Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/MOD: B	0007
5A06	H3	ROOF TRUSS	4	1	Job Reference (optional)	

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

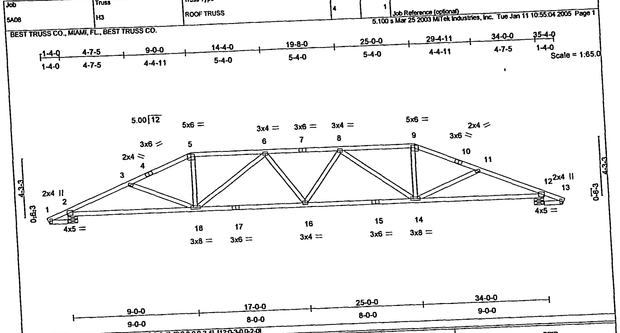

Plate Offsets (X,Y): [2:0-3-0,0-2-4], [5:0-3-0,0-2-4], [8:0-3-0,0-2-4], [11:0-3-0,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.80	Vert(LL)	0.36	16	>999	360	MI20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.94	Vert(TL)	-0.51	14-15	>782	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.16	12	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI/95		(Simplified)							Weight: 170 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 or 2-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 0-2-0 oc bracing.

REACTIONS (lb/size) 2=1994/0-8-0, 12=1994/0-8-0
Max Uplift2=-1407(load case 2), 12=-1407(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=17, 2-3=-3172, 3-4=-3205, 4-5=-3205, 5-6=-2967, 6-7=-3764, 7-8=-3764, 8-9=-2967, 9-10=-3205, 10-11=-3205, 11-12=-3477, 12-13=17
BOT CHORD 2-18=3107, 17-18=3111, 16-17=3111, 15-16=3711, 14-15=3711, 13-14=3107
WEBS 3-18=-163, 5-18=787, 6-18=-913, 6-16=95, 8-16=95, 8-14=-913, 9-14=787, 11-14=-163

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 140mph; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1407 lb uplift at joint 2 and 1407 lb uplift at joint 12.
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: 1-5=-90.0, 5-9=-90.0, 9-13=-90.0, 2-12=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-5=71.8, 5-9=80.1, 9-12=71.8, 12-13=173.8, 2-12=-10.0
Horz: 1-2=-183.8, 2-5=-81.8, 9-12=-81.8, 12-13=-183.8
Drag: 5-6=-0.1, 8-9=-0.1
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-90.0, 5-9=-90.0, 9-13=-30.0, 2-12=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-30.0, 5-9=-90.0, 9-13=-90.0, 2-12=-20.0

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