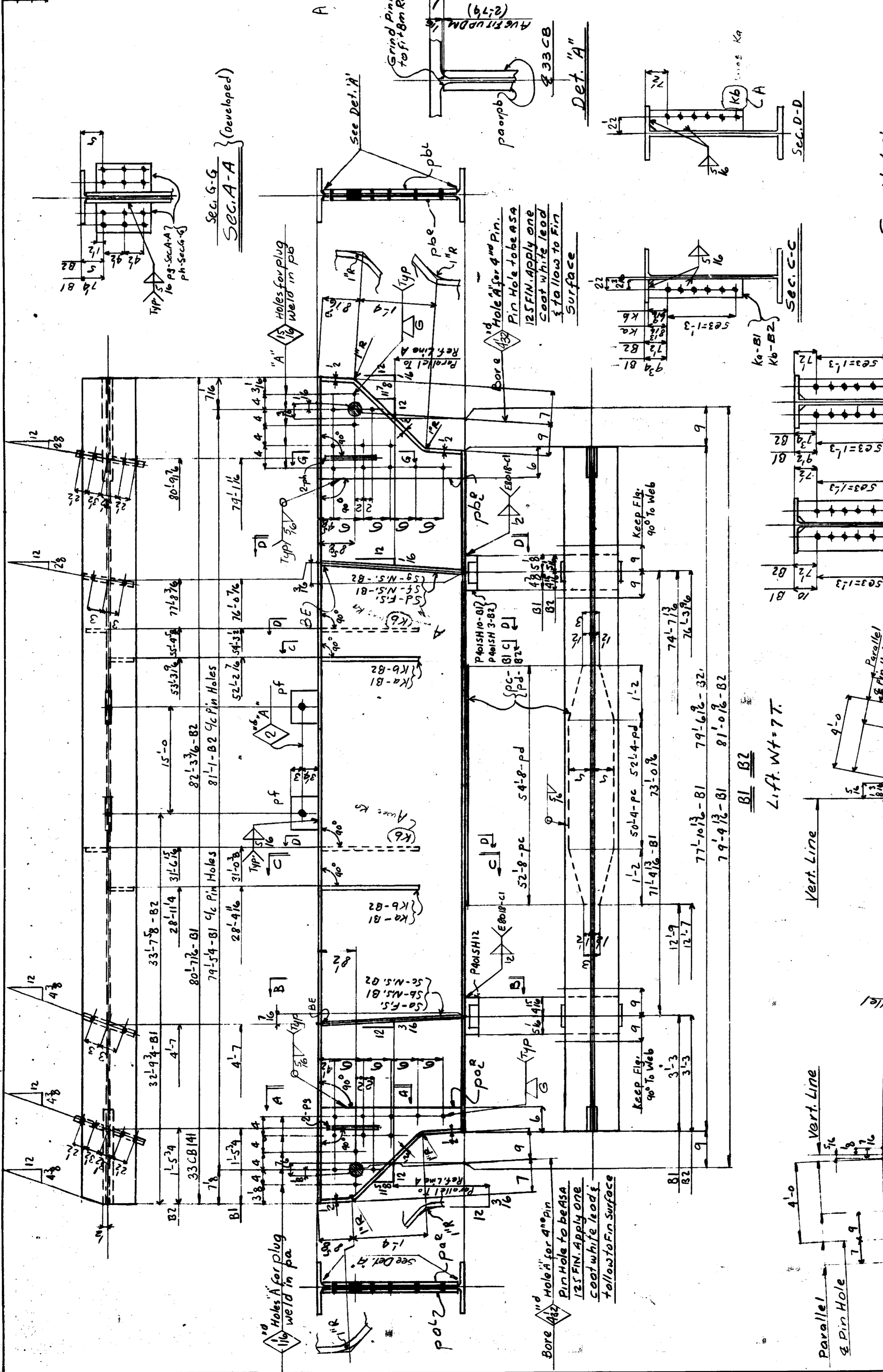


All steel shall be handled carefully and
 shall be kept free and clean of all foreign
 materials such as grease, oil, chalk marks,
 etc.
 All shipping marks shall be made using a
 steel die.
 The rounding of corners will not be re-
 quired.

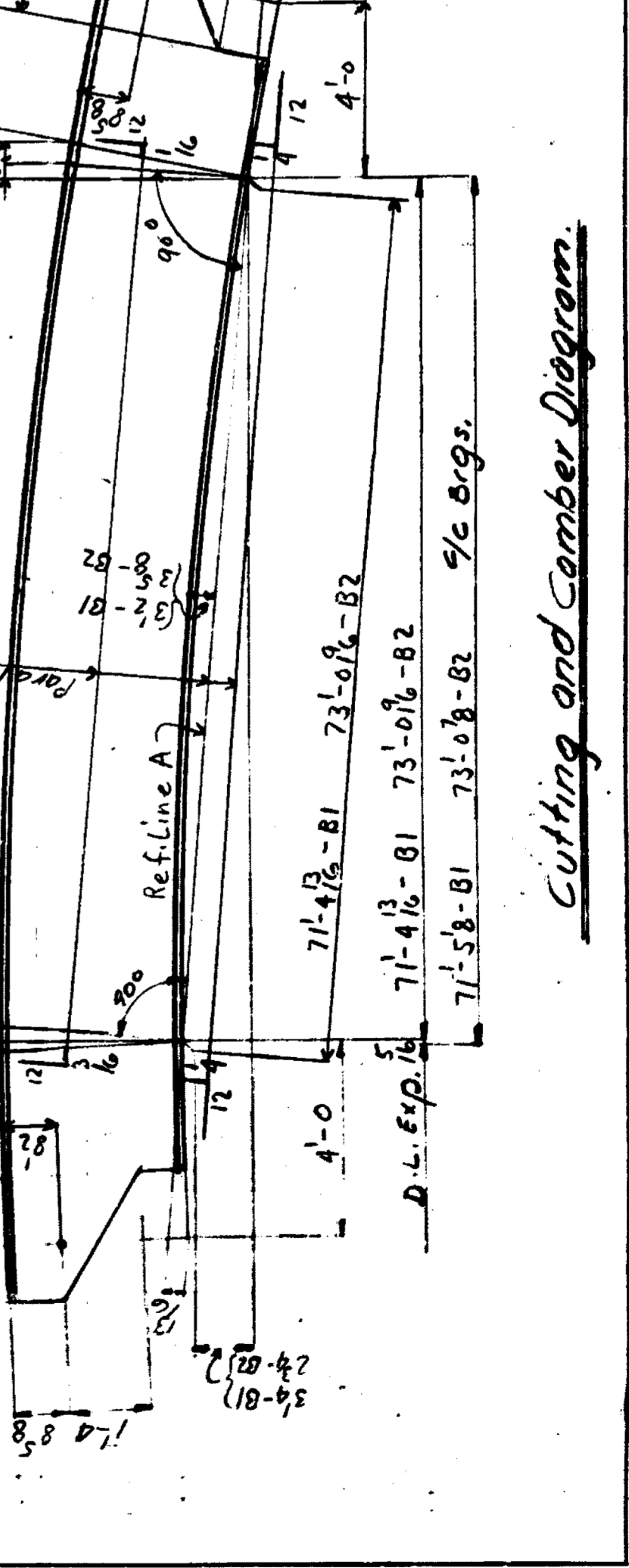
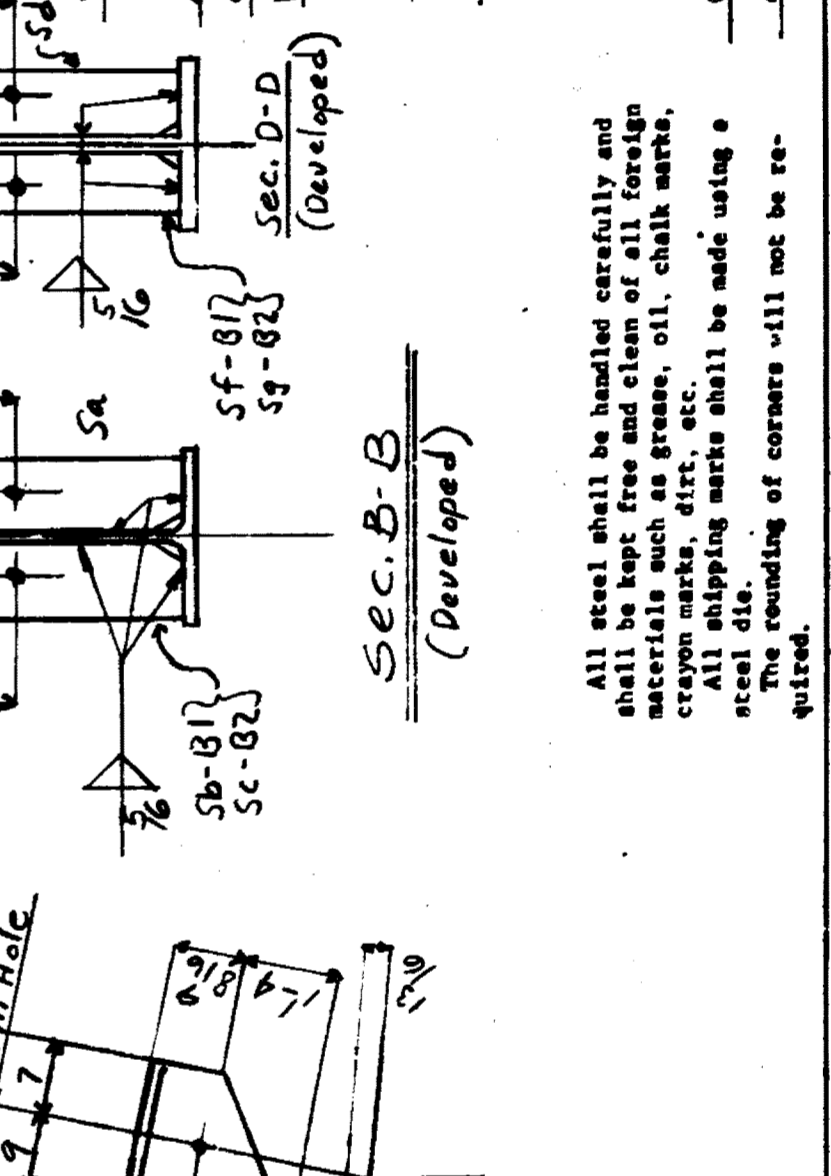
(Developed)
 Sec. B-B
 (Developed)
 Sec. C-C
 (Developed)
 Sec. D-D

Cutting and Camber Diagram
 Vert. Line
 Parallel & Pin Hole
 Ref. Line A
 68'-11 1/2" - B1
 69'-9 1/2" - B2
 68'-17 1/2" - B1
 69'-9 1/2" - B2
 68'-14 1/2" - B1
 69'-9 1/2" - B2
 1/2 c Brgs.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	GRADE	REMARKS
1	1	BEAM	81'	513 B1	
2	1	BEAM	82'	513 B2	
3	1	CB	33 1/4"	80 7/8"	
4	1	CB	33 1/4"	82 3/4"	
5	4	PL	7/16"	2 7/8"	
6	4	PL	7/16"	2 7/8"	
7	1	PL	10 1/8"	5 1/8"	
8	4	FRT	1/4"	8"	
9	2	M	Top Shoe		
10	1	M	Top Shoe		
11	4	FRT	1/4"	10 1/8"	
12	2	FRT	1/4"	2 7/8"	
13	1	FRT	1/4"	2 7/8"	
14	1	FRT	1/4"	2 7/8"	
15	2	FRT	1/4"	2 7/8"	
16	2	FRT	1/4"	2 7/8"	
17	1	FRT	1/4"	2 7/8"	
18	1	FRT	1/4"	2 7/8"	
19	2	FRT	1/4"	2 7/8"	
20	2	FRT	1/4"	2 7/8"	
21	2	FRT	1/4"	2 7/8"	
22	2	FRT	1/4"	2 7/8"	
23	2	FRT	1/4"	2 7/8"	
24	2	FRT	1/4"	2 7/8"	
25	2	FRT	1/4"	2 7/8"	
26	2	FRT	1/4"	2 7/8"	
27	2	FRT	1/4"	2 7/8"	
28	2	FRT	1/4"	2 7/8"	
29	2	FRT	1/4"	2 7/8"	
30	2	FRT	1/4"	2 7/8"	
31	2	FRT	1/4"	2 7/8"	
32	2	FRT	1/4"	2 7/8"	
33	2	FRT	1/4"	2 7/8"	
34	2	FRT	1/4"	2 7/8"	
35	2	FRT	1/4"	2 7/8"	
36	2	FRT	1/4"	2 7/8"	
37	2	FRT	1/4"	2 7/8"	
38	2	FRT	1/4"	2 7/8"	
39	2	FRT	1/4"	2 7/8"	
40	2	FRT	1/4"	2 7/8"	
41	2	FRT	1/4"	2 7/8"	
42	2	FRT	1/4"	2 7/8"	
43	2	FRT	1/4"	2 7/8"	
44	2	FRT	1/4"	2 7/8"	
45	2	FRT	1/4"	2 7/8"	
46	2	FRT	1/4"	2 7/8"	
47	2	FRT	1/4"	2 7/8"	
48	2	FRT	1/4"	2 7/8"	
49	2	FRT	1/4"	2 7/8"	
50	2	FRT	1/4"	2 7/8"	
51	2	FRT	1/4"	2 7/8"	
52	2	FRT	1/4"	2 7/8"	
53	2	FRT	1/4"	2 7/8"	
54	2	FRT	1/4"	2 7/8"	
55	2	FRT	1/4"	2 7/8"	
56	2	FRT	1/4"	2 7/8"	
57	2	FRT	1/4"	2 7/8"	
58	2	FRT	1/4"	2 7/8"	
59	2	FRT	1/4"	2 7/8"	
60	2	FRT	1/4"	2 7/8"	
61	2	FRT	1/4"	2 7/8"	
62	2	FRT	1/4"	2 7/8"	
63	2	FRT	1/4"	2 7/8"	
64	2	FRT	1/4"	2 7/8"	
65	2	FRT	1/4"	2 7/8"	
66	2	FRT	1/4"	2 7/8"	
67	2	FRT	1/4"	2 7/8"	
68	2	FRT	1/4"	2 7/8"	
69	2	FRT	1/4"	2 7/8"	
70	2	FRT	1/4"	2 7/8"	
71	2	FRT	1/4"	2 7/8"	
72	2	FRT	1/4"	2 7/8"	
73	2	FRT	1/4"	2 7/8"	
74	2	FRT	1/4"	2 7/8"	
75	2	FRT	1/4"	2 7/8"	
76	2	FRT	1/4"	2 7/8"	
77	2	FRT	1/4"	2 7/8"	
78	2	FRT	1/4"	2 7/8"	
79	2	FRT	1/4"	2 7/8"	
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81	2	FRT	1/4"	2 7/8"	
82	2	FRT	1/4"	2 7/8"	
83	2	FRT	1/4"	2 7/8"	
84	2	FRT	1/4"	2 7/8"	
85	2	FRT	1/4"	2 7/8"	
86	2	FRT	1/4"	2 7/8"	
87	2	FRT	1/4"	2 7/8"	
88	2	FRT	1/4"	2 7/8"	
89	2	FRT	1/4"	2 7/8"	
90	2	FRT	1/4"	2 7/8"	
91	2	FRT	1/4"	2 7/8"	
92	2	FRT	1/4"	2 7/8"	
93	2	FRT	1/4"	2 7/8"	
94	2	FRT	1/4"	2 7/8"	
95	2	FRT	1/4"	2 7/8"	
96	2	FRT	1/4"	2 7/8"	
97	2	FRT	1/4"	2 7/8"	
98	2	FRT	1/4"	2 7/8"	
99	2	FRT	1/4"	2 7/8"	
100	2	FRT	1/4"	2 7/8"	



Gen. Notes:
 Spec.: Michigan State Specs. 1967, For Road & Bridge Construction Special Provisions
 Material: ASTM-A441 Mod. (Cor-Ten 3") U.M.
 Open Holes: 1/8" min.
 Welding: AWS Special Provisions
 Paint: No
 Camber: Camber is to be measured with the beam lying on its side. Allowable Camber Tolerance is ±.4. Heat is to be used if necessary to assure camber permanency.
 Open Holes are to be High Strength Structural Bolts U.N. # 8.E. Details governing end clips stiff, 12x12



Vertical Line
 Parallel & Pin Hole
 D.L. Exp. 1/8"
 71'-4 1/2"-B1 73'-0 1/8"-B2
 71'-5 1/8"-B1 73'-0 1/8"-B2
 71'-5 1/8"-B1 73'-0 1/8"-B2 9/16 orgs.

Michigan Dept. of State Highways
 BRIDGE NO. OF 2022K
 EVERGREEN ROAD OVER I-94
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Beams & Spans
 American Bridge Division of U.S.S. United States Steel
 Designer: Gary
 Checker: Gary
 Date: 8-5-69
 Project: 2022K

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

Sheet No. 5/3

All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, etc.
 All shipping marks shall be made using a steel die.
 The rounding of corners will not be required.

ITEM NO.	QTY	UNIT	MATERIAL	DIMENSIONS	SPEC. REF.	MARK	REMARKS	ORDERED	DATE
1	6	PL	10 1/2	1 10 FIS	COI 871				
2	6	PL	9 1/4	2 11 FEG	pb				
3	36	PL	9 1/4	4 3 1/2	pb				
4	6	PL	3 1/2	VI FEG	mb				

MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. 247 OF 3222K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

FIXED SHAPE
 PIER #11

AMERICAN BRIDGE
 Division of United States Steel Corporation

DESIGNED BY: GARY P. Z
 DATE: 12/15/64

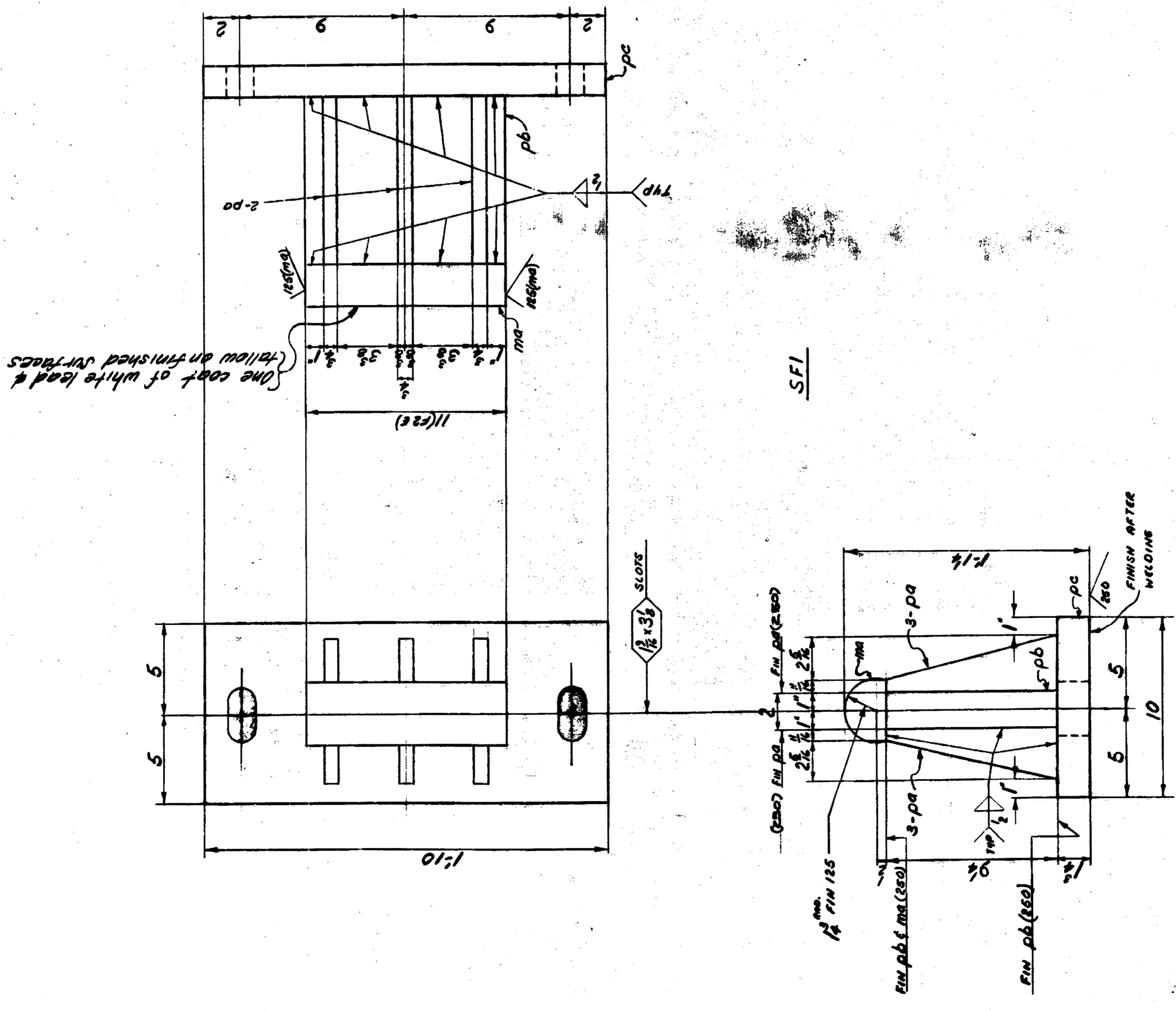
MADE BY: USS
 DATE: 1/15/65

IN CHARGE OF: AMERICAN BRIDGE - 5557

ORDER NO. K2828
 SHEET NO. 601

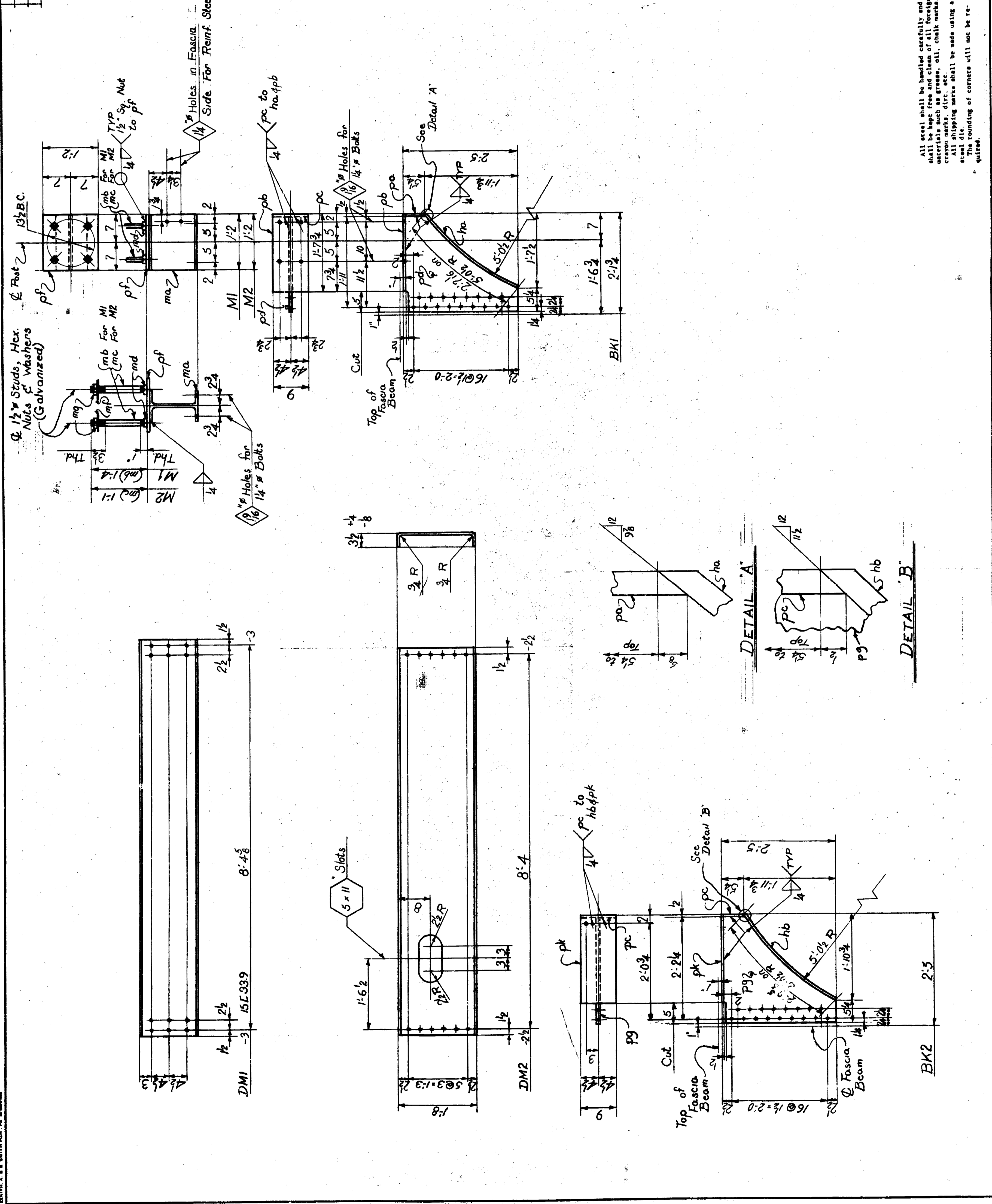
GEN. NOTES:
 MATERIAL - A574 A574 MODIFIED COI-TM B
 WELDING - AWS E6013C1
 FINISHING - AS NOTED

All steel shall be bundled carefully and shall be kept free and clear of all foreign materials such as grass, dirt, chalk marks, etc. All shipping marks shall be made using a steel die. The remaining 1/2 inches will not be required.



ITEM NO.	QTY	UNIT	MATERIAL	DIMENSIONS	SPEC. REF.	MARK	REMARKS	ORDERED	DATE
1	6	PL	10 1/2	1 10 FIS	COI 871				
2	6	PL	9 1/4	2 11 FEG	pb				
3	36	PL	9 1/4	4 3 1/2	pb				
4	6	PL	3 1/2	VI FEG	mb				

ITEM	QTY	MATERIAL				FINISH	SHEATHING OR FINISH	MARKING	SPECIFICATION REFERENCE	REMARKS	ORDER	DATE
		TYPE	SIZE	THICKNESS	WEIGHT							
1	1	DIAPHRAGM	10	10	1/8							
2	1	DIAPHRAGM	10	10	1/8							
3	2	BRACKET	2	2	1/4							
4	2	BRACKET	2	2	1/4							
5	2	BRACKET	2	2	1/4							
6	2	BRACKET	2	2	1/4							
7	2	BRACKET	2	2	1/4							
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98	2	BRACKET	2	2	1/4							
99	2	BRACKET	2	2	1/4							
100	2	BRACKET	2	2	1/4							



DEPT. OF STATE HIGHWAYS
DIVISION OF BRIDGE
WEST VIRGINIA
DIAPHRAGMS

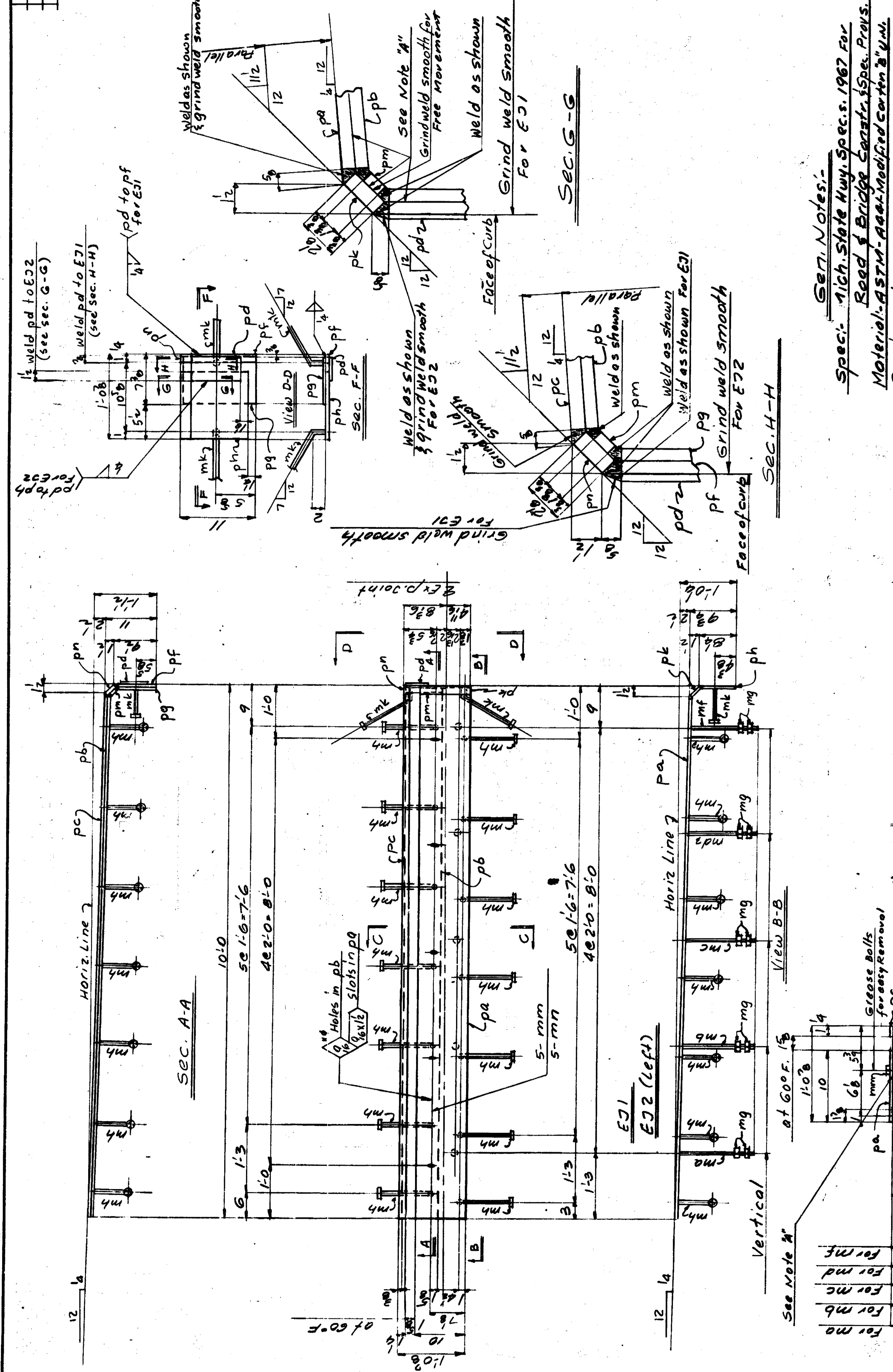
AMERICAN BRIDGE
Division of United States Steel Corporation

FABRICATION ORDER NO. G-101
DRAWN BY: G-101
CHECKED BY: G-101
DATE: 1/2/68
PROJECT: WEST VIRGINIA STATE HIGHWAY 602

ORDER NO. K2828
SHEET NO. 602

FOR LOCATION OF SHIPPING PILES REFER TO SHEET E8

NO.	QTY.	DESCRIPTION	UNIT	REMARKS	DATE	BY	CHECKED
1	1	Expansion Joint					
2	1	PL 10					
3	2	PL 7					
4	2	PL 4					
5	2	PL 1/2					
6	2	PL 1/2					
7	2	PL 1/2					
8	2	PL 1/2					
9	2	PL 1/2					
10	2	PL 1/2					
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100	2	PL 1/2					



Gen'l. Notes:-
 Spec:- Mich. State Hwy. Spec.s. 1967 for Road & Bridge Contr. Spec. Prov.
 Material:- ASTM-A-44-Modified Carbon Steel
 Rivets:- None
 Open Holes:- As Noted
 Welding:- AS AWS Spec. for welded Hwy. & Railway Bridges
 Use E6010-Cl Electrode
 Point:- None
 Shop Contact Surface:- NO

All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, crayon marks, dirt, etc.
 All shipping marks shall be made using a steel stamp.
 The quantity of corners will not be re-estimated.

SEC. H-H
 Weld as shown
 Grind weld smooth for E22
 Face of curb
 Weld as shown
 Grind weld smooth for E21

SEC. G-G
 Weld as shown
 Grind weld smooth for E22
 Face of curb
 Weld as shown
 Grind weld smooth for E21

SEC. C-C
 1'-2" For mo
 1'-2" For mb
 1'-1 1/2" For mc
 1'-0 1/2" For md
 1'-0 1/2" For me
 See Note A

Vertical
 at 60° F.
 1'-0 1/2"
 10"
 66"
 3 1/2"
 Grease Balls for easy removal
 Thread
 1/2" x 1/4"
 Expansion Joint

MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE X01 OF 8212K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Expansion Joint
 American Bridge Division of United States Steel
 FABRICATED AND SHIPPED TO: Gary
 DRAWING MADE BY: Gary
 MADE BY: Gary
 CHECKED BY: Gary
 IN CHARGE OF: Gary

PROJECT NO. K2888
 SHEET NO. 603
 FABRICATION OF STEEL TO BE SHOWN ON THE SHEET TO BE IN ACCORDANCE WITH THE DRAWING.

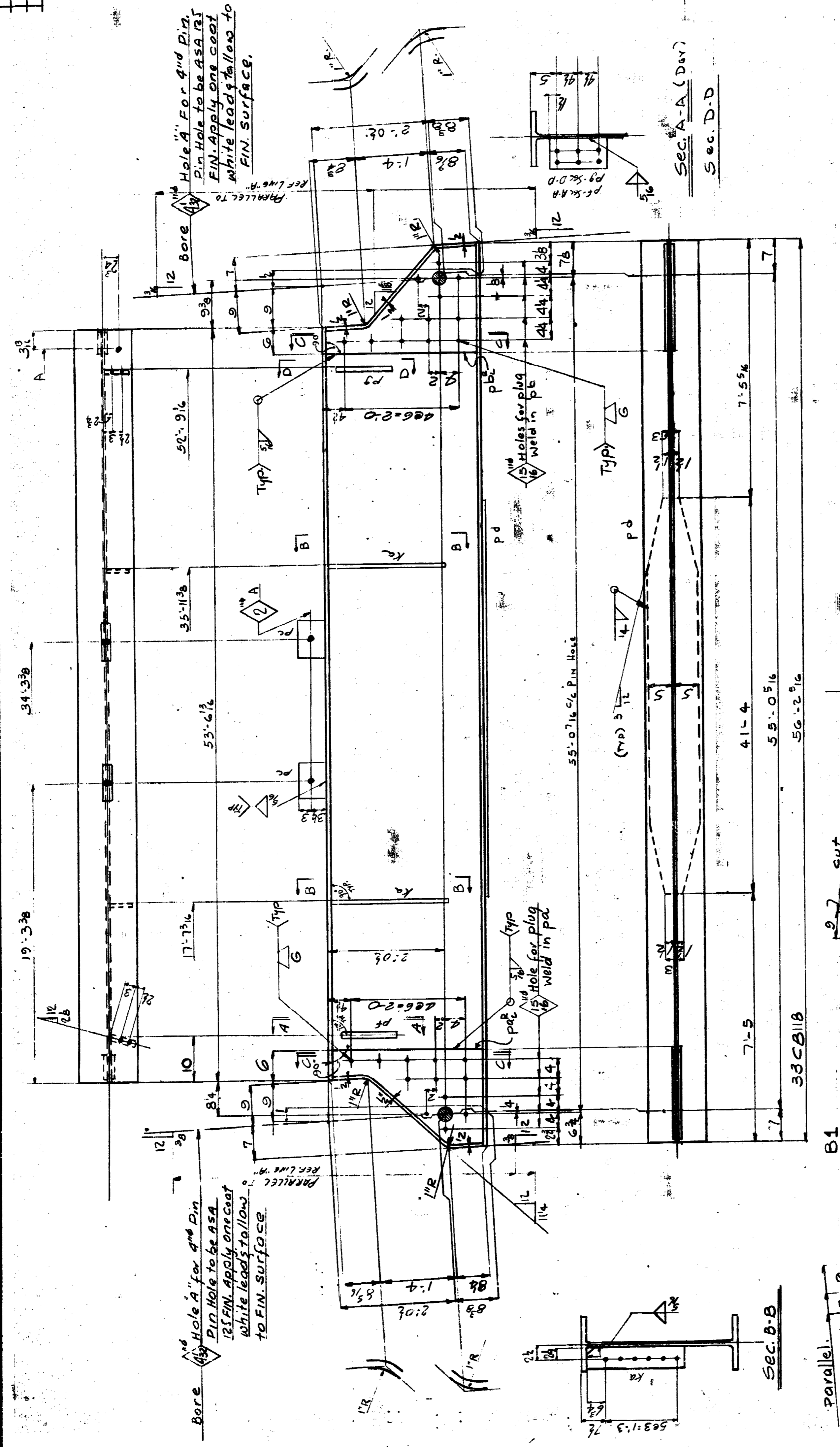
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	CALCULATED UNIT PRICE	TOTAL PRICE	REMARKS	MATERIAL		DATE	BY
							NO.	NAME		
1	1	BEAM	605B1							
2	1	CB	33118							
3	2	PL	7/4							
4	2	PL	274							
5	2	PL	64							
6	2	PL	64							
7	2	PL	64							
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MICHIGAN DEPT. OF STATE HIGHWAYS
 DIVISION OF BRIDGE CONSTRUCTION
 DETROIT, MICHIGAN

Beam & Span # 10
 American Bridge
 Division of
 United States Steel

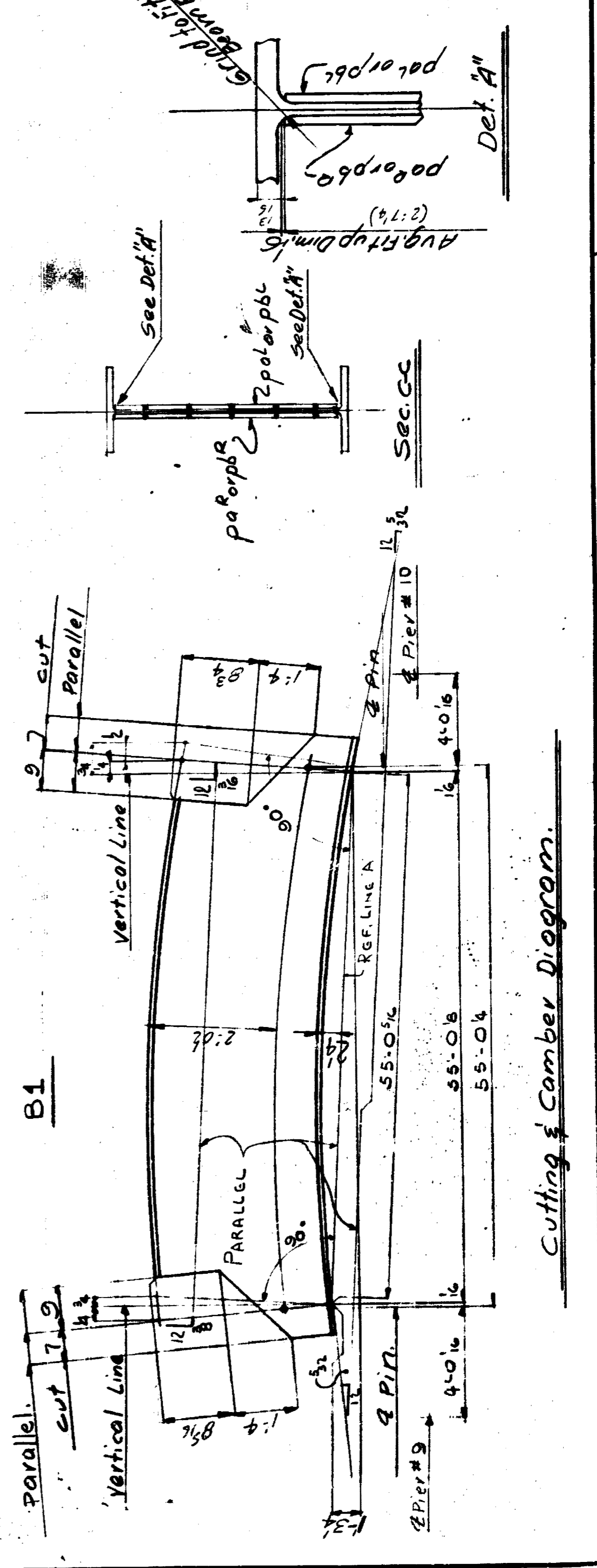
PREPARED BY: Gary # 2
 DATE: 1-26-69
 CHECKED BY: Gary # 2
 DATE: 1-26-69

PROJECT NO. K2828
 SHEET NO. 604



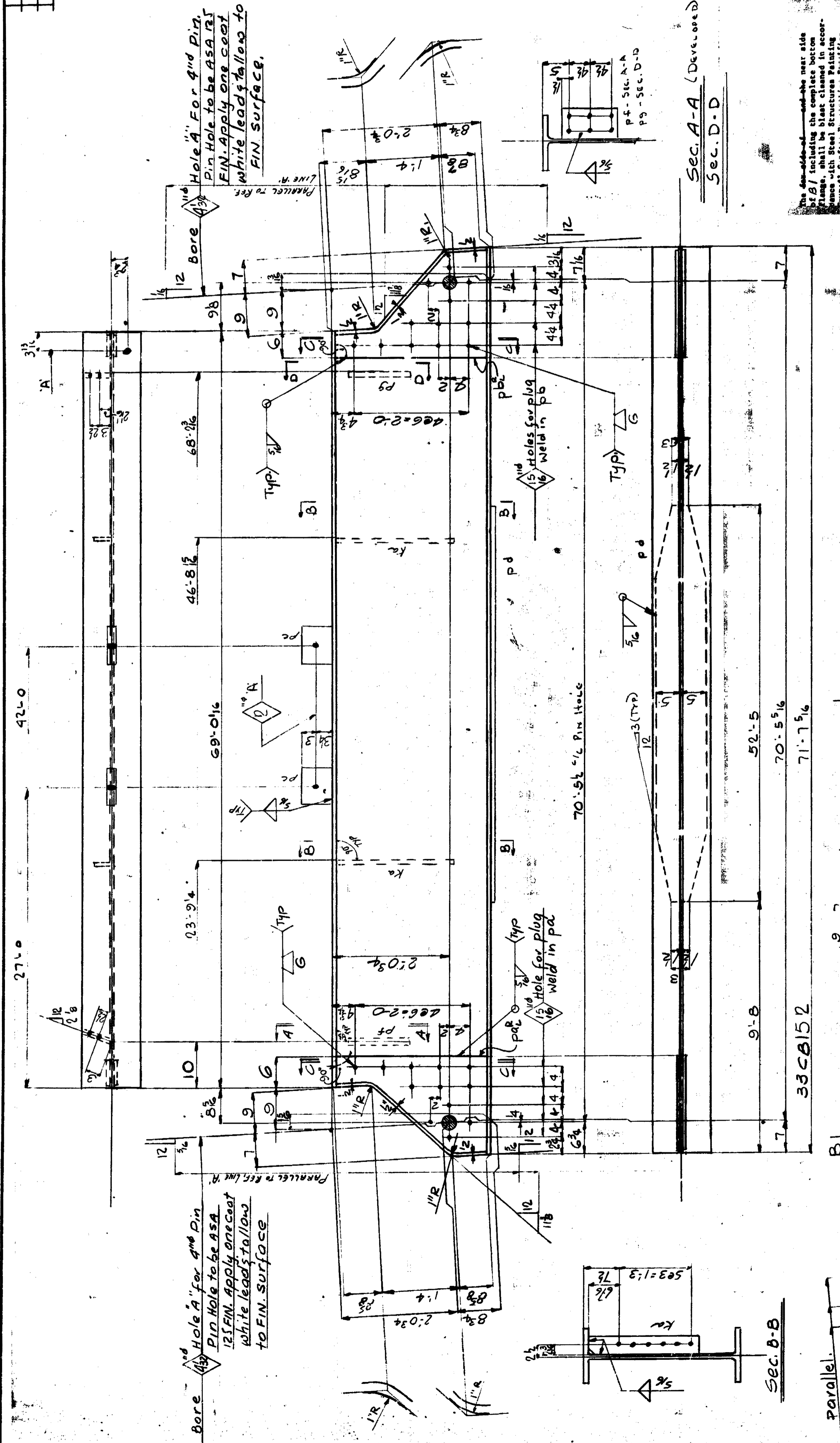
Gen. Notes:-
 SPECI- Michigan State Specs. 1967 For
 Road & Bridge Construction & Special
 Provisions.
 Material- ASTM-A413M (Cor. Ten "g" UK
 Open Hole) & A572M
 Welding- AWS E70XX LK Electrodes on F70XXXX
 or F70XXXX Flux Electrode Combination.
 Paint- NO
 SNIPS - Typ. 12" x 12"
 Camber: Camber is to be measured with
 the bearing on its slab. Allowable
 camber tolerance is 1/4" & heat is to be
 used if necessary to assure
 camber permanency.

OPEN BOLTS ARE FOR HIGH STRENGTH STRUCTURAL BOLTS U.N.A.
 The flat side of bolts shall be used
 including the complete hex
 flats, shall be blast cleaned in accor-
 dance with Steel Structure Painting
 Council Surface Preparation Specifi-
 cation No. 1. The surface shall be
 SSPC-SP10-43 as soon after fabrication
 as possible.



Cutting & Camber Diagram.

NO.	QTY.	DESCRIPTION	UNIT	REMARKS	DATE
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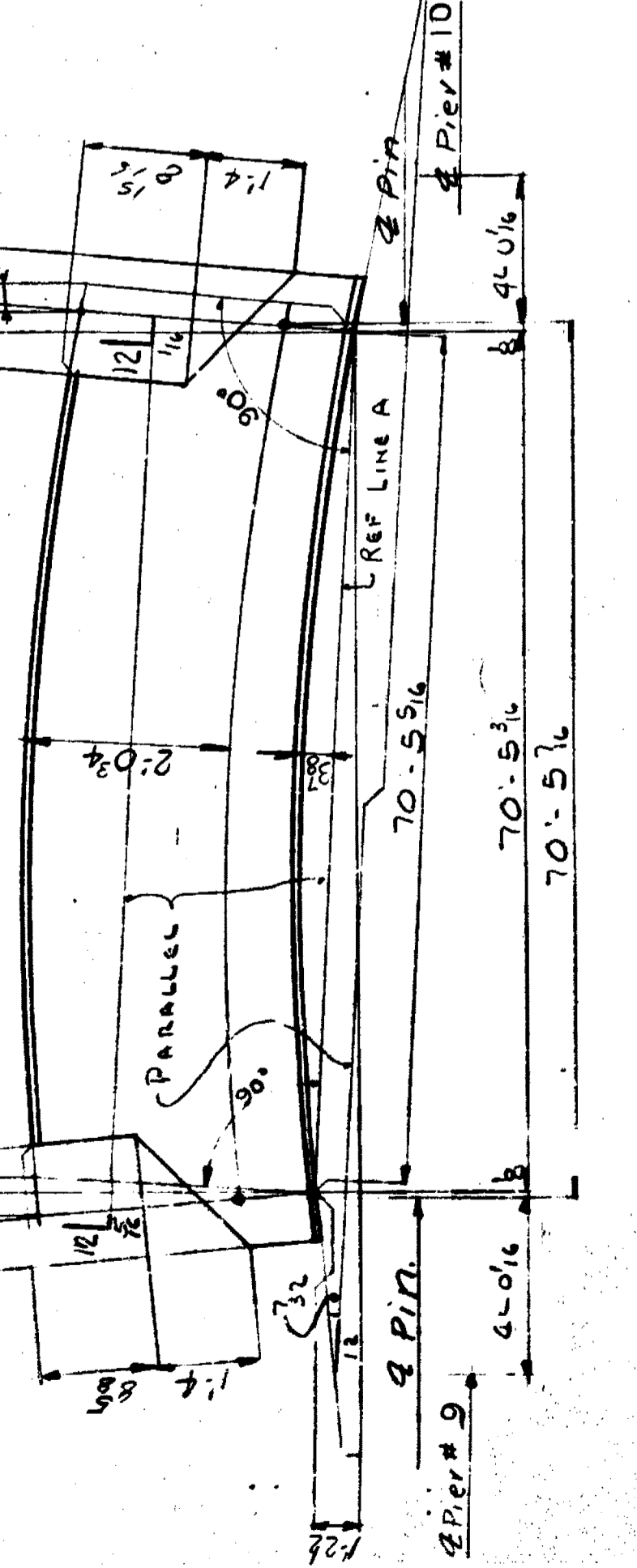
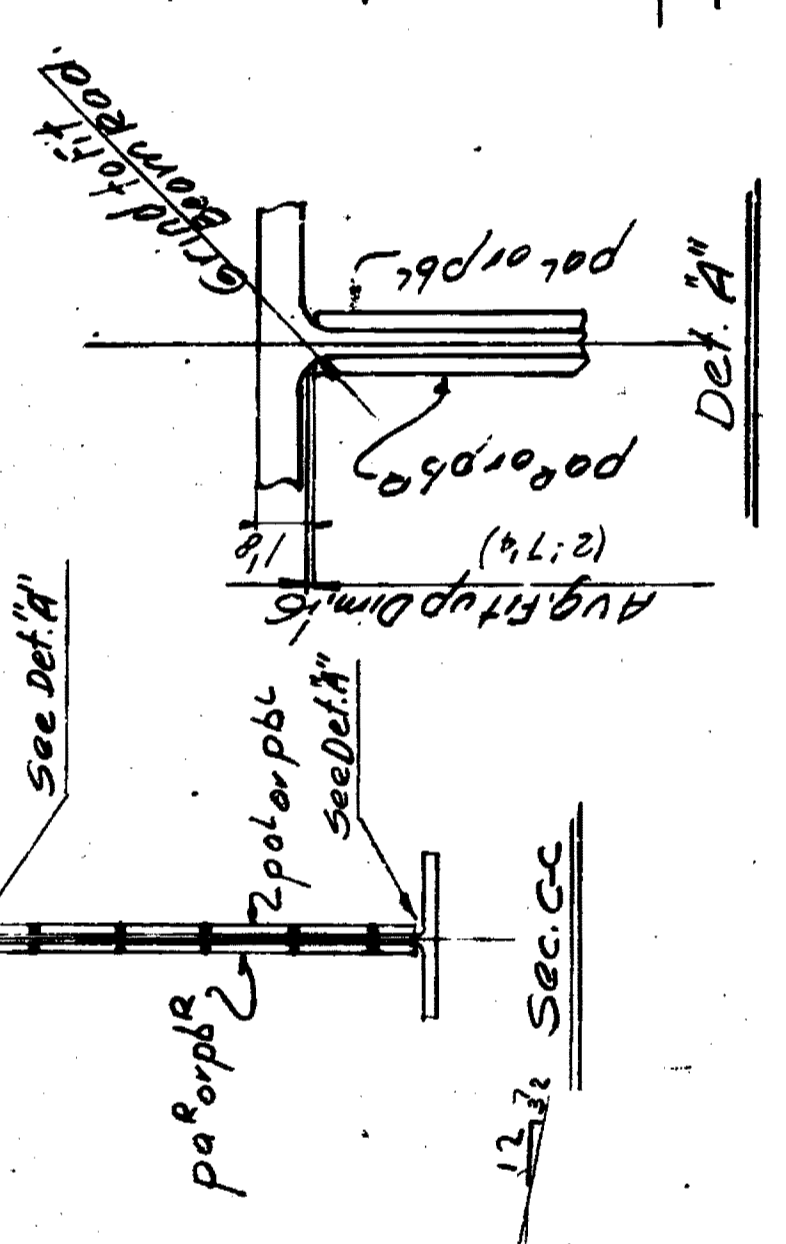


Bore 1/2" Hole for 4" Pin.
Pin Hole to be ASA #12.
Apply one coat white lead to follow to FIN SURFACE.

Bore 1/2" Hole for 4" Pin.
Pin Hole to be ASA #12.
Apply one coat white lead to follow to FIN SURFACE.

The steel shall be...
including the complete bottom...
High Strength Steel...
Surface Preparation...
Class 'No. 10 Near-White Blast Cleaning'...
ASME B7.1 as soon after fabrication...
as possible.

Gen. Notes:-
Specs. Michigan State Specs. 1967 For
Road & Bridge Construction & Special
Provisions.
Material: ASTM-A441 Mod. (Cor-Ten) 1/2" UN.
Open Holes: 1/2" UN.
Welding: AWS SPEC. PROVISIONS - USE E70XX LK ELECTRODES
OR F100XX UP TO 1/4" PL THICKNESS COMBINATION
as possible.
Paint: NO
SNIPS - TYP. 1/2" x 1/2"
Comber: Camber is to be measured with
the beam lying on its side. Allowable
Comber Tolerance is 1/4" per 100'. Heat is to be
used if necessary to assure
camber permanency.
Open Holes are for High Strength Structu-
ral Bolts U.N.F.

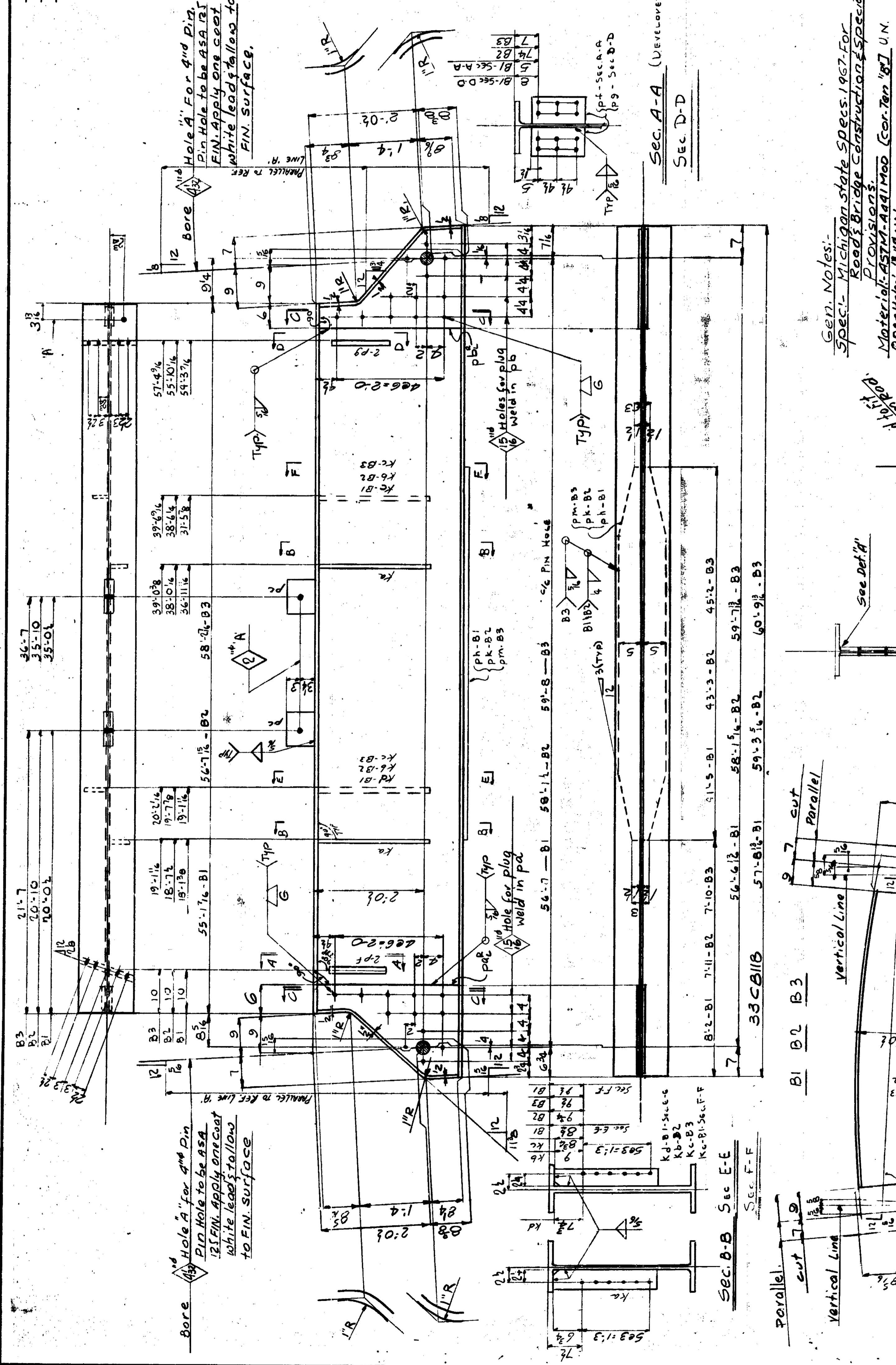


Cutting & Camber Diagram.

MICHIGAN DEPT. OF STATE HIGHWAYS
BRIDGE NO. OF 212X
EVENING ROAD OVER I-96
(REVERED OVERPASS)
DETROIT (WAYNE COUNTY) MICHIGAN
Beam & Span # 10
American Bridge
Division of
United States Steel
Manufactured by: Gary
Drawing No. Gary # 2
Date: 10-26-69
Checked by: A.L.K. W.L.G. (S) (S)
In Charge: Augustine
K2828 605

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MINIMUM DEPT. OF STATE HIGHWAYS
 BRIDGE NO. 101 OF 21222
 BRIDGE ROAD OVER I-80
 (EPPING FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

BEARINGS: **Spoan # 10**

American Bridge Division of **United States Steel**

MANUFACTURED BY: **SARY**

DESIGNED BY: **GARY # 2**

DATE: **7-26-59**

IN CHARGE OF: **Augenshine # 5559**

DRAWING NO. **K2828**

SHEET NO. **606**

Gen. Notes:
 SPEC. - Michigan State Specs. 1967-For
 Road & Bridge Construction Special
 Provisions.
 Materials: ASTM-A441M00 (Cor-Ten '81) U.N.
 Open Holes: A-4 U.N.
 Welding: AWS & SPECIAL PROVISIONS-USE E70XX L.H. ELECTRODES
 OR E71-XXXX OR F72-XXXX FLUX ELECTRODE COMBINATIONS
 Paint: NO
 SNIPS - TYP. 1 1/2" x 1 1/2"
 Camber: Camber is to be measured with
 the beam lying on its side. Allowable
 Camber Tolerance is 1/4" Heat is to be
 used if necessary to assure
 camber permanency.
 Open Holes are for High Strength Struc-
 tural Bolts U.N.H.
 All steel shall be handled carefully and
 shall be kept free and clean of all foreign
 materials such as grease, oil, chalk marks,
 etc.
 All shipping marks shall be made using a
 steel die.
 The founding of concrete will not be re-
 quired.

Det. A'

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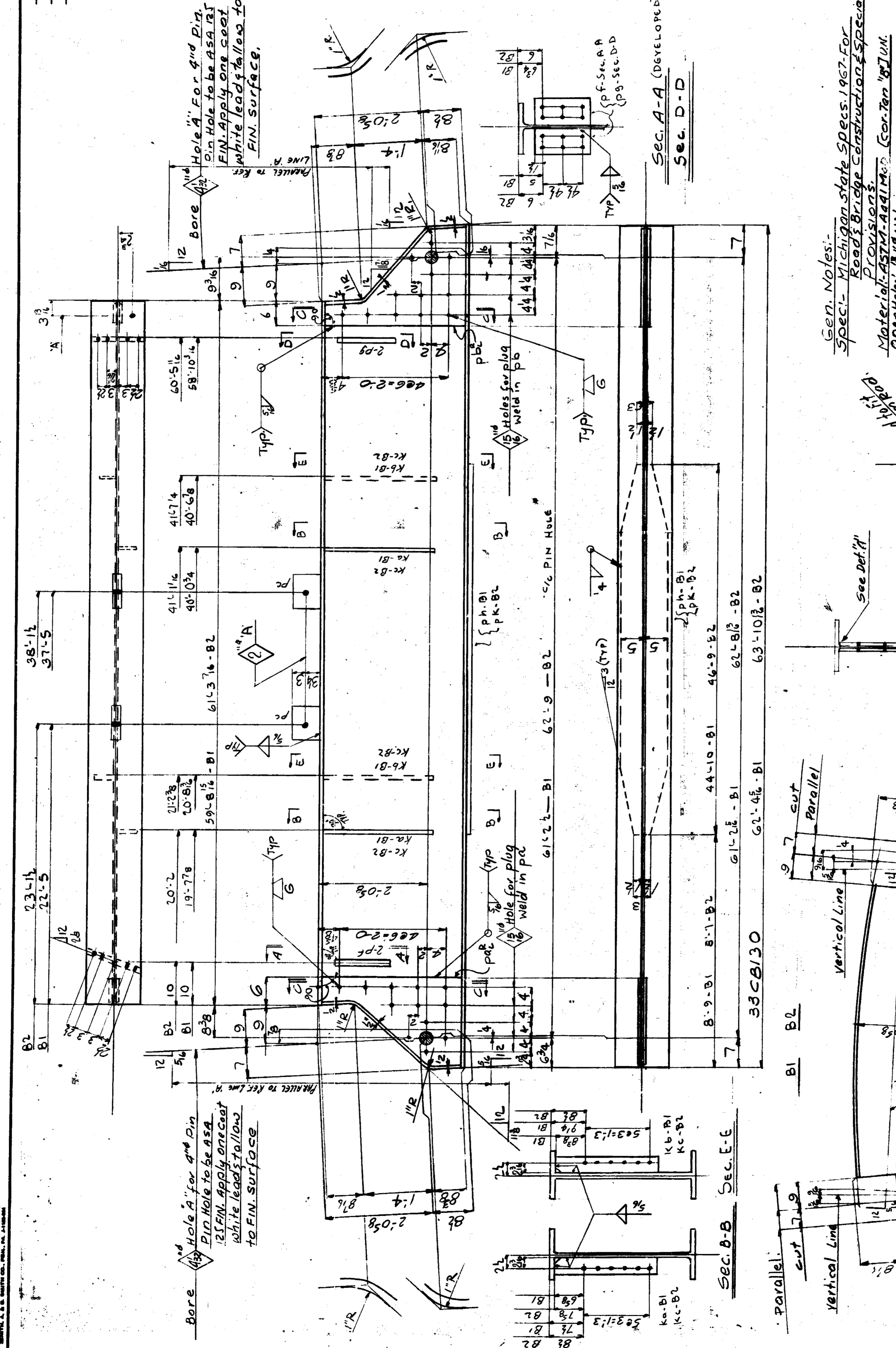
cut 97
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cut 100
cut Parallel

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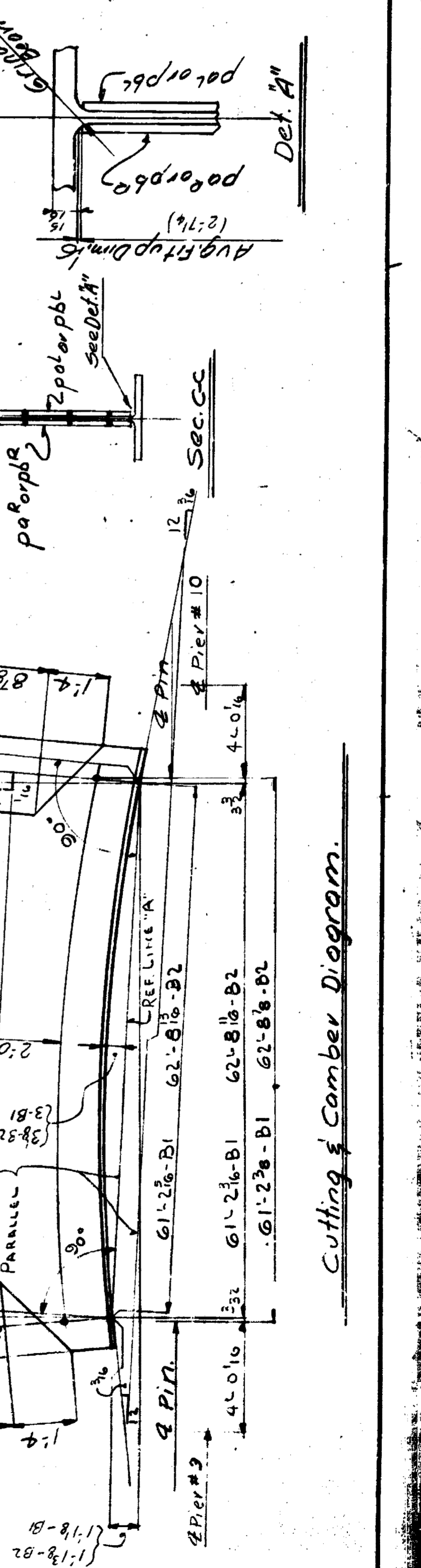


MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. OF 8722M
 GREENSBORO ROAD, OAKMAN
 (N. B. GREENWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

BEAM & SPAN # 10
 American Bridge Division of United States Steel
 PRODUCED UNDER THE AGENCY OF
 ENGINEER: GARY # 2
 DATE: 1-26-50
 CHECKED BY: GARY # 2
 NUMBER OF SHEETS: 10
 SHEET NO. 10
 PROJECT NO. K2828

SPEC. - Michigan State Specs. 1967-For
 Road & Bridge Construction & Special
 Provisions.
 Material: ASTM-A41M. Cor. Ten. 88TUM.
 Open Holes: 1/2" UN.
 Welding: AWS 5 Special Positions. Use E70XX L.H. Electrodes
 OR F70-XXXX OR F70-XXXX Flux & Electrode Combinations
 Paint: NO
 SNIPS: TYP 12"x12"
 Camber: Camber is to be measured with
 the beam lying on its side. Allowable
 Camber tolerance is 1/4". Heat is to be
 used if necessary to assure
 camber permanency.
 Open Holes are for High Strength Struc-
 tural Bolts U.S. # 4

All steel shall be handled carefully and
 material kept free and clean of all foreign
 matter, dirt, scale, oil, chalk marks,
 crayon marks, etc.
 All shipping marks shall be made using a
 steel die.
 Counting of corners will not be re-
 quired.



Cutting & Camber Diagram.

LINE NO.	DESCRIPTION	QUANTITY	UNIT	DATE	BY	REVISION
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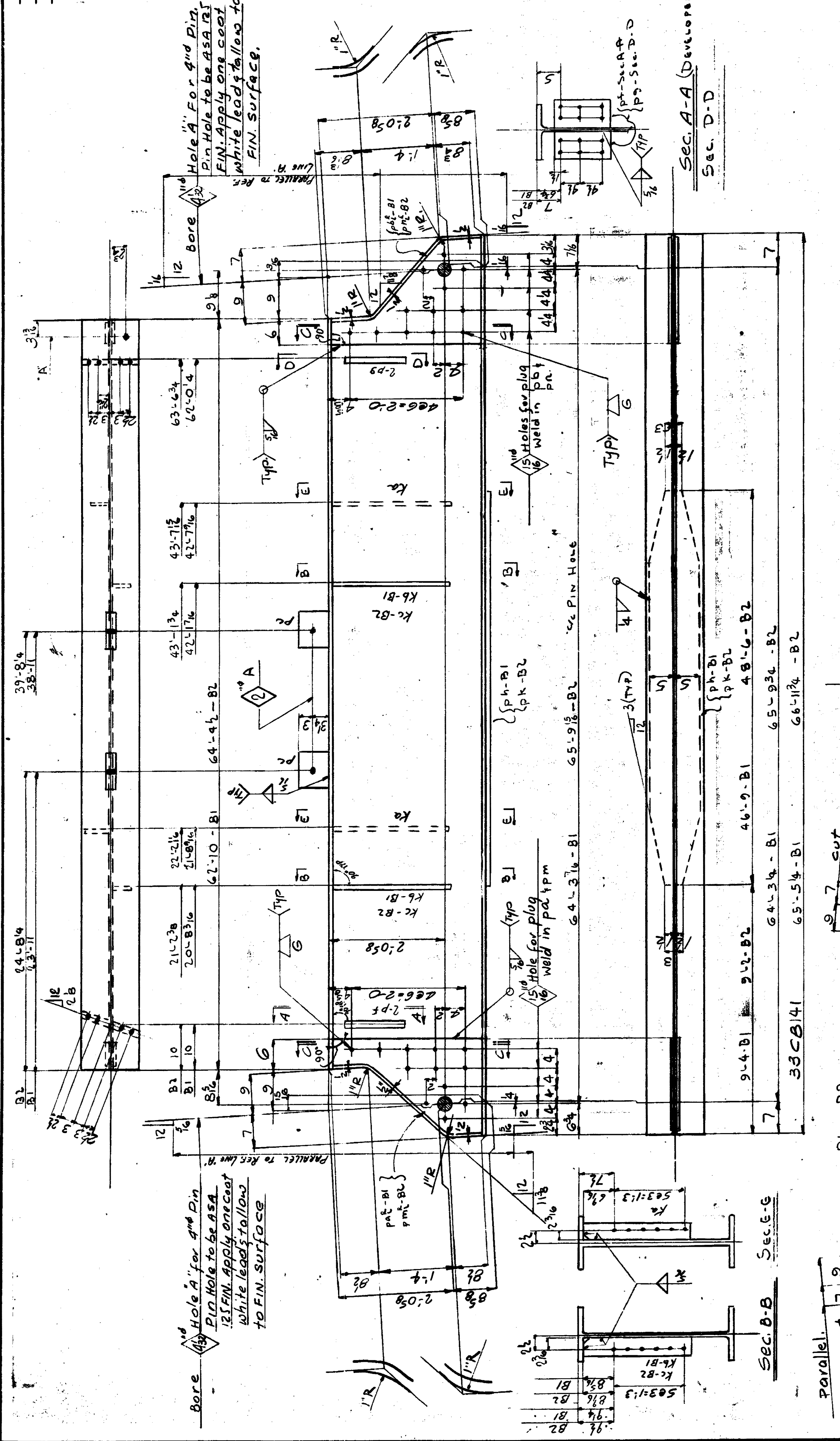
MICHIGAN DEPT OF STATE HIGHWAYS
 BRIDGE NO. OF 8212N
 EVERGREEN ROAD OVER I-96
 (LEATHERS FREEWAY)
 DETROIT (WAYNE COUNTY) MICHIGAN

Beam # 10
 Span # 10

American Bridge Division of United States Steel

PREPARED BY: Gary # 2
 DATE: 2-6-69
 CHECKED BY: Gary # 2
 DATE: 2-6-69
 IN CHARGE OF: Augenstein # 5559

PROJECT NO. K2828
 SHEET NO. 608

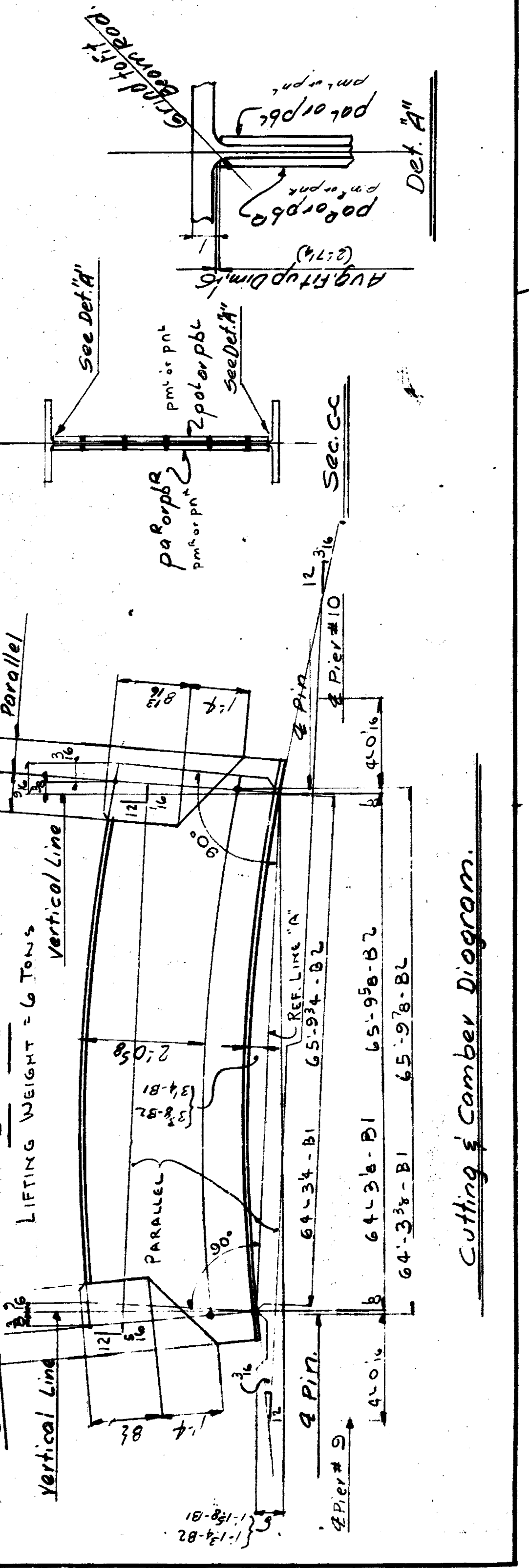


Gen. Notes:
 Spec. Michigan State Specs. 1967 For
 Road Bridge Construction & Special
 Provisions.

Material: ASTM A41300 (Cor-Ten "B" U.I.)
 Openholes: 1/2" U.I.
 Welding: AWS E70XX
 Painting: NO
 SNIPS: Typ. 1/2" x 1/2"

Comber: Camber is to be measured with
 the beam lying on its side. Allowable
 camber tolerance is 1/4". Heat is to be
 used if necessary to assure
 camber permanency.
 Open Holes are for High Strength Struc-
 tural Bolts U.I. # 1.

All steel shall be handled carefully and
 shall be kept free and clean of all foreign
 matter, grease, oil, chalk marks,
 crayon marks, dirt, etc.
 All shipping marks shall be made using a
 steel die.
 The rounding of corners will not be re-
 quired.



MICHIGAN DEPT. OF STATE HIGHWAYS
BRIDGE NO. OF 82122K
EVERGREEN ROAD OVER I-96
DETROIT, (WAYNE COUNTY) MICHIGAN

Beam # 1 & Span # 10

Division of
American Bridge
United States Steel

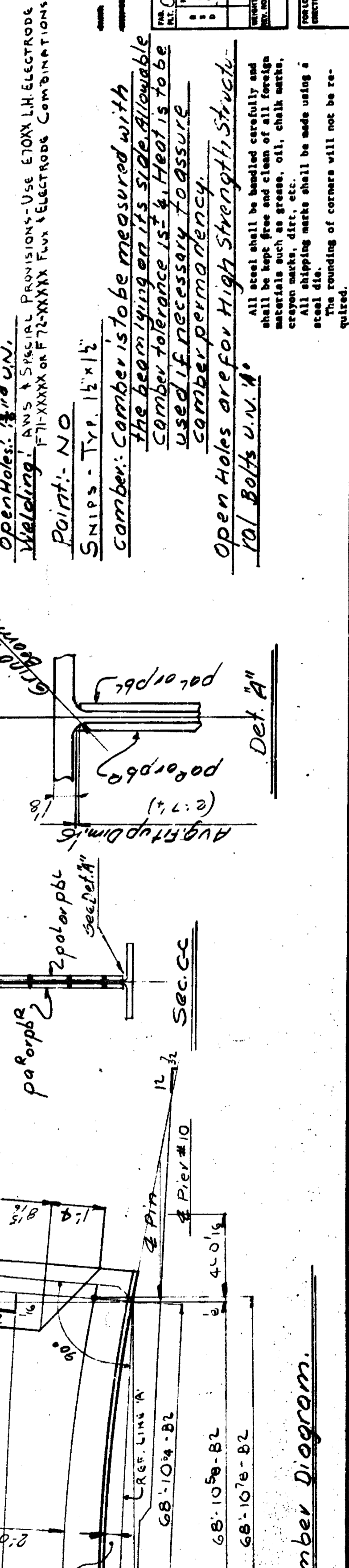
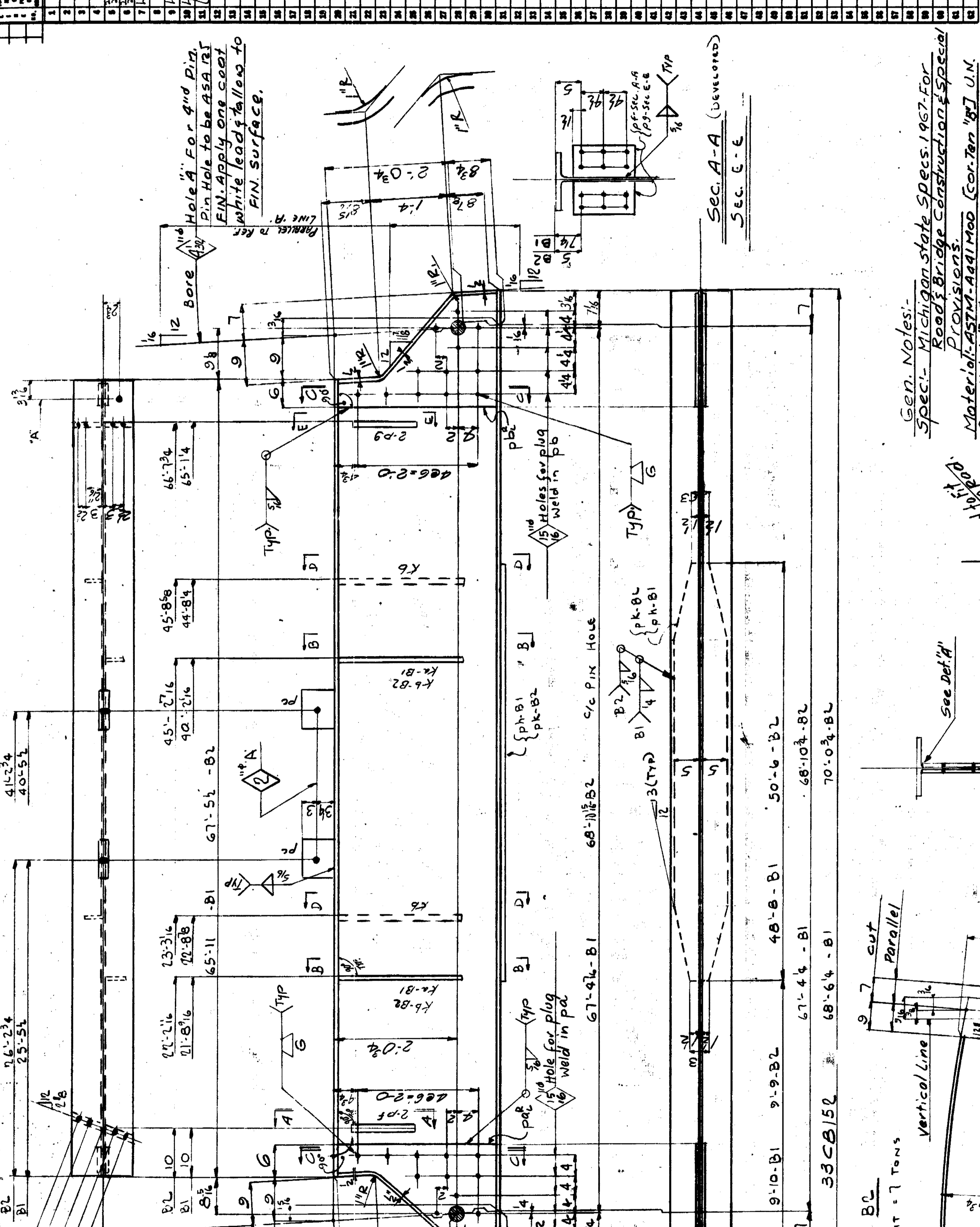
PREPARED BY: Gary # 2
DATE: 2/2/50

IN CHARGE OF: Augenstine # 5559

NO. 609
K2828

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATE	DATE	MATERIAL				CALCULATED WEIGHT	ITEM
						TYPE	GRADE	SIZE	NO.		
1	Beam	1	LF			Beam	24	44	4	691.8	
2	PL	2	SQ			PL	14	10	1	226.8	
3	PL	2	SQ			PL	14	10	1	226.8	
4	PL	2	SQ			PL	14	10	1	226.8	
5	PL	2	SQ			PL	14	10	1	226.8	
6	PL	2	SQ			PL	14	10	1	226.8	
7	PL	2	SQ			PL	14	10	1	226.8	
8	PL	2	SQ			PL	14	10	1	226.8	
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64	PL	2	SQ			PL	14	10	1	226.8	
65	PL	2	SQ			PL	14	10	1	226.8	
66	PL	2	SQ			PL	14	10	1	226.8	
67	PL	2	SQ			PL	14	10	1	226.8	
68	PL	2	SQ			PL	14	10	1	226.8	
69	PL	2	SQ			PL	14	10	1	226.8	
70	PL	2	SQ			PL	14	10	1	226.8	

Gen. Notes:
Spec. - Michigan State Specs. 1967 For Road & Bridge Construction & Special Provisions.
Material: ASTM-A31 Mod. (Cor. Ten '89) U.S. Welding. AWS A5.1 Spec. PRESENTATION - USE STOKER ELECTRODES OF EQUAL OR BETTER QUALITY.
Paint: NO
SNIPS - Typ. 1 1/2" x 1 1/2"
Camber: Camber is to be measured with the beam lying on its side, allowable camber tolerance is 1/4". Heat is to be used if necessary to assure camber permanency.
Open Holes are for High Strength Structural Bolts u.n. # 4.
All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, crayon marks, dirt, etc.
All shipping marks shall be made using a permanent marking machine.
The rounding of corners will not be required.



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	Beam	1	LF
2	PL	2	SQ
3	PL	2	SQ
4	PL	2	SQ
5	PL	2	SQ
6	PL	2	SQ
7	PL	2	SQ
8	PL	2	SQ
9	PL	2	SQ
10	PL	2	SQ
11	PL	2	SQ
12	PL	2	SQ
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69	PL	2	SQ
70	PL	2	SQ

NO. 609
K2828

MICHIGAN DEPT. OF STATE HIGHWAYS
BRIDGE NO. OF 82122K
EVERGREEN ROAD OVER I-96
DETROIT, (WAYNE COUNTY) MICHIGAN

Beam # 1 & Span # 10

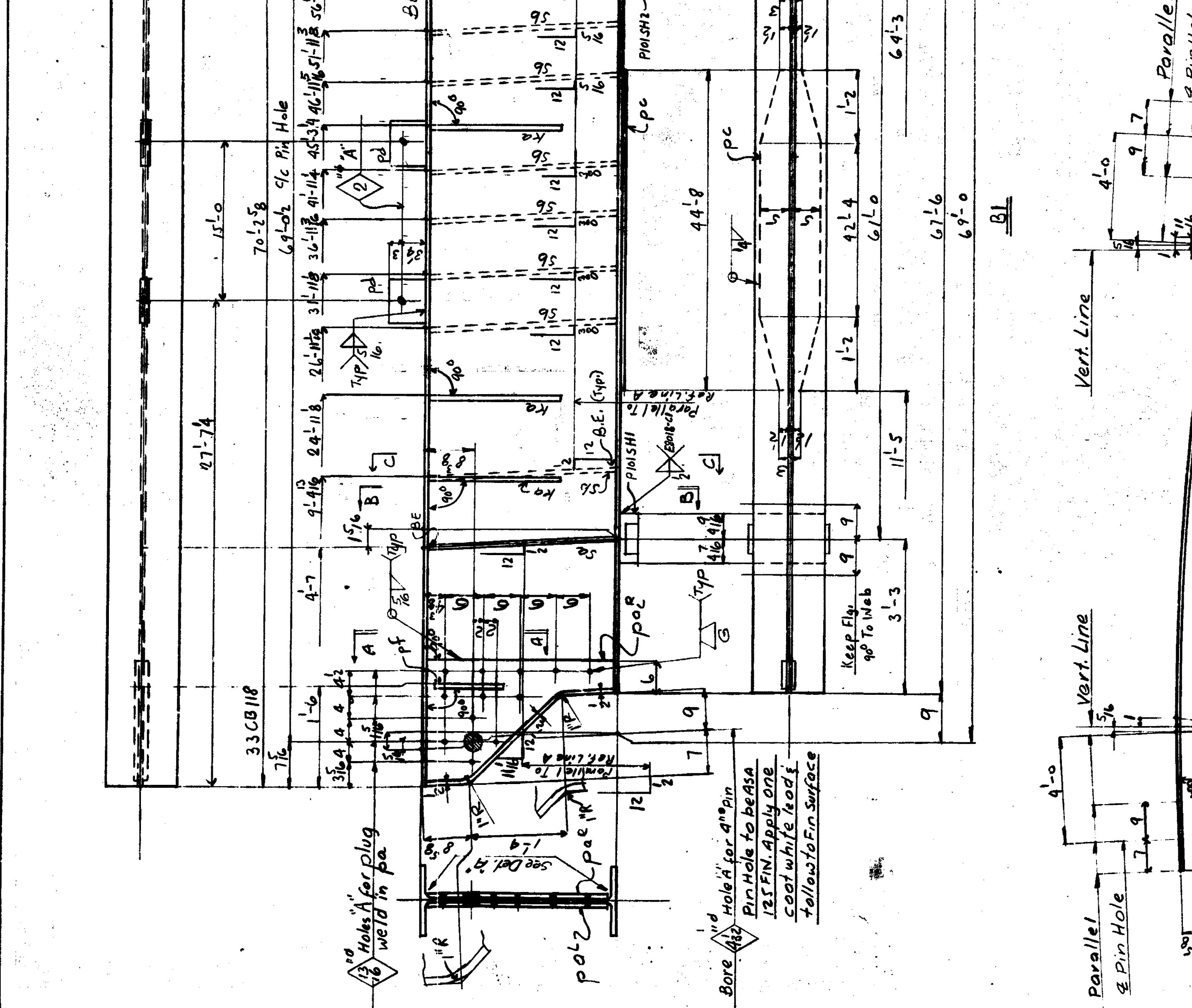
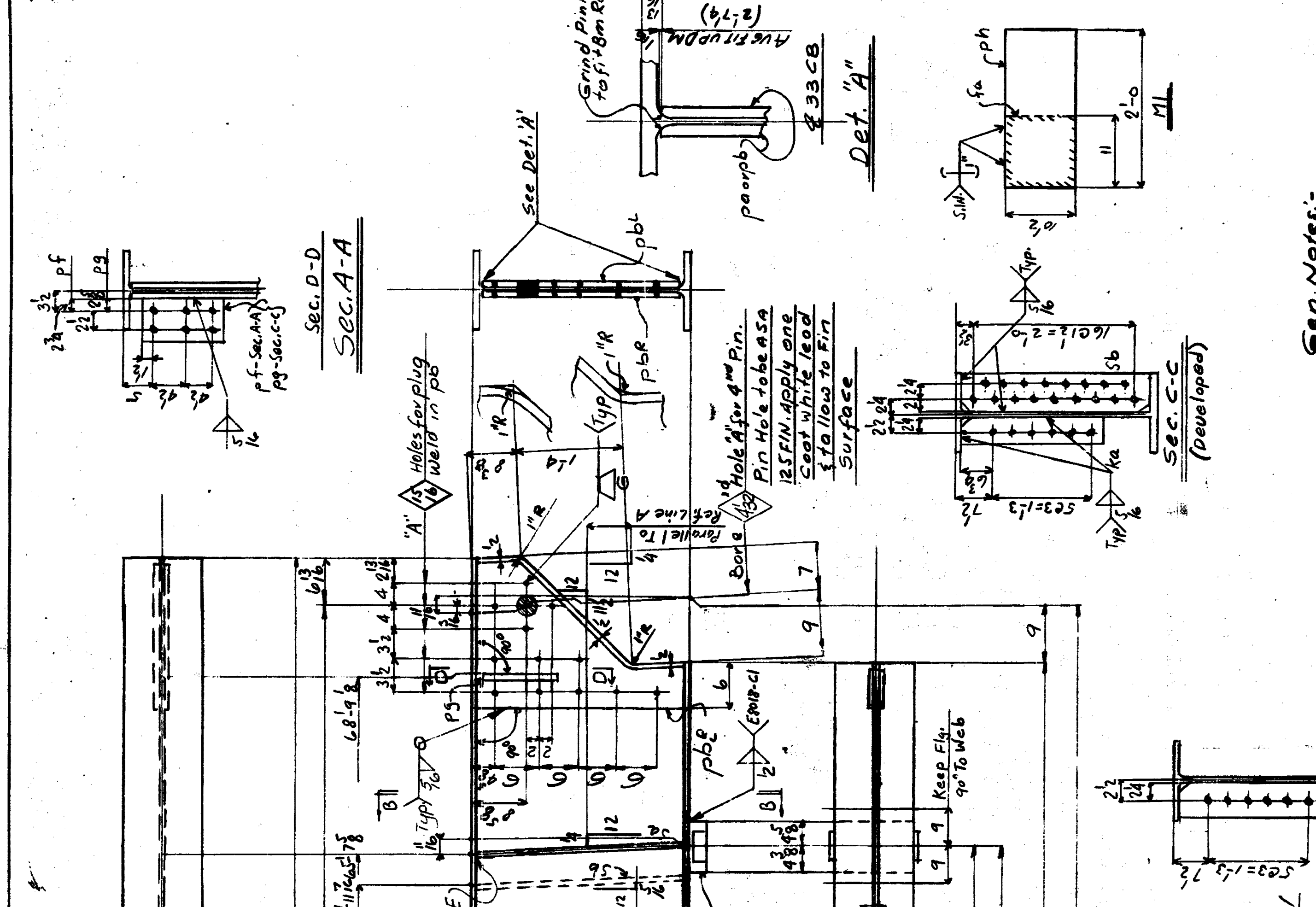
Division of
American Bridge
United States Steel

PREPARED BY: Gary # 2
DATE: 2/2/50

IN CHARGE OF: Augenstine # 5559

NO. 609
K2828

NO.	DESCRIPTION	QTY.	UNIT	WEIGHT	MARKING	REMARKS
1	BEAM	1	EA	70.1		
2	1 LB 33/118	2	EA			
3	1 PL 20 5/8	2	EA			
4	1 PL 10 3/4	4	EA			
5	1 M Top Shoe	2	EA			
6	1 M Top Shoe	2	EA			
7	1 FGT 6 1/2	2	EA			
8	1 FGT 3 1/2	2	EA			
9	1 FGT 1 3/4	2	EA			
10	3 FEET 3/4	2	EA			
11	8 FEET 1/2	2	EA			
12	11 PL 1/2 x 7	20	EA			
13	11 STR 1/2 x 7	20	EA			



NO.	DESCRIPTION	QTY.	UNIT	WEIGHT	MARKING	REMARKS
14	STAY PLATE	2	EA			
15	11 PL 1/2 x 7	20	EA			
16	11 STR 1/2 x 7	20	EA			

Spec. Michigan State Spec. 1967, For Road & Bridge Construction Special Provisions
Material - ASTM - A992 Mod. (Con. Ten 85) UN.
Open Holes - 3/8 UN.
Welding - AWS & Special Provisions
 Use E 7011 Low Hydrogen Electrode or E 7018 or E 7024
Paint - NO
Camber - Camber is to be measured with the beam lying on its side. Allowable Camber Tolerance is 1/8". Heat is to be used if necessary to assure camber permanence.
Open Holes are for High Strength Structural Bolts UN "A" B.E. Denotes Bearing End Clip Sl. S. S.

Michigan Dept. of State Highways
 Bridge No. of 8222R
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

American Bridge Division
 Gary, Ind.
 Gary, Ind.
 Gary, Ind.
 Gary, Ind.

K 2828

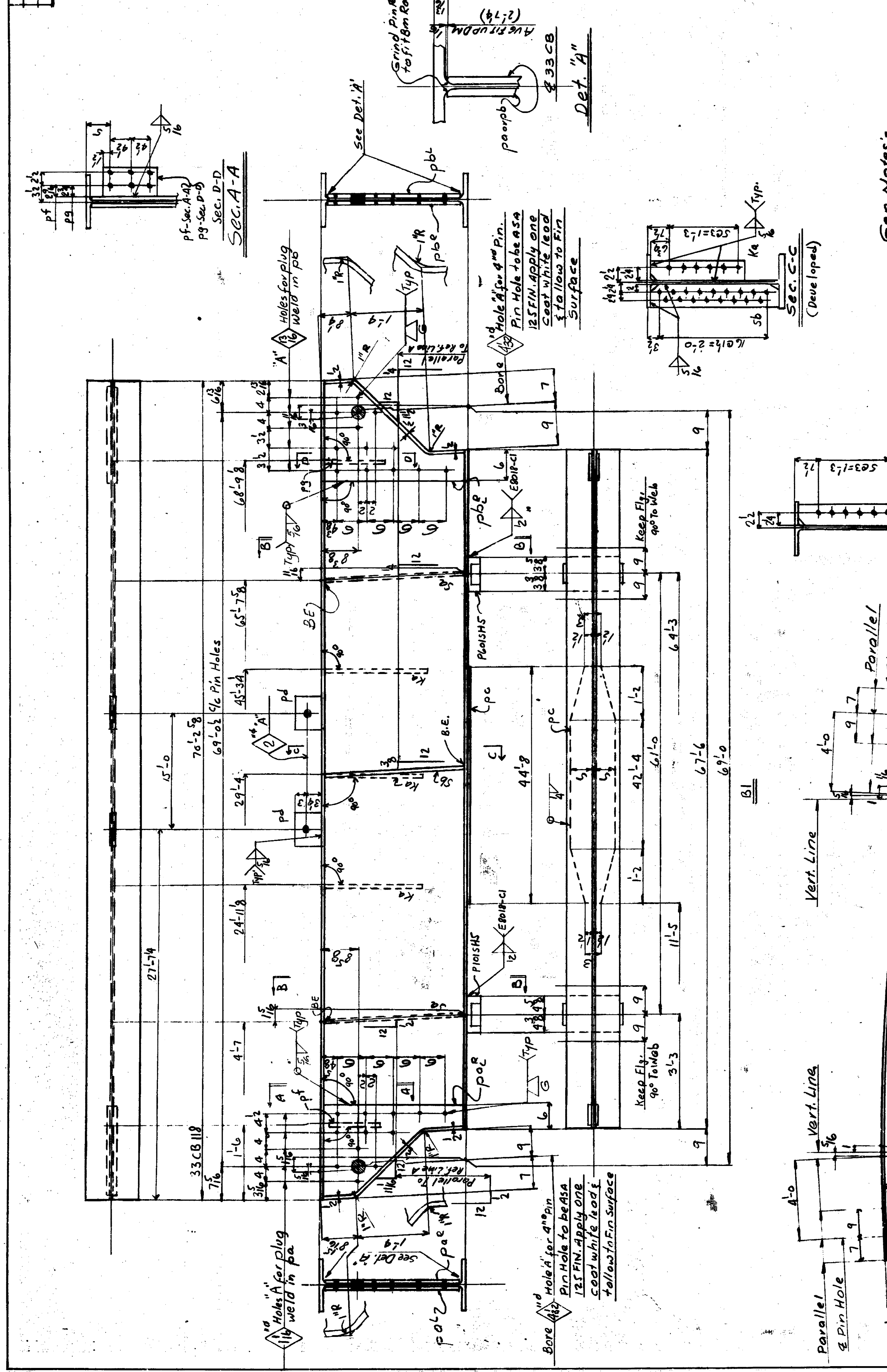
Gen. Notes:
 All steel shall be handled carefully and shall be kept free from grease, oil, chalk marks, crayon marks, dirt, etc.
 All shipping marks shall be made using a steel die.
 The rounding of corners will not be required, as possible.

The far side of B and the near side of C including the complete section of the beam shall be flat. In accordance with the flatness specification in Council Surface Preparation Specification, Section 10.10, Near-White Blast Cleaning, SSPC-SP 10-45 as soon after fabrication as possible.

Section B-B (Developed)

Section C-C (Developed)

Item No.	Quantity	Material	Remarks	Lot No.
1				
2	1	GLEAM		
3	1	CG 33	IP	7023
4	2	PL	2 7/8	2 7/8
5	2	PL	2 7/8	2 7/8
6	1	PL	2 7/8	448
7	2	PL	2 7/8	5
8	1	M	1/4	1 0
9	1	M	1/4	1 0
10	1	PL	2 7/8	1 0
11	1	PL	2 7/8	1 0
12	3	PL	2 7/8	1 0
13	2	PL	2 7/8	1 0
14	1	PL	2 7/8	1 0
15	2	PL	2 7/8	1 0
16				
17				
18				
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Item No.	Quantity	Material	Remarks	Lot No.
1				
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Gen. Notes:-

Spec:- Michigan State Specs. 1967. For Road & Bridge Construction, Special Provisions.

Material:- ASTM-A441 Mod. (Co-Ten S) U.N.

Open Holes:- U.N.

Welding:- AWS Special Provisions

Paint:- NO

USE E70XX Low Hydrogen Electrode.

Paint:- NO

Camber:- Camber is to be measured with the beam lying on its side. Allowable Camber Tolerance is ±0.03". Heat is to be used if necessary to assure camber permanency.

Open Holes are for High Strength Structural Bolts U.N. B.E. Details Bearing End

Clip Stiffeners

Michigan DEPT. OF STATE HIGHWAYS
 BRIDGE NO. 2122K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Beam & Span # 11

American Bridge Division of United States Steel

Consulting Engineer: Gary E

Drawn by: Gary E

CHECKED BY: Gary E

DATE: 8-25-69

PROJECT NO: 555-9

PROJECT NAME: K 2828

6/1

Fig. E8

Vertical Line

Vertical Line

Parallel & Pin Hole

Parallel & Pin Hole

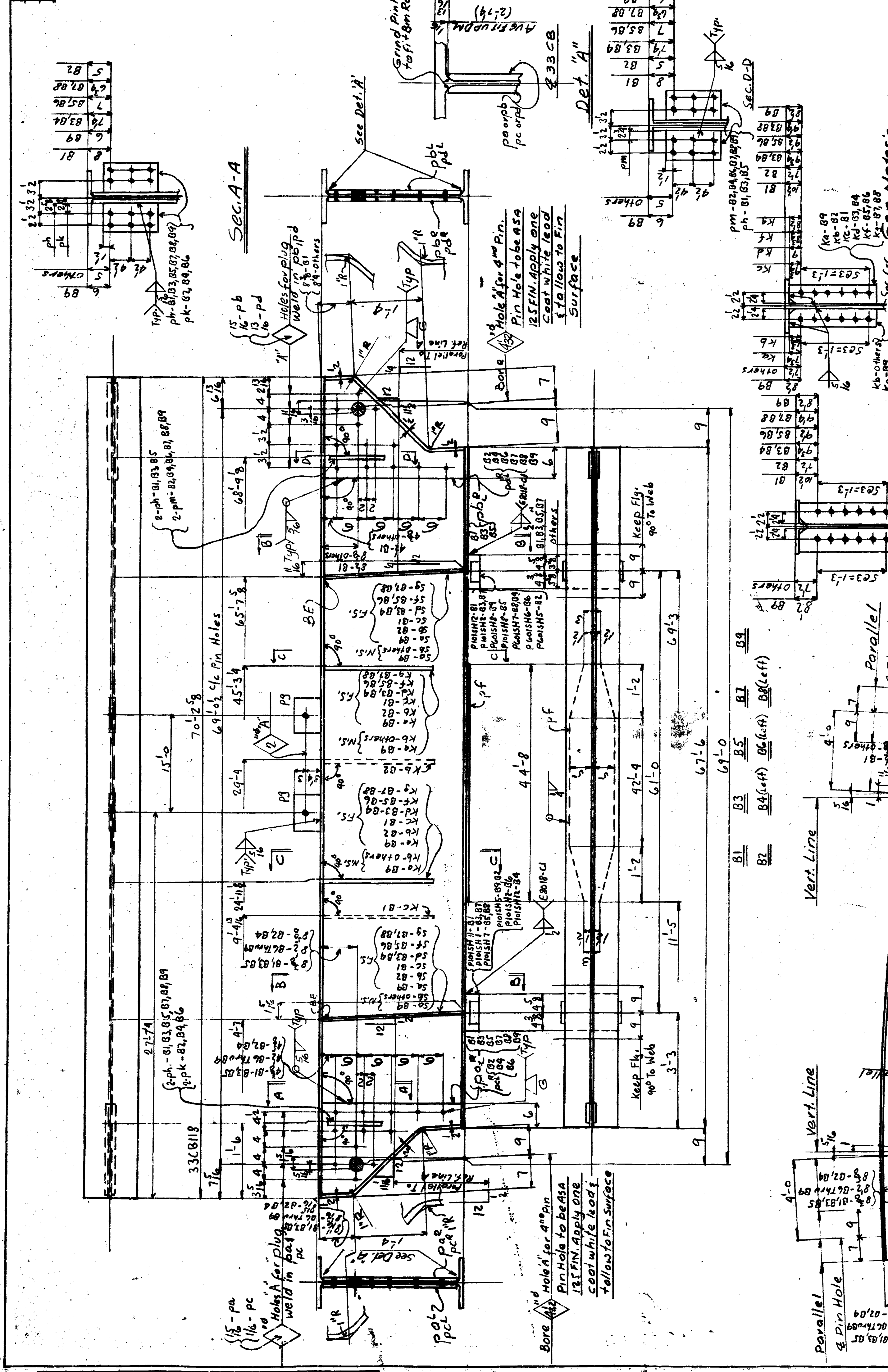
Ref. Line A

D.L. Exp. S

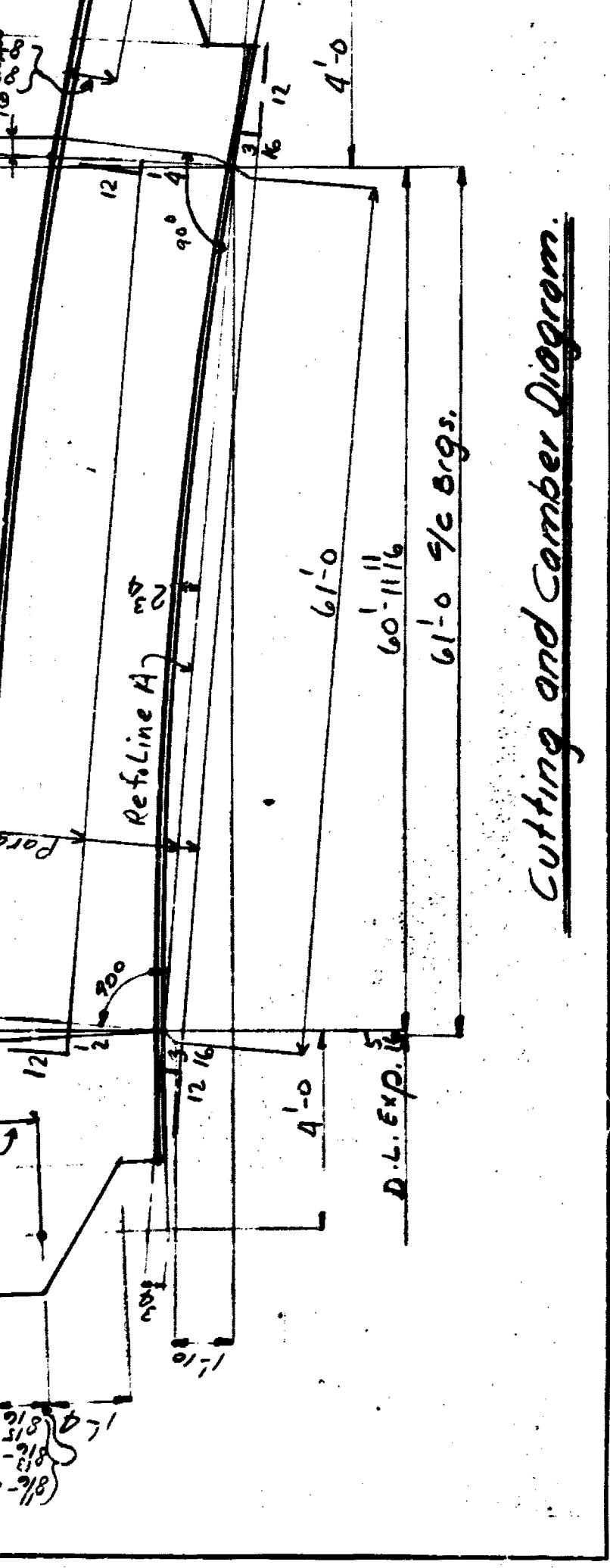
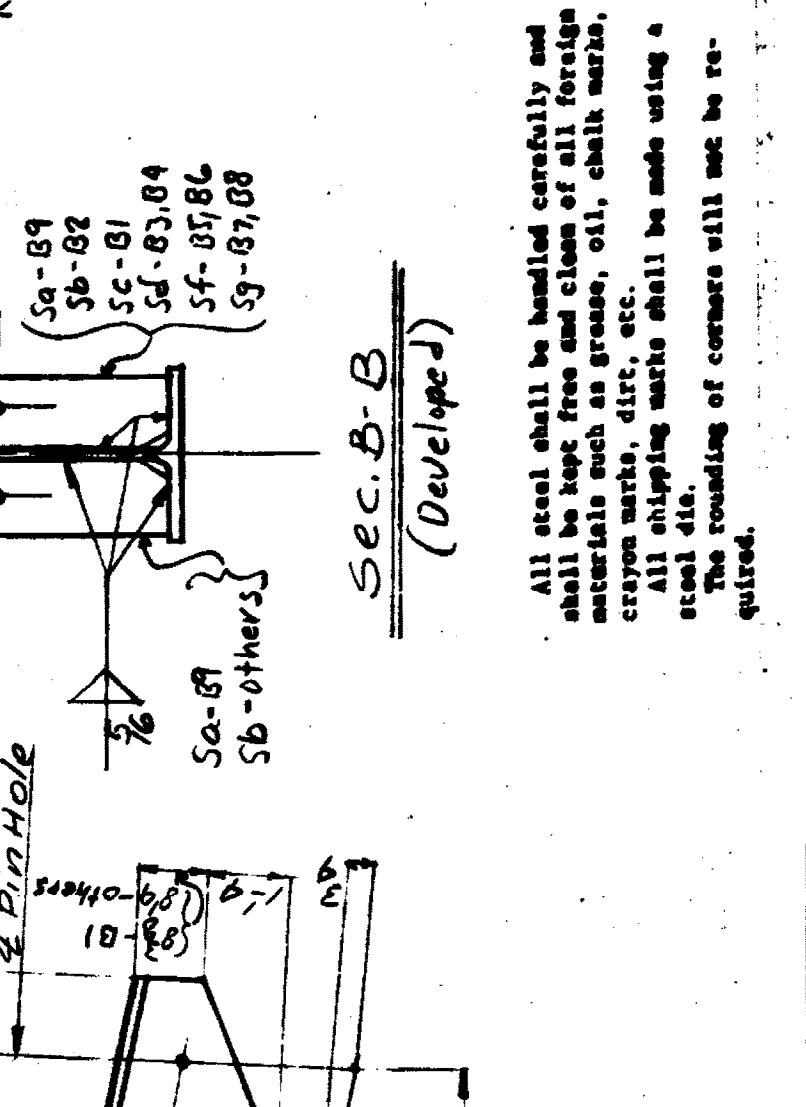
The far side of and the near side of B1 including the complete bottom flange, shall be blast cleaned in accordance with structural steel specifications. Council on Bridge and Building, Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design, Allowable Stress Design and Plastic Design, Section 5.4.2, Blast Cleaning, SSPC-20-63 as soon after fabrication as possible.

All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, crayon marks, dirt, etc. All shipping marks shall be made using a sharp pencil. The marking of centers will not be required.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATE NO.	DATE
1	BEAM	612.81	70'		
2	BEAM	612.81	70'		
3	BEAM	612.81	70'		
4	BEAM	612.81	70'		
5	BEAM	612.81	70'		
6	BEAM	612.81	70'		
7	BEAM	612.81	70'		
8	BEAM	612.81	70'		
9	BEAM	612.81	70'		
10	BEAM	612.81	70'		
11	9 CB 3.3 11.9	70			
12	12 PL 2.5 5	219			
13	6 PL 2.5 5	219			
14	6 PL 2.5 5	219			
15	12 PL 2.5 5	219			
16	12 PL 2.5 5	219			
17	9 PL 2.5 5	219			
18	2 M 1.5 5.5	448			
19	2 M 1.5 5.5	448			
20	2 M 1.5 5.5	448			
21	3 M 1.5 5.5	448			
22	2 M 1.5 5.5	448			
23	2 M 1.5 5.5	448			
24	2 M 1.5 5.5	448			
25	2 M 1.5 5.5	448			
26	2 M 1.5 5.5	448			
27	1 M 1.5 5.5	448			
28	18 FT 6.5 2	8			
29	18 FT 6.5 2	8			
30	6 FT 6.5 2	10			
31	12 FT 6.5 2	10			
32	4 FT 6.5 2	219			
33	18 FT 6.5 2	219			
34	2 FT 6.5 2	219			
35	4 FT 6.5 2	219			
36	4 FT 6.5 2	219			
37	4 FT 6.5 2	219			
38	4 FT 6.5 2	219			
39	19 FT 6.5 2	119			
40	4 FT 6.5 2	219			
41	4 FT 6.5 2	219			
42	4 FT 6.5 2	219			
43	4 FT 6.5 2	219			
44	3 FT 6.5 2	219			
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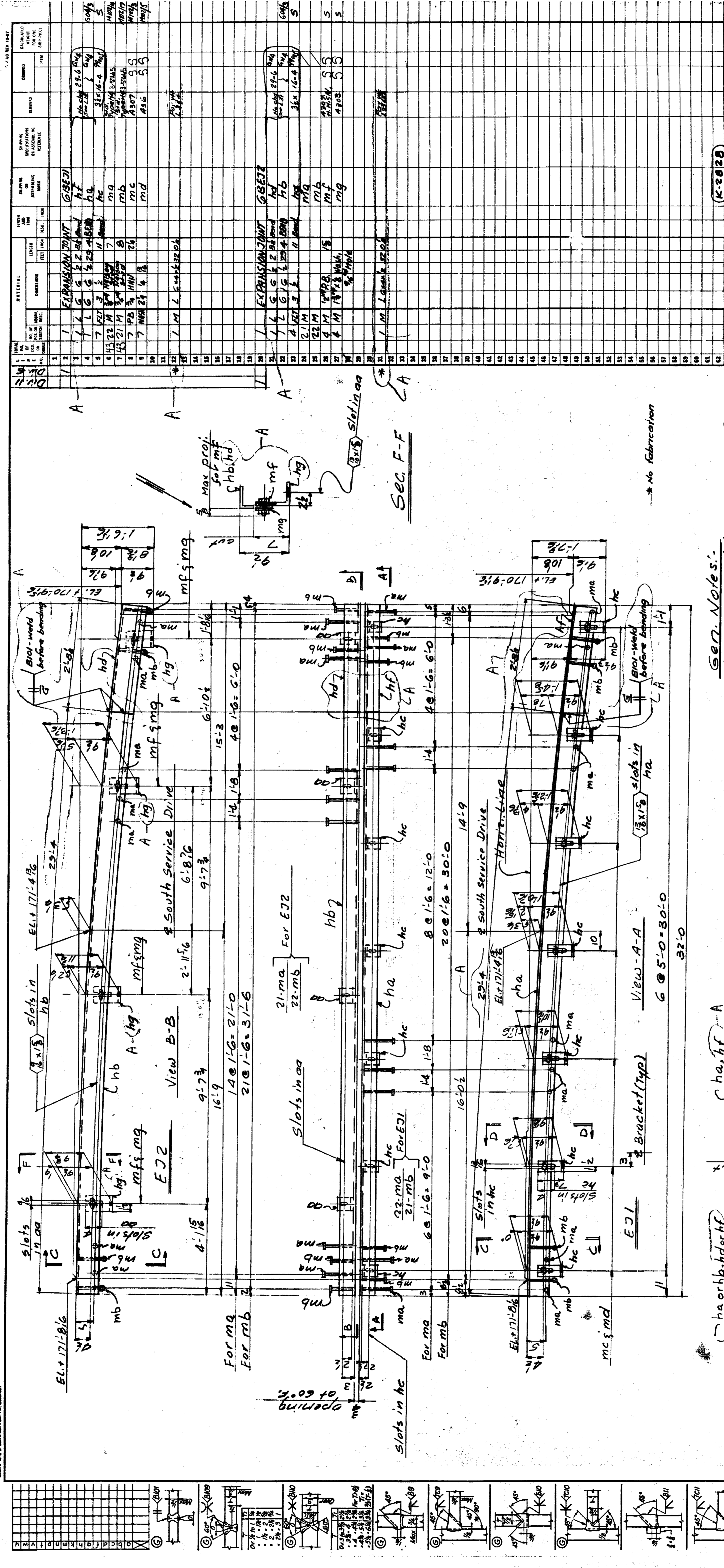


Spec.: Michigan State Specs. 1967, For Road & Bridge Construction Special Provisions
Material: ASTM-A36 Steel (See Item 8) U.N.
Open Holes: 1/2" Min.
Welding: AWS Special Provisions
Paint: No
Camber: Camber is to be measured with the beam lying on its side. Allowable Camber Tolerance is $\pm .5\%$. Heat is to be used if necessary to assure camber permanency.
Open Holes are for High Strength Structural Bolts U.N. A 36 Domes, Security End
 Clip St. 1/2 x 1/2"



ESTIMATE NO.	612
DATE	
BY	GARY #2
CHECKED BY	GARY #2
DATE CHECKED	7/11/59
APPROVED BY	AUGERINE #559
DATE APPROVED	7/11/59
SCALE	1/4" = 1'-0"

ALL steel shall be heath-treated to the required temper and shall be furnished with all the necessary markings, such as grade, oil, chalk marks, crayon marks, dirt, etc.
 All shipping marks shall be made using a steel die.
 Roundness of corners shall not be retained.



ITEM	QTY	DESCRIPTION	UNIT	REMARKS
1	1	EXPANSION JOINT		
2	1	EXPANSION JOINT		
3	1	EXPANSION JOINT		
4	1	EXPANSION JOINT		
5	1	EXPANSION JOINT		
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100	1	EXPANSION JOINT		

MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE 401 OF 222K
 EVERGREEN ROAD OVER I-96
 (JEFFRIES FREEWAY)
 DETROIT, (WAYNE COUNTY) MICHIGAN

Expansion Joint
 American Bridge
 Division of United States Steel Corporation

FABRICATED BY Gary #2
 WORK BY Gary #2
 IN CHARGE OF Augustine #5557

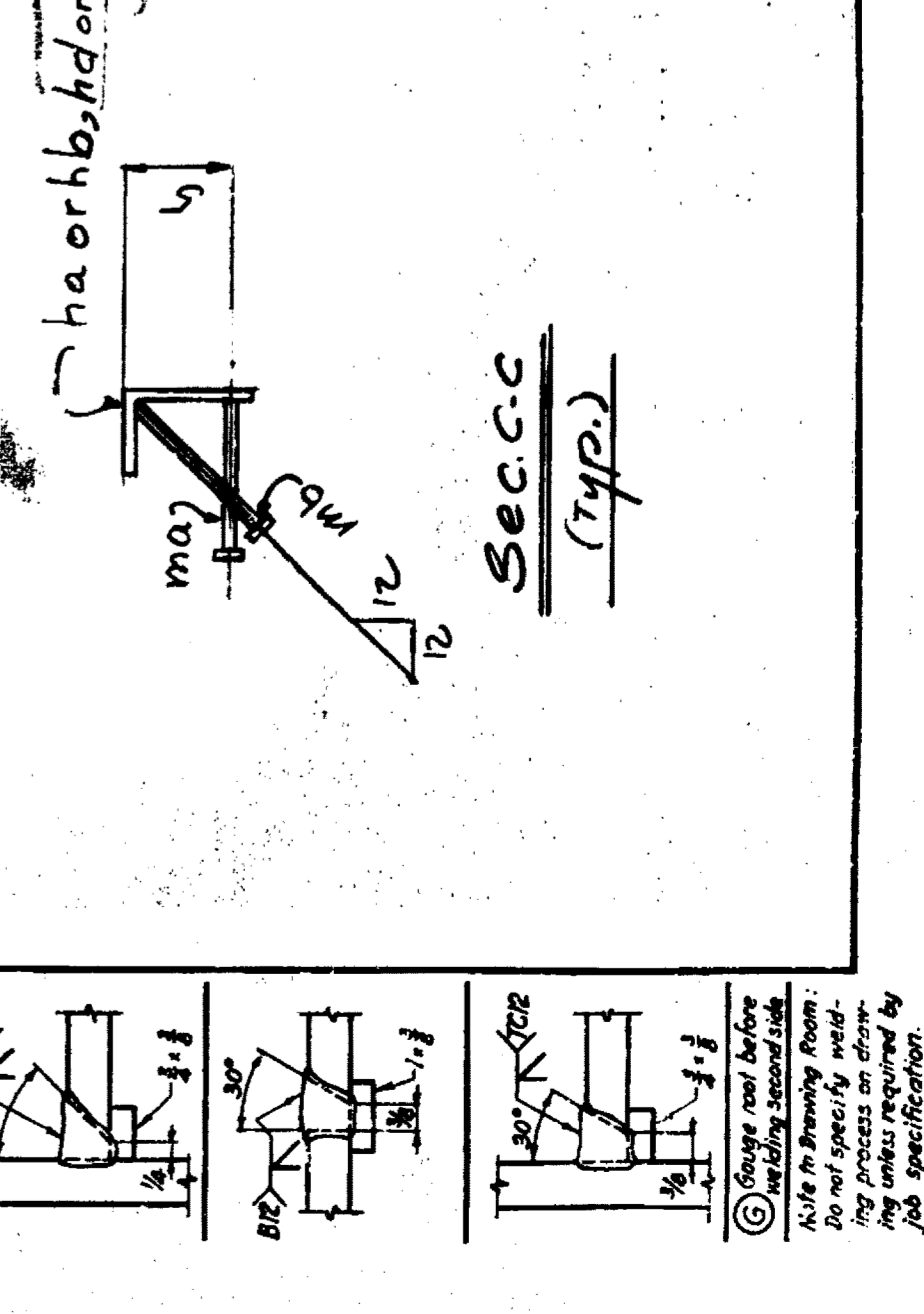
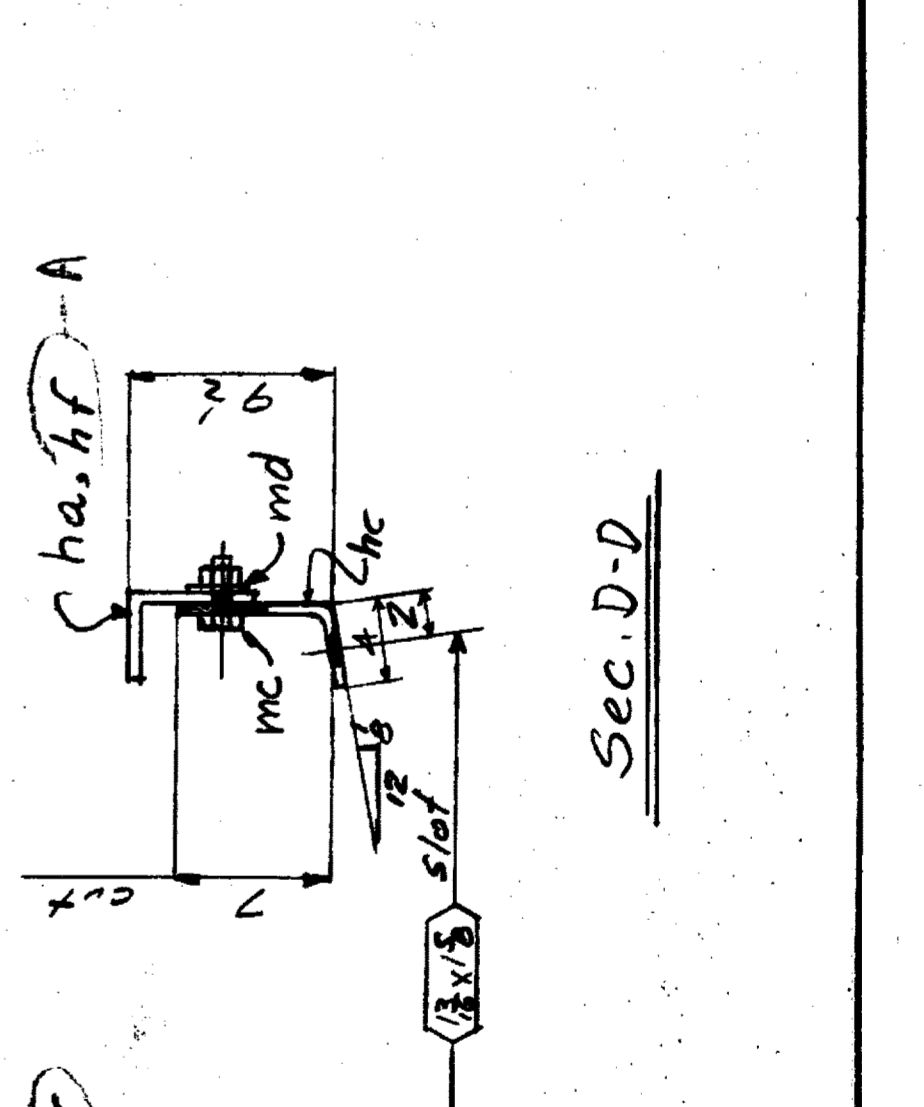
SHEET NO. K-2028
 SHEET 613

ORDER NO. EB \$ E11

Gen. Notes:
 Spec. Mich State Hwy Specs. for Road & Bridge Const. & Special provisions.
 Material: ASTM A572, modified carbon 58 UN.
 Openholes: As Noted
 Welding: Yes.
 Paint: None
 Shop Contact Surfaces: No

All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, etc.
 All shipping marks shall be made using a steel die.
 The rounding of corners will not be required.

Shop Note: Bend has hb, hd or hf together to the same profile



Section F-F diagram showing a detail of the expansion joint assembly. It includes a bracket and various components labeled with alphanumeric codes.

ITEM NO.	QTY	DESCRIPTION	MATERIAL	SPECIFICATIONS OR TOLERANCES	REMARKS	DATE	BY	CHECKED	APPROVED	MATERIAL		FINISH		REVISIONS
										TYPE	SIZE	TYPE	SIZE	
1	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/24								
2	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
3	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
4	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
5	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
6	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
7	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
8	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
9	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
10	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
11	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
12	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
13	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
14	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
15	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
16	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
17	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
18	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
19	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
20	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
21	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
22	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
23	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
24	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
25	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
26	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
27	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
28	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
29	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
30	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
31	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
32	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
33	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
34	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
35	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
36	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
37	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
38	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
39	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
40	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
41	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
42	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
43	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
44	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
45	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
46	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
47	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
48	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
49	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
50	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
51	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
52	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
53	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
54	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
55	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
56	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
57	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
58	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
59	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
60	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								
61	1	TOP SHOE	1 RT 6 1/4	1/2 PEE	PA	10/23								
62	2	TOP SHOE	2 RT 6 1/4	1/2 PEE	PA	10/26								

DO NOT SHIP FROM THIS SHEET

K2828

MICHIGAN DEPT. OF STATE HIGHWAYS
 BRIDGE NO. OF 82122A
 EMERALD ROAD OVER I-96
 (JEFFRIES FREWAY) MICHIGAN
 DETROIT, (WAYNE COUNTY)

TOP SHOES - PIER 11 & 12
 American Bridge
 Division of United States Steel Corporation

MANUFACTURED BY: Gary
 DRAWN BY: Gary
 CHECKED BY: Gary
 IN CHARGE: Gary

DATE: 10-23-67

PROJECT NO. K2828

SHEET NO. P601

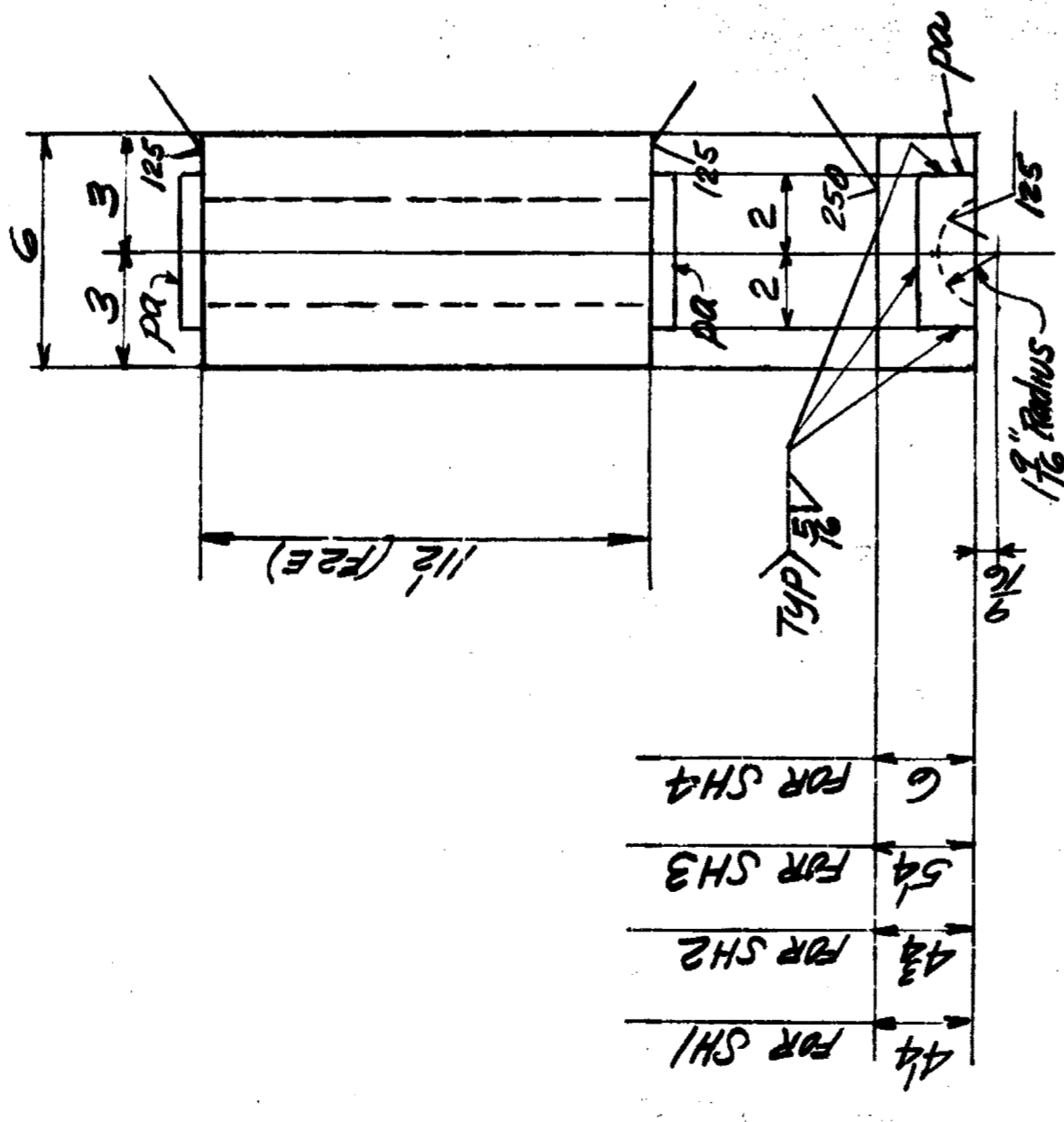
SHOP ASSEMBLY

No. Read	Mark	Assemble on Sheet:
1	PEO1SH1 717	
1	PEO1SH2 717	
2	PEO1SH3 716, 717	
1	PEO1SH4 713	
2	PEO1SH5 616, 617	
1	PEO1SH6 616	
2	PEO1SH7 616	
1	PEO1SH8 616	

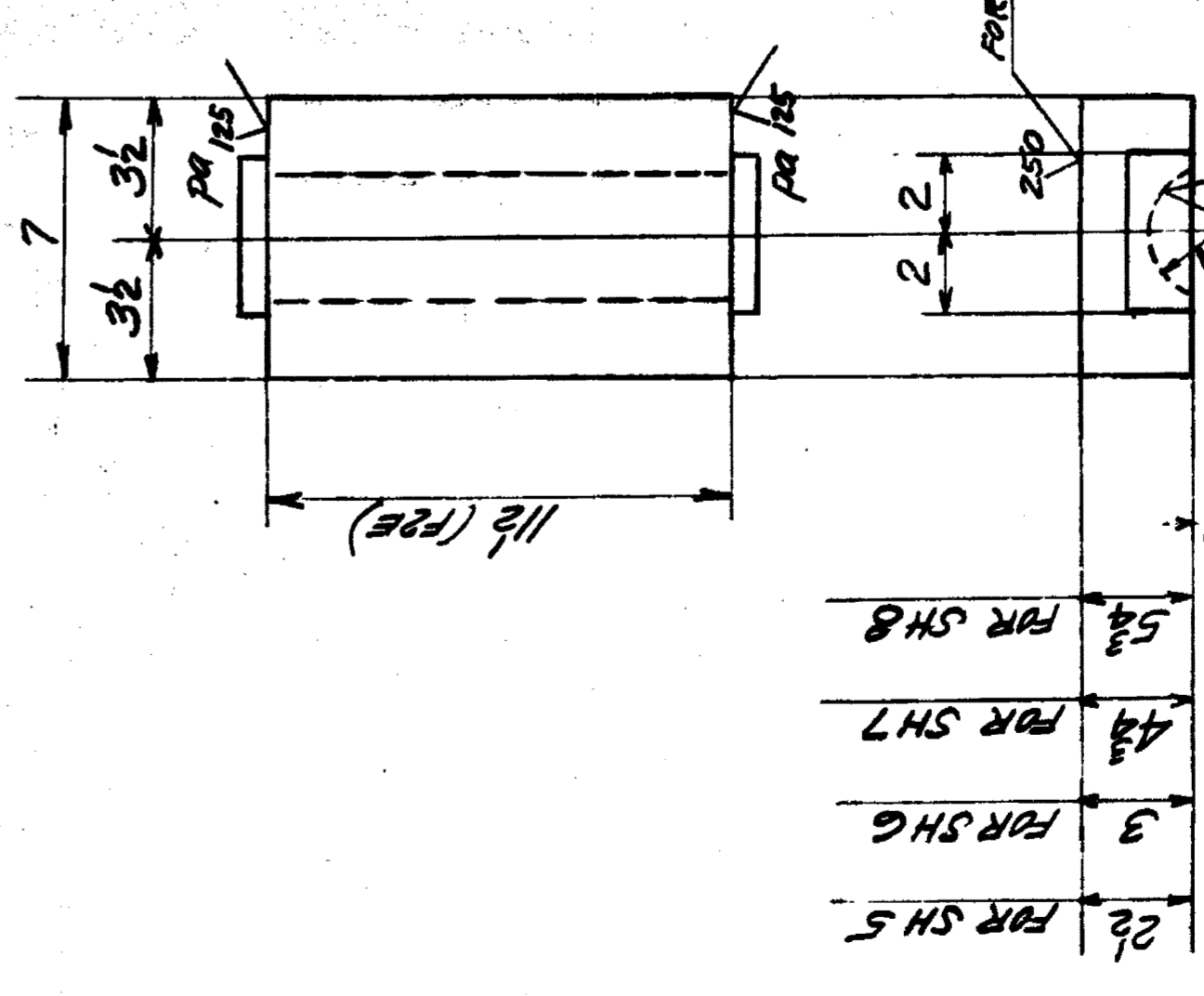
MATERIAL: A441 Mod Cor Ten B
 FINISH: None
 HOLES: None
 WELDINGS: Yes - E8018 - C1 Rod
 Dept 1967 Ed. of Concrete AKOHO

PRINT NOTE: Coat finished surfaces of 1/2" & 1/4" radii with one coat of white lead & yellow.

All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, crayon marks, dirt, etc.
 All shipping marks shall be made using a second color.
 The rounding of corners will not be required.



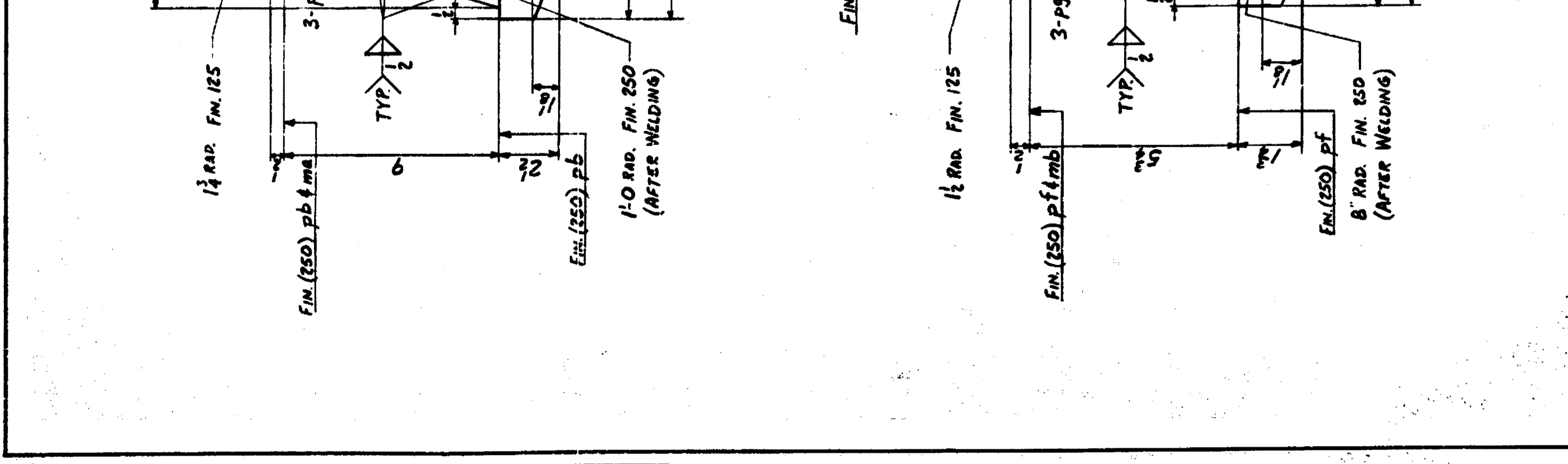
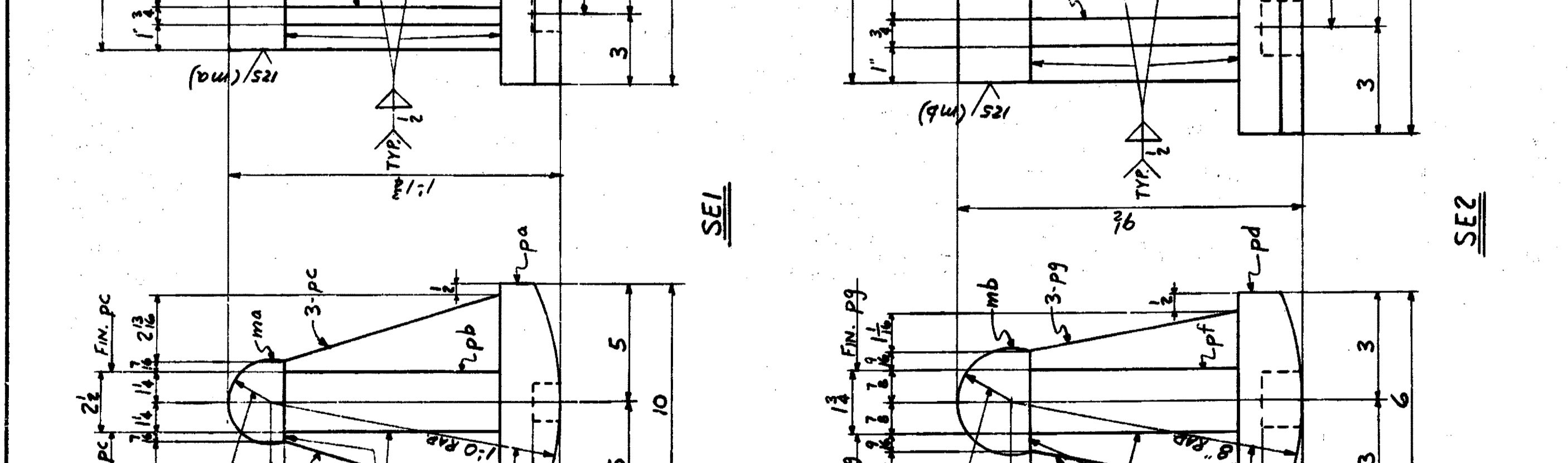
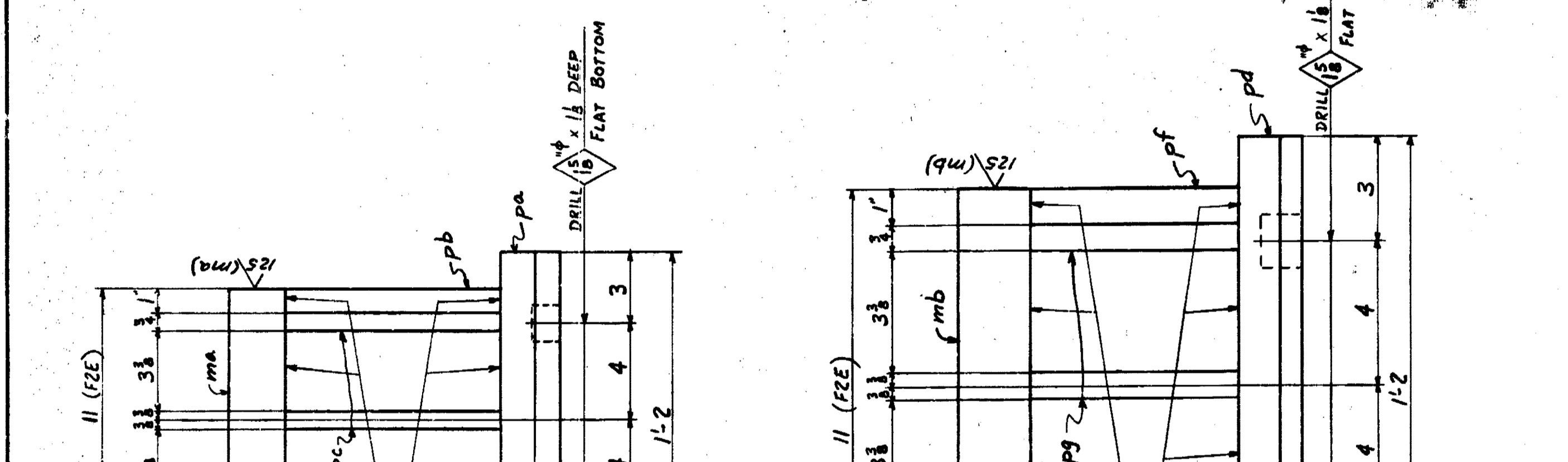
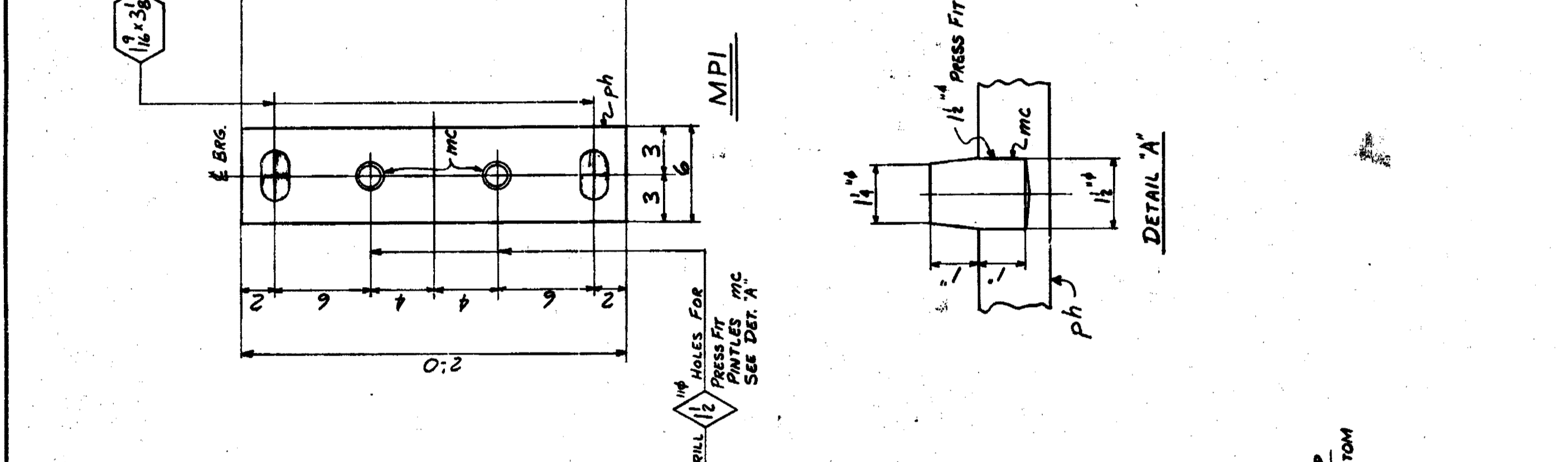
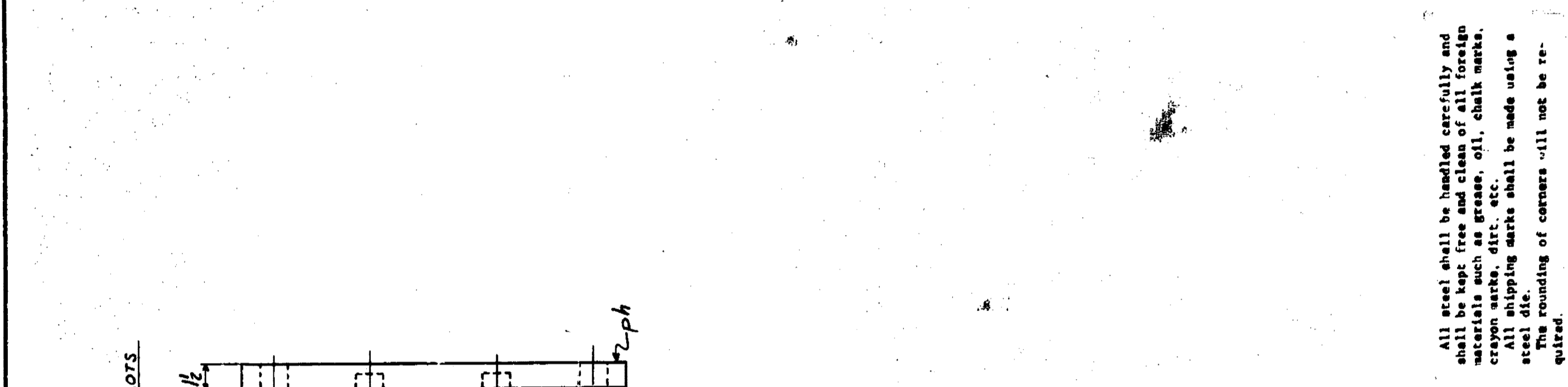
SH1, SH2, SH3 & SH4



SH5, SH6, SH7 & SH8

© Gauge roof before use in drawing room. Not required by job specification. For more information, see A&D Standard Practices. Gary, Mich. 48090

DIV	ITEM NO.	DESCRIPTION	MATERIAL			QUANTITY	UNIT	REMARKS	DRAWING	DATE
			GRADE	THICKNESS	WIDTH					
53	1	8	PL	10	72	12	11		10/1/59	
	2	8	PL	10	72	12	11		10/1/59	
	3	8	PL	10	72	12	11		10/1/59	
	4	8	PL	10	72	12	11		10/1/59	
	5	8	PL	10	72	12	11		10/1/59	
	6	8	PL	10	72	12	11		10/1/59	
53	7	8	RD	3	11	FAO			10/1/59	
	8	8	RD	3	11	FAO			10/1/59	
	9	8	RD	3	11	FAO			10/1/59	
	10	8	RD	3	11	FAO			10/1/59	
	11	8	RD	3	11	FAO			10/1/59	
53	12	5	FLT	6	17	12	FIS		10/1/59	
	13	5	FLT	6	17	12	FIS		10/1/59	
	14	30	FLT	5	3	18	FAP		10/1/59	
	15	30	FLT	5	3	18	FAP		10/1/59	
	16	5	RD	3	11	FAO			10/1/59	
53	17	5	MASONRY PLATE							
	18	5	PLT	6	17	12	ZIO			
53	19	10	RD	1	11	12				
	20	10	RD	1	11	12				



SPEC: MSDN - 1967 EDITION - CURRENT MSWD
 MATERIAL: ASTM A991 Grade B
 FINISH: NONE
 WELDING: YES - AWS - E6018-C1
 PAINT: NO (SEE PART 4.008)
 INSPECTION: NO

REMARKS: EXPANSION ROCKERS & MASONRY PLATES

ORDER NO: K2828

DRAWING MADE BY: GARY # 2

DATE: 10/1/59

BY: WAB

PROJECT: MARINE COUNTY HIGHLAND

UNIT: EXPANSION ROCKERS & MASONRY PLATES

IN CHARGE OF: AUGENSTINE 5559

AMERICAN BRIDGE DIVISION of United States Steel

FABRICATION ASSIGNED TO: GARY # 2

WEIGHT CATEGORY: A

INVENTORY NO: 1008905

LOCATION OF SHIPPING PIECE SHOWN ON THIS SHEET REFER TO: E9

BHEET NO: 701

All steel shall be handled carefully and shall be kept free and clean of all foreign materials such as grease, oil, chalk marks, etc. All shipping marks shall be made using a steel die. The rounding of corners will not be required.

PAINT NOTE:
 COAT FINISH SURFACES OF CURVED PIECES WITH ONE COAT OF WHITE LEAD & TALLOW

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