

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

Re: 2623880

Summit/100 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: I44681422 thru I44681461

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



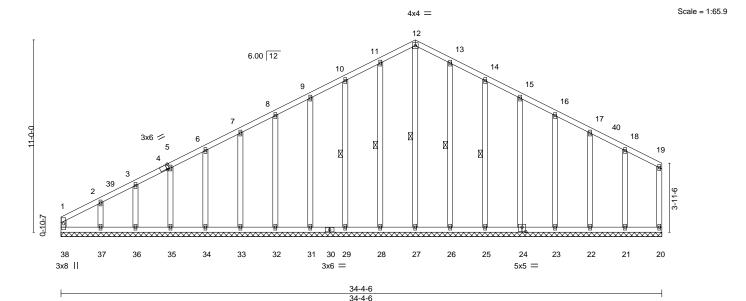
February 5,2021

Sevier, Scott

,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 Truss Truss Type Qty Summit/100 Stoney 144681422 **GABLE** 2623880 Α1 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:18 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gFPy9JJJ1MmElf8BMbSraGubljoX0lDkGnbWZhzoU2d



			34-4-0	
Plate Offsets (X,Y)	[4:0-1-9,Edge], [24:0-2-8,0-3-0]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.08	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.10 WB 0.15	Vert(CT)	W1120 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 203 lb FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 **WEBS**

2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

BOT CHORD

WEBS

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

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 12-27, 11-28, 10-29, 13-26, 14-25 1 Row at midpt

14-1-4

REACTIONS. All bearings 34-4-6.

Max Horz 38=217(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 20, 38, 28, 29, 31, 32, 33, 34, 35, 36, 26, 25, 24, 23, 22, 21

20-3-2

except 37=-140(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 20, 38, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 26, 25, 24,

23, 22, 21

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

TOP CHORD 9-10=-135/269, 10-11=-152/317, 11-12=-166/356, 12-13=-166/356, 13-14=-152/317,

14-15=-135/269

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 20-3-2, Corner(3R) 20-3-2 to 23-3-2, Exterior(2N) 23-3-2 to 34-2-10 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 38, 28, 29, 31, 32, 33, 34, 35, 36, 26, 25, 24, 23, 22, 21 except (jt=lb) 37=140.
- 11) 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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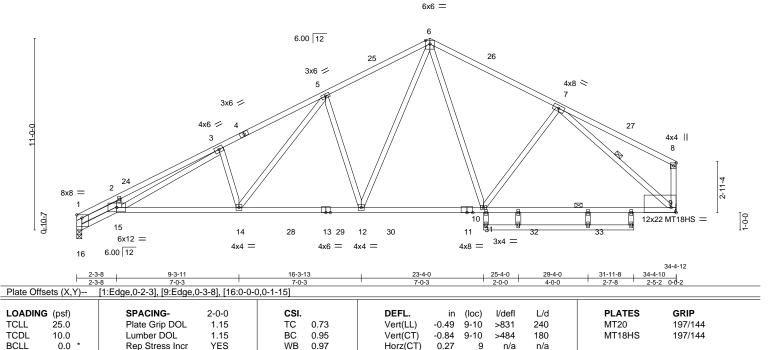


Job Truss Truss Type Qty Summit/100 Stoney 144681423 2623880 A2 Roof Special 5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:20 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-ceXja?LZZz1yXzHZU?UJfhznjXGgUSx1j54ceZzoU2b

23-4-0 3-0-14 27-7-12 4-3-12 31-11-8 34-4-10 20-3-2 5-11-14 5-11-14 4-3-12

Scale = 1:66.1



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 *Except*

1-4: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except* 13-15,9-11: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

10.0

REACTIONS. (size) 9=Mechanical, 16=0-3-8

Max Horz 16=203(LC 9)

Max Uplift 9=-105(LC 13), 16=-143(LC 12) Max Grav 9=1675(LC 2), 16=1638(LC 2)

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

Code IRC2018/TPI2014

TOP CHORD 1-16=-1664/225, 1-2=-4827/640, 2-3=-4755/750, 3-5=-3116/388, 5-6=-2151/307,

6-7=-1844/235, 7-8=-273/88, 8-9=-257/75

15-16=-230/450, 14-15=-375/2883, 12-14=-198/2089, 10-12=-82/1453, 9-10=-147/1498 **BOT CHORD** WEBS 1-15=-513/3936, 3-15=-435/1666, 3-14=-603/239, 5-14=-177/1056, 5-12=-817/274,

6-12=-206/1081, 6-10=-50/440, 7-10=-139/255, 7-9=-1819/188

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2 , Interior(1) 23-3-2 to 34-2-14 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

Matrix-AS

- 3) All plates are MT20 plates unless otherwise indicated.
- 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=105, 16=143,
- 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.
- 11) 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.



Weight: 173 lb

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 9-10

1 Row at midpt

FT = 20%

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Job Truss Truss Type Qty Summit/100 Stoney 144681424 2623880 **A3** Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:21 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-4q55nLLBJH9p96sl1j?YCvWyPwctDv7AylqAA?zoU2a

Structural wood sheathing directly applied, except end verticals.

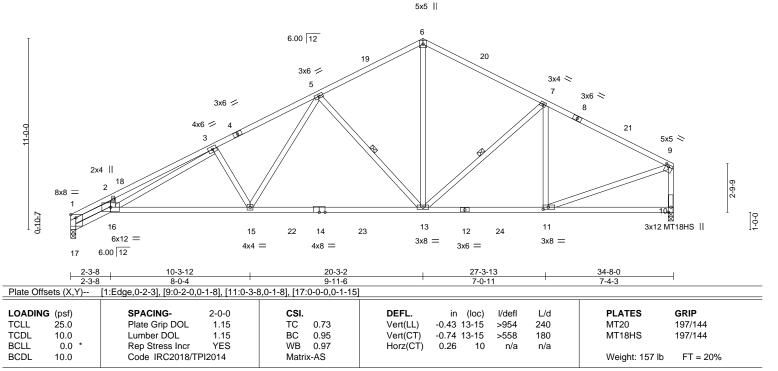
5-13, 7-13

Rigid ceiling directly applied.

1 Row at midpt

5-11-14 5-11-14 5-11-14 7-0-11 7-4-3

Scale = 1:66.3



BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

14-16,10-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 17=0-3-8

Max Horz 17=200(LC 9)

Max Uplift 10=-107(LC 13), 17=-143(LC 12) Max Grav 10=1646(LC 2), 17=1635(LC 2)

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

TOP CHORD 1-17=-1667/226, 1-2=-4837/642, 2-3=-4764/752, 3-5=-2974/337, 5-6=-1722/243,

6-7=-1744/238, 7-9=-1875/179, 9-10=-1523/168

BOT CHORD 16-17=-229/449, 15-16=-378/2866, 13-15=-204/2064, 11-13=-125/1602 WEBS

1-16=-515/3950, 3-16=-434/1694, 3-15=-603/237, 5-15=-106/1030, 5-13=-890/257,

6-13=-88/1116, 7-13=-307/166, 7-11=-366/119, 9-11=-98/1597

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2 , Interior(1) 23-3-2 to 34-6-4 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) All plates are MT20 plates unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=107, 17=143,
- 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) 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.



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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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/100 Stoney 144681425 2623880 B1 **ROOF SPECIAL** 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:22 2021 Page 1

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

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Z1fT?gMp4aHfnGRybQWnk635sKxvyNdJAPZjiSzoU2Z

Structural wood sheathing directly applied, except end verticals.

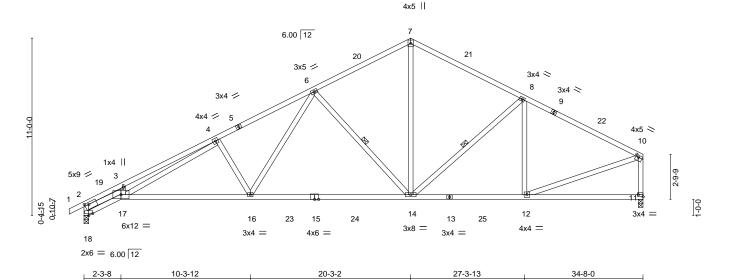
6-14, 8-14

Rigid ceiling directly applied.

1 Row at midpt

-0-11₇0 2-3-8 0-11-0 2-3-8 . 27-3-13 5-11-14 5-11-14 5-11-14 7-0-11

Scale = 1:71.4



	200 00:	0 11 0	, , , , ,	
Plate Offsets (X,Y)	[2:0-3-0,0-1-8], [10:0-2-0,0-1-8], [11:Ed	dge,0-1-8], [18:0-3-0,Edge]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L	/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.40 14-16 >999 24	40 MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.68 14-16 >604 18	30
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.24 11 n/a n	/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 207 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-5: 2x4 SP No.1 2x4 SP No.1 *Except*

BOT CHORD 17-18: 2x4 SP No.2 WEBS 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 18=0-3-8

Max Horz 18=209(LC 9)

Max Uplift 11=-107(LC 13), 18=-164(LC 12) Max Grav 11=1645(LC 2), 18=1697(LC 2)

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

TOP CHORD 2-18=-1738/249, 2-3=-4793/636, 3-4=-4702/742, 4-6=-2968/336, 6-7=-1721/241,

7-8=-1743/238, 8-10=-1873/177, 10-11=-1522/168

BOT CHORD 17-18=-234/466, 16-17=-377/2859, 14-16=-203/2061, 12-14=-125/1601

WEBS 2-17=-503/3885, 4-17=-424/1639, 4-16=-599/237, 6-16=-106/1026, 6-14=-887/256,

7-14=-87/1115, 8-14=-307/167, 8-12=-366/119, 10-12=-98/1596

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2, Interior(1) 23-3-2 to 34-6-4 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=107, 18=164,
- 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.



February 5,2021

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/100 Stoney 144681426 2623880 B₁A **ROOF SPECIAL** Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:24 2021 Page 1

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

Structural wood sheathing directly applied, except end verticals.

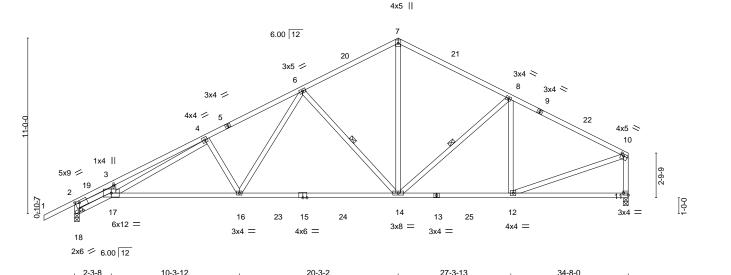
6-14, 8-14

Rigid ceiling directly applied.

1 Row at midpt

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-VPnDPMO3cCXN0abKjrZFqX8Rm8eTQH8cej2qnKzoU2X 1-11-0 20-3-2 2-3-8 5-11-14 5-11-14 5-11-14 7-0-11

Scale = 1:72.1



		2-3-0 10-3-12	20-	3-2	21-3-13	34-0-0	
		2-3-8 8-0-4	9-1	1-6	7-0-11	7-4-3	
Plate Offse	ets (X,Y)	[2:0-3-0,0-1-8], [10:0-2-0,0-1-8]	[11:Edge,0-1-8], [18:0-3-0,0-0-1	11]			
				i			
LOADING	(psf)	SPACING- 2-0-	o CSI.	DEFL.	in (loc) I/defl	L/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.85	Vert(LL)	-0.40 14-16 >999	240 MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5 BC 0.96	Vert(CT)	-0.68 14-16 >607	180	
BCLL	0.0 *	Rep Stress Incr YES	S WB 0.95	Horz(CT)	0.24 11 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 208 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

1-5: 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 *Except*

17-18: 2x4 SP No.2 WEBS 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 18=0-3-8

Max Horz 18=217(LC 9)

Max Uplift 11=-107(LC 13), 18=-184(LC 12) Max Grav 11=1642(LC 2), 18=1757(LC 2)

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

TOP CHORD $2\textbf{-}18\textbf{=-}1755/256, \, 2\textbf{-}3\textbf{=-}4682/597, \, 3\textbf{-}4\textbf{=-}4585/701, \, 4\textbf{-}6\textbf{=-}2952/331, \, 6\textbf{-}7\textbf{=-}1717/237, \, 3\textbf{-}4\textbf{=-}4585/701, \, 3\textbf{-}4585/701, \, 3\textbf{-}4585/7$

7-8=-1739/237, 8-10=-1870/174, 10-11=-1519/167

17-18=-201/367, 16-17=-371/2841, 14-16=-201/2054, 12-14=-124/1598 **BOT CHORD**

WEBS 2-17=-498/3879, 4-17=-388/1546, 4-16=-586/233, 6-16=-102/1015, 6-14=-881/254,

7-14=-86/1111, 8-14=-307/167, 8-12=-365/119, 10-12=-97/1593

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2, Interior(1) 23-3-2 to 34-6-4 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=107, 18=184,
- 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681427 2623880 C₁ **ROOF SPECIAL** 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:25 2021 Page 1

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

Structural wood sheathing directly applied, except end verticals.

6-16, 9-10, 8-12

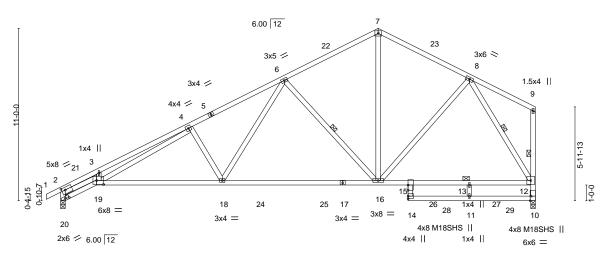
Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 13

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-zbKcdiOiNVfEekAXGZ4UMlhaMY?09l2mtNoNJnzoU2W -0-11-0 2-3-8 0-11-0 2-3-8 20-3-2 22-2-0 26-1-0 30-3-8 5-11-14 5-11-14 5-11-14 1-10-14 3-11-0 4-2-8

> Scale = 1:73.5 4x5 =



	2-3-8	10-3-12	20-3-2	22-2-0	26-1-0	30-3-8	
	2-3-8	8-0-4	9-11-6	1-10-14	3-11-0	4-2-8	
[2:0-2-12]	7-2-01 [10	0:0-3-8 Edge] [15:0-4-0 0-0-0]	[19:0-5-4 0-3-0] [20:0-3-0 0-0-11]				

Flate Offsets (A, I)	Fiate Offsets (A, 1)=- [2.0-2-12,0-2-0], [10.0-3-0,Euge], [10.0-4-0,0-0-0], [10.0-3-4,0-3-0], [20.0-3-0,0-0-11]									
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.99	DEFL. in (loc) I/defl L/d Vert(LL) -0.29 16-18 >999 240	PLATES GRIP MT20 244/190						
	•		` '							
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.52 16-18 >688 180	M18SHS 244/190						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.22 10 n/a n/a	W-:						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 202 lb FT = 20%						

BRACING-

WEBS

JOINTS

TOP CHORD

LUMBER-

Plata Offcate (V V)

2x4 SP No.2 TOP CHORD

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

17-19,12-17: 2x4 SP No.1

WEBS 2x4 SP No.2

BOT CHORD

REACTIONS. (size) 10=0-3-8, 20=0-3-8

Max Horz 20=280(LC 9)

Max Uplift 10=-91(LC 12), 20=-153(LC 12) Max Grav 10=1621(LC 2), 20=1514(LC 2)

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

2-20=-1543/230, 2-3=-4257/583, 3-4=-4190/693, 4-6=-2519/307, 6-7=-1307/208, TOP CHORD

7-8=-1303/204. 10-12=-1470/159 19-20=-330/416, 18-19=-369/2475, 16-18=-255/1704, 15-16=-154/761, 13-15=-227/587,

12-13=-227/587, 11-14=0/484, 10-11=0/484 WEBS

2-19=-461/3458, 4-19=-405/1565, 4-18=-577/233, 6-18=-105/990, 6-16=-872/257, 7-16=-64/765, 8-12=-1457/181, 8-16=-1/559

BOT CHORD

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2, Interior(1) 23-3-2 to 30-1-12 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 20=153
- 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) 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681428 2623880 C1A **ROOF SPECIAL** 2 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:26 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Rou_q2PK8pn5FuljqGbjvyDk2xJWuCxv51XxrDzoU2V

24-0-0

Rigid ceiling directly applied.

1 Brace at Jt(s): 17, 13

1 Row at midpt

27-4-13

3-4-13

Structural wood sheathing directly applied, except end verticals.

8-12

30-3-8

21-8-8

1-11-0 21-8-8 24-0-0 1-5-6 2-3-8 2-3-8 2-3-8 20-3-2 30-3-8 5-11-14 5-11-14 5-11-14 6-3-8

> Scale = 1:69.0 4x4 =

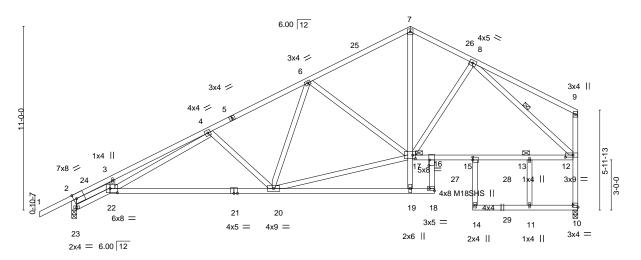


Plate Offsets (X,Y)	[2:0-2-3,Edge], [10:Edge,0-1-8], [12:0-5-8,0-1-8], [15:0-2-0,0-0-0], [16:0-4-0,0-0-8], [17:0-2-0,0-2-8], [18:Edge,0-1-8], [22:0-5-4,0-3-0]										
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 1.00	DEFL. in (loc) I/defl L/d Vert(LL) -0.41 20-22 >869 240	PLATES GRIP MT20 244/190							
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.92 WB 0.87	Vert(CT) -0.80 20-22 >448 180 Horz(CT) 0.31 10 n/a n/a	M18SHS 244/190							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	(1)	Weight: 220 lb FT = 20%							

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 TOP CHORD

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

21-22,18-21: 2x4 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 10=0-3-8, 23=0-3-8

Max Horz 23=289(LC 9)

Max Uplift 10=-89(LC 12), 23=-173(LC 12) Max Grav 10=1537(LC 2), 23=1538(LC 2)

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

2-23=-1572/224, 2-3=-4213/509, 3-4=-4135/620, 4-6=-2155/249, 6-7=-1562/195, TOP CHORD

7-8=-1556/223, 10-12=-1422/155, 9-12=-256/102

BOT CHORD 22-23=-310/346, 20-22=-380/2314, 16-18=-304/0, 16-17=-160/1434, 15-16=-203/1247,

13-15=-209/1184, 12-13=-209/1184

WEBS 2-22=-419/3555, 4-22=-328/1697, 4-20=-616/236, 17-19=0/503, 7-17=-74/1070, 8-17=-65/317, 8-12=-1571/148, 6-20=-13/310, 17-20=-233/2013, 6-17=-646/228

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2, Interior(1) 23-3-2 to 30-1-12 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

12-0-0

- 3) All plates are MT20 plates unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 23=173
- 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) 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.



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Job Truss Truss Type Qty Summit/100 Stoney 144681429 2623880 C2 Roof Special 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:28 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NA0kFkRagQ1pVBv6yhdB_NJ8Yl?1MCvCZL02w5zoU2T 22-2-0 1-10-14 26-1-0 30-3-8 6-7-4 6-7-4 6-3-12 7-4-2 3-11-0 4-2-8

> Scale = 1:72.8 4x8 =

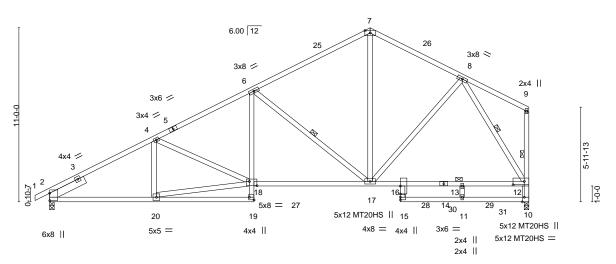
Structural wood sheathing directly applied, except end verticals.

6-17, 9-10, 8-12

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 13



	₁ 6-7-4	12-11-0	20-3-2	₁ 22-2-0	26-1-0	30-3-8	1
	6-7-4	6-3-12	7-4-2	1-10-14	3-11-0	4-2-8	_
Plate Offsets (X,Y)	[2:0-5-8,0-0-2], [10:0-3-8,Edge]	[12:0-8-8,0-2-8], [16:0-6-0	0,0-0-0], [18:0-5-12,0-3-4], [19:Edge,0-	3-8]		

LOADING	G (nef)	SPACING- 2	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
	· /				0.74		(/				
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.24 13-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.32 13-16	>999	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.08 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-AS					Weight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2

SLIDER Left 2x6 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=273(LC 11)

Max Uplift 2=-151(LC 12), 10=-91(LC 12) Max Grav 2=1502(LC 2), 10=1618(LC 2)

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

 $2\text{-}4\text{--}2283/224,\ 4\text{-}6\text{--}2157/248,\ 6\text{-}7\text{--}1324/207,\ 7\text{-}8\text{--}1292/208,\ 10\text{-}12\text{--}1458/160}$ TOP CHORD BOT CHORD 2-20=-295/1992, 6-18=-9/600, 17-18=-274/1933, 16-17=-154/753, 13-16=-236/580, 12-13=-236/580, 11-15=0/523, 10-11=0/523

18-20=-273/1881, 6-17=-1045/259, 7-17=-41/721, 8-17=-8/560, 8-12=-1444/181 **WEBS**

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2, Interior(1) 23-3-2 to 30-1-12 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
- All plates are MT20 plates unless otherwise indicated.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb)
- 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.



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Job Truss Truss Type Qty Summit/100 Stoney 144681430 2623880 C3 Roof Special

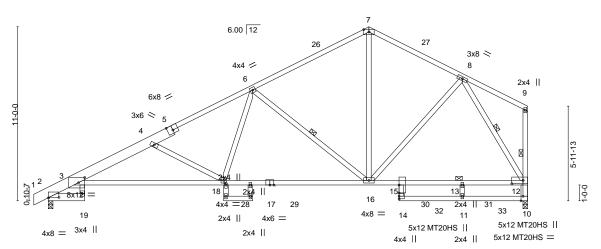
Builders FirstSource (Valley Center), Valley Center, KS - 67147, Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:29 2021 Page 1

Structural wood sheathing directly applied, except end verticals.

6-16, 9-10, 8-12

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rNa6T4SCRk9g6LTIVO8QXbrLA9Lq5fcLn?mbSYzoU2S -0-11-0 2-3-8 0-11-0 2-3-8 20-3-2 22-2-0 26-2-0 30-3-8 4-4-12 4-4-12 1-10-0 7-4-2 1-10-14 4-0-0 4-1-8

> Scale = 1:72.8 4x8 =



		2-3-8	8-9-8		1-10-0	7-4-2	1-1	10-14	4-0-0	1	4-1-8		
Plate Off	sets (X,Y)	[2:0-8-0,0-0-6], [3:0-4-10	,0-4-0], [5:0-4-	-0,Edge], [10:0)-3-8,Edge], [12:0-8-8,0-2-8], [15:0-6-0,	,0-0-0],	[18:0-1-8	3,0-1-0]			
LOADIN	G (nef)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.30	(/	>999	240		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.56	3-18	>641	180		MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.24	10	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	-AS							Weight: 170 lb	FT = 20%

20-3-2

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

22-2-0

26-2-0

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 13

12-11-0

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-5: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x6 SPF No.2, 3-17: 2x4 SPF 1650F 1.5E

2-3-8

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=275(LC 11)

Max Uplift 2=-148(LC 12), 10=-90(LC 12) Max Grav 2=1517(LC 2), 10=1621(LC 2)

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

TOP CHORD 3-24=-823/90, 3-4=-3120/393, 4-6=-2431/261, 6-7=-1322/205, 7-8=-1298/206,

10-12=-1462/159

BOT CHORD 3-19=-41/283, 3-18=-476/3002, 16-18=-271/1896, 15-16=-153/746, 13-15=-230/572,

11-1-0

12-13=-230/572, 11-14=0/512, 10-11=0/512

4-18=-1009/305, 6-18=-24/794, 6-16=-1003/260, 7-16=-40/713, 8-16=-7/570, WEBS

8-12=-1447/180

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 1-9-11, Interior(1) 1-9-11 to 20-3-2, Exterior(2R) 20-3-2 to 23-3-2, Interior(1) 23-3-2 to 30-1-12 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
- 3) All plates are MT20 plates unless otherwise indicated
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=148
- 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.

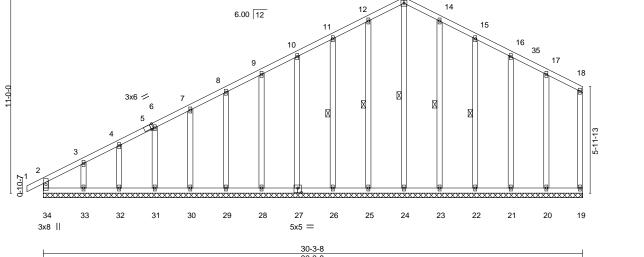


February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681431 2623880 C4 **GABLE** Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:31 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-olittlTSzLPOMfdgdpBuc0xoiyEaZeTeFIFiXQzoU2Q

> 20-3-2 10-0-6 4x4 = Scale = 1:64.7 13 14 6.00 12 15



LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2 **WEBS** 1 Row at midpt 13-24, 12-25, 11-26, 14-23, 15-22

REACTIONS. All bearings 30-3-8.

Max Horz 34=279(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 19, 34, 24, 25, 26, 27, 28, 29, 30, 31, 32, 23, 22, 21, 20

except 33=-149(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 19, 34, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 23, 22, 21, 20

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

TOP CHORD 2-3=-258/158, 11-12=-150/262, 12-13=-164/303, 13-14=-164/303, 14-15=-150/262

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 2-3-2, Exterior(2N) 2-3-2 to 20-3-2, Corner(3R) 20-3-2 to 23-3-2, Exterior(2N) 23-3-2 to 30-1-12 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 34, 24, 25, 26, 27, 28, 29, 30, 31, 32, 23, 22, 21, 20 except (it=lb) 33=149,
- 11) 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.

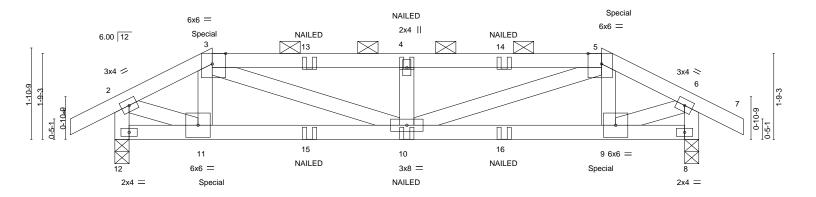


February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681432 2623880 D1 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:33 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-k8pdIRVjVzf6byn3kEDMhR07UmtH1YkxickobJzoU2O 12-11-0 6-0-0 10-0-0 12-0-0 0-11-0 2-0-0 4-0-0 4-0-0 2-0-0 0-11-0

Scale = 1:23.7



	2-0-0		6-0-0				10-0	-0		12-0-0	
	2-0-0		4-0-0	1			4-0-	0		2-0-0	ı
Plate Offsets (X,Y)	[3:0-3-5,Edge], [5:0-3-5	i,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DE	EFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Ve	ert(LL)	0.05	10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Ve	ert(CT)	-0.05	10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Н	orz(CŤ)	-0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2018/	TPI2014	Matrix-MS		. ,					Weight: 48 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 **WEBS**

> (size) 12=0-3-8, 8=0-3-8 Max Horz 12=38(LC 7)

Max Uplift 12=-598(LC 8), 8=-598(LC 9) Max Grav 12=852(LC 38), 8=852(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-991/747, 3-4=-1247/808, 4-5=-1247/808, 5-6=-991/747, 2-12=-830/585,

6-8=-830/585

BOT CHORD 10-11=-694/876. 9-10=-683/875

WEBS 3-11=-131/355, 3-10=-121/584, 4-10=-332/132, 5-10=-121/584, 5-9=-131/356,

2-11=-661/912, 6-9=-662/912

NOTES-

REACTIONS.

- 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=6.0psf; 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
- 3) Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 12=598, 8=598. 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4 lb down and 549 lb up at 2-0-0, and 4 lb down and 549 lb up at 10-0-0 on top chord, and 557 lb down and 0 lb up at 2-0-0, and 557 lb down and 0 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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



RESSIONAL STONAL

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

February 5,2021

Structural wood sheathing directly applied or 5-11-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-2-3 max.): 3-5.

Rigid ceiling directly applied or 7-1-5 oc bracing.

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Summit/100 Stoney
					144681432
2623880	D1	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:33 2021 Page 2 ID: VPVqvFnP0P0b1j2tZrlOqezdKbx-k8pdlRVjVzf6byn3kEDMhR07UmtH1YkxickobJzoU2O

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-12=-20

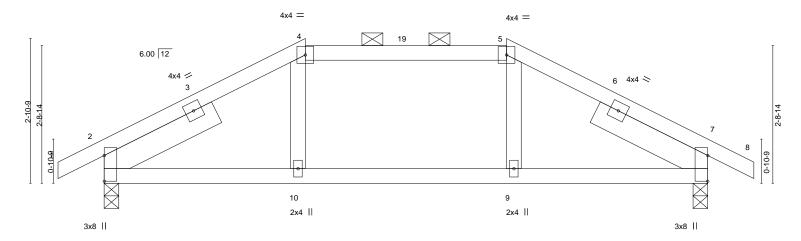
Concentrated Loads (lb)

Vert: 11=0(F) 10=1(F) 9=0(F) 15=1(F) 16=1(F)



Job Truss Truss Type Qty Summit/100 Stoney 144681433 2623880 D2 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:34 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-CKN?WnVLFGnzD6MFlykbEeZlrADom1z5xGTM8lzoU2N -0-11-0 0-11-0 8-0-0 12-0-0 4-0-0 4-0-0 4-0-0 0-11-0

Scale = 1:22.9



		4-0-0 4-0-0		-		8-0-0 4-0-0					12-0-0 4-0-0	
Plate Offsets (X,) [2:Edge,0-0-0)], [7:Edge,0)-0-0]	_								
LOADING (psf) TCLL 25.0	SPAC Plate (I NG- Grip DOL	2-0-0 1.15	CSI.	0.24	DEFL. Vert(LL)	in -0.04	(loc) 9	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0		r DOL tress Incr	1.15 YES	BC WB	0.26 0.03	Vert(CT) Horz(CT)	-0.06 0.02	9 7	>999 n/a	180 n/a		
BCDL 10.0	Code	IRC2018/TF	PI2014	Matrix	k-AS						Weight: 45 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=38(LC 16)

Max Uplift 2=-66(LC 12), 7=-66(LC 13) Max Grav 2=604(LC 1), 7=604(LC 1)

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

2-4=-680/195, 4-5=-584/198, 5-7=-680/195 TOP CHORD BOT CHORD 2-10=-89/587, 9-10=-91/584, 7-9=-88/587

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-0-0, Exterior(2E) 4-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 12-0-0, Interior(1) 12-0-0 to 12-11-0 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) Provide adequate drainage to prevent water ponding.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit 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) 2, 7.
- 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.

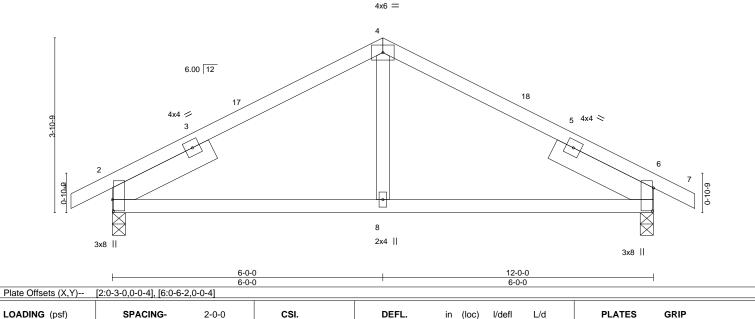


February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681434 2623880 D3 Common 3 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:35 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gXxOj7Wz0awpqGxSsfFqms5SkaYwVUvEAwDvgCzoU2M 12-11-0 0-11-0 6-0-0 6-0-0 0-11-0

Scale = 1:25.6



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.04

-0.06

0.02

8-15

8-15

>999

>999

n/a

Rigid ceiling directly applied.

240

180

n/a

Structural wood sheathing directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

25.0

10.0

0.0

10.0

WEBS 2x4 SPF No.2 SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=55(LC 12)

Max Uplift 2=-62(LC 12), 6=-62(LC 13)

Max Grav 2=604(LC 1), 6=604(LC 1)

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

2-4=-579/208, 4-6=-579/208 TOP CHORD BOT CHORD 2-8=-68/506, 6-8=-68/506

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-11-0 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

TC

ВС

WB

Matrix-AS

0.29

0.26

0.05

- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.
- 7) 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.



197/144

FT = 20%

MT20

Weight: 44 lb

February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681435 **GABLE** 2623880 E3

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:36 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-8jVmxTXbnu2gSQWeQMm3J3egFzyOEx8NOayTCezoU2L

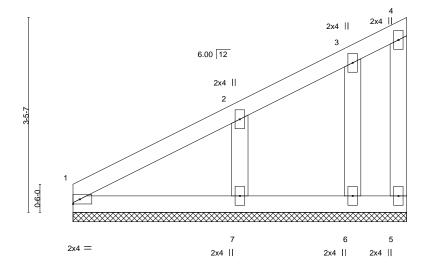
Structural wood sheathing directly applied or 5-10-15 oc purlins,

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

except end verticals.

5-10-15

Scale = 1:20.4



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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI	I2014	Matri	x-P						Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 5-10-15.

Max Horz 1=115(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=282(LC 1)

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

1-2=-276/148 TOP CHORD WEBS 2-7=-220/309

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 2-11-8, Exterior(2N) 2-11-8 to 5-9-3 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
- 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 5, 7, 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681436 F1 2623880 **GABLE** Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:37 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-cv388pYDYBAX4a5qz4lIrHAmWN75zMnXdEi0k4zoU2K 12-0-0 12-11-0 0-11-0 2-8-8 2-8-8 3-3-8 0-11-0

Scale = 1:22.9

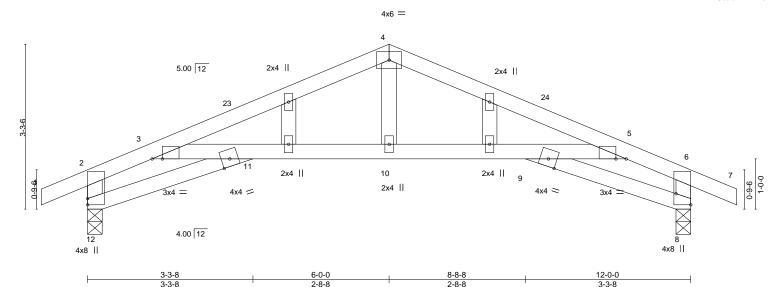


Plate Offsets (X,Y)	ate Offsets (X,Y) [2:0-0-12,0-1-12], [3:0-2-7,Edge], [5:0-2-7,Edge], [6:0-0-12,0-1-12], [8:Edge,0-3-8], [8:0-0-9,0-1-12], [12:0-0-9,0-1-12]												
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.40 BC 0.73 WB 0.09	DEFL. in (loc) I/defl L/d Vert(LL) -0.08 11 >999 240 Vert(CT) -0.15 10-11 >923 180 Horz(CT) 0.11 8 n/a n/a	PLATES GRIP MT20 197/144									
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	. ,	Weight: 41 lb FT = 20%									

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

> (size) 12=0-3-8, 8=0-3-8 Max Horz 12=28(LC 16)

Max Uplift 12=-66(LC 12), 8=-66(LC 13) Max Grav 12=601(LC 1), 8=601(LC 1)

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

TOP CHORD 2-3=-670/204, 3-4=-1039/272, 4-5=-1039/283, 5-6=-670/191, 2-12=-666/217,

6-8=-666/229

BOT CHORD 11-12=-145/495, 3-11=-63/462, 10-11=-169/941, 9-10=-169/941, 5-9=-76/462, 8-9=-102/495

WEBS 4-10=-31/379

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 1-11-13, Interior(1) 1-11-13 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-11-0 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) 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) Gable studs spaced at 2-0-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
- 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.
- 10) 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 9-10

February 5,2021



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 chore 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

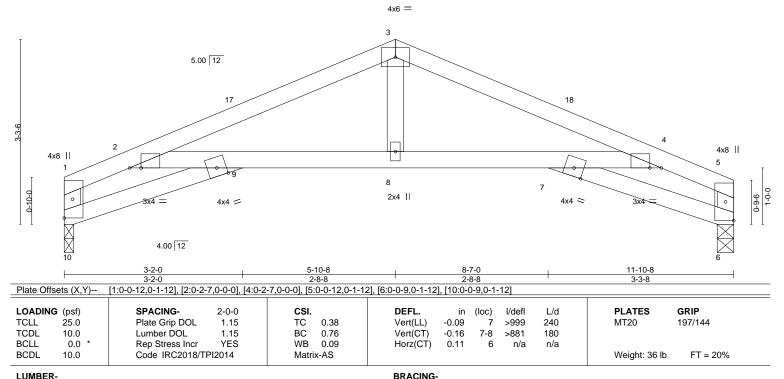
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Summit/100 Stoney 144681437 2623880 F2 Roof Special 3 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:38 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-56dWL9ZrJVIOhkf1XnpXOUjyinTtip0gsuRZHWzoU2J 11-10-8 5-10-8 2-8-8 2-8-8 3-3-8

Scale = 1:20.4



TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 10=0-2-0, 6=0-3-8

Max Horz 10=-22(LC 13)

Max Uplift 10=-44(LC 12), 6=-45(LC 13) Max Grav 10=521(LC 1), 6=521(LC 1)

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

TOP CHORD 1-2=-652/206, 2-3=-1044/299, 3-4=-1042/309, 4-5=-697/208, 1-10=-580/179,

5-6=-591/189

BOT CHORD 9-10=-169/478, 2-9=-67/480, 8-9=-221/945, 7-8=-221/945, 4-7=-67/436, 6-7=-160/525

WEBS 3-8=-47/381

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-10-8, Exterior(2R) 5-10-8 to 8-10-8 , Interior(1) 8-10-8 to 11-8-12 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
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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.
- 9) 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 7-8

February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681438 2623880 F3 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-ZIBuZUZU4pQFJtED5VKmwiG60BoZRGHq5YB7pzzoU2l 12-0-0 12-11-0 0-11-0 2-8-8 2-8-8 3-3-8 0-11-0

Scale = 1:22.9

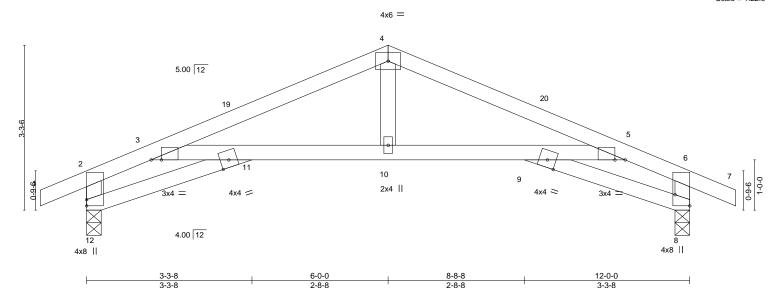


Plate Offsets (X,Y)	late Offsets (X,Y) [2:0-0-12,0-1-12], [3:0-2-7,Edge], [5:0-2-7,Edge], [6:0-0-12,0-1-12], [8:Edge,0-3-8], [8:0-0-9,0-1-12], [12:0-0-9,0-1-12]												
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.40 BC 0.73 WB 0.09	DEFL. in (loc) l/defl L/d Vert(LL) -0.08 11 >999 240 Vert(CT) -0.15 10-11 >923 180 Horz(CT) 0.11 8 n/a n/a	PLATES GRIP MT20 197/144									
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 39 lb FT = 20%									

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-28(LC 17)

Max Uplift 12=-66(LC 12), 8=-66(LC 13) Max Grav 12=601(LC 1), 8=601(LC 1)

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

TOP CHORD 2-3=-670/204, 3-4=-1039/272, 4-5=-1039/283, 5-6=-670/191, 2-12=-666/217,

6-8=-666/229

BOT CHORD 11-12=-145/495, 3-11=-63/462, 10-11=-169/941, 9-10=-169/941, 5-9=-76/462,

8-9=-102/495 **WEBS** 4-10=-31/379

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 1-11-13, Interior(1) 1-11-13 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-11-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 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.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 9-10

February 5,2021



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

WEBS

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

7-10: 2x6 SPF No.2 2x4 SPF No.2

REACTIONS.

10.0

(size) 11=0-3-8, 5=0-3-8 Max Horz 11=-122(LC 4)

Max Uplift 11=-451(LC 4), 5=-459(LC 5) Max Grav 11=3916(LC 1), 5=3973(LC 1)

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

Code IRC2018/TPI2014

 $10 - 11 = -3884/469, \ 1 - 10 = -3476/413, \ 1 - 2 = -4666/551, \ 2 - 3 = -5655/593, \ 3 - 4 = -4605/504,$ TOP CHORD

5-7=-3947/478, 4-7=-3428/403 8-9=-604/4666, 6-8=-557/4605

1-9=-640/5667, 2-9=-1230/273, 3-6=-1289/200, 4-6=-627/5586, 2-8=-345/1361, **WEBS**

3-8=-243/1445

BOT CHORD

1) 2-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.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) 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.

Matrix-MS

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 4) Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 11, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=451, 5=459
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-0-0 from the left end to 8-0-0 to connect truss(es) to front face of bottom chord.

Oantifilled on a bages where hanger is in contact with lumber.



FT = 20%

Weight: 139 lb

2-0-0 oc purlins (4-10-13 max.): 1-4, except end verticals.

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

February 5,2021



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

Job Truss Truss Type Qty Ply Summit/100 Stoney 144681439 GR1 2623880 Roof Special Girder 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:41 2021 Page 2

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-VgIf_AbkcQgzZBObCwME07LSU_WZv1M6YsgEtrzoU2G

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 9-11=-20, 6-9=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 8=-1514(F) 12=-1146(F) 13=-1514(F) 14=-1514(F) 15=-1146(F)



Job Truss Truss Type Qty Summit/100 Stoney 144681440 2623880 JD1 Jack-Open 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:41 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Vglf_AbkcQgzZBObCwME07LWg_fivAR6YsgEtrzoU2G

NAILED

Scale: 1"=1"

1-3-9 2-8-7

3 3x4 4.24 12

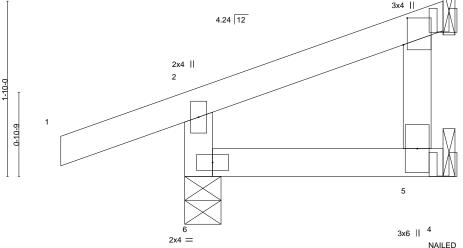


Plate Off	fsets (X,Y)	[3:0-3-6,0-0-8]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	`5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-MP	, ,					Weight: 10 lb	FT = 20%

BRACING-

LUMBER-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals.

WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-4-9, 5=Mechanical, 3=Mechanical

Max Horz 6=48(LC 8)

Max Uplift 6=-100(LC 8), 3=-554(LC 8)

Max Grav 6=239(LC 1), 5=568(LC 29), 3=55(LC 1)

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

WEBS 3-5=-1189/456

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(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
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=100, 3=554.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-2=-70, 2-3=-70, 4-6=-20

Concentrated Loads (lb) Vert: 5=1(F)



February 5,2021



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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/100 Stoney 144681441 2623880 JD2 Jack-Open 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:42 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-zts1BWcMNkoqALzomdtTYKuhMO?0eeTGnWPnQlzoU2F

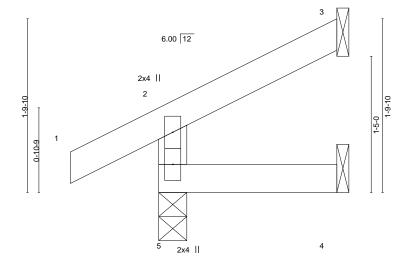
Structural wood sheathing directly applied or 1-10-3 oc purlins,

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

except end verticals.



Scale: 1"=1



1-10-3 1-10-3

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING- 2-0-0	CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC	0.08	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.04	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Mat	rix-MR						Weight: 6 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=41(LC 9) Max Uplift 5=-16(LC 12), 3=-27(LC 12)

Max Grav 5=174(LC 1), 3=40(LC 1), 4=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.



February 5,2021

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 chore 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, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Summit/100 Stoney 144681442 2623880 JD3 Jack-Open 3 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:43 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-R3QPPsc_81whoVY_KL0i5YQs6oLAN5iP?A9KykzoU2E

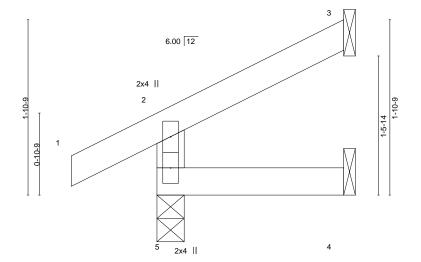
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:12.3



2-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. it	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	4-5	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 7 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=42(LC 12) Max Uplift 5=-16(LC 12), 3=-30(LC 12)

Max Grav 5=179(LC 1), 3=46(LC 1), 4=33(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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 Summit/100 Stoney 144681443 2623880 LG1 **GABLE** Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:44 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vF_ncCdcvL2YQf7Au2wxdlz2AChl6YXZEquuUAzoU2D 3-10-4 3-10-4 Scale = 1:29.5 4x4 = 13.42 12 2x4 || 2x4 || 2 0-0-4 0-0-4 2x4 // 2x4 📏 2x4 || 2x4 || 2x4 ||

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defI

n/a

n/a

n/a

(loc)

5

n/a

n/a

0.00

L/d

999

999

n/a

PLATES

Weight: 29 lb

MT20

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

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

GRIP

197/144

FT = 20%

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

OTHERS 2x4 SPF No.2

25.0

10.0

0.0

10.0

REACTIONS. All bearings 7-8-9. Max Horz 1=-96(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-132(LC 12), 6=-132(LC 13)

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-4, Exterior(2R) 3-10-4 to 6-10-4 , Interior(1) 6-10-4 to 7-4-10 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

CSI.

TC

ВС

WB

Matrix-P

0.06

0.02

0.03

- 3) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 5 except (jt=lb) 8=132 6=132
- 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681444 **GABLE** 2623880 M1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-11-0

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:45 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-OSYApYeEgfAP1oiNRlRAAzWCpc?Mr?ciTUeR0czoU2C

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

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

except end verticals.

9-11-8

Scale = 1:27.0

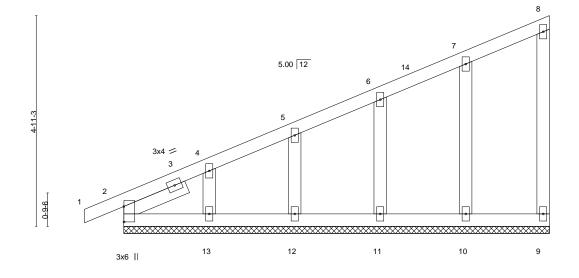


Plate Offsets (X,Y)	[2:0-4-5,0-0-1]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.13	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.06 WB 0.04	Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 9 n/a n/a	W1120 137/177
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 42 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 1-7-6

REACTIONS. All bearings 9-11-8. Max Horz 2=177(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 13, 12, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 9, 2, 13, 12, 11, 10

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

TOP CHORD 2-4=-354/176, 4-5=-250/141

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 2-0-0, Exterior(2N) 2-0-0 to 9-9-12 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 13, 12, 11, 10.
- 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.

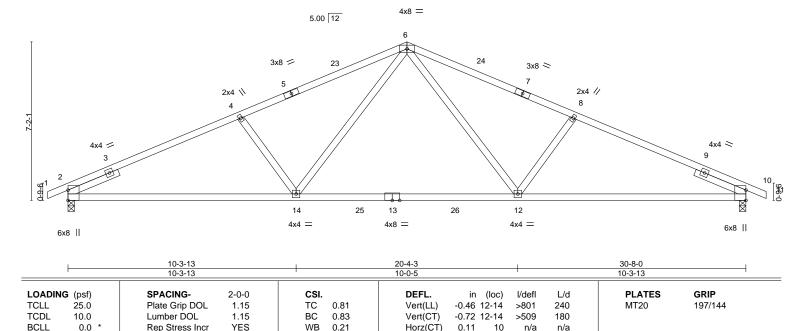


February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681445 2623880 M2 Common 5 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:46 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-se6Y1uftRylGfyHZ?TyPjA2Cv?AhaPCsi8N_Z3zoU2B 22-10-4 30-8-0 31-7-0 0-11-0 -0-11-0 0-11-0 7-9-12 7-6-4 7-6-4 7-9-12

Scale = 1:52.1



BRACING-TOP CHORD

BOT CHORD

LUMBER-

10.0

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF 1650F 1.5E

2x4 SPF No.2 WEBS **SLIDER** Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=-107(LC 17)

Max Uplift 2=-139(LC 12), 10=-139(LC 13) Max Grav 2=1503(LC 2), 10=1503(LC 2)

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

2-4=-2579/242, 4-6=-2380/229, 6-8=-2380/229, 8-10=-2579/242 TOP CHORD

Code IRC2018/TPI2014

BOT CHORD 2-14=-241/2318, 12-14=-58/1644, 10-12=-134/2318 6-12=-86/851, 8-12=-477/231, 6-14=-86/851, 4-14=-477/231 WFBS

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-0, Interior(1) 18-4-0 to 31-7-0 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

Matrix-AS

- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 10=139.
- 6) 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.
- 7) 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.



Weight: 110 lb

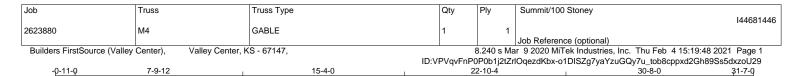
Structural wood sheathing directly applied.

Rigid ceiling directly applied.

FT = 20%

February 5,2021



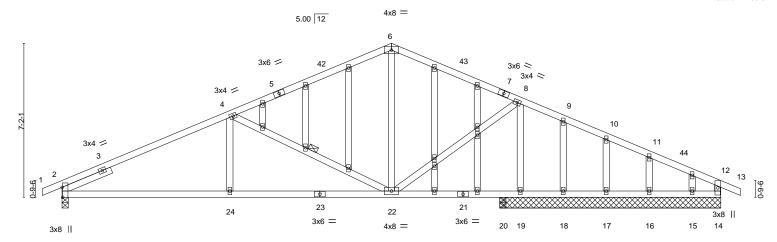


7-6-4

7-6-4

Scale = 1:53.6

7-9-12



-	7-9-12	7-6-4	5-4-0 2-2-10-	
Plate Offsets (X,Y)	[2:0-5-9,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.07 22-24 >999	240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.16 22-24 >999	180
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.03 20 n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 143 lb FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD **BOT CHORD** 2x4 SPF No.2 Rigid ceiling directly applied. WEBS 2x4 SPF No.2 **WEBS** 1 Row at midpt 4-22

15-4-0

2x4 SPF No.2 **OTHERS** SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. All bearings 10-3-8 except (jt=length) 2=0-3-8, 20=0-3-8.

7-0-12

7-9-12

Max Horz 2=103(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 19, 17, 16 except 2=-129(LC 12), 14=-102(LC 25)

Max Grav All reactions 250 lb or less at joint(s) 18, 17, 16, 15, 14, 20 except 2=976(LC 1), 19=1130(LC 1)

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

TOP CHORD 2-4=-1306/200, 4-6=-683/163, 6-8=-654/159, 8-9=0/254 **BOT CHORD** 2-24=-195/1275, 22-24=-195/1275

WEBS 4-22=-851/205, 4-24=0/306, 8-19=-1172/114, 8-22=-40/881

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-0, Interior(1) 18-4-0 to 31-7-0 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 17, 16 except (it=lb) 2=129. 14=102.
- 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.
- 10) 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.



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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 chore 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, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Summit/100 Stoney 144681447 2623880 M5 **GABLE** Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:49 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-GDngfvhljtgqWQ?8gbV6Kpgv_DOmnpVlO6cf9OzoU28 20-8-0

10-4-0

Scale = 1:37.3

0-11-0

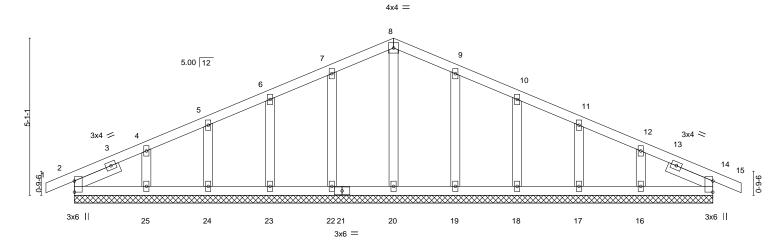


Plate Offsets (X,Y)--[2:0-4-5,0-0-1], [14:0-4-5,0-0-1] SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/defI L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 14 120 197/144 n/r MT20

TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 14 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 14 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 83 lb Matrix-S

LUMBER-**BRACING-**

10-4-0

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 20-8-0.

-0-11-0 0-11-0

Max Horz 2=74(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 25, 19, 18, 17, 16, 14 All reactions 250 lb or less at joint(s) 2, 20, 22, 23, 24, 25, 19, 18, 17, 16, 14

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

Left 2x4 SPF No.2 1-7-4, Right 2x4 SPF No.2 1-7-4

SLIDER

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 2-4-0, Exterior(2N) 2-4-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 21-7-0 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 25,
- 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.

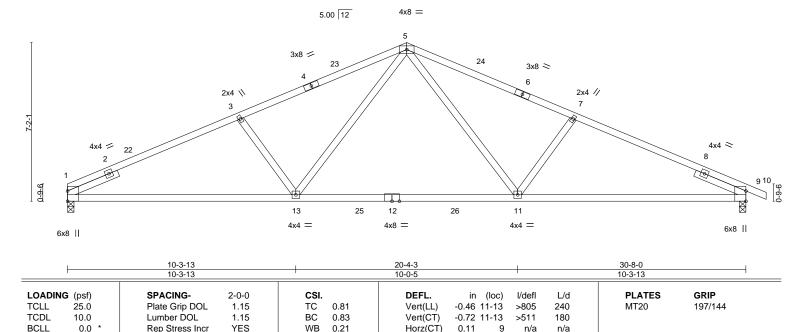


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Job Truss Truss Type Qty Summit/100 Stoney 144681448 2623880 M6 Common 5 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:51 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-CcvR4bj?FVxYlj9Wo0YaQEm3Z0urFqQbrQ5lEGzoU26 15-4-0 22-10-4 30-8-0 31-7-0 0-11-0 7-9-12 7-6-4 7-6-4 7-9-12

Scale = 1:52.1



BRACING-TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

10.0

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS.

(size) 1=0-3-8, 9=0-3-8 Max Horz 1=-113(LC 17)

Max Uplift 1=-121(LC 12), 9=-139(LC 13) Max Grav 1=1450(LC 2), 9=1504(LC 2)

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

Code IRC2018/TPI2014

TOP CHORD 1-3=-2584/243, 3-5=-2385/236, 5-7=-2382/230, 7-9=-2580/242

BOT CHORD 1-13=-242/2324, 11-13=-58/1645, 9-11=-134/2319

WFBS 5-11=-86/851, 7-11=-477/231, 5-13=-87/856, 3-13=-481/231

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-0, Interior(1) 18-4-0 to 31-7-0 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

Matrix-AS

- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=121, 9=139.
- 6) 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.
- 7) 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.



Weight: 109 lb

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

FT = 20%

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Job Truss Truss Type Qty Summit/100 Stoney 144681449 Р1 2623880 Monopitch Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:52 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-goTpHxjd0o3PNtkjMk3pyRIMAQMi_Axk44qJmizoU25

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-11-0 0-11-0 5-9-12

Scale = 1:22.1

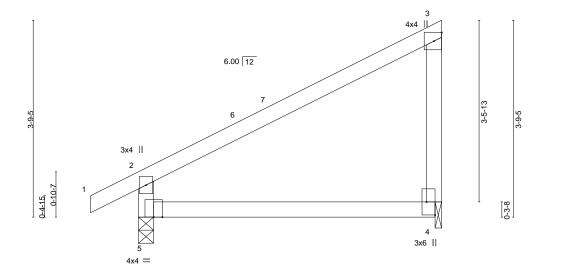


Plate Off	sets (X,Y)	[4:Edge,0-2-0]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.03	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS						Weight: 19 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=0-1-8 Max Horz 5=134(LC 9)

Max Uplift 5=-39(LC 12), 4=-52(LC 12) Max Grav 5=330(LC 1), 4=241(LC 1)

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

TOP CHORD 2-5=-292/194

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-8-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 5, 4 considers paralleí to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 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.



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Job Truss Truss Type Qty Summit/100 Stoney 144681450 2623880 V1 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:53 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-9_1BVHkGn6BG?1JvvRa2VfrWwqiljdJuJkasJ9zoU24 5-9-8 5-9-8 Scale = 1:21.0 4x6 = 6.00 12 3x4 / 2x4 || 11-6-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

n/a

n/a

0.00

999

999

n/a

n/a

n/a

n/a

3

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

OTHERS 2x4 SPF No.2

25.0

10.0

0.0

10.0

REACTIONS. 1=11-6-1, 3=11-6-1, 4=11-6-1 (size)

Max Horz 1=41(LC 16)

Max Uplift 1=-33(LC 12), 3=-41(LC 13), 4=-13(LC 12) Max Grav 1=215(LC 25), 3=215(LC 26), 4=506(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

2-4=-350/169 WEBS

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior(1) 8-9-8 to 10-11-8 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

TC

ВС

WB

Matrix-S

0.38

0.22

0.06

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

YES

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 4.
- 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.



197/144

FT = 20%

MT20

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

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

Weight: 29 lb

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Job Truss Truss Type Qty Summit/100 Stoney 144681451 2623880 V2 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-ZZiK7lm841ZrsV2UbZ7m7HT4D1mcwzWK?hoWvUzoU21 3-9-8 Scale = 1:14.6 4x4 = 6.00 12 3 -0-C 2x4 / 2x4 || 2x4 > LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.18 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 18 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

OTHERS 2x4 SPF No.2

> 1=7-6-1, 3=7-6-1, 4=7-6-1 (size) Max Horz 1=25(LC 16) Max Uplift 1=-26(LC 12), 3=-31(LC 13)

Max Grav 1=145(LC 1), 3=145(LC 1), 4=279(LC 1)

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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit 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) 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.

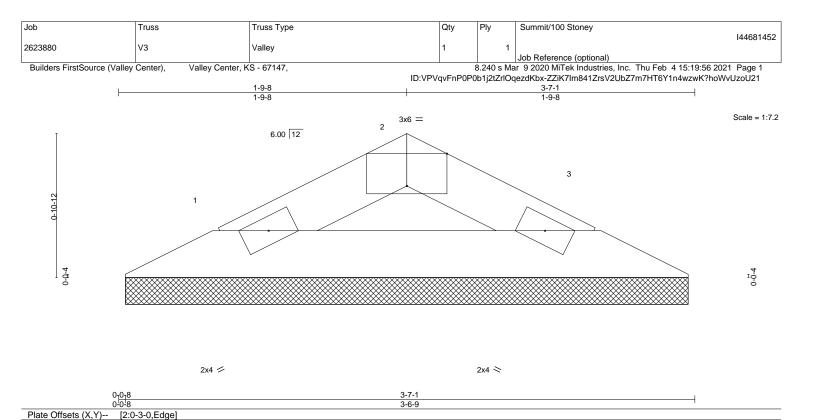


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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







TCLL 25.0 TCDL 10.0

0.0

10.0

SPACING-CSI. Plate Grip DOL 1.15 TC 0.03 Lumber DOL 1.15 ВС 0.05 Rep Stress Incr YES WB 0.00 DEFL. in (loc) I/defI L/d Vert(LL) 999 n/a n/a Vert(CT) n/a n/a 999 Horz(CT) 0.00 3 n/a n/a

PLATES GRIP 197/144 MT20

FT = 20% Weight: 7 lb

LUMBER-

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

BRACING-TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 3-7-1 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

1=3-6-1, 3=3-6-1 (size) Max Horz 1=-9(LC 13) Max Uplift 1=-9(LC 12), 3=-9(LC 13) Max Grav 1=105(LC 1), 3=105(LC 1)

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

Code IRC2018/TPI2014

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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

Matrix-P

- 3) Gable requires continuous bottom chord bearing.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit 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) 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.







16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/100 Stoney 144681453 2623880 V4 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:57 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-1IGiLenmrLhiTecg8Hf?fV0DOR6LfQATDLY4SwzoU20

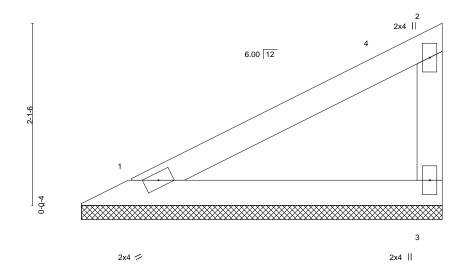
Structural wood sheathing directly applied or 4-2-11 oc purlins,

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

except end verticals.

4-2-11

Scale = 1:13.4



LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip D	OL 1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	_ 1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	 Rep Stress I 	ncr YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC20	018/TPI2014	Matrix	-P	, ,					Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

WEBS 2x4 SPF No.2

REACTIONS. 1=4-2-3, 3=4-2-3 (size) Max Horz 1=65(LC 9)

Max Uplift 1=-14(LC 12), 3=-30(LC 12) Max Grav 1=155(LC 1), 3=155(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-0-15 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) Gable requires continuous bottom chord bearing.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.





Job Truss Truss Type Qty Summit/100 Stoney 144681454 2623880 V5 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:58 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Vyq4Y_oOcepZ5oBti_AECiYRjrSzOtQdS?Hd_MzoU2?

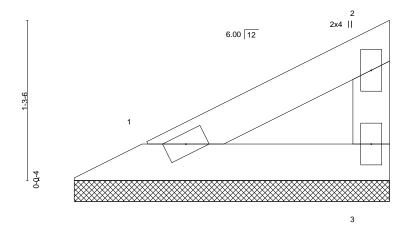
Structural wood sheathing directly applied or 2-6-11 oc purlins,

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

except end verticals.

2-6-11

Scale = 1:9.2



2x4 || 2x4 /

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.05 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 6 lb FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

1=2-6-3, 3=2-6-3 (size) Max Horz 1=34(LC 9) Max Uplift 1=-7(LC 12), 3=-16(LC 12) Max Grav 1=80(LC 1), 3=80(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.

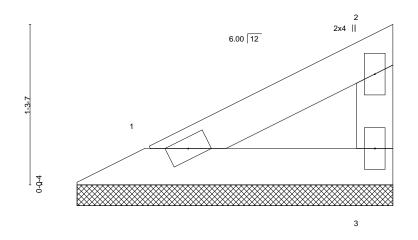


February 5,2021

Job Truss Truss Type Qty Summit/100 Stoney 144681455 2623880 V₆ Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-z8OSmKp0NyxPjym3GihTkw5cSFoB7Kgmhf1BWozoU2_

2-6-14

Scale = 1:9.2



LOADIN	G (psf)	SPACING- 2-0-	0 0	SI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 7	C 0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 E	C 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	s \	VB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	1	/latrix-P						Weight: 6 lb	FT = 20%

TOP CHORD

BOT CHORD

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 2-6-14 oc purlins,

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

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.2

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

Max Horz 1=34(LC 9)

Max Uplift 1=-7(LC 12), 3=-16(LC 12) Max Grav 1=81(LC 1), 3=81(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

2x4 /

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.





Job Truss Truss Type Qty Summit/100 Stoney 144681456 2623880 V7 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-z8OSmKp0NyxPjym3GihTkw5ZsFno7Kgmhf1BWozoU2_

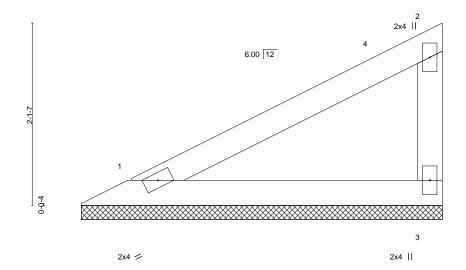
Structural wood sheathing directly applied or 4-2-14 oc purlins,

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

except end verticals.

4-2-14

Scale = 1:13.4



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.22 BC 0.12	1 ' ' ' '	in (loc) n/a -	l/defl n/a	L/d 999 999		GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	\ /	n/a - 0.00 3	n/a n/a	n/a	Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

2x4 SPF No.2 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 1=4-2-6, 3=4-2-6 (size) Max Horz 1=65(LC 9)

Max Uplift 1=-14(LC 12), 3=-30(LC 12) Max Grav 1=156(LC 1), 3=156(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-1-2 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) Gable requires continuous bottom chord bearing.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681457 2623880 V8 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

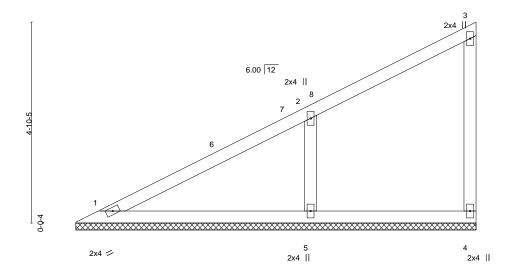
Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:20:00 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-RKyqzgqf8G3GK6LFqPCiH7divf69snzvwJmk1FzoU1z

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

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

except end verticals.

Scale = 1:27.8



LOADIN TCLL	25.Ó	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.33	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 30 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

(size) 1=9-8-1, 4=9-8-1, 5=9-8-1

Max Horz 1=167(LC 11)

Max Uplift 4=-22(LC 9), 5=-97(LC 12)

Max Grav 1=185(LC 1), 4=115(LC 1), 5=504(LC 1)

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

2-5=-381/241 WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-6-13 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681458 2623880 V9 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:20:01 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-wXWDA0qHvZB7yGwRN6jxqLAvN2TMbEW38zWHahzoU1y

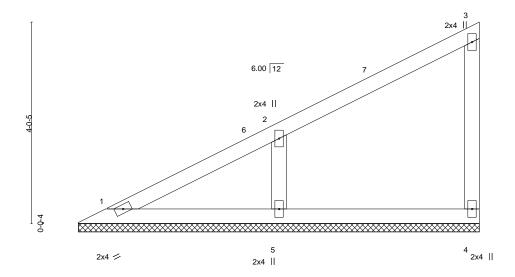
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

8-0-9 8-0-9

Scale = 1:23.0



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL 1.15	TC 0.22	Vert(LL)	n/a `-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a -	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	-0.00 4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 24 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 1=8-0-1, 4=8-0-1, 5=8-0-1

Max Horz 1=136(LC 9)

Max Uplift 4=-20(LC 9), 5=-90(LC 12)

Max Grav 1=115(LC 20), 4=135(LC 1), 5=410(LC 1)

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

WEBS 2-5=-319/234

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 7-10-13 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681459 2623880 V10 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:53 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-9_1BVHkGn6BG?1JvvRa2VfrZiqkBjdbuJkasJ9zoU24

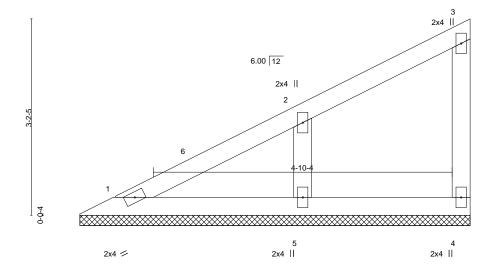
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

3-7-15 2-8-10

Scale = 1:18.7



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) 999 197/144 **TCLL** 1.15 0.13 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 19 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

(size)

Max Horz 1=105(LC 9)

Max Uplift 4=-14(LC 9), 5=-77(LC 12)

Max Grav 1=107(LC 1), 4=81(LC 1), 5=317(LC 1)

1=6-4-1, 4=6-4-1, 5=6-4-1

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-15, Interior(1) 3-7-15 to 6-2-13 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) Gable requires continuous bottom chord bearing.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681460 2623880 V11 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:54 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-dBbZidluYQJ7cBu5T85H1sOi1E31S4R1XNJQrbzoU23

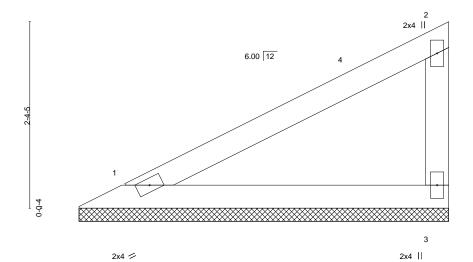
Structural wood sheathing directly applied or 4-8-9 oc purlins,

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

except end verticals.

4-8-9

Scale = 1:14.6



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.29 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 13 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 1=74(LC 9) Max Uplift 1=-16(LC 12), 3=-34(LC 12) Max Grav 1=177(LC 1), 3=177(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-6-13 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) Gable requires continuous bottom chord bearing.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



February 5,2021



Job Truss Truss Type Qty Summit/100 Stoney 144681461 2623880 V12 Valley

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

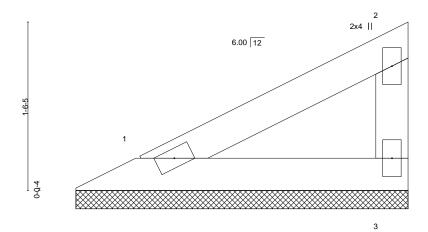
Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:55 2021 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-5N8xwzmWJjR_ELTI1scWa4wwveRyBWhAm13zN1zoU22

Structural wood sheathing directly applied or 3-0-9 oc purlins,

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

3-0-9

Scale = 1:10.4



2x4 /

2x4 ||

except end verticals.

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-P						Weight: 8 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.2

1=3-0-1, 3=3-0-1 (size) Max Horz 1=43(LC 9)

Max Uplift 1=-9(LC 12), 3=-20(LC 12) Max Grav 1=102(LC 1), 3=102(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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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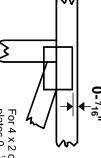


Symbols

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 20/20 software or upon request.

PLATE SIZE



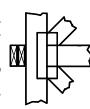
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

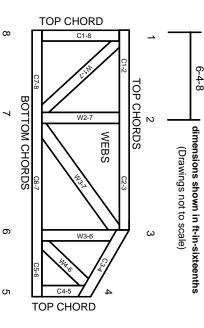
Min size shown is for crushing only

Industry Standards:

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.
- 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

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- 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.
- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.

Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.