

Customer: David & Shelly Johnson

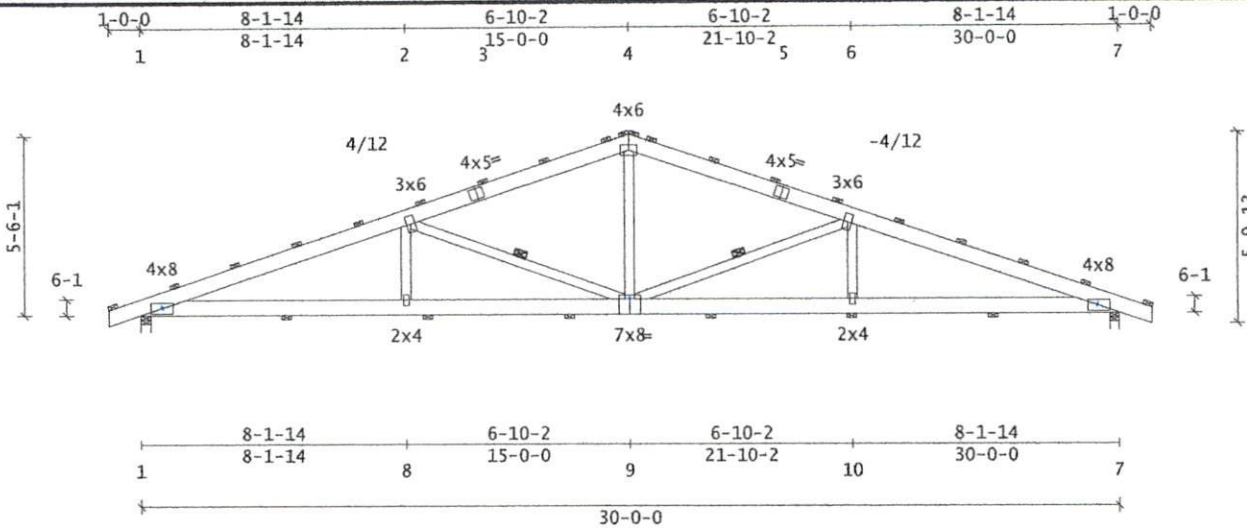
SID: 0000693380

TID: 105496

Date: 03/03/20

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Truss Mfr. Contact: Terrance Kirby



Code/Design: IBC-2015/TPI-2014  
 PSF Live Dead Dur Factors  
 TC 20.0 5.0 Live Wind Snow  
 BC 0.0 5.0 Lum 1.25 1.60 N/A  
 Total 30.0 Plt 1.25 1.60 N/A  
 Spacing: 5-00-00 o.c. Plies: 1  
 Repetitive Member Increase: No  
 Green Lumber: No Wet Service: No  
 Fab Tolerance: 20% Creep (Kcr) = 2.0  
 OH Soffit Load: 2.0 psf

-----Snow Load Specs-----  
 ASCE7-10 Ground Snow (Pg) = N/A  
 Risk Cat: I Terrain Cat: C  
 Roof Exposure: Partially Exposed  
 Thermal Condition: Unheated(1.2)  
 Unobstructed Slippery Roof: Yes  
 Low-Slope Minims (PfmIn): No  
 Unbalanced Snow Loads: No  
 Rain Surcharge: No Ice Dam Chk: Yes

-----Wind Load Specs-----  
 ASCE7-10 Wind Speed (V) = 120 mph  
 Risk Cat: I Exposure Cat: C  
 Bldg Dims: L = 0.0 ft B = 0.0 ft  
 M.R.H(h) = 15.0 ft Kzt = 1.0  
 Bldg Enclosure: Enclosed  
 Wind DL (psf): TC = 4.0 BC = 1.0  
 End Vertical Exposed: L = Yes R = Yes  
 Wind Uplift Reporting: HybridMW

-----Additional Design Checks-----  
 10 psf Non-Concurrent BCLL: No  
 20 psf BC Limited Storage: No  
 200 lb BC Accessible Ceiling: No  
 300 lb TC Maintenance Load: No  
 2000 lb TC Safe Load: No  
 Unbalanced TCLL: Yes

**Material Summary**

TC	2x6	SP (ALSC6-2013)	#1
BC	2x6	SP (ALSC6-2013)	#1
Webs	2x4	SP (ALSC6-2013)	#3/Stud

**Member Forces Summary**

Mem...	Ten	Comp	CSI
TC OH-1	47	0	0.06
1-2	3331	5267	0.70
2-3	2481	3657	0.57
3-4	2509	3572	0.55
4-5	2509	3572	0.55
5-6	2481	3657	0.57
6-7	3331	5267	0.70
7-OH	47	0	0.06
BC 1-8	4885	2933	0.94
7-10	4885	2957	0.96
8-9	4885	2933	0.88
9-10	4885	2957	0.90
Web 2-8	180	0	0.09
2-9	1203	1752	0.54
4-9	1462	860	0.55
6-9	1202	1752	0.54
6-10	180	0	0.09

**Reaction Summary**

Jnt	--X-Loc	React	-Up-	--Width-	-Reqd	-Mat	PSI
1	01-12	2385	804	03-08	03-06	SPF	470
7	29-10-04	2385	804	03-08	03-06	SPF	470

Max Horiz = -159 / +159 at Joint 1

**Loads Summary**

This truss has been designed for the effects of an unbalanced top chord live load occurring at [15-00-00] using a 1.00 Full and 0.00 Reduced load factor.  
 See Loadcase Report for loading combinations and additional details.  
 Dead Loads may be slope adjusted: > 12.0/12

**Notes**

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees  
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints. Designed with hybrid plate values. See TD-SUB-0001 for info.  
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRRBRACE. Alternatively, see D-WEBREINFORCE.

**Deflection Summary**

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999(-0.28)	8-9
Vert DL	L/120	L/999(-0.15)	8-9
Vert CR	L/180	L/828(-0.43)	8-9
Horz LL	0.75in	(0.09)	8Jt 7
Horz CR	1.25in	(0.14)	8Jt 7
Ohng CR	2L/90	L/999(0.00)	1-1
Ohng CR	2L/90	L/999(0.00)	7-7

Vert CR and Horz CR are the vertical and horizontal deflections due to live load plus the creep component of deflection due to dead load, computed as Defl\_LL + (Kcr - 1) x Defl\_DL in accordance with ANSI/TPI 1.

**Bracing Data Summary**

Chords	Sheathing	required	or	bracing	indicated:
TC	2-00-00	-1-00-00	31-00-00	17	
BC	4-04-00	0	30-00-00	7	

-----Web Bracing ----- CLR -----  
 Single: 2- 9 9- 6  
 Continuous Restraint Bracing Req'd  
 See BCSI-B3 3.0

**Plate offsets (X, Y):**

(None unless indicated below)  
 Jnt1(-00-06, -00-02), Jnt7(00-06, -00-02), Jnt9(0, -02-00)



Dansco Engineering, PA  
 License number C-3462  
 Date: 03/05/2020  
 DE Job# 72795-W1

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the "Important Information & General Notes" page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge, unless the specified plate size is followed by a "-18" which indicates an 18 gauge plate, or "S# 18", which indicates a high tension 18 gauge plate.



Component Solutions  
 Truss Studio V  
 2019.3.0.218  
 Helpdesk: 1-866-252-8606  
 CSHelp@strongtie.com

APPROVED  
Limited building only review  
Permit holder responsible for  
full compliance with the code



NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes  
and is subject to field inspection and verification.

03/16/2020

NOT TO SCALE

FOOTING  
6" CONC. MIX + BACK FILL

~~12" X 36" HOLE~~  
16

6X6 POST  
5' O.C.

(P.T.)  
4X4

4X4  
TRUSS  
5' O.C.

2.5 HURRICANE  
TIE

PRE-ENGINEERED  
TRUSS 5' O.C.

4X4  
RAKING  
2' O.C.

29 GA ROOFING +  
SLOING

