



Project: WEST MIAMI SIX MODEL B
01/25/05 08:50:14

Mark: J04

Allowed deflection under live load = 0.61 in (L/ 360)
Calculated deflection under service live load = 0.59 in (L/ 1177)
NB: Hambro Deflection: Beam formula = 79.19 in⁴
Required camber = 0.44 in

FORCES IN MEMBERS [Kips]

Left Reaction = 5.23/ 0.00 kips Right Reaction = 6.89/ 0.00 kips (EFF. depth = 18.42 in)
(FY = 50 Ksi U/N)

REQUIRED MATERIAL
x = tied at mid-length

REQUIRED WELD
Eff. throat on Sides Remarks

No.	Tension	Compres.	Stand.	Uell.	Length	Remarks
Top Chord	0.00	-4.84	Top Hambro	0 0.30	2'-4"	
1.1	0.00	-4.84	do	0 0.29	0'-11 3/4"	
1.2	0.00	-7.15	do	0 0.54	2'-0"	
1.3	0.00	-7.15	do	0 0.58	do	
1.4	0.00	-9.46	do	0 0.67	do	
1.5	0.00	-11.77	do	0 0.72	do	
1.6	0.00	-11.56	do	0 0.71	2'-0"	
1.7	0.00	-11.56	do	0 0.71	0'-9"	
1.7 F	0.00	-8.57	Top Hambro	0 0.53	2'-0"	
1.7 F	0.00	-8.57	do	0 0.54	0'-11 3/4"	
1.9	0.00	-5.60	Top Hambro	0 0.35	2'-4"	
1.10	0.00	-5.60	do	0 0.35	do	
Bottom Chord	0.00	0.00	LL 1.5 x .130	z 102 0.36	2'-7 3/4"	
2.1	0.00	0.00	do	z 81 0.52	2'-0"	
2.2	9.43	0.00	do	z 81 0.66	2'-0"	
2.3	13.89	0.00	do	z 81 0.77	do	
2.4	19.44	0.00	do	z 81 0.87	do	
2.5	19.44	0.00	do	z 81 0.92	do	
2.6	20.53	0.00	do	z 81 0.91	2'-0"	
2.7	18.20	0.00	do	z 68 0.70	1'-8"	
2.8	12.68	0.00	do	z 102 0.49	2'-7 3/4"	
2.9	0.00	0.00	LL 1.5 x .130	z 139 0.73	2'-8 5/8"	
End Diagonal	3.1 9.70 0.00	3.2 11.09 0.00	RD 3/4 (48)	z 139 0.99	2'-8 5/8"	.200 - 1 1/8"
Diagonal Towards End	4.1 4.28 0.00	4.2 2.72 0.00	RD 11/16 (44)	z 95 0.38	1'-8"	.193 - 0 3/4"
4.3	2.95 0.00	2.95 0.00	do	z 95 0.29	do	do
4.4	0.00 -2.15	0.00 -2.15	do	z 95 0.19	do	do
4.5	4.03 0.00	4.03 0.00	do	z 95 0.37	do	do
4.6	5.11 0.00	5.11 0.00	RD 11/16 (44)	z 95 0.46	1'-8"	.193 - 0 3/4"
Diagonal Towards Center	5.1 0.00 -4.55	5.2 0.00 -4.28	RD 11/16 (44)	z 86 0.69	1'-5 7/8"	.193 - 0 3/4"
5.3	0.00 -2.28	0.00 -2.28	do	z 95 0.54	1'-8"	do
5.4	0.00 -2.95	0.00 -2.95	do	z 95 0.37	do	do
5.5	2.95 0.00	2.95 0.00	do	z 95 0.19	do	do
5.6	0.00 -2.15	0.00 -2.15	do	z 95 0.37	do	do
5.7	0.00 -5.11	0.00 -5.11	do	z 86 0.97	1'-5 7/8"	.193 - 0 3/4"
5.8	0.00 -6.40	0.00 -6.40	RD 11/16 (44)	z 86 0.97	1'-5 7/8"	.193 - 0 3/4"

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