

Job 21030029-A	Truss B08	Truss Type Hip Girder	Qty 1	Ply 3	165 Beechleaf-Roof-BB-2230 Job Reference (optional)
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Carter Components, Sanford, NC, user

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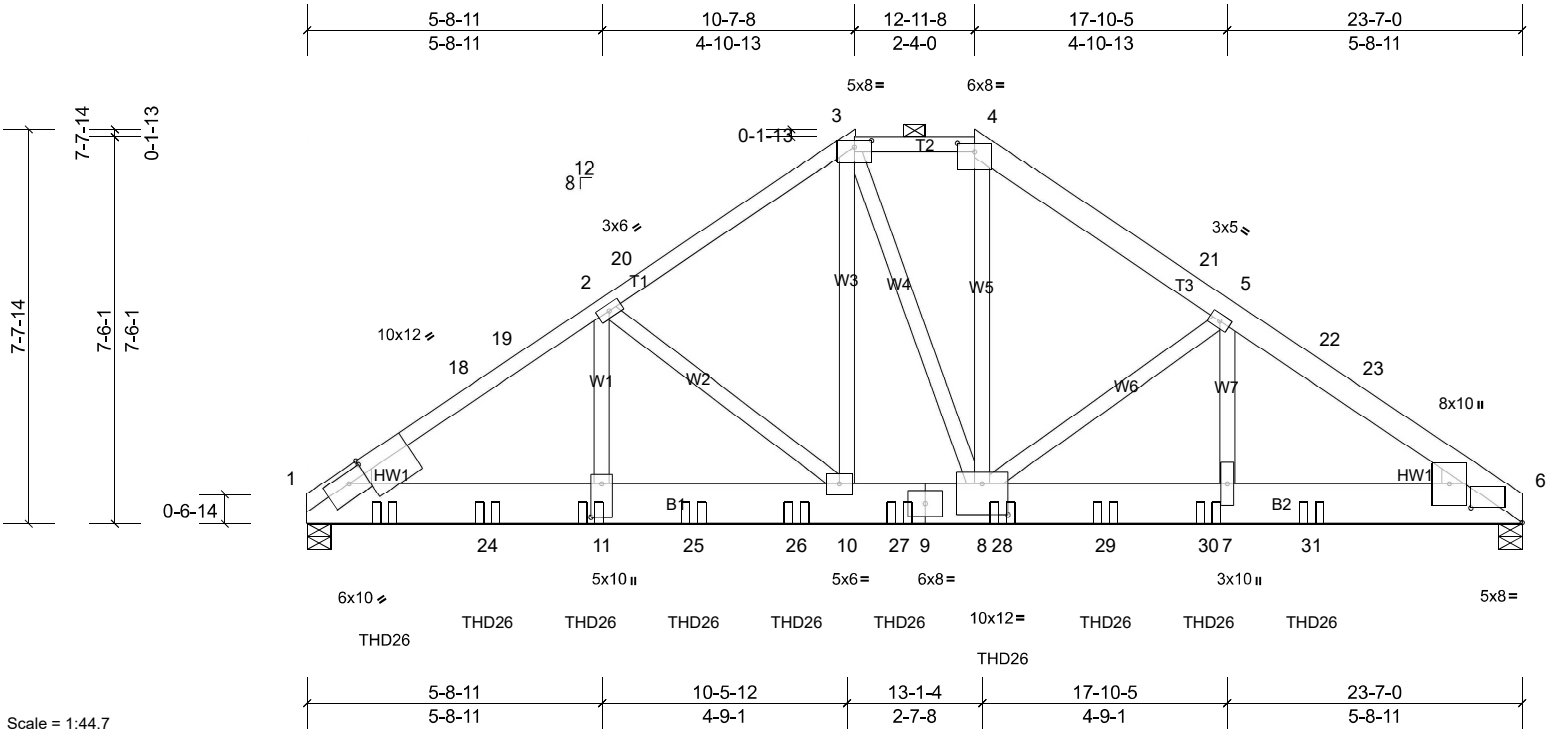


Plate Offsets (X, Y): [1:0-4-4,0-2-8], [1:0-4-4,Edge], [3:0-4-0,0-1-9], [4:0-4-0,0-2-0], [6:1-0-0,0-3-7], [8:0-6-0,0-7-4], [11:0-7-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	0.20	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.07	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.14	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 608 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2, T3:2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=6993/0-5-8, (min. 0-2-3), 6=6207/0-5-8, (min. 0-2-0)
Max Horiz 1=-167 (LC 55)
Max Grav 1=8023 (LC 44), 6=7198 (LC 46)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-11810/0, 18-19=-11768/0, 2-19=-11733/0, 2-20=-8971/0, 3-20=-8864/0, 3-4=-7631/0, 4-21=-9264/0, 5-21=-9326/0, 5-22=-11961/0, 22-23=-11996/0, 6-23=-12031/0
BOT CHORD 1-24=0/9896, 11-24=0/9896, 11-25=0/9896, 25-26=0/9896, 10-26=0/9896, 10-27=0/7406, 9-27=0/7406, 8-28=0/9959, 28-29=0/9959, 29-30=0/9959, 7-30=0/9959, 7-31=0/9959, 6-31=0/9959
WEBS 2-11=0/3203, 2-10=-3088/67, 3-10=0/4073, 3-8=0/893, 4-8=0/4746, 5-8=-2926/0, 5-7=0/2966

- NOTES**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 3 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-11 2x4 - 1 row at 0-5-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-0 from the left end to 19-6-0 to connect truss(es) B02 (1 ply 2x4 SP), B03 (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 11=-953 (B), 14=-953 (B), 24=-953 (B), 25=-1208 (B), 26=-1208 (B), 27=-1208 (B), 28=-1208 (B), 29=-1208 (B), 30=-1208 (B), 31=-1208 (B)