Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/ MOD. B	0018
5A08	HG4	ROOF TRUSS	4	1	Job Reference (optional)	

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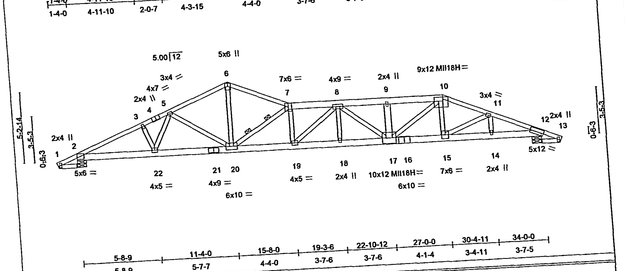
BEST TRUSS CO., MIAMI FL, BEST TRUSS CO.

1-4-0 | 4-11-10 | 7-0-1 | 11-4-0 | 15-8-0 | 19-3-6 | 22-10-12 | 27-0-0 | 30-4-11 | 34-0-0 | 35-4-0

1-4-0 | 4-11-10 | 2-0-7 | 4-3-15 | 4-4-0 | 3-7-6 | 3-7-6 | 4-1-4 | 3-4-11 | 3-7-5 | 1-4-0

Scale = 1:66.4



5-8-9 | 11-4-0 | 15-8-0 | 19-3-6 | 22-10-12 | 27-0-0 | 30-4-11 | 34-0-0

5-8-9 | 5-7-7 | 4-4-0 | 3-7-6 | 3-7-6 | 4-1-4 | 3-4-11 | 3-7-5

Plate Offsets (X,Y): [2:0.0psf,0.1,7], [10:0.4,0.0], [12:0.0,0.2,13]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/def L/d	PLATES GRIP
TCLL 30.0	Plates Increase 1.33	TC 1.00	Vert(LL) 0.80 18 >499 360	MI20 249/190
TCDL 15.0	Lumber Increase 1.33	BC 0.75	Vert(TL) -0.97 18 >410 180	MII18H 190/185
BCLL 0.0	Rep Stress Incr NO	WB 0.66	Horz(TL) 0.22 12 n/a n/a	
BCDL 10.0	Code FBC2001/ANSI95	(Simplified)		Weight: 223 lb

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
6-7 2 X 4 SYP SS, 7-10 2 X 6 SYP SS, 10-13 2 X 4 SYP SS
BOT CHORD 2 X 6 SYP SS
WEBS 2 X 4 SYP No.3 *Except*
6-20 2 X 4 SYP No.2, 7-20 2 X 4 SYP No.2, 9-17 2 X 6 SYP No.2
10-17 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 1-11-13 oc purlins. Except:
6-7: 1 Row at midpt
Rigid ceiling directly applied or 3-2-2 oc bracing.
BOT CHORD 2 Rows at 1/3 pts
WEBS 7-20

REACTIONS (lb/size) 2=2966/0-8-0, 12=4380/0-8-0
Max Horz 2=40(load case 2)
Max Uplift2=-202(load case 2), 12=-302(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=21, 2,3=-8931, 3,4=-5808, 4,5=-5808, 5,6=-5404, 6,7=-5420, 7,8=-10045, 8,9=-11865, 9,10=-11865, 10,11=-9221, 11,12=-9058, 12,13=21
BOT CHORD 2-22=0/97, 21,22=-5319, 20,21=5319, 19,20=9991, 18,19=11230, 17,18=11230, 16,17=8074, 15,16=8074, 14,15=8107, 12,14=8107
WEBS 3-22=12, 5,22=126, 5,20=-404, 6,20=3808, 7,20=-6091, 7,19=1097, 8,19=1562, 8,18=71, 8,17=821, 9,17=-550, 10,17=4061, 10,12=-623,
11,12=-85, 11,14=68

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) All plates are MII20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202lb uplift at joint 2 and 302lb uplift at joint 12.
6) This truss design conforms with Florida Building Code 2001, based on parameters indicated.
7) Design assumes 4-0 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
8) Special hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 705.8lb down and 518.2lb up at, 27-0-0, and 2166.0lb down and 1300.7lb up at 22-10-12 on bottom chord. The design/selection of such special connection device(s) is the responsibility of others.

LOAD CASE(S)
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-90.0, 6-7=-60.0, 7-9=-60.0, 9-10=-187.5, 10-13=-90.0, 2-17=-20.0, 15-17=-41.7, 12-15=-20.0
Concentrated Loads (lb)
Vert: 17=-2166.0 15=-705.8
2) D.C.:Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-6=71.8, 6-7=71.8, 7-9=80.1, 9-10=183.9, 10-12=71.8, 12-13=173.8, 2-17=-10.0, 15-17=-20.8, 12-15=-10.0
Horz: 1-2=-183.8, 2-6=-81.8, 6-7=81.8, 10-12=81.8, 12-13=183.8
Drag: 7-9=0.8, 9-10=1.8
Concentrated Loads (lb)
Vert: 17=1300.7 15=518.2
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-90.0, 6-7=-30.0, 7-9=-30.0, 9-10=-127.5, 10-13=-30.0, 2-17=-20.0, 15-17=-41.7, 12-15=-20.0
Concentrated Loads (lb)
Vert: 17=-2166.0 15=-705.8

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