

Job Name:

Truss ID: 424

Qty: 1

BRG	X-LOC	REACT	SIZE	REQ'D
1	0-2-12	3816	5.50"	4.13"
2	23-9-4	3816	5.50"	4.13"

BRG REQUIREMENTS shown are based ONLY on the truss material at each bearing

MAX DEFLECTION (span) :  
L/591 MEM 3-4 (LIVE) LC 1  
L = -0.48" D = -0.12" T = -0.59"

CRITICAL MEMBER FORCES:

TC	COMP. (DUR.)	TENS. (DUR.)	CSI
1-2	-8363(1.15)	401(1.60)	0.80
2-3	-6014(1.15)	259(1.60)	0.67
3-4	-6014(1.15)	259(1.60)	0.67
4-5	-8363(1.15)	401(1.60)	0.80

BC	COMP. (DUR.)	TENS. (DUR.)	CSI
6-7	-339(1.60)	7679(1.15)	0.91
7-8	-351(1.60)	7673(1.15)	0.92
8-9	-351(1.60)	7673(1.15)	0.92
9-10	-339(1.60)	7679(1.15)	0.91

WB	COMP. (DUR.)	TENS. (DUR.)	CSI
2-7	-2381(1.15)	554(1.25)	0.23
2-8	-2381(1.15)	559(1.60)	1.00
3-8	-2381(1.15)	2157(1.15)	0.95
4-8	-2381(1.15)	359(1.60)	1.00
4-9	-2381(1.15)	554(1.25)	0.23

TC 2x6 SPF C2100F1.8E  
 BC 2x4 SPF C2400F2.0E  
 WEB 2x4 SPF #3-CAN  
 PLT BLK 2x4 SPF C1650F1.5E 2-8, 8-4  
 2x6 SPF C1650F1.5E  
 2x4 SPF #1/#2-CAN 11

Lumber shear allowables are per NDS.  
 IRC/IBC truss plate values are based on testing and approval as required by IBC 1703 and ANSI/TPI and are reported in available documents as ER-1607 and ER-1118.  
 20 psf bottom chord live load NOT required on this truss, per IRC/IBC requirements for attics with limited storage.

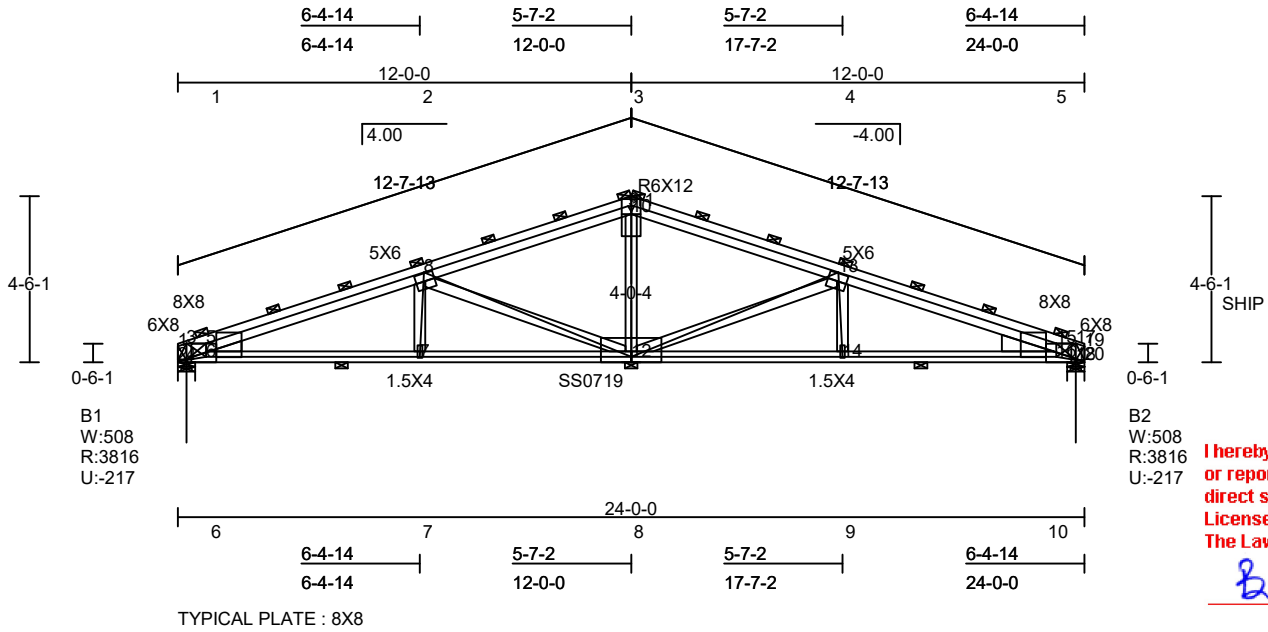
Designed per ANSI/TPI 1-2002  
 This design does not account for long term time dependent loading (Creep). Building Designer must account for this.  
 Refer to Joint QC Detail Sheet for Maximum Rotational Tolerance used  
 THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.  
 Loaded for 10 PSF non-concurrent BCLL.  
 Designed for a post-frame building application.

This design based on chord bracing applied per the following schedule:

TC	max o.c.	from	to
BC	24.00"	0-0-0	24-0-0
BC	120.00"	0-0-0	24-0-0

UPLIFT REACTION(S) :  
 Support Main Wind Non-Wind  
 1 -217 lb  
 2 -217 lb

This truss is designed using the ASCE7-05 Wind Specification  
 Bldg Enclosed = Yes, Importance Factor = 0.87  
 Truss Location = Not End Zone  
 Hurricane/Ocean Line = No, Exp. Category = C  
 Bldg Length = 80.00 ft, Bldg Width = 40.00 ft  
 Mean roof height = 12.25 ft, mph = 90  
 ASCE7 I Low Hazard, Dead Load = 11.0 psf  
 Designed as Main Wind Force Resisting System  
 - Low-rise  
 Tributary Area = 144 sqft



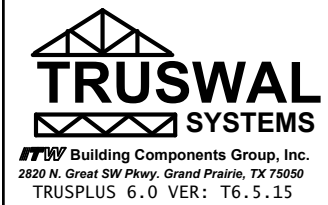
TYPICAL PLATE : 8X8

All connector plates are ITWBCG Wave 20 ga., unless preceded by "H" for High Strength 20 ga., "SS" for Super Strength. Plates are to be positioned per Joint Detail Reports. Circled plates and false frame plates are positioned as shown above. Shift gable stud plates to avoid overlap with structural plates (or staple).

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under The Laws of the State of Minnesota.

*Bradley E. Morris*  
 BRADLEY E. MORRIS

Date: 3/16/2012 License No. 41772



**WARNING** Read all notes on this sheet and give a copy of it to the Erecting Contractor.

This design is for an individual building component not truss system. It has been based on specifications provided by the component manufacturer and done in accordance with the current versions of TPI and AFPA design standards. No responsibility is assumed for dimensional accuracy. Dimensions are to be verified by the component manufacturer and/or building designer prior to fabrication. The building designer must ascertain that the loads utilized on this design meet or exceed the loading imposed by the local building code and the particular application. The design assumes that the top chord is laterally braced by the roof or floor sheathing and the bottom chord is laterally braced by a rigid sheathing material directly attached, unless otherwise noted. Bracing shown is for lateral support of components members only to reduce buckling length. This component shall not be placed in any environment that will cause the moisture content of the wood to exceed 19% and/or cause connector plate corrosion. Fabricate, handle, install and brace this truss in accordance with the following standards: Joint and Cutting Detail Reports available as output from Truswal software, 'ANSI/TPI 1', 'WTCA 1' - Wood Truss Council of America Standard Design Responsibilities, 'BUILDING COMPONENT SAFETY INFORMATION' - (BCSI) and 'BCSI SUMMARY SHEETS' by WTCA and TPI. The Truss Plate Institute (TPI) is located at 218 N. Lee Street Suite 312, Alexandria, VA 22314. The American Forest and Paper Association (AFPA) is located at 1111 19th Street, NW, Ste 800, Washington, DC 20036.

Cust:	WO: Drive_G_53pfi6_L0000		
Dsgnr:	#LC = 16	WT:	134#
TC Live	42.00 psf	LiveDur	L=1.15 P=1.15
TC Dead	4.00 psf	SnowDur	L=1.15 P=1.15
BC Live	0.00 psf	Rep Mbr Bnd / Comp / Tens	1.00 / 1.00 / 1.00
BC Dead	7.00 psf	O.C.Spacing	6- 0- 0
TOTAL	53.00 psf		
Bldg Code:	IRC-2006	DEFL RATIO:	L/240 TC: L/180