Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/ MOD: B	0009
5A08	H5	ROOF TRUSS	4	1	Job Reference (optional)	

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

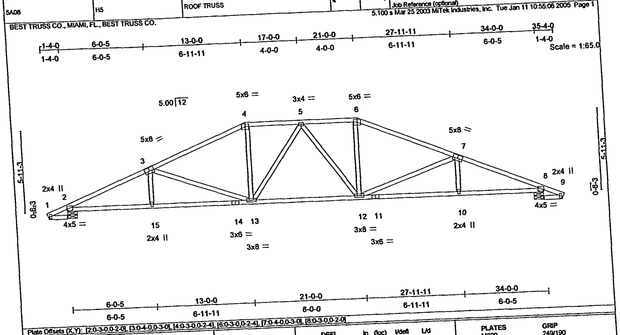

Plate Offsets (X,Y): [2:0-3-0,0-3-0], [10:0-4-0,0-3-0], [14:0-3-0,0-2-4], [6:0-3-0,0-2-4], [7:0-4-0,0-3-0], [8:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/def	Ltd	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.98	Vert(LL)	0.25	13	>999	360	MT20	244/190
TCDL	15.0	Lumber Increase	1.33	BC	0.79	Vert(TL)	-0.43	12-13	>929	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.15	8	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Simplified)							Weight: 177 lb	

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.
BOT CHORD Rigid ceiling directly applied or 4-7-13 oc bracing.

REACTIONS (lb/size) 2=1994/0-8-0, 8=1994/0-8-0
Max Uplift2=-1373(load case 2), 8=-1373(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=17, 2-3=-3527, 3-4=-2760, 4-5=-2562, 5-6=-2562, 6-7=-2760, 7-8=-3527, 8-9=17
BOT CHORD 2-15=3181, 14-15=3185, 13-14=3185, 12-13=2662, 11-12=3185, 10-11=3185, 8-10=3181
WEBS 3-15=128, 3-13=-680, 4-13=362, 5-13=-313, 5-12=-213, 6-12=362, 7-12=-680, 7-10=128

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 146mph; h=30ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1373 lb uplift at joint 2 and 1373 lb uplift at joint 8.
5) 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, 4-6=-90.0, 6-9=-90.0, 2-8=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-4=71.8, 4-6=80.1, 6-8=71.8, 8-9=173.8, 2-8=-10.0
Horz: 1-2=183.8, 2-4=81.8, 6-8=81.8, 8-9=183.8
Drag: 4-6=-0.1, 5-6=0.1
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-90.0, 4-6=-90.0, 6-9=-90.0, 2-8=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-90.0, 4-6=-90.0, 6-9=-90.0, 2-8=-20.0

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