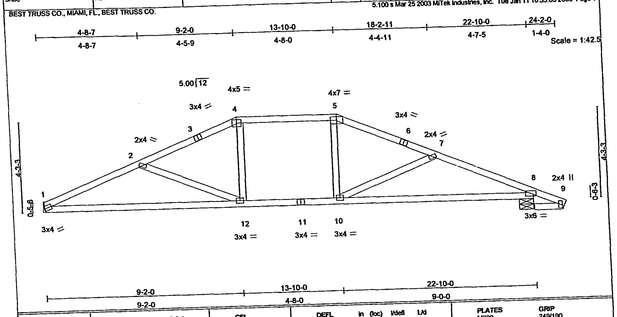
Job	Truss	Truss Type	Qty	Ply	SAWVAL BOATS/MOD. B	0000
5A06	H2	ROOF TRUSS	4	1	Job Reference (optional)	

BEST TRUSS CO., MIAMI, FL, BEST TRUSS CO.

5.100 s Mar 25 2003 MiTek Industries, Inc. Tue Jan 11 10:55:03 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.73	Vert(LL)	-0.26	1-12	>999	360	MT20	244/190
TCDL	15.0	Lumber Increase	1.33	BC	0.65	Vert(TL)	-0.48	1-12	>567	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.00	8	n/a	n/a	Weight: 100 lb	
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)								

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 3-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-8 oc bracing.

REACTIONS (lb/size) 1=1228/Mechanical, 8=1401/0-8-0
Max Horz 1=-720(load case 2)
Max Uplift1=-699(load case 2), 8=-1036(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=-2438, 2-3=-1933, 3-4=-1836, 4-5=-1716, 5-6=-1777, 6-7=-1920, 7-8=-2270, 8-9=35
BOT CHORD 1-12=2176, 11-12=1718, 10-11=1718, 8-10=1960
WEBS 2-12=516, 4-12=331, 5-10=253, 7-10=-276

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 146mph; h=20ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C Interior zone;Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 699 lb uplift at joint 1 and 1036 lb uplift at joint 8.
6) This truss design conforms with Florida Building Code 2001, based on parameters indicated.

LOAD CASE(S)
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-90.0, 4-5=-90.0, 5-9=-90.0, 1-8=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=71.8, 4-5=93.1, 5-9=71.8, 8-9=173.8, 1-8=-10.0
Horz: 1-4=-81.8, 5-8=81.8, 8-9=183.8
Drag: 4-5=0.0
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-90.0, 4-5=-90.0, 5-9=-30.0, 1-8=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30.0, 4-5=-90.0, 5-9=-90.0, 1-8=-20.0

4