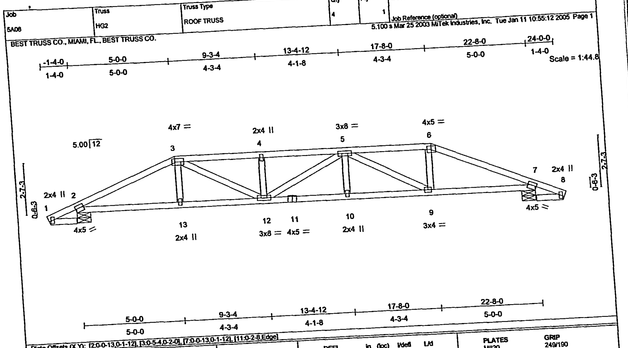
Job	Truss	Truss Type	Qty	Ply	SANVAL BOATS/ MOD B	0015
5A06	HG2	ROOF TRUSS	4	1	Job Reference (optional)	

BEST TRUSS CO., MIAMI, FL, BEST TRUSS CO. 8.100 s Mar 25 2003 MiTek Industries, Inc. Tue Jan 11 10:50:12 2005 Page 1



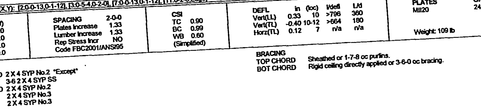


Plate Offsets (X,Y): [2:0-0-13,0-1-13], [10:0-5-0,0-2-8], [7:0-0-13,0-1-12], [11:0-2-8,Edge]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plates Increase 1.33	TC 0.90	Vert(LL) 0.33 10 >799 360	MT20 245/190
TCDL 15.0	Lumber Increase 1.33	BC 0.99	Vert(TL) -0.40 10-12 >664 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.60	Horz(TL) 0.12 7 n/a n/a	Weight: 109 lb
BCDL 10.0	Code FBC2001/ANSI95	(Simplified)		

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
3-6 2 X 4 SYP SS
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 1-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-6-0 oc bracing.

REACTIONS (lb/size) 7=2090/0-8-0, 2=2090/0-8-0
Max Uplift=-1590(load case 2), 2=-1590(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=17, 2-3=-3793, 3-4=-4769, 4-5=-4769, 5-6=-3475, 6-7=-3793, 7-8=17
BOT CHORD 2-13=3402, 13-13=3429, 11-12=4769, 10-11=4769, 9-10=4769, 7-9=3402
WEBS 3-13=435, 3-12=1522, 4-12=-591, 5-12=0, 5-10=131, 5-9=-1483, 6-9=1169

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 145mph; h=30ft; 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 1590 lb uplift at joint 7 and 1590 lb uplift at joint 2.
5) This truss design conforms with Florida Building Code 2001, based on parameters indicated.
6) Girder carries hip end with 5-0-0 end setback.
7) Special hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 320.8lb down and 235.6lb up at 17-8-0, and 320.8lb down and 235.6lb up at 5-0-0 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 (psf)
Vert: 1-3=-80.0, 3-6=-142.5, 6-8=-80.0, 2-13=-20.0, 9-13=-31.7, 7-9=-20.0
Concentrated Loads (lb)
Vert: 13=-320.8 9=-320.8
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-18.8, 2-3=-71.8, 3-6=-136.0, 6-7=-71.8, 7-8=-173.8, 2-13=-10.0, 9-13=-15.8, 7-9=-10.0
Horz: 1-2=-183.8, 2-3=-81.8, 6-7=-81.8, 7-8=-183.8
Drag: 3-4=-9.2, 5-6=-9.2
Concentrated Loads (lb)
Vert: 13=235.6 9=235.6
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (psf)
Vert: 1-3=-80.0, 3-6=-142.5, 6-8=-80.0, 2-13=-20.0, 9-13=-31.7, 7-9=-20.0
Concentrated Loads (lb)
Vert: 13=-320.8 9=-320.8
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (psf)
Vert: 1-3=-80.0, 3-6=-142.5, 6-8=-80.0, 2-13=-20.0, 9-13=-31.7, 7-9=-20.0
Concentrated Loads (lb)
Vert: 13=-320.8 9=-320.8

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