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MiTek USA, Inc.  
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314-434-1200

Re: 2929203  
Summit/70 Reserve Stoney

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I51254553 thru I51254555

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



April 11, 2022

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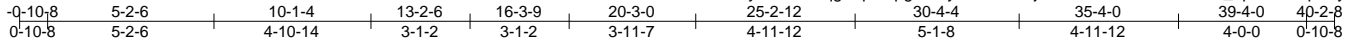
Johnson, Andrew ,Engineer

**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 2929203	Truss D3	Truss Type Roof Special Girder	Qty 1	Ply 1	Summit/70 Reserve Stoney	151254553
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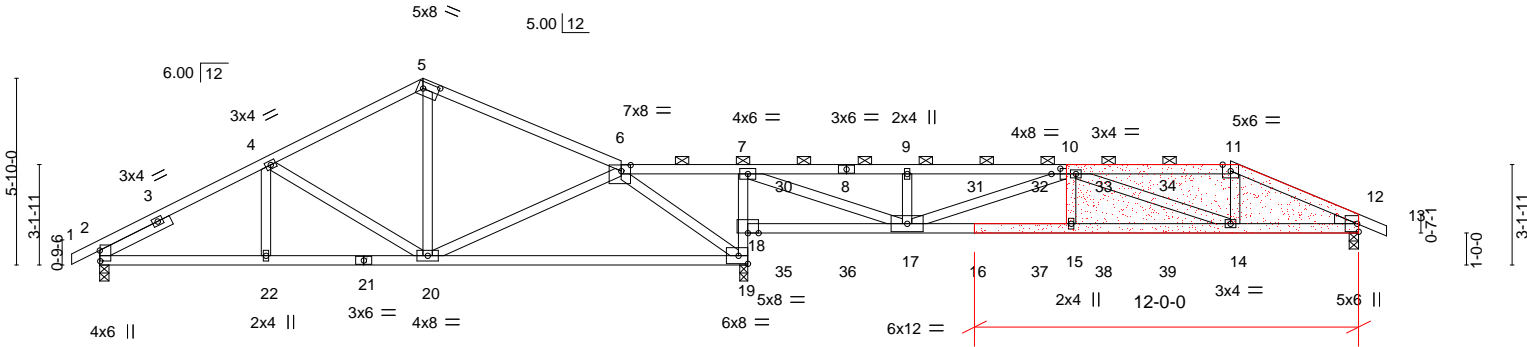
Builders First Source, Valley Center, KS 67147

ID:0RfyeQ?mR?gqtbqdiWpgSizFyAv-W9ibXlJh5Y2XYCmAALQQw4Vh\_hpDM4HkpK1yJyZrQCr  
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Apr 11 09:55:04 2022 Page 1



CONDITION:  
-BREAK IN TOP CHORD 3-0-0 FROM RIGHT END  
-BREAK IN BOTTOM CHORD 5-0-0 FROM LEFT END

Scale = 1:72.0



SHOP FABRICATE SCAB TRUSS (SHOWN AS SHADED AREA ON TRUSS DESIGN DRAWING) USING THE LUMBER AND PLATES INDICATED. ATTACH SCAB TRUSS TO ONE FACE OF EXISTING TRUSS WITH (0.131" X 3") NAILS (INTO ALL ALIGNING MEMBERS) PER THE FOLLOWING NAIL SCHEDULE: 2 x 4's - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2' O.C. USE 2" MEMBER END DISTANCE.

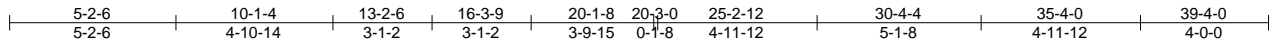


Plate Offsets (X,Y)-- [2:0-4-0,0-0-3], [5:0-5-15,0-2-8], [6:0-3-8,0-2-4], [10:0-3-6,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.69	Vert(LL)	-0.24	19-20	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(CT)	-0.49	19-20	>491		
BCLL 0.0	Lumber DOL 1.15	WB 0.71	Horz(CT)	0.02	19	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2018/TPI2014							
							Weight: 152 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF 1650F 1.5E \*Except\*  
2-21,16-18: 2x4 SPF No.2  
WEBS 2x4 SPF No.2  
WEDGE Right: 2x4 SPF No.2  
SLIDER Left 2x4 SPF No.2 2-6-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except 2-0-0 oc purlins (3-4-7 max.): 6-11.  
BOT CHORD Rigid ceiling directly applied or 4-2-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8, 19=0-3-0 (req. 0-3-10)  
Max Horz 2=105(LC 8)  
Max Uplift 2=-113(LC 8), 12=-287(LC 9), 19=-450(LC 9)  
Max Grav 2=887(LC 1), 12=1214(LC 22), 19=2325(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-309/15, 3-4=-1178/152, 4-5=-879/113, 5-6=-873/113, 6-7=-87/474, 7-30=-2072/524, 8-30=-2072/524, 8-9=-2072/524, 9-31=-2072/524, 31-32=-2072/524, 10-32=-2072/524, 10-33=-2010/522, 33-34=-2008/522, 11-34=-2007/522, 11-12=-2265/553  
BOT CHORD 2-22=-166/1014, 21-22=-166/1014, 20-21=-166/1014, 19-20=-9/590, 18-19=-1508/374, 7-18=-1379/376, 18-35=-672/187, 35-36=-672/187, 17-36=-672/187, 16-17=-702/3056, 16-37=-702/3056, 15-37=-702/3056, 15-38=-701/3076, 38-39=-701/3076, 14-39=-701/3076, 12-14=-457/2047  
WEBS 4-20=-392/165, 5-20=0/366, 6-20=-34/356, 7-17=-683/2883, 9-17=-417/171, 10-17=-1063/262, 10-15=0/334, 10-14=-1132/275, 11-14=-70/512, 6-19=-1211/198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - n/a
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2, 287 lb uplift at joint 12 and 450 lb uplift at joint 19.



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Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 ANSIT/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job 2929203	Truss D3	Truss Type Roof Special Girder	Qty 1	Ply 1	Summit/70 Reserve Stoney Job Reference (optional)	I51254553
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Builders First Source, Valley Center, KS 67147

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Apr 11 09:55:04 2022 Page 2  
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**NOTES-**

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 53 lb up at 21-3-4, 84 lb down and 53 lb up at 23-3-4, 84 lb down and 53 lb up at 25-3-4, 84 lb down and 53 lb up at 27-3-4, 84 lb down and 53 lb up at 29-3-4, 84 lb down and 53 lb up at 31-3-4, and 84 lb down and 53 lb up at 33-3-4, and 203 lb down and 118 lb up at 35-4-0 on top chord, and 46 lb down and 21 lb up at 21-3-4, 46 lb down and 21 lb up at 23-3-4, 46 lb down and 21 lb up at 25-3-4, 46 lb down and 21 lb up at 27-3-4, 46 lb down and 21 lb up at 29-3-4, 46 lb down and 21 lb up at 31-3-4, and 46 lb down and 21 lb up at 33-3-4, and 114 lb down and 59 lb up at 35-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-70, 5-6=-70, 6-11=-70, 11-13=-70, 19-23=-20, 18-27=-20

Concentrated Loads (lb)

Vert: 8=-34(F) 16=-46(F) 9=-34(F) 17=-46(F) 14=-114(F) 11=-82(F) 30=-34(F) 31=-34(F) 32=-34(F) 33=-34(F) 34=-34(F) 35=-46(F) 36=-46(F) 37=-46(F) 38=-46(F) 39=-46(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/70 Reserve Stony	151254554
2929203	D4	Roof Special	1	1		

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

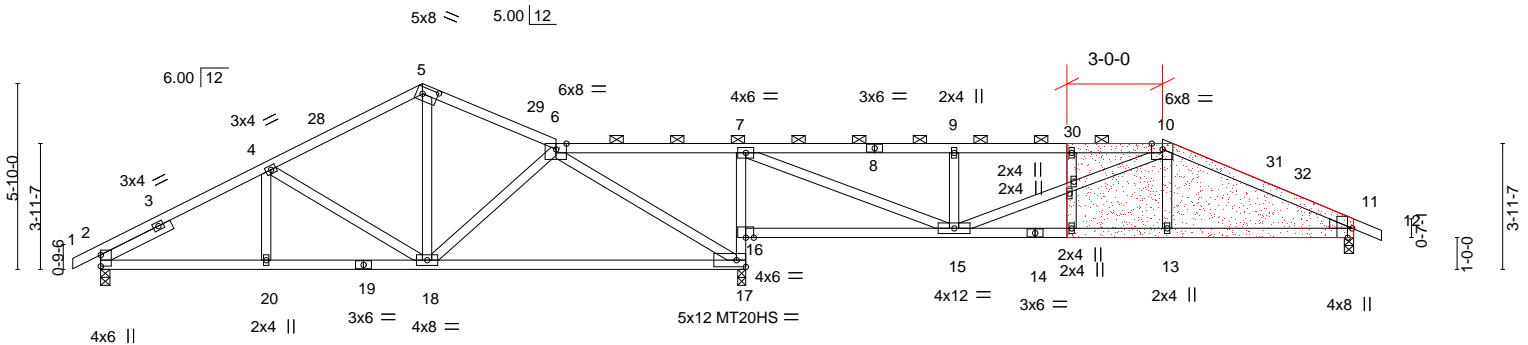
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 7 16:04:58 2022 Page 1

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-0-10-8	5-2-6	10-1-4	14-3-9	20-3-0	26-9-8	33-4-0	39-4-0	40-2-8
0-10-8	5-2-6	4-10-14	4-2-5	5-11-7	6-6-8	6-6-8	6-0-0	0-10-8

CONDITION:  
 -TOP CHORD BROKEN 3-0-0 FROM RIGHT END  
 -TOP CHORD LOOSE FROM PLATE JOINT 10

Scale = 1:72.3



SHOP FABRICATE SCAB TRUSS (SHOWN AS SHADED AREA ON TRUSS DESIGN DRAWING) USING THE LUMBER AND PLATES INDICATED. ATTACH SCAB TRUSS TO ONE FACE OF EXISTING TRUSS WITH (0.131" X 3") NAILS (INTO ALL ALIGNING MEMBERS) PER THE FOLLOWING NAIL SCHEDULE:  
 2 x 4's - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS:  
 SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

	5-2-6	10-1-4	14-3-9	20-1-8	20-3-0	26-9-8	33-4-0	39-4-0
	5-2-6	4-10-14	4-2-5	5-9-15	0-1-8	6-6-8	6-6-8	6-0-0

Plate Offsets (X,Y)-- [5:0-5-11,0-2-8], [6:0-3-14,Edge], [10:0-4-2,Edge], [11:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.22	17-18	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.46	17-18	>519	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.03	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 152 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2  
 WEDGE  
 Right: 2x4 SPF No.2  
 SLIDER Left 2x4 SPF No.2 2-6-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-5-10 max.): 6-10.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-8, 11=0-3-8, 17=0-3-0  
 Max Horz 2=105(LC 12)  
 Max Uplift 2=-125(LC 12), 11=-164(LC 13), 17=-287(LC 13)  
 Max Grav 2=917(LC 1), 11=881(LC 26), 17=1870(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1237/181, 4-5=-934/170, 5-6=-904/171, 7-9=-1310/276, 9-10=-1312/278, 10-11=-1450/269  
 BOT CHORD 2-20=-184/1065, 18-20=-184/1065, 17-18=-78/803, 16-17=-1155/246, 7-16=-1078/269, 13-15=-180/1273, 11-13=-178/1279  
 WEBS 4-18=-383/161, 5-18=-32/432, 7-15=-287/1637, 9-15=-491/173, 6-17=-1160/175

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-1-4, Exterior(2R) 10-1-4 to 13-1-4, Interior(1) 13-1-4 to 33-4-0, Exterior(2R) 33-4-0 to 36-4-0, Interior(1) 36-4-0 to 40-2-8 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) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 164 lb uplift at joint 11 and 287 lb uplift at joint 17.
  - 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.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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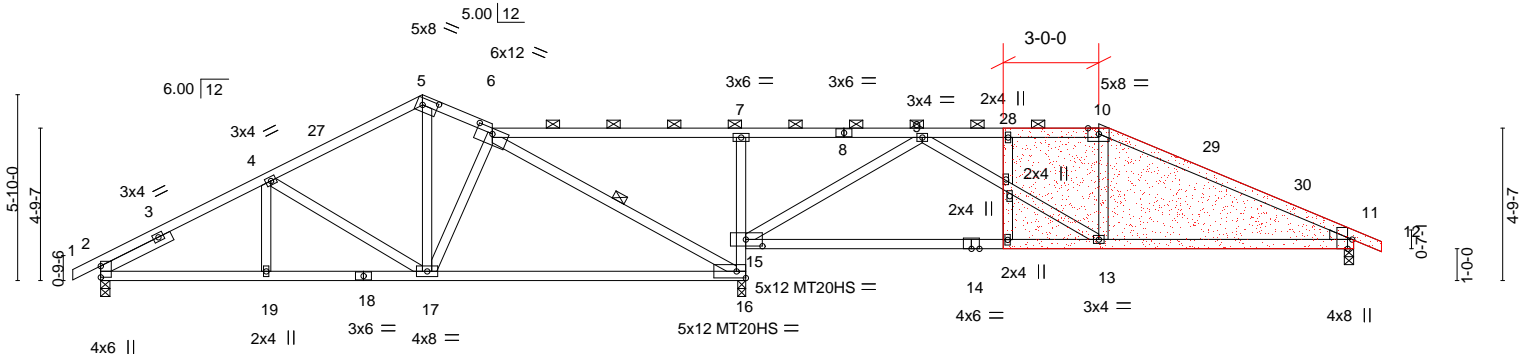
Job	Truss	Truss Type	Qty	Ply	Summit/70 Reserve Stony	151254555
2929203	D5	Roof Special	1	1		

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 7 16:04:59 2022 Page 1  
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CONDITION:  
 -TOP CHORD 10-11 BROKEN OUT

Scale = 1:72.3



SHOP FABRICATE SCAB TRUSS (SHOWN AS SHADED AREA ON TRUSS DESIGN DRAWING) USING THE LUMBER AND PLATES INDICATED. ATTACH SCAB TRUSS TO ONE FACE OF EXISTING TRUSS WITH (0.131" X 3") NAILS (INTO ALL ALIGNING MEMBERS) PER THE FOLLOWING NAIL SCHEDULE:  
 2 x 4's - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS:  
 SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

Plate Offsets (X,Y)--	[5:0-5-11,0-2-8], [6:0-6-0,0-2-0], [10:0-4-2,Edge], [11:0-3-8,Edge], [15:0-6-4,0-2-8]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0.35 13-15 >657 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.69 13-15 >333 180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.03 16 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 152 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-3-4 max.): 6-10.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-16
WEDGE Right: 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 2-6-0	

**REACTIONS.** (size) 2=0-3-8, 11=0-3-8, 16=0-3-0  
 Max Horz 2=105(LC 12)  
 Max Uplift 2=-132(LC 12), 11=-173(LC 13), 16=-268(LC 13)  
 Max Grav 2=903(LC 1), 11=867(LC 26), 16=1898(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1213/192, 4-5=-902/174, 5-6=-873/201, 9-10=-1118/277, 10-11=-1302/254  
 BOT CHORD 2-19=-196/1046, 17-19=-196/1046, 16-17=-84/810, 15-16=-1232/262, 7-15=-525/184, 13-15=-146/756, 11-13=-144/1117  
 WEBS 4-17=-386/160, 5-17=-99/513, 6-16=-1141/136, 9-15=-1138/241, 9-13=-7/434

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-1-4, Exterior(2E) 10-1-4 to 12-3-9, Interior(1) 12-3-9 to 31-4-0, Exterior(2R) 31-4-0 to 34-4-0, Interior(1) 34-4-0 to 40-2-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2, 173 lb uplift at joint 11 and 268 lb uplift at joint 16.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

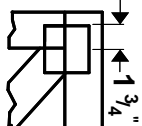


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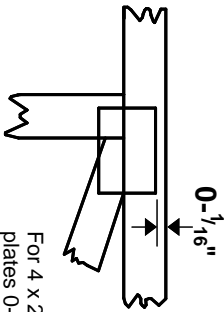


# Symbols

## 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-  $\frac{1}{16}$ " from outside edge of truss.



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

\* Plate location details available in **MITek 20/20 software or upon request.**

## PLATE SIZE

4 X 4

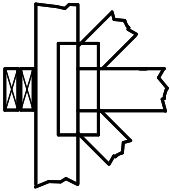
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

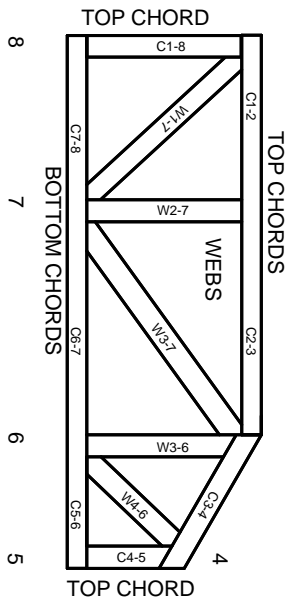


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# 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-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

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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# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. 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.



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