Job	Truss	Truss Type	Qty	Ply	SANVAL BOATSF MOD: B	0027
SA08	T2	ROOF TRUSS	24	1	Job Reference (optional)	

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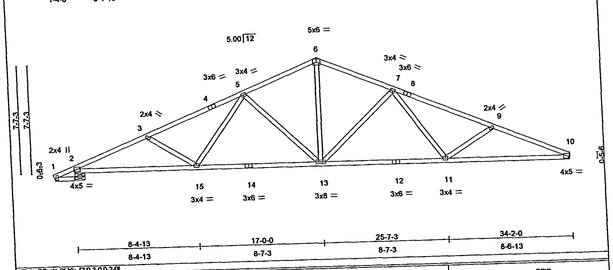
BEST TRUSS CO., MIAMI, FL, BEST TRUSS CO.

Scale = 1:62.7



8-4-13	17-0-0	25-7-3	34-2-0
8-4-13	8-7-3	8-7-3	8-6-13

Plate Offsets (X,Y): [2:0-3-0,0-2-0]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc) l/defl Ltd	PLATES GRIP
TCLL 30.0	Plates Increase 1.33	TC 0.90	Vert(LL) 0.28 13 >999 360	MI20 245/190
TCDL 15.0	Lumber Increase 1.33	BC 0.91	Vert(TL) -0.50 11-13 >813 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.80	Horz(TL) 0.15 10 n/a n/a	Weight: 171 lb
BCDL 10.0	Code FBC2001/ANSI/95	(Simplified)		

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 3-11-8 oc bracing.

REACTIONS (lb/size) 2=2015/0-8-0, 10=1857/Mechanical
Max Horz 2=720(load case 2)
Max Uplift2=-1303(load case 2), 10=-1043(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=17, 2-3=-3550, 3-4=-3173, 4-5=-3173, 5-6=-2328, 6-7=-2328, 7-8=-3292, 8-9=-3292, 9-10=-3760
BOT CHORD 2-15=3185, 14-15=2702, 13-14=2702, 12-13=2749, 11-12=2749, 10-11=2429
WEBS 3-15=-309, 5-15=405, 5-13=-783, 6-13=1328, 7-13=-850, 7-11=521, 9-11=-469

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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1303 lb uplift at joint 2 and 1043 lb uplift at joint 10.
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: 1-6=-90.0, 6-10=-90.0, 2-10=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-6=71.8, 6-10=71.8, 2-10=-10.0
Horz: 1-2=-183.8, 2-6=-81.8, 6-10=-81.8
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-90.0, 6-10=-30.0, 2-10=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30.0, 6-10=-90.0, 2-10=-20.0

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