



Project: WEST MIAMI SIX MODEL B
01/24/05 17/07/29

Mark: J02

----- DEFLECTION -----
Allowed deflection under live load = 1.11 in (L/ 360)
Calculated deflection under service live load = 0.55
NB: Hambro Deflection: Beam Formula * 1.3 with Composite Inertia = 15 * Steel Inertia
Roist Inertia = 101.41 in⁴
Required Camber = 1.58 in

----- FORCES IN MEMBERS (kips) -----

(THE SHOWN FORCES ARE REALS)

(Fy = 50 Ksi U/N)

Left Reaction = 8.10/ 0.00 Kips Right Reaction = 7.69/ 0.00 Kips (Eff. depth = 18.09 in)

REQUIRED MATERIAL
X = Dist at Half Length

Slend. Util. Length REQUIRED WELD EFF.Throat-Ea.Side Remarks

No	Tension	Compres.	Top Chord	Bottom Chord	Slend.	Util.	Length	REQUIRED WELD	EFF.Throat-Ea.Side	Remarks
1.1	0.00	-5.33	Top Hambro	Top Hambro	0	0.39	2'-0 1/2"			
1.2	0.00	-5.33	do	do	0	0.39	0'-8"			
1.3	0.00	-11.19	Top Hambro	Top Hambro	0	0.69	2'-0"			
1.4	0.00	-16.46	RD 5/8 (40)	RD 5/8 (40)	0	0.68	2'-0"			
1.5	0.00	-21.01	Top Hambro	Top Hambro	0	0.68	2'-0"			
1.6	0.00	-24.82	RD 5/8 (40)	RD 5/8 (40)	0	0.80	2'-0"			
1.7	0.00	-27.99	Top Hambro	RD 5/8 (40)	0	0.91	2'-0"			
1.8	0.00	-29.20	RD 5/8 (40)	RD 5/8 (40)	0	0.95	2'-0"			
1.9	0.00	-29.43	Top Hambro	RD 5/8 (40)	0	0.95	2'-0"			
1.10	0.00	-28.92	RD 5/8 (40)	RD 5/8 (40)	0	0.94	2'-0"			
1.11	0.00	-27.68	Top Hambro	RD 5/8 (40)	0	0.90	2'-0"			
1.12	0.00	-25.71	RD 5/8 (40)	RD 5/8 (40)	0	0.83	2'-0"			
1.13	0.00	-23.01	Top Hambro	RD 5/8 (40)	0	0.74	2'-0"			
1.14	0.00	-19.57	RD 5/8 (40)	RD 5/8 (40)	0	0.83	2'-0"			
1.15	0.00	-15.41	Top Hambro	do	0	0.95	2'-0"			
1.16	0.00	-10.51	RD 5/8 (40)	do	0	0.64	2'-0"			
1.17	0.00	-5.96	Top Hambro	do	0	0.37	0'-8"			
1.18	0.00	-5.96	Top Hambro	Top Hambro	0	0.37	2'-0 1/2"			

Bottom Chord	Top Chord	Slend.	Util.	Length	REQUIRED WELD	EFF.Throat-Ea.Side	Remarks
2.1	0.00	0.00	0.00	2'-0 1/2"			
2.2	21.25	0.00	0.00	1'-8"			
2.3	21.62	0.00	0.00	2'-0"			
2.4	29.18	0.00	0.00	2'-0"			
2.5	35.59	0.00	0.00	2'-0"			