Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/MOD B	0005
5A08	H1	ROOF TRUSS	1	1	Job Reference (optional)	

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

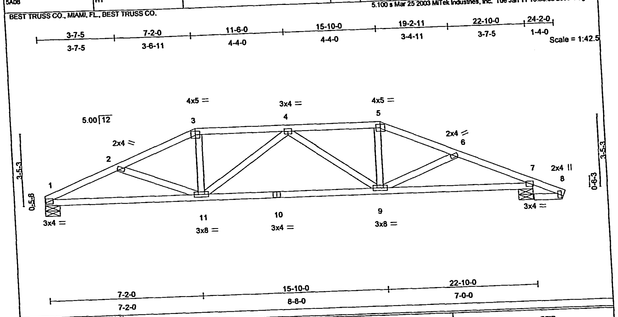

Plate Offsets (X,Y): [7:0-2-4,0-1-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/def Ldl	PLATES GRIP
TCLL 30.0	Plates Increase 1.33	TC 0.49	Vert(LL) 0.11 11 >999 360	MI20 249/190
TCDL 15.0	Lumber Increase 1.33	BC 0.61	Vert(TL) -0.27 9-11 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.22	Horz(TL) 0.06 7 n/a n/a	Weight: 109 lb
BCDL 10.0	Code FBC2001/ANSI95	(Simplified)		

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
7-10:2 X 4 SYP SS
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 4-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-4 oc bracing.

REACTIONS (lb/size) 1=1215/0-8-0, 7=1330/0-8-0
Max Horz 1=72(load case 2)
Max Uplift 1=-721(load case 2), 7=-1031(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=-2230, 2-3=-1955, 3-4=-1850, 4-5=-1828, 5-6=-1959, 6-7=-2160, 7-8=17
BOT CHORD 1-11=1987, 10-11=2084, 9-10=2084, 7-9=1909
WEBS 2-11=-168, 3-11=400, 4-11=-305, 4-9=-335, 5-9=308, 6-9=-111

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 145mph; 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 721 lb uplift at joint 1 and 1031 lb uplift at joint 7.
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: 1-3=-90.0, 3-5=-90.0, 5-8=-60.0, 1-7=-20.0
2) C.C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=71.8, 3-5=80.1, 5-7=71.8, 7-8=173.8, 1-7=-10.0
Horz: 1-3=-81.8, 5-7=81.8, 7-8=183.8
Drag: 3-4=-0.1, 4-5=0.1
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90.0, 3-5=-90.0, 5-8=-30.0, 1-7=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30.0, 3-5=-90.0, 5-8=-60.0, 1-7=-20.0

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