Job	Truss	Truss Type	Qty	Ply	SANVAL BOATS/MOD. B	0017
5A06	HG3	ROOF TRUSS	4	1	Job Reference (optional)	

BEST TRUSS CO., MIAMI, FL., BEST TRUSS CO. 5.100 s Mar 25 2003 MiTek Industries, Inc. Tue Jan 11 10:35:13 2005 Page 1

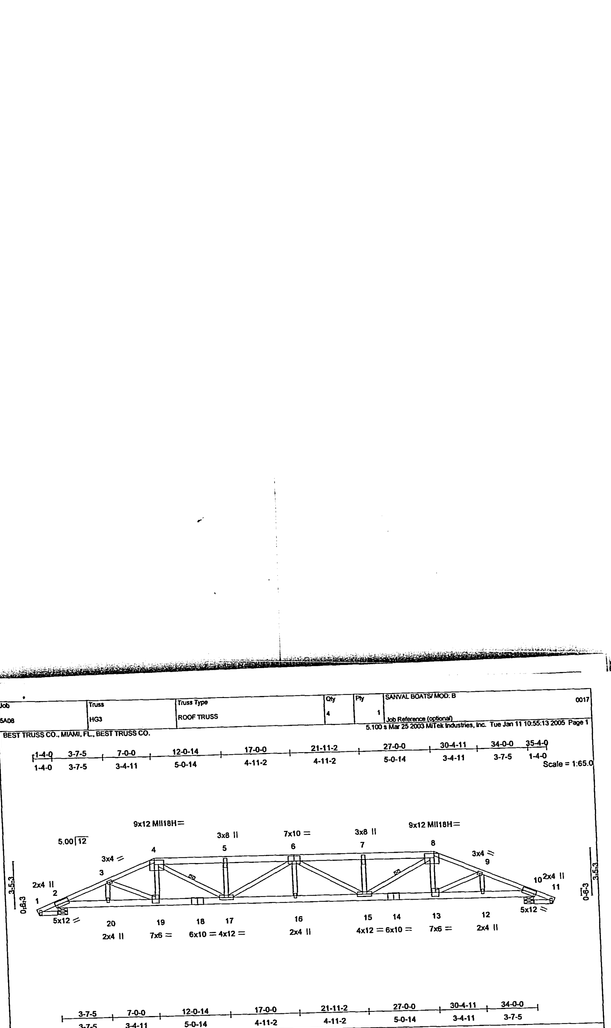

Plate Offsets (X,Y): [2:0-5-0,0-2-13], [4:0-4-8,0-3-12], [8:0-5-0,0-4-8], [9:0-4-8,0-3-12], [10:0-5-0,0-2-13], [18:0-5-0,0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.68	Vert(LL)	0.87	16	>458	360	MT20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.80	Vert(TL)	-0.96	16	>400	180	MII18H	195/188
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(TL)	0.23	10	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI/95		(Simplified)							Weight: 222 lb	

LUMBER
TOP CHORD 2 X 4 SYP SS *Except*
6-8 2 X 6 SYP SS, 4-5 2 X 6 SYP SS
BOT CHORD 2 X 6 SYP SS
WEBS 2 X 4 SYP No.3 *Except*
4-17 2 X 4 SYP No.2, 6-17 2 X 4 SYP No.2, 6-15 2 X 4 SYP No.2, 8-15 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 2-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-11-9 oc bracing.
WEBS 1 Row at midpt 4-17, 8-15

REACTIONS (lb/size) 2=3885/0-8-0, 10=3885/0-8-0
Max Uplift2=-2872(cnst case 2), 10=-2872(cnst case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=31, 2-3=7955, 3-4=-8042, 4-5=-10487, 5-6=-10487, 6-7=-10487, 7-8=-10487, 8-9=-8042, 9-10=-7955, 10-11=31
BOT CHORD 1-20=7126, 19-20=7120, 18-19=7485, 17-18=7485, 16-17=11422, 15-16=11422, 14-15=7485, 13-14=7485, 12-13=7120, 10-12=7120
WEBS 3-20=63, 3-19=365, 4-19=692, 4-17=3491, 5-17=-1011, 6-17=-1033, 6-16=205, 6-15=-1093, 7-15=-1011, 8-15=3491, 8-13=692, 9-13=365, 9-12=63

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 140mph; 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) All plates are MII20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2872 lb uplift at joint 2 and 2872 lb uplift at joint 10.
6) This truss design conforms with Florida Building Code 2001, based on parameters indicated.
7) Girder carries hip end with 7-0-0 end setback.
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 705.8lb down and 518.2lb up at 7-0-0 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 (plf)
Vert: 1-4=-20.0, 4-8=-187.5, 8-11=-60.0, 2-19=-20.0, 13-19=-41.7, 10-13=-20.0
Concentrated Loads (lb)
Vert: 19=-705.8 13=-705.8
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-4=71.8, 4-8=183.9, 8-10=71.8, 10-11=173.8, 2-19=-10.0, 13-19=-20.8, 10-13=-10.0
Horz: 1-3=-183.8, 2-4=-81.8, 8-10=81.8, 10-11=183.8
Drag: 4-5=1.4, 7-8=-1.4
Concentrated Loads (lb)
Vert: 19=518.2 13=518.2
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-20.0, 4-8=-187.5, 8-11=-60.0, 2-19=-20.0, 13-19=-41.7, 10-13=-20.0
Concentrated Loads (lb)
Vert: 19=-705.8 13=-705.8
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-20.0, 4-8=-187.5, 8-11=-60.0, 2-19=-20.0, 13-19=-41.7, 10-13=-20.0

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