



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

Mark: J01

FORCES IN MEMBERS [kips]									
(THE SHOWN FORCES ARE REALIS)									
(FY = 50 KSI U/N)									
(EFF. depth = 18.14 in)									
Left Reaction = 7.15/ 0.00 kips Right Reaction = 7.15/ 0.00 kips									
REQUIRED WELD									
Eff. Throat-Ea. Side									
Remarks									
No	Tension	Compres.	REQUIRED MATERIAL	Util.	Length	REQUIRED WELD	Eff. Throat-Ea. Side	Remarks	
x = tied at mid-length									
Top Chord	0.00	-5.47	Top Hambro	0 0.34	2'-0 1/2"				
1.1	0.00	-5.47	do	0 0.34	0'-8"				
1.2	0.00	-5.47	do	0 0.59	2'-0"				
1.3	0.00	-9.59	do	0 0.86	2'-0"				
1.4	0.00	-17.64	do	0 0.85	2'-0"				
1.5	0.00	-17.64	Top Hambro	0 0.99	2'-0"				
1.5 F	0.00	-20.56	RD 1/2"	0 0.99	2'-0"				
1.6	0.00	-20.56	Top Hambro	0 0.90	2'-0"				
1.6 F	0.00	-22.75	RD 1/2"	0 0.95	2'-0"				
1.7	0.00	-22.75	Top Hambro	0 0.98	2'-0"				
1.7 F	0.00	-24.21	RD 1/2"	0 0.98	2'-0"				
1.8	0.00	-24.21	Top Hambro	0 0.98	2'-0"				
1.8 F	0.00	-24.95	RD 1/2"	0 0.98	2'-0"				
1.9	0.00	-24.95	Top Hambro	0 0.98	2'-0"				
1.9 F	0.00	-24.95	RD 1/2"	0 0.98	2'-0"				
Bottom Chord	0.00	0.00	Lt 2 x .186	z 58 0.23	2'-0 1/2"				
2.1	0.00	0.00	do	z 51 0.38	1'-8"				
2.2	11.26	0.00	do	z 61 0.50	2'-0"				
2.3	11.26	0.00	do	z 61 0.71	do				
2.4	24.94	0.00	do	z 61 0.80	do				
2.5	30.07	0.00	do	z 61 0.87	do				
2.6	34.06	0.00	do	z 61 0.92	2'-0"				
2.7	38.62	0.00	Lt 2 x .186	z 58 0.23	2'-0 1/2"				
2.8	38.62	0.00	do	z 51 0.38	1'-8"				
2.9	39.19	0.00	do	z 61 0.92	2'-0"				
End Diagonal	0.00	0.00	RD 11/16 (44)	z 120 1.00	2'-2 5/8"				
3.1	11.18	0.00	RD 11/16 (44)	z 91 0.63	1'-8"				
Diagonal Towards End	0.00	0.00	RD 3/4 (48)	z 84 0.45	do				
4.1	7.00	0.00	RD 3/4 (48)	z 91 0.34	do				
4.2	4.85	0.00	RD 11/16 (44)	z 91 0.24	do				
4.3	3.77	0.00	do	z 91 0.20	do				
4.5	2.69	0.00	do	z 91 0.20	do				
4.6	2.23	0.00	do	z 91 0.20	do				
4.7	2.23	0.00	RD 11/16 (44)	z 82 1.00	1'-5 7/8"				
Diagonal Towards Center	0.00	-6.90	RD 3/4 (48)	z 84 0.87	1'-8"				
5.1	0.00	-6.90	RD 3/4 (48)	z 84 0.76	do				
5.2	0.00	-5.92	RD 11/16 (44)	z 91 0.61	do				
5.4	0.00	-4.85	do	z 91 0.44	do				
5.5	0.00	-3.77	do	z 91 0.36	do				
5.6	0.00	-2.69	do	z 91 0.36	do				
5.7	0.00	-2.23	do	z 91 0.36	do				
5.8	0.00	-2.23	do	z 91 0.36	do				