Job	Truss	Truss Type	Qty	Ply	SANVAL BOATS/ MOD: B	0003
SA06	CJ9	ROOF TRUSS	12	1	Job Reference (optional)	

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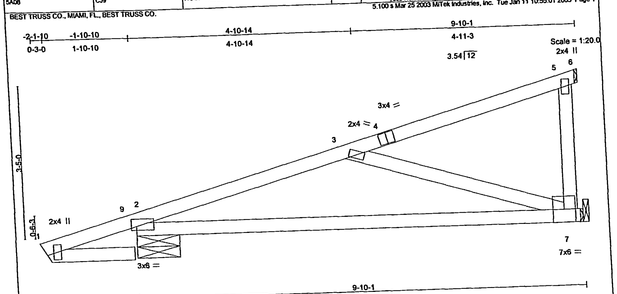
BEST TRUSS CO., MIAMI, FL, BEST TRUSS CO.



LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.99	Vert(LL)	-0.18	3-7	>638	360	MT20	244/190
TCDL	15.0	Lumber Increase	1.33	BC	0.55	Vert(TL)	0.44	1	>45	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 48 lb	

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 1-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.

REACTIONS (lb/size) 2=649/0-11-5, 7=861/Mechanical
Max Horz 2=402(load case 2)
Max Uplift2=-618(load case 2), 7=-618(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-9=30, 2-9=30, 2-3=-973, 3-4=-114, 4-5=79, 5-6=-17
BOT CHORD 2-7=908
WEBS 3-7=-954, 5-7=-441

NOTES
1) Wind: ASCE 7-98; 146mph; 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.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 618 lb uplift at joint 2 and 618 lb uplift at joint 7.
4) 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: 1-9=-90.0
Trapezoidal Loads (plf)
Vert: 9=0.0-to-5=-221.4, 2=-1.7-to-7=-49.2
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-173.6
Horz: 1-9=-189.6
Trapezoidal Loads (plf)
Vert: 9=92.2-to-2=-97.2, 2=-0.5-to-5=192.0, 5=289.7-to-6=295.3, 2=-0.9-to-7=-24.6
Horz: 9=-90.2-to-2=-98.0, 2=-0.3-to-3=-101.2, 3=-101.2-to-5=-215.8, 5=-313.8-to-6=-319.9

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