| Job | Truss | Truss Type | Qty | Ply | SANYAL BOATS/ MOD: B | 0012 |
|---|---|---|---|---|---|---|
| SA08 | H6A | ROOF TRUSS | 4 | 1 | Job Reference (optional) | |

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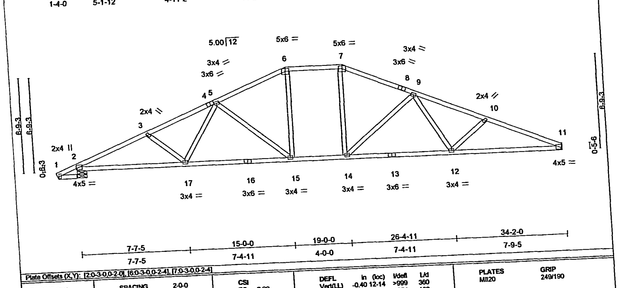
BEST TRUSS CO., MIAMI, FL. BEST TRUSS CO.

Scale: 3/16"=1'




| 7-7-5 | 15-0-0 | 19-0-0 | 26-4-11 | 34-2-0 |
|---|---|---|---|---|
| 7-7-5 | 7-4-11 | 4-0-0 | 7-4-11 | 7-9-5 |

Plate Offsets (X,Y): [2:0-3-0,0-2-4], [6:0-3-0,0-2-4], [7:0-3-0,0-2-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in (loc) | l/def | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 30.0 | Plates Increase | 1.33 | TC | 0.80 | Vert(LL) | -0.40 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 15.0 | Lumber Increase | 1.33 | BC | 0.83 | Vert(TL) | -0.62 12-14 | >654 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(TL) | 0.15 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2001/ANSI95 | | (Matrix) | | | | | | Weight: 171 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 2-10-9 oc purlins. Except:
6-7 1 Row at midpt
BOT CHORD Rigid ceiling directly applied or 4-3-13 oc bracing.

REACTIONS (lb/size) 2=2032/0-8-0, 11=1853/Mechanical
Max Horz 2=720(load case 2)
Max Uplift2=1379(load case 2), 11=-1051(load case 7)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=0, 2-3=-3008, 3-4=-3429, 4-5=-3255, 5-6=-2695, 6-7=-2411, 7-8=-2586, 8-9=-2695, 9-10=-3619, 10-11=-3948
BOT CHORD 2-17=3239, 16-17=2927, 15-16=2927, 14-15=2411, 13-14=2017, 12-13=3017, 11-12=3542
WEBS 3-17=-203, 5-17=329, 5-15=-391, 6-15=589, 7-14=625, 9-14=-821, 9-12=498, 10-12=-378

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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1379 lb uplift at joint 2 and 1051 lb uplift at joint 11.
6) This truss design conforms with Florida Building Code 2001, based on parameters indicated.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S)
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-90.0, 6-7=-90.0, 7-11=-90.0, 2-11=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-6=71.8, 6-7=63.1, 7-11=71.8, 2-11=-10.0
Horz: 1-2=-183.8, 2-6=-81.8, 7-11=-81.8
Drag: 6-7=-0.0
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-90.0, 6-7=-90.0, 7-11=-30.0, 2-11=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30.0, 6-7=-90.0, 7-11=-90.0, 2-11=-20.0

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