



Project: WEST MIAMI SIX MODEL B

01/24/05 170730

Mark: 108

FORCES IN MEMBERS [kips]									
(THE SHOWN FORCES ARE REALS)									
(Fy = 50 KSI U/N)									
Left Reaction = 2.41/ 0.00 kips Right Reaction = 2.41/ 0.00 kips									
Eff. depth = 18.40 in)									
REQUIRED WELD									
Eff. throat-Sa. Side Remarks									
No	Tension	Compres.	REQUIRED MATERIAL		Slend.	Util.	Length		
x = tied at mid-length									
Top Chord									
1.1	0.00	-1.70	Top Hambro		0	0.10	2'-0 1/2"		
1.2	0.00	-1.70	do		0	0.10	0'-8"		
1.3	0.00	-2.51	do		0	0.15	2'-0"		
1.4	0.00	-2.50	Top Hambro		0	0.18	2'-0"		
Bottom Chord									
2.1	0.00	0.00	LL 1.5 x .109		z	77	0.14	2'-0 1/2"	
2.2	3.11	0.00	do		z	67	0.19	1'-8"	
2.3	4.24	0.00	LL 1.5 x .109		z	81	0.22	2'-0"	
End Diagonal									
3.1	3.31	0.00	RD 1/2"		z	171	0.56	2'-2 5/8"	.170 - 0 5/8"
Diagonal Towards End									
4.1	1.08	0.00	RD 1/2"		z	131	0.18	1'-8"	.170 - 0 5/8"
4.2	0.00	-0.75	RD 1/2"		z	131	0.44	1'-8"	.170 - 0 5/8"
Diagonal Towards Center									
5.1	0.00	-1.61	RD 1/2"		z	118	0.76	1'-5 7/8"	.170 - 0 5/8"
5.2	0.00	-1.08	RD 1/2"		z	131	0.63	1'-8"	.170 - 0 5/8"
Secondary Web Member									
7.1	0.00	-0.57	RD 1/2"		z	106	0.22	1'-4"	.170 - 0 5/8"

Maximum spacing between rows of bridging
@ Top Chord: Roll Bars spaced at 21" C/C (533 mm).
@ Bottom Chord: ==> 0 Row(s) Minimum
Laterals supports

V3.6.3.1

Keep 1/3 stress increase for wind : No
Fabrication code unless noted
Welds are made with legs back to back, W = 2 angles welded in box, BR = round bar
-U = 1 U profile, UV = 2 U profiles one inside the other, -CL = crimped angle
The welding length of web members is calculated according to non continuous joints.
It is shorter for continuous joints.

Project no.: H4182-021 Designer: Lois Avenaldas Shop: Jacksonville (Sales) Material sort: Weight

62 (60.42) / 69 (63.38) Area to Paint: 13.79 p12