SPAN LENGTH (FT.)	25G SEC. DL = 4#/FT. AL (LBS./FT.)	W (LBS./FT.)	d (IN.)	R (LBS.)	45G SEC. DL = 7#/FT. AL (LBS./FT.)	W (LBS./FT.)	d (IN.)	R (LBS.)	55G SEC. DL = 9.5#/FT. AL (LBS./FT.)	W (LBS./FT.)	d (IN.)	R (LBS.)
10.0	72.0	76.0	0.04	380.0	269.0	276.0	0.05	1380.0	266.5	276.0	0.03	1380.0
15.0	46.7	50.7	0.13	380.0	177.0	184.0	0.17	1380.0	174.5	184.0	0.10	1380.0
20.0	34.0	38.0	0.31	380.0	131.0	138.0	0.40	1380.0	128.5	138.0	0.23	1380.0
25.0	26.4	30.4	0.60	380.0	102.6	109.6	0.78	1370.0	100.9	110.4	0.45	1380.0
30.0	21.3	25.3	1.04	380.0	69.1	76.1	1.12	1141.5	82.5	92.0	0.77	1380.0
35.0	17.7	21.7	1.65	380.0	48.9	55.9	1.53	978.3	69.4	78.9	1.22	1380.0
40.0	15.0	19.0	2.46	380.0	35.8	42.8	1.99	856.0	59.5	69.0	1.82	1380.0
45.0	10.5	14.5	3.01	326.3	26.8	33.8	2.52	760.5	51.8	61.3	2.60	1379.0
50.0	6.5	10.5	3.33	262.5	20.4	27.4	3.11	685.0	41.0	50.5	3.25	1262.5
55.0	3.9	7.9	3.66	217.3	15.0	22.0	3.66	605.0	29.3	38.8	3.66	1067.0
60.0	2.1	6.1	4.00	183.0	10.0	17.0	4.00	510.0	20.4	29.9	4.00	897.0
65.0	0.8	4.8	4.32	156.0	6.4	13.4	4.33	435.5	14.0	23.5	4.33	764.0
70.0	N/A	N/A	N/A	N/A	3.7	10.7	4.67	374.5	9.3	18.8	4.66	658.0
75.0	N/A	N/A	N/A	N/A	1.7	8.7	5.01	326.3	5.8	15.3	5.00	574.0
80.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.1	12.6	5.33	504.0
85.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	10.5	5.66	446.0

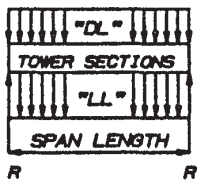
SPAN LENGTH (FT.)	65G SECTION DL = 17#/FT. AL (LBS./FT.)	W (LBS./FT.)	d (IN.)	R (LBS.)
10.0	583.0	600.0	0.02	3000.0
15.0	383.0	400.0	0.07	3000.0
20.0	283.0	300.0	0.16	3000.0
25.0	223.0	240.0	0.31	3000.0
30.0	183.0	200.0	0.54	3000.0
35.0	154.4	171.4	0.85	3000.0
40.0	128.4	145.4	1.25	2908.0
45.0	105.5	122.5	1.43	2756.0
50.0	87.6	104.6	2.16	2615.0
55.0	72.7	89.7	2.71	2467.0
60.0	60.9	77.9	3.33	2337.0
65.0	50.9	67.9	4.00	2207.0
70.0	41.9	58.9	4.67	2062.0
75.0	30.9	47.9	5.00	1796.0
80.0	22.4	39.4	5.33	1576.0
85.0	15.9	33.6	5.67	1428.0
90.0	10.7	27.7	6.00	1247.0
95.0	6.5	23.5	6.33	1116.0
100.0	3.2	20.2	6.67	1010.0
105.0	0.4	17.4	7.00	914.0

NOMENCLATURE

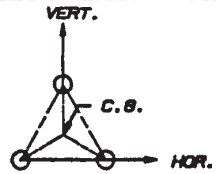
DL = Uniform dead load of tower section (LBS/FT)
AL = (W-DL) = allowable uniform applied load in addition to dead load of tower section (LBS/FT)
W = Allowable uniform load capacity of tower section (LBS/FT)
d = Approximate center span deflection (Inches) Maximum d = span length (12)/180
R = Right and left end beam reactions (LBS)
N/A = Not applicable

GENERAL NOTES

1. All beams assumed to have adequate lateral support.
2. Beams may be oriented as shown or inverted 180 degrees. A minimum of two legs in a horizontal plane must be supported horizontally and vertically at both beam ends. In any case, regardless of orientation, the reactions (R) must pass through the first horizontal brace at each beam end.
3. Avoid attaching loads directly to tower bracing. Provide a suitable interface between applied loads and tower sections. Loads should be applied at brace to leg connections to avoid possible local overstresses in legs. Resultant of loads and reactions must pass through tower C.G. (center of gravity). See end view.



ELEVATION
SCALE: NONE



END VIEW
SCALE = NONE

No. ▲ Revision Description	▲ Date	▲ Rev By	▲ Ckd By	▲ Appd By

ROHN

Scale: NONE	By	Date
Drawn:	ASM	6/30/89
Checked:	MJW	4/5a/89
App. Eng.:	JS	7/10/89
App. Sales:	PM	7-11-89

Title: LOADS, REACTIONS AND DEFLECTIONS FOR SIMPLY SUPPORTED BEAMS HAVING ADEQUATE LATERAL SUPPORT AND INTERIOR EXPOSURE

DRAWING NO.: B891193