

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010076 BCTH-50

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I62907542 thru I62907553

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



January 9,2024

Gilbert, Eric

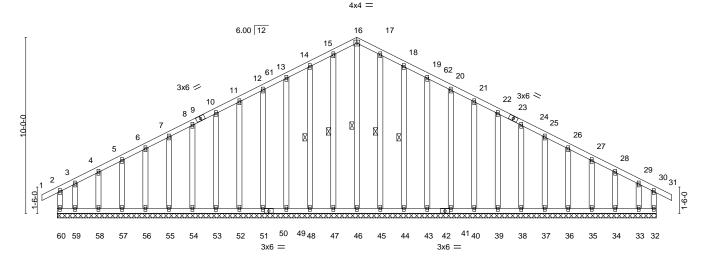
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty BCTH-50 162907542 24010076 A1GE **GABLE** 2 Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:33 2024 Page 1

ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-Ps52OPXWLUZ8iBh3pbnH35fjq6mDvIE2cpqlGkzxRf0 34-10-8 0-10-8 -0-10-8 0-10-8 15-8-0 17-0-0_|18-4-0_| 15-8-0 1-4-0 1-4-0 15-8-0

Scale = 1:65.4



		34-0-						
CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.17 BC 0.09 WB 0.12 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 31 -0.00 31 -0.00 32	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 310 lb	GRIP 244/190 FT = 20%

34-0-0

LUMBER-TOP CHORD

2x4 SP No 2

2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

BOT CHORD

WEBS

Rigid ceiling directly applied or 6-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

16-46, 15-47, 14-48, 17-45, 18-44

REACTIONS. All bearings 34-0-0.

Max Horz 60=-175(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39,

38, 37, 36, 35, 34, 33 except 60=-135(LC 14), 59=-136(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59,

45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 13-14=-110/264, 14-15=-124/294, 15-16=-130/305, 16-17=-130/305, 17-18=-124/294,

18-19=-110/264

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 17-0-0, Corner(3R) 17-0-0 to 20-4-13, Exterior(2N) 20-4-13 to 34-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=135, 59=136.
- 13) 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.

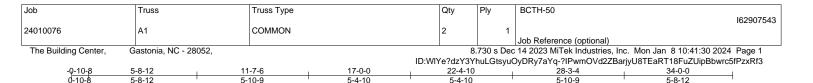


January 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





5-4-10

5-10-9

Structural wood sheathing directly applied or 3-10-3 oc purlins,

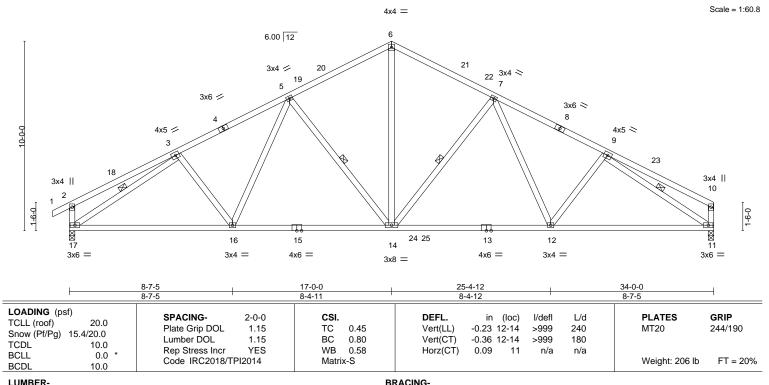
7-14, 5-14, 3-17, 9-11

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

5-8-12

5-4-10



TOP CHORD

BOT CHORD

WEBS

TOP CHORD

2x4 SP No.2

5-8-12

5-10-9

2x4 SP No.2 *Except* **BOT CHORD**

13-15: 2x4 SP No.1 WEBS 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 17=0-3-8 Max Horz 17=173(LC 15)

Max Uplift 11=-10(LC 16), 17=-35(LC 16) Max Grav 11=1448(LC 29), 17=1503(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-5=-2042/114, 5-6=-1618/155, 6-7=-1617/156, 7-9=-2048/118, 2-17=-304/99

BOT CHORD 16-17=-70/1827, 14-16=-27/1738, 12-14=-16/1666, 11-12=-63/1729 WFBS

7-14=-505/94, 7-12=0/295, 6-14=-39/1144, 5-14=-504/94, 5-16=0/291, 3-17=-1959/43,

9-11=-1998/69

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0. Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 33-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 17.
- 9) 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



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Job Truss Truss Type Qty Ply BCTH-50 162907544 24010076 A2 COMMON 8 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:35 2024 Page 1 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-MFDpp5Zms5psyUqSx0ql8WlsNvFnN28K47KsLdzxRf_ 22-10-3 17-5-0 0-5-0 34-0-0 -0-10-8 0-10-8 4-8-3 4-8-13 7-7-0 5-5-3 5-5-9 5-8-4 Scale: 3/16"=1 4x4 =

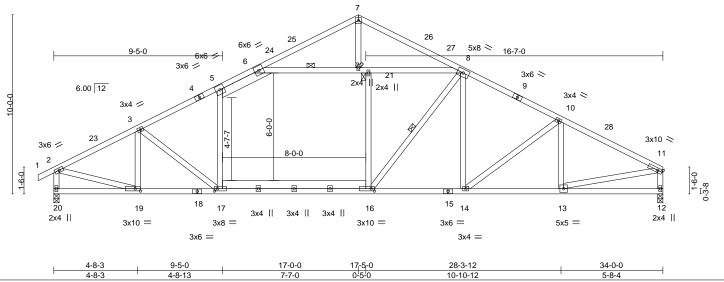


Plate Offsets (X,Y) [16:0-2-4	<u> 1,0-1-8], [17:0-2-0,0-1-8], [19:0-3-8,0-1-8</u>	3]		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 1.00 BC 0.86 WB 0.73 Matrix-S	Vert(LL) -0.12 17-19 >999 240 MT Vert(CT) -0.28 17-19 >999 180 Horz(CT) 0.05 12 n/a n/a	ATES GRIP F20 244/190 eight: 241 lb FT = 20%

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

16-17: 2x6 SP No.1 2x4 SP No.3 *Except*

WEBS 2x4 SP No.3 *Except* 5-17,16-21,6-8: 2x4 SP No.2, 5-6: 2x6 SP No.1

REACTIONS. (size) 12=0-3-8, 20=0-3-8

Max Horz 20=173(LC 15)

Max Grav 12=1476(LC 2), 20=1582(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2027/0, 3-5=-2076/0, 5-6=-1874/0, 6-7=-920/0, 7-8=-931/0, 8-10=-1987/0,

10-11=-2048/0, 2-20=-1536/0, 11-12=-1420/0

BOT CHORD 17-19=0/1783, 16-17=0/1783, 14-16=0/1712, 13-14=0/1769

WEBS 5-17=0/320, 16-21=-81/526, 6-22=-1329/6, 21-22=-1329/6, 8-21=-1329/6, 7-22=-58/524,

3-19=-372/13, 2-19=0/1762, 8-16=-251/441, 10-13=-267/39, 11-13=0/1707

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 33-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) 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.
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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



Structural wood sheathing directly applied, except end verticals.

6-21, 8-16

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 21

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	BCTH-50	
24010076	A2	COMMON	8	1		162907544
24010070	/AZ	COMMON			Job Reference (optional)	

The Building Center,

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:35 2024 Page 2 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-MFDpp5Zms5psyUqSx0ql8WlsNvFnN28K47KsLdzxRf_

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 17-20=-20, 16-17=-40, 12-16=-20

2) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-7=-70, 7-8=-70, 8-11=-60, 17-20=-20, 16-17=-40, 12-16=-20

3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-7=-60, 7-8=-60, 8-11=-50, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-43, 5-7=-53, 7-8=-53, 8-11=-43, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-43, 5-24=-53, 7-24=-75, 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-27, 2-5=-27, 5-7=-37, 7-27=-75, 8-27=-53, 8-11=-43, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-40, 16-17=-60, 12-16=-40

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=38, 2-23=18, 5-23=13, 5-7=3, 7-26=13, 8-26=3, 8-11=13, 17-20=-12, 16-17=-32, 12-16=-12

Horz: 1-2=-50, 2-23=-30, 7-23=-25, 7-26=35, 11-26=25, 2-20=21, 11-12=32 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=8, 2-5=13, 5-25=3, 7-25=13, 7-8=3, 8-28=13, 11-28=18, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-20, 2-25=-25, 7-25=-35, 7-28=25, 11-28=30, 2-20=-32, 11-12=-21

10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-32, 5-7=-42, 7-8=-42, 8-11=-32, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-8, 2-7=12, 7-11=-12, 2-20=30, 11-12=23

11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-5=-32, 5-7=-42, 7-8=-42, 8-11=-32, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=8, 2-7=12, 7-11=-12, 2-20=-23, 11-12=-30

12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=12, 2-5=-0, 5-7=-10, 7-8=-5, 8-11=5, 17-20=-12, 16-17=-32, 12-16=-12

Horz: 1-2=-24, 2-7=-12, 7-11=17, 2-20=13, 11-12=15 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=1, 2-5=5, 5-7=-5, 7-8=-10, 8-11=-0, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-13, 2-7=-17, 7-11=12, 2-20=-15, 11-12=-13

14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-23, 2-5=-27, 5-7=-37, 7-8=-22, 8-11=-12, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=3, 2-7=7, 7-11=8, 2-20=22, 11-12=6

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-7, 2-5=-12, 5-7=-22, 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-13, 2-7=-8, 7-11=-7, 2-20=-6, 11-12=-22

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=25, 2-5=13, 5-7=3, 7-8=3, 8-11=13, 17-20=-12, 16-17=-32, 12-16=-12

Horz: 1-2=-37, 2-7=-25, 7-11=25, 2-20=-19, 11-12=19 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=16, 2-5=4, 5-7=-6, 7-8=-6, 8-11=4, 17-20=-12, 16-17=-32, 12-16=-12

Horz: 1-2=-28, 2-7=-16, 7-11=16, 2-20=-19, 11-12=19 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3





Job	Truss	Truss Type	Qty	Ply	BCTH-50	
24010076	A2	COMMON	g.	1		162907544
24010070	<i></i>	OGWINION			Job Reference (optional)	

The Building Center,

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:36 2024 Page 3 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-qRnB1RaOdPxjZePeUkL_hkH17Jb06VOUIn3Ps3zxRez

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-29, 2-5=-29, 5-7=-39, 7-27=-90, 8-27=-61, 8-11=-51, 17-20=-20, 16-17=-40, 12-16=-20

23) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25. Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 14-16=-60, 12-14=-20

24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-45, 2-5=-49, 5-7=-59, 7-8=-47, 8-11=-37, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

Horz: 1-2=2, 2-7=6, 7-11=6, 2-20=16, 11-12=5 25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=-34, 2-5=-37, 5-7=-47, 7-8=-59, 8-11=-49, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

Horz: 1-2=-10, 2-7=-6, 7-11=-6, 2-20=-5, 11-12=-16

26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-7=-54, 7-8=-54, 8-11=-44, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 2-20=-8, 11-12=8

27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-7=-54, 7-8=-54, 8-11=-44, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 2-20=-8, 11-12=8

28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-52, 2-5=-56, 5-7=-66, 7-8=-54, 8-11=-44, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

Horz: 1-2=2, 2-7=6, 7-11=6, 2-20=16, 11-12=5

29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 (0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-7=-54, 7-8=-66, 8-11=-56, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

Horz: 1-2=-10, 2-7=-6, 7-11=-6, 2-20=-5, 11-12=-16

30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 2-20=-8, 11-12=8

31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 2-20=-8, 11-12=8

34) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-7=-70, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20

35) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-70, 8-11=-60, 17-20=-20, 16-17=-40, 12-16=-20

36) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-7=-60, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

37) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-60, 8-11=-50, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

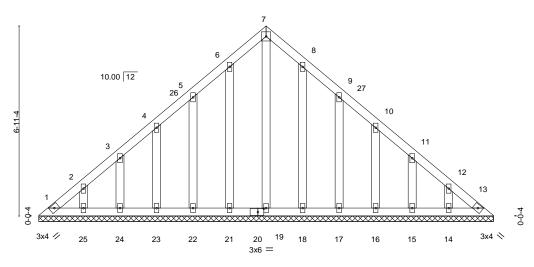


Job Truss Truss Type Qty Ply BCTH-50 162907545 24010076 V1GE **GABLE**

The Building Center, Gastonia, NC - 28052, Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:39 2024 Page 1

ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-E0SKfTcHwKKIQ68DAsuhJMvmUWqlJ0Hw_II3TOzxRew 9-7-14 6-11-14 1-4-0 1-4-0 6-11-15

> Scale = 1:42.1 4x4 =



0-0-5 0-0-5 16-7-13 16-7-8

Plate Offsets (X,Y) [8:0-0-0,	<u>0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [</u>	11:0-0-0,0-0-0], [12:0-0-0	,0-0-0], [20:0-2-10,0-	1-8]				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.08 Matrix-S	Vert(CT)	in (loc) n/a - n/a - 0.00 13	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 110 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-7-3.

(lb) -Max Horz 1=119(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-3-14, Exterior(2R) 8-3-14 to 11-3-14, Interior(1) 11-3-14 to 16-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14.
- 8) Non Standard bearing condition. Review required.
- 9) 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.



January 9,2024



Job Truss Truss Type Qty BCTH-50 162907546 24010076 V2 **GABLE** Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:40 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-iD0isodvhdS92FjPjZPwraSvxw8U2TG4DP1c?qzxRev 4-0-0 4-0-0 3-1-8 Scale = 1:36.2 4x4 = 3 10.00 12 10 2x4 || 2x4 || 3x4 / 3x4 💉 8 7 6 2x4 || 2x4 || 2x4 || 14-2-11

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

L/d

999

999

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins.

(loc)

5

n/a

n/a

0.00

I/defl

n/a

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

PLATES

Weight: 61 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-

LOADING (psf)

Snow (Pf/Pg) 15.4/20.0

TCLL (roof)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2

20.0

10.0

10.0

0.0

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 14-2-6. Max Horz 1=-101(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=327(LC 23), 6=327(LC 24)

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-S

0.18

0.12

0.10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

2-8=-251/157, 4-6=-251/157 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-1-8, Interior(1) 3-1-8 to 7-1-8, Exterior(2R) 7-1-8 to 10-1-8, Interior(1) 10-1-8 to 13-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 8) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply BCTH-50 162907547 24010076 V3 **GABLE** Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:41 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-APa448dXSxa0gPlcHHx9On?4ZKUdnwyDS3nAXGzxReu 9-11-2 11-10-3 1-11-2 4-0-0 4-0-0 1-11-1 Scale = 1:30.5 4x4 = 3

10.00 12 10 2x4 || 2x4 || 3x4 // 8 7 6 3x4 🛇 2x4 || 2x4 || 2x4 || 11-10-3

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

	* * *!							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.19 BC 0.12 WB 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	11012(01)	0.00	11/4	11/4	Weight: 49 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-9-10.

(lb) -Max Horz 1=-83(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=301(LC 23), 6=301(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-11-2, Exterior(2R) 5-11-2 to 8-11-2, Interior(1) 8-11-2 to 11-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
- 8) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty BCTH-50 162907548 24010076 V4 **GABLE** Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:42 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-fb8SHUe9DFitlZtor_SOx?XD5kprWOMMhjWj4jzxRet 4-8-11 4-8-11 Scale = 1:25.3 4x4 = 2 10.00 12 6 0-0-4 0-0-4 2x4 // 2x4 🚿 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 244/190 1.15 TC 0.26 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 36 lb FT = 20% **BCDL** 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS**

2x4 SP No.3

1=9-4-13, 3=9-4-13, 4=9-4-13 (size) Max Horz 1=65(LC 13) Max Uplift 1=-15(LC 14), 3=-15(LC 14)

Max Grav 1=183(LC 2), 3=183(LC 2), 4=325(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-8-11, Exterior(2R) 4-8-11 to 7-8-11, Interior(1) 7-8-11 to 9-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 8) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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162907549 24010076 V5 VALLEY Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:43 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-7oiqVqfn_YqkvjS_PizdTC4Q58ATFr2WvNGHc9zxRes 3-6-5 3-6-5 Scale = 1:20.5 4x4 = 2 10.00 12 0-0-4 0-0-4 2x4 / 2x4 🚿 2x4 || 7-0-10 7-0-5 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 1.15 0.18 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 26 lb FT = 20% **BCDL** 10.0 **BRACING-**

TOP CHORD

BOT CHORD

Qty

BCTH-50

LUMBER-

Job

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. 1=7-0-0, 3=7-0-0, 4=7-0-0 (size)

Truss

Truss Type

Max Horz 1=-47(LC 12) Max Uplift 1=-17(LC 14), 3=-17(LC 14)

Max Grav 1=143(LC 2), 3=143(LC 2), 4=213(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) Non Standard bearing condition. Review required.
- 8) 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty BCTH-50 162907550 24010076 V6 VALLEY Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:44 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-b_GDiAgPlsyaXt1ByPUs0QdchXXf_HVf81?q8bzxRer 2-3-14 2-3-15 4x4 = Scale = 1:12.4 10.00 12 0-0-4 0-0-4 2x4 || 2x4 🚿 2x4 // 4-7-13 4-7-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 0.07 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 16 lb FT = 20% **BCDL** 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

1=4-7-3, 3=4-7-3, 4=4-7-3 (size)

Max Horz 1=29(LC 13) Max Uplift 1=-11(LC 14), 3=-11(LC 14) Max Grav 1=88(LC 2), 3=88(LC 2), 4=131(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) Non Standard bearing condition. Review required.
- 8) 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.



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Job Truss Truss Type Qty Ply BCTH-50 162907551 24010076 V7 VALLEY Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:45 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-3ApbvWh2WA4R91bNW7?5Yd9oFxt8jk?pNglNg2zxReq 2-3-0 1-1-8 1-1-8 Scale = 1:7.4 3x4 = 2 10.00 12 3 J-D-4 9-0-1 2x4 // 2x4 💉 Plate Offsets (X,Y)-- [2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 244/190 1.15 TC 0.01 Vert(LL) 999 MT20

n/a

n/a

0.00

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

3

999

n/a

Structural wood sheathing directly applied or 2-3-0 oc purlins.

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

Snow (Pf/Pg) 15.4/20.0

(size) 1=2-2-6, 3=2-2-6

Max Grav 1=58(LC 2), 3=58(LC 2)

Max Horz 1=-11(LC 12)

10.0

10.0

0.0 *

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

BC

WB

Matrix-P

0.02

0.00

- 4) Gable requires continuous bottom chord bearing.
- 5) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) 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.



FT = 20%

Weight: 6 lb

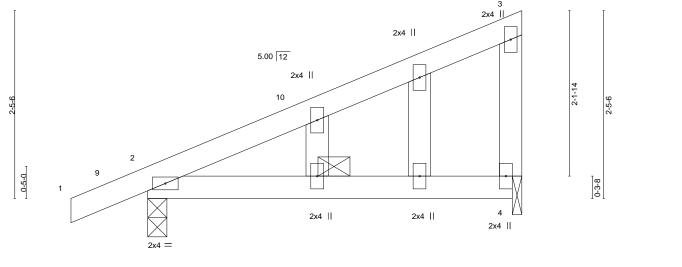


Job Truss Truss Type Qty BCTH-50 162907552 24010076 E1GE **GABLE** 2 Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 10:41:37 2024 Page 1 The Building Center, Gastonia, NC - 28052,

ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-leKZEna0Oi3aBo_r2RsDExqKuj44r70dXRpyOVzxRey

3-6-8 4-10-8 1-0-0 2-2-8 1-4-0

Scale = 1:15.0



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.49 BC 0.29 WB 0.00	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	5 2-4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 23 lb	FT = 20%

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.3 BOT CHORD 3-0-0 oc bracing.

2x4 SP No.3 REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=66(LC 13)

Max Uplift 2=-31(LC 16) Max Grav 2=301(LC 21), 4=216(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

OTHERS

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 12) 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.



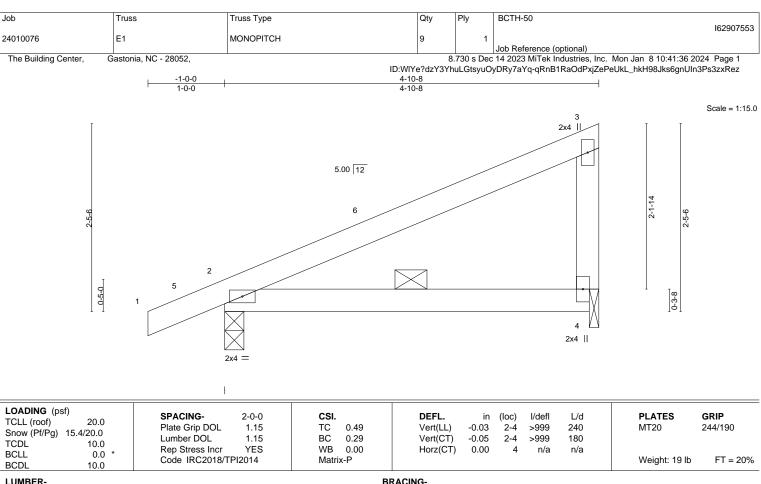
January 9,2024

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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16)

Max Grav 2=301(LC 21), 4=216(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 10) 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.



Structural wood sheathing directly applied or 4-10-8 oc purlins,

except end verticals.

3-0-0 oc bracing.

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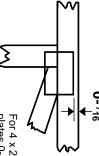


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

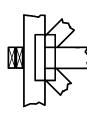
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

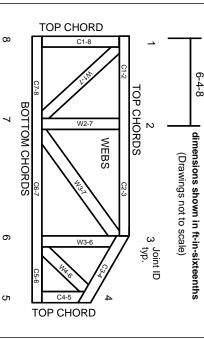
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.