Job	Truss	Truss Type	Qty	Ply	SANVAL BGATSF MOD. B	0013
SA06	H7	ROOF TRUSS	4	1	Job Reference (optional)	

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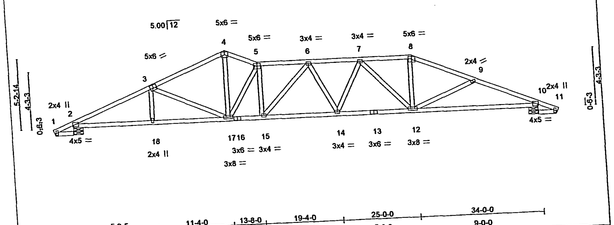
BEST TRUSS CO., MIAMI, FL., BEST TRUSS CO.

1-4-0 | 5-9-5 | 11-4-0 | 13-8-0 | 17-5-5 | 21-2-11 | 25-0-0 | 29-4-11 | 34-0-0 | 35-4-0

1-4-0 | 5-9-5 | 5-6-11 | 2-4-0 | 3-9-5 | 3-9-5 | 3-9-5 | 4-4-11 | 4-7-5 | 1-4-0

Scale = 1:66.4



5-9-5 | 11-4-0 | 13-8-0 | 19-4-0 | 25-0-0 | 34-0-0

5-9-5 | 5-6-11 | 2-4-0 | 5-8-0 | 5-8-0 | 9-0-0

Plate Offsets (X,Y): [2:0-3-0,0-2-8], [5:0-3-0,0-3-0], [8:0-3-0,0-2-4], [10:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/def	Ltd	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.83	Vert(LL)	0.36	15	>999	360	MI20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.90	Vert(TL)	-0.49	14-15	>810	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.15	10	n/a	n/a	Weight: 184 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
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 2-9-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-1-6 oc bracing.

REACTIONS (lb/size) 2=1994/0-8-0, 10=1994/0-8-0
Max Uplift2=-1300(load case 2), 10=-1304(load case 2)

FORCES (lb) - Final Load Case Only
TOP CHORD 1-2=17, 2-3=-3538, 3-4=-2957, 4-5=-2954, 5-6=-3703, 6-7=-3729, 7-8=-3699, 8-9=-3208, 9-10=-3477, 10-11=17
BOT CHORD 3-18=3168, 17-18=3168, 16-17=3095, 15-16=3095, 14-15=3824, 13-14=3680, 12-13=3680, 10-12=3107
WEBS 3-16=110, 3-17=-497, 4-17=1920, 5-17=-1888, 5-15=213, 6-15=-180, 6-14=-223, 7-14=345, 7-12=-877, 8-12=856, 9-12=-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 1300 lb uplift at joint 2 and 1304 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: 1-4=-90.0, 4-5=-90.0, 5-8=-90.0, 8-11=-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, 2-4=71.8, 4-5=71.8, 5-8=80.1, 8-10=71.8, 10-11=173.8, 2-10=-10.0
Horz: 1-2=-183.8, 2-4=-81.8, 4-5=81.8, 8-10=-81.8, 10-11=183.8
Drag: 5-8=-0.1, 7-8=0.1
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-90.0, 4-5=-30.0, 5-8=-30.0, 8-11=-30.0, 2-10=-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, 5-8=-90.0, 8-11=-90.0, 2-10=-20.0

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