Member (1)	Dead (2)	Live (3)	Skew (4)	L.I. (5)	Combination A: Total (6)	(7)	0.8 Col.3 (8)	T.I. ± (9)	Comb. B (10)	0.683 Col. 3 (11)	30# T.W. (12)	30# L.W. (13)	Comb C (14)	Design Stress (15)	L/r (16)	Allow Stress (17)	Reqd Area (18)	Area Used (19)	Section (20)
Top Chord																			
U1-U2	-6.2	-17.4	0	0	-23.6		-13.9	-7.4 / +17.9	-27.5	-11.9	-2.2 / +9.7	0	-16.2	-27.5	126	18.0	1.53	11.74	1-14WF48
U2-U2½	-26.6	-73.8	0	0	-100.4		-59.0	±38.6	-124.2	-50.4	±23.0	0	-80.0	-124.2	62	18.0	6.90	11.74	1-14WF48
U2½-U3	-14.1	-112.5 / +48.1	±0.3	±3.6	-130.5 / +37.9	-146.5 / +56.9	-90.0 / +38.5	±42.8	-147.2 / +67.5	-76.8 / +32.8	±19.5	±4.0	-85.2 / +30.6	-140.5 / +67.5	65	18.0 / 13.95	8.30 / 4.85	18.63 / 21.76	1-14WF74
U3-U4	+30.3	-96.5 / +119.0	-1.4 / +6.2	±10.7	-78.8 / +166.2	-117.5 / +205.4	-77.2 / +95.2	-33.7 / +44.8	+176.0 / -74.0	-65.9 / +81.3	-4.6 / +22.1	±11.9	-39.1 / +111.9	-117.5 / +205.4	97	18.0 / 18.65	6.54 / 16.20	18.63 / 21.76	1-14WF74
U4-U5	+55.8	-80.0 / +159.5	-5.4 / +10.1	±17.8	-67.4 / +243.2	-71.1 / +266.9	-64.0 / +127.6	-53.5 / +63.8	+287.3 / -67.1	-54.6 / +108.9	-29.5 / +41.8	±19.8	-27.0 / +169.5	-71.1 / +266.9	97	18.0 / 18.66	3.94 / 21.10	18.63 / 21.76	1-14WF74
U5-U6	+66.8	-63.5 / +169.5	-9.5 / +14.2	±25.0	-31.2 / +275.5	-46.8 / +291.1	-50.8 / +135.6	-66.6 / +70.5	+287.1 / -60.1	-43.4 / +115.8	-45.1 / +50.1	±27.7	-25.0 / +197.3	-60.1 / +291.1	80.3	18.0 / 13.38	3.34 / 21.70	20.07 / 22.94	1-14WF78
U6-U7	+66.8	-63.3 / +165.5	-14.2 / +19.0	±25.0	-35.9 / +276.3	-53.9 / +294.3	-50.6 / +132.4	-69.1 / +69.4	+287.6 / -67.3	-43.4 / +113.0	-48.7 / +50.1	±27.7	-31.6 / +199.1	-67.3 / +294.3	80.3	18.0 / 13.38	3.73 / 22.00	20.07 / 22.94	1-14WF78
U7-U8	+64.5	-47.6 / +165.5	-18.8 / +23.1	±32.1	-32.9 / +285.2	-49.4 / +301.7	-37.5 / +132.4	-61.4 / +68.9	+288.9 / -52.8	-32.3 / +113.0	-40.1 / +47.7	±35.6	-21.4 / +198.6	-52.8 / +301.7	80.3	18.0 / 13.38	2.93 / 22.50	20.07 / 22.94	1-14WF78
U8-U9	+49.4	-30.2 / +134.5	-22.4 / +27.1	±39.2	-42.4 / +250.2	-63.6 / +271.4	-24.2 / +107.6	-40.5 / +55.0	+239.1 / -37.7	-20.6 / +91.9	-21.8 / +34.9	±43.5	-29.7 / +169.5	-63.6 / +271.4	80.3	18.0 / 13.38	3.54 / 20.20	20.07 / 22.94	1-14WF78
U9-U10	+20.0	-13.9 / +73.4	-13.1 / +21.3	±53.3	-60.5 / +168.0	-90.5 / +198.2	-11.1 / +59.0	-3.2 / +27.9	+128.2 / -7.4	-9.5 / +50.1	-0 / +12.9	±51.2	-43.0 / +114.1	-90.5 / +198.2	81	18.0 / 13.36	5.02 / 16.05	15.37 / 17.94	1-14WF61
U10-U11	-3.9	0	-0.4 / +12.5	±5.9	-10.2 / +14.5	-15.3 / +19.6	0	-1.1 / +10.7	+19.3 / -5.4	0	-0.6 / +7.5	0	-3.9 / +12.9	-15.3 / +19.6	81	18.0 / 13.36	0.85 / 1.47	15.37 / 17.94	1-14WF61
M0-U1	-10.3	-28.4	0	0	-38.7		-22.7	-5.5 / +9.0	-38.5	-19.4	-1.7 / +3.5	0	+25.1	-38.7	143	18.0	2.15	8.34	1-8x8M34.3
U11-M12	-33.7	-47.4	-4.4 / +4.7	+0 / -29.2	-114.7		-37.9	-10.4	-86.4	-32.4	-7.2 / +0	-26.9 / +3.0	-77.9	-114.7	97	18.0	6.37	8.34	1-8x8M34.3
Bottom Chord																			
L0-L1	0	0	0	0	0		0	0	0	0	0	0	0	0				14.11	1-14WF48
L1-L2	+26.6	+73.8	0	±23.4	+123.8		+59.0	±14.6	+100.2	-50.4	±6.0	0	+66.4	+123.8	63	14.00	8.85	14.11	1-14WF48
L2-L3	+44.8	+125.5	0	±23.4	+193.7		+100.4	±24.3	+169.5	+83.7	±10.5	0	+111.2	+193.7	63	14.00	13.80	14.11	1-14WF48
L3-L4	+14.3	+112.5 / -48.1	±0.3	±27.0	-61.1 / +154.1	-91.7 / +184.7	+90.0 / -38.5	±18.6	-43.1 / +123.8	+76.8 / -32.8	±2.5	±4.0	-18.2 / +76.3	-91.7 / +184.7	62.7	18.0 / 14.02	5.10 / 13.12	12.96 / 13.59	1-14WF53
L4-L5	-30.2	+96.5 / -119.0	±1.0	±34.1	+101.4 / -184.3	+132.1 / -235.0	+77.2 / -95.2	±21.2	+69.2 / -147.6	+65.9 / -81.3	±9.1	±11.9	+38.9 / -99.5	+132.1 / -235.0	62.7	14.02 / 18.0	10.08 / 13.05	13.59 / 12.96	1-14WF53
L5-L6	-55.8	+80.0 / -159.5	±1.8	±41.2	+67.2 / -258.3	+100.8 / -291.9	+64.0 / -127.6	±30.4	+40.4 / -215.6	+54.6 / -108.9	±16.5	±19.8	+16.3 / -149.0	+100.8 / -291.9	48.6	14.40 / 18.0	7.00 / 16.20	21.76 / 18.68	1-14WF74
L6-L7	-64.5	+76.9 / -165.5	±3.0	±55.5	+40.9 / -288.5	+61.4 / -309.0	+37.5 / -132.4	±32.4	+8.4 / -232.3	+32.0 / -113.0	±18.8	±35.6	+4.9 / -172.9	+61.4 / -309.0	48.6	14.40 / 18.0	4.26 / 17.20	21.76 / 18.68	1-14WF74
L7-L8	-49.4	+30.2 / -134.5	±3.7	±62.6	+47.1 / -250.2	+70.7 / -273.8	+24.2 / -107.6	±26.0	+4.5 / -186.7	+20.6 / -91.9	±13.6	±43.5	+38.7 / -150.8	+70.7 / -273.8	49.2	14.40 / 18.0	4.92 / 15.20	17.94 / 15.37	1-14WF61
L8-L9	-20.0	+13.7 / -73.5	±4.4	±70.5	+68.6 / -168.4	+102.9 / -202.7	+11.0 / -58.7	±13.4	+8.8 / -96.3	+9.4 / -50.1	-4.7 / +5.6	±51.2	+36.0 / -100.6	+102.9 / -202.7	49.2	14.40 / 18.0	7.12 / 11.30	17.94 / 15.37	1-14WF61
L9-L10	-15.7	+6.8 / -41.9	±4.6	±34.5	+30.2 / -96.7	+45.3 / -111.8	+5.4 / -33.5	±8.1	+2.4 / -61.9	+4.6 / -28.6	-3.2 / +4.2	±25.9	+15.5 / -59.8	+45.3 / -111.8	51.8	14.33 / 18.0	3.15 / 6.80	14.11 / 11.74	1-14WF48
L10-L11	-15.7	+6.8 / -41.9	±4.6	±34.5	+30.2 / -96.7	+45.3 / -111.8	+5.4 / -33.5	±8.1	+2.4 / -61.9	+4.6 / -28.6	-3.2 / +4.2	±25.9	+15.5 / -59.8	+45.3 / -111.8	51.8	14.33 / 18.0	3.15 / 6.80	14.11 / 11.74	1-14WF48
L11-L12	0	0	0	0	0		0	0	0	0	0	0	0		58			11.74	1-14WF48
Posts																			
M0-L0	-10.2	0	0	0	-10.2		0	0	-10.2	0	0	0	-8.2	-10.2	144	18.0	0.57	5.10	1-10[20
U1-L1	+13.0	+62.6	0	0	+75.6		+50.1	±12.1	+75.2	+42.8	±5.8	0	+49.3	+75.6	72	13.7	5.51	13.24	1-10WF45
U2-L2	+33.4	+139.6	0	0	+173.0		+111.7	±26.7	+171.8	+95.3	±12.1	0	+112.6	+173.0	72	13.7	12.60	13.24	1-10WF45
U3-L3	+64.7	+121.6	±0.9	±9.2	+196.4		+97.3	±27.7	+190.6	+83.1	±20.7	±10.2	+135.5	+196.4	71.8	13.7	14.35	14.40	1-10WF49
U4-L4	+41.4	+102.0	±0.9	±9.2	+153.5		+81.6	±22.3	+146.2	+69.7	±15.0	±10.2	+101.6	+153.5	72	13.7	11.17	13.24	1-10WF45
U5-L5	+20.8	+82.0	±0.9	±9.2	+112.9		+65.6	±16.2	+103.5	+56.0	±9.6	±10.2	+69.7	+112.9	72	13.7	8.25	13.24	1-10WF45
U6-L6	+5.8	+73.0	0	0	+78.8		+58.4	±12.9	+77.1	+49.9	±5.5	0	+49.0	+78.8	72	13.7	5.75	13.24	1-10WF45
U7-L7	+8.6	+76.0	±0.9	±9.2	+94.7		+60.8	±13.6	+83.9	+51.9	±6.6	±10.2	+57.3	+94.7	72	13.7	6.92	13.24	1-10WF45
U8-L8	+26.8	+95.9	±0.9	±9.2	+132.8		+76.2	±18.9	+122.8	+65.5	±11.5	±10.2	+83.8	+132.8	72	13.7	9.70	13.24	1-10WF45
U9-M9	+54.1	+74.2	+0.4	+55.6	+184.3		+59.4	-0 / +17.7	+131.6	+50.7	-0 / +13.6	-0 / +50.4	+124.5	+184.3	87	13.1	14.05	14.71	1-18WF50
M9-L9	0	+73.0	+0.4	+55.6	+129.0		+58.4	-0 / +17.5	+76.3	+49.9	-0 / +13.6	-0 / +50.4	+80.6	+129.0	84.5	13.2	9.78	13.24	1-10WF45
U10-L10	-12.0	-73.0	0	0	-85.0		-58.4	±10.8	-81.2	+49.9	0	0	+49.5	-85.0	161	18.0	4.73	13.24	1-12WF45
U11-M11	+54.1	+74.2	+0.4	+46.4	+175.1		+59.4	-0 / +17.7	+131.6	+50.7	-0 / +13.6	-0 / +40.2	+116.3	+175.1	87	13.1	13.35	14.71	1-18WF50
M11-L11	0	+73.0	+0.4	+46.4	+119.8		+58.4	-0 / +16.2	+75.0	+49.9	-0 / +13.6	-0 / +40.2	+72.4	+119.8	84.5	13.21	9.05	13.24	1-10WF45
M12-L12	-7.4	0	0	0	-7.4		0	0	0	0	0	0	0	-7.4	241	18.0	0.41	5.10	1-10[20
Diagonals																			
M0-L1	+7.5	+20.5	0	0	+28.0		+16.4	±3.9	+27.8	+14.0	+1.3	0	+18.2	+28.0	103	12.36	2.21	10.09	1-8x8M34.3
L1-U2	-33.3	-92.1	0	0	-125.4		-73.7	±17.8	-124.8	-62.9	±8.1	0	-83.4	-125.4	211	18.0	6.96	8.34	1-8x8M34.3
L2-U2½	-51.2	-149.0	0	0	-200.2		-119.2	±28.4	-198.8	-101.8	±12.9	0	-132.7	-200.2	160	18.0	11.10	11.39	1-8WF48
U2½-L3	-84.3	-130.1	±0.9	±9.9	-225.2		-104.1	±29.7	-219.0	-88.9	±22.2	±11.0	-157.0	-225.2	131	18.0	12.50	13.41	1-10WF54
U3-L4	-73.1	-129.9	±1.1	±11.6	-215.7		-103.9	±28.2	-206.3	-88.7	±19.1	±12.8	-145.6	-215.7	155	18.0	12.00	12.17	1-10WF49
U4-L5	-42.1	+20.6 / -104.0	±1.1	±11.6	-158.8		+16.5 / -83.2	±20.6	-147.0	+14.1 / -71.0	±12.2	±12.8	-101.6	-158.8	147	18.0	8.83	9.53	1-10[20 & 1-8WF40
U5-L6	-18.2	+46.5 / -79.1	±1.1	±11.6	+41.0 / -110.0	+61.5 / -130.5	+37.2 / -63.3	±14.0	+34.1 / -96.6	+31.8 / -54.0	±5.3	±12.8	+22.0 / -68.0	+61.5 / -130.5	124	+11.15 / -18.0	5.5 / 7.25	9.53	1-12[25 / 1-8WF40
L6-U7	-3.7	+53.5 / -71.3	±1.1	±11.6	+62.5 / -87.7	+93.8 / -119.0	+42.8 / -58.5	±10.9	+51.1 / -74.2	+36.5 / -48.7	±1.6	±12.8	+37.4 / -53.0	+93.8 / -119.0	124	+11.15 / -18.0	8.4 / 6.6	9.53	do
L7-U8	-25.3	+28.4 / -96.5	±1.1	±11.6	+15.8 / -134.3	+23.7 / -142.4	+22.7 / -77.2	±17.3	+15.8 / -120.9	+19.4 / -65.9	±8.4	±12.8	+6.4 / -84.1	+23.7 / -142.4	147	18.0	7.9	9.53	1-10[20 / 1-8"WF40
L8-M8½	-48.6	+27.2 / -121.5	±1.1	±11.6	-182.8		+21.8 / -97.2	±23.9	-170.8	+18.5 / -83.0	±14.5	±12.8	-117.8	-182.8	197	18.0	10.10	10.77	1-10WF45
M8½-U9	-52.0	-93.1	-0.8 / +0.5	+6.0 / -41.0	-186.9		-74.5	-19.1	-148.4	-63.6	-13.0 / +4.1	-36.9 / +6.5	-134.6	-186.9	197	18.0	10.40	10.77	
M8½-L9	-3.4	+29.0 / -41.9	-0.5 / +0.3	-27.2	+25.9 / -73.0	+38.9 / -86.0	+23.2 / -33.5	+4.8 / -8.7	+24.9 / -46.1	+19.8 / -28.6	-9.1 / +1.5	-23.3	+13.2 / -44.6	+38.9 / -86.0	108	12.08 / 18.0	3.22 / 4.78	10.09 / 8.34	1-8x8M34.3
U9-M9½	-3.8	+31.0 / -44.8	-0.5 / +0.3	-29.1	+27.5 / -78.2	+41.3 / -92.0	+24.8 / -35.8	+5.8 / -9.7	+29.6 / -49.0	+21.2 / -30.6	-9.9 / +1.5	-25.8	+17.0 / -60.7	+41.3 / -92.0	96	12.70 / 18.0	3.25 / 5.10	10.09 / 8.34	1-8x8M34.3
M9½-L9	-11.4	-77.5	-0.3 / +0	+27.0 / -60.5	-149.7		-62.0	-12.0	-87.1	-52.9	-6.9 / +0	-54.0 / +22.8	-96.3	-149.7	100	18.0	8.32	10.77	1-10WF45
M9½-U10	-8.5	+13.0 / -69.0	±0.5	±54.9	+59.9 / -132.9	+89.9 / -162.9	+10.4 / -55.2	±11.5	+13.9 / -73.7	+8.9 / -47.1	±2.8	±47.5	+38.7 / -88.9	+89.9 / -162.9	84.5	13.22 / 18.0	6.78 / 9.05	13.24 / 10.77	
U10-M10½	+35.7	+78.1 / -13.0	±0.5	±54.9	-32.7 / +169.2	-49.7 / +185.6	+62.5 / -10.4	-4.7 / +16.0	+119.4	+53.3 / -8.9	±8.9	±47.5	+109.6 / -21.2	-49.1 / +185.6	66.5	18.0 / 13.9	2.73 / 13.30	12.17 / 14.40	1-10WF49
M10½-L11	+10.3	+38.9 / -45.9	-4.3 / +4.6	+27.3 / -54.9	-92.8 / +81.1	-133.4 / +121.7	+31.1 / -35.1	+7.6 / -13.0	+53.6 / -42.1	+26.6 / -30.0	-11.9 / +3.0	-80.0 / +25.8	-74.0 / +53.8	-133.4 / +121.7	79	18.0 / 13.40	7.40 / 9.08	12.17 / 14.40	
M10½-U11	-27.1	-47.6	-5.3 / +4.4	+0 / -29.9	-109.4		-38.1	-9.8	-80.3	-32.5	-4.5 / +0	-22.8	-70.2	-109.4	96	18.0	6.10	8.34	1-8x8M34.3
L11-M12	-20.4	-44.4	-4.1 / +4.3	+0 / -27.4	-96.3		-35.5	-8.7	-68.7	+30.3	-4.3 / +0	+2.2 / -86.0	-64.6	-96.3	108	18.0	5.35	8.34	1-8x8M34.3
Post Ties																			
M8½-M9½	+6.0	+51.0	-0.4 / +0.6	+32.7	+90.3		+40.8	+10.4	+57.8	+34.8	+11.0	+28.0	+55.5	+90.3	71.6	13.71	6.60	8.92	2-∠s 6x6x3/8
M10½-M12	+30.6	+52.8	±5.2	-0 / +32.7	+121.3		+42.2	+10.8	+88.8	+36.1	+6.0	+24.3	+77.0	+121.3	66.7	13.88	8.75	8.92	2-∠s 6x6x3/8

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Stress Combinations

(A) Maximum Working Condition Cols. (2)+(3)+(4)+(5)

(B) Bridge Moving (without wind) Cols. (2)+(4)+(8)+(9)

(C) Maximum Idle Condition (trolley at Tower or Shear Leg) 0.8(Cols. (2)+(4)+(11)+(12) or (13))

Longitudinal Impact (L.I.) Loads & Stresses are produced by the movement of the trolley. The loads are equal to the sliding friction of the trolley wheels on the rails or 20% of the trolley and loaded bucket.

Transverse Impact (T.I.) Loads & Stresses are produced by the starting & stopping of the Bridge. The loads are assumed to be equal to 8% of the weight of the Bridge & loaded Trolley.

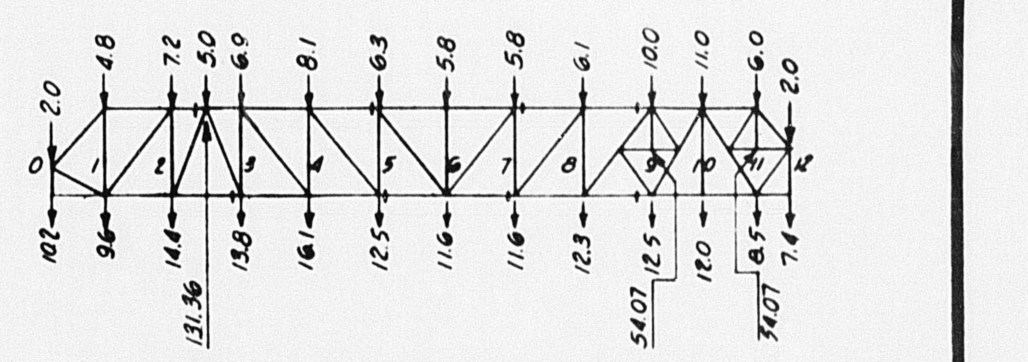
Allowable Unit Stresses

Tension		18,000 psi
Compression		15,000 - 25 $\frac{l^2}{r^2}$
Bending:	Tension	18,000 psi
	Compression	18,000 - 5 $\frac{l^2}{b^2}$
Plate Shear		11,000 psi
Rivets:	Shear	13,500 psi
	Bearing	24,000 psi
	Enclosed Bearing	30,000 psi

The track stringers & suspension system will be designed for allowable stresses of five-sixth of the above stresses.

Assumed Dead Loads

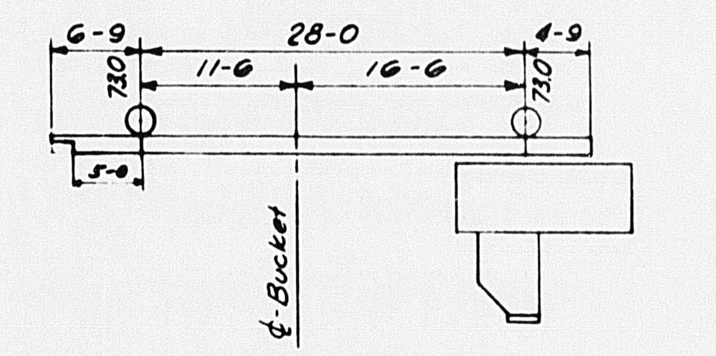
Trusses & Bracing	333.0^k
Track Extension & Bumper Support	12.0
Conductor Supports	5.0
Canopy at Tower	12.0
Walks	39.0
Platforms & Ladders	6.0
Repair Trolley Beam	6.0
" " Walk & Grating	5.0
Suspended Walk	10.0
Grating & Beam	3.0
Conductors	14.0
Skip & Repair Trolleys	12.0
Bumper Springs	10.0
Rivets & Overrun	12.0
Total for Bridge	479.0^k



Dead Loads For One Truss

Live Load (Total for Trolley)

Trolley	165.5
Bucket	34.0
Ore	34.0
Impact	58.5
Total	292.0



Trolley Wheel Loads

Member	Skew	T.I.	7/8 TW Trolley	30# T.W.	Sk+T.I.+7/8T.W.	0.8(Sk+30TW)	Max. Stress	L/r	Allow Stress	Area Reqd	Area Used	Section
M0	0	+6.3	+0.6	+2.5	+6.9	+2.0	+6.9					1-27WF94
U1	0	+13.6	+1.3	+8.5	+14.9	+6.8	+14.9	94.4	12.78	1.17	15.58	1-12BP53
U2	0	+12.9	+1.2	+7.8	+14.1	+6.3	+14.1	94.4	12.78	1.10	15.58	do
U2½	+6.8	+41.9	+2.9	+42.4	+51.6	+39.4	+51.6					2-36WF150 / 1-[illegible]
U3	+3.5	+14.1	+1.1	+13.4	+18.7	+13.5	+18.7	94.4	12.78	1.46	15.58	1-12BP53
U4	+6.8	+22.3	+1.8	+19.5	+30.9	+21.0	+30.9			2.41		do
U5	+6.8	+15.6	+1.4	+12.5	+23.8	+15.4	+23.8			1.86		do
U6	+6.8	+12.1	+1.2	+7.0	+20.1	+11.0	+20.1			1.57		do
U7	+6.8	+12.9	+1.3	+8.5	+21.0	+14.5	+21.0			1.64		do
U8	+6.8	+18.3	+1.7	+14.7	+26.8	+17.1	+26.8			2.10		do
U9	0	+24.5	+2.0	+20.7	+26.5	+16.6	+26.5			2.08		do
U10	+16.4	+26.5	+2.5	+35.4	+45.4	+41.4	+45.4			3.56		do
U11	+23.1	+13.1	+1.3	+8.1	+37.5	+25.0	+37.5			2.94		do
M12	0	+1.5	0	+2.4	+1.5	+1.9	+1.9					1-18WF55
M0-U1	0	-8.8	-0.8	-3.4	-9.6	-2.7	-9.6		18.0	0.53		1-∠3x3x3/8
U1-U2	0	-19.6	-1.7	-11.4	-21.3	-9.1	-21.3		18.0	1.18	3.47 / 6.32	2-∠3x3x3/8 / 1-12[25
U2-U2½	0	±17.2	±1.6	±10.8	±18.8	±8.6	±18.8					1-12WF45
U2½-U3	±4.6	±18.7	±1.4	±18.4	±24.7	±18.4	±24.7					1-12WF45
U3-U4	-9.1	-29.8	-2.3	-26.1	-41.2	-28.2	-41.2		18.0	2.29	3.47 / 6.32	2-∠s 3x3x3/8 / 1-12[25
U4-U5	-9.1	-20.9	-1.9	-16.8	-31.9	-20.7	-31.9		18.0	1.77		do
U5-U6	-9.1	-13.8	-1.5	-7.4	-24.4	-13.2	-24.4		18.0	1.36		do
U6-U7	-9.1	-10.4	-1.3	-2.0	-20.8	-8.9	-20.8		18.0	1.16		do
U7-U8	-9.1	-17.3	-1.7	-11.4	-28.1	-16.4	-28.1		18.0	1.56		do
U8-U9	-9.1	-24.6	-2.3	-19.7	-36.0	-23.0	-36.0		18.0	2.00		do
U9-U10	-20.2	-30.3	-2.6	-25.6	-53.1	-36.6	-53.1		18.0	2.95		do
U10-U11	-28.7	-16.3	-1.6	-10.0	-46.6	-31.0	-46.6		18.0	1.72		do

H-67303

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Date	Change	Item	Description of Revision
12-7-50	1	1	Mat'l Size on Post ties

THE WELLMAN ENGINEERING CO.
CLEVELAND, OHIO., U.S.A.

CONTRACT NO. 2679 PROPOSAL NO.

SUBJECT 15 TON ORE HANDLING BRIDGE
BRIDGE STRESS & MATERIAL TABLE

DRAWN BY CB CHECKED BY R.A.O. APPROVED BY G.R. 3/15/51

SCALE DATE 10-18-50 DRAWING No. 92610

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