



02/11/2021

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

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.

,Engineer











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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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PE-2001018807



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.



PE-2001018807

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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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MiTek



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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

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 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).

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.
- 9) * 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 (jt=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.











2-0-0	6-0-0		10-0-0	12-0-0				
2-0-0	4-0-0	1	4-0-0					
Plate Offsets (X,Y) [3:0-3-5,Edge], [5:0-3-5,Edge]								
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr NO BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.21 BC 0.21 WB 0.16 Matrix-MS	DEFL. in Vert(LL) 0.05 Vert(CT) -0.05 Horz(CT) -0.01	(loc) l/defl L/d 10 >999 240 10 >999 180 8 n/a n/a	PLATES GRIP MT20 197/144 Weight: 48 lb FT = 20%				
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEBS 2x4 SPF No.2 REACTIONS. (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)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals, and 2-0 Rigid ceiling directly applied	rectly applied or 5-11-8 oc purlins, I-0 oc purlins (5-2-3 max.): 3-5. or 7-1-5 oc bracing.				
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- 1) Unbalanced roof live loads have been considered for this de 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91m MWFRS (envelope) gable end zone; cantilever left and righ 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 lin 5) * This truss has been designed for a live load of 20.0psf on will fit between the bottom chord and any other members. 6) Bearing at joint(s) 12, 8 considers parallel to grain value usi capacity of bearing surface. 7) Provide mechanical connection (by others) of truss to bearin 12=598, 8=598. 8) This truss is designed in accordance with the 2018 Internati referenced standard ANSI/TPI 1. 9) Graphical purlin representation does not depict the size or t 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.3' 11) Hanger(s) or other connection device(s) shall be provided 2-0-0, and 4 lb down and 549 lb up at 10-0-0 on top chord 10-0-0 on bottom chord. The design/selection of such cor 12) In the LOAD CASE(S) section, loads applied to the face or 	esign. hph; TCDL=6.0psf; BCDL=6.0p t exposed ; end vertical left and re load nonconcurrent with any the bottom chord in all areas w ng ANSI/TPI 1 angle to grain for ng plate capable of withstandir onal Residential Code sections ne orientation of the purlin alor 25") toe-nails per NDS guidline sufficient to support concentra l, and 557 Ib down and 0 lb up nection device(s) is the respor the truss are noted as front (F	osf; h=15ft; Cat. II; E: d right exposed; Lurr v other live loads. vhere a rectangle 3-6 ormula. Building des ng 100 lb uplift at join s R502.11.1 and R8(ng the top and/or bot s. ted load(s) 4 lb dowr at 2-0-0, and 557 lb nsibility 0 others. c) or back (B).	xp C; Enclosed; bber DOL=1.60 plate 6-0 tall by 2-0-0 wide bigner should verify t(s) except (jt=lb) 02.10.2 and tom chord. n and 549 lb up at o down and 0 lb up at	SCOTT M. SEVIER NUMBER PE-2001018807				

Continued on page 2

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February 5,2021

			RELEASE	FOR			
Job	Truss	Truss Type	CONSTRUC	TION	Ply	Summit/100 Stoney	
2623880	D1	Hin Girder	AS NOTED ON PLA	NS REVIE	W 1		144681432
2023000			DEVELOPMENT S	ERVICES	5	Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	(S - 67147,	LEE'S SUMMIT, N	ISSOURI	8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:33 2021	Page 2
			I	D:VPVqvFnF	P0P0b1j2t2	<pre>Line Content State Content State Content Content</pre>	zoU2O
			02/11/202	1			
LOAD CASE(S) Standard	1						
 Dead + Roof Live (balar 	nced): Lumber Increase=1.15	i, Plate Increase	e=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)





Scale = 1:22.9



H	<u>4-0-0</u> 4-0-0		<u>8-0-0</u> 4-0-0	1	<u>2-0-0</u> 4-0-0
Plate Offsets (X,Y)	[2:Edge,0-0-0], [7:Edge,0-0-0]				
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Das Chross Lass	CSI. TC 0.24 BC 0.26	DEFL. in (loc Vert(LL) -0.04 Vert(CT) -0.06	c) I/defi L/d 9 >999 240 9 >999 180	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		7 n/a n/a	Weight: 45 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

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 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 5) 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.



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MWFRS (envelope) gable and 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

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) 2, 6.

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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.12 BC 0.06 WB 0.05 Matrix-P	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/14 Vert(CT) n/a - n/a 999 MT20 197/14 Horz(CT) 0.00 5 n/a n/a Weight: 22 lb FT =	1 = 20%
LUMBER- TOP CHORD 2x4 SI	PF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc pu	rlins,

BOT CHORD

TOF CHORD	2X4 OFF NU.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-10-15.

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

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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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TOP CHORD 1-2=-276/148
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WEBS 2-7=-220/309

NOTES-

 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 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.

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 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.





















		RELEASE FOR	
Job Truss	Truss Type		Summit/100 Stoney
2623880 GB1	Roof Special	Girder AS NOTED ON PLANS REVIEW	144681439
		DEVELOPMENT SERVICES 2	Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, K	S - 67147,	LEE'S SUMMIT, MISSOURI 8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Feb 4 15:19:41 2021 Page 2
		ID:VPVqvFnP0P0b1j2tZrlO	qezdKbx-VgIf_AbkcQgzZBObCwME07LSU_WZv1M6YsgEtrzoU2G
NOTES-		02/11/2021	
Hanger(s) or other connection device(s) shall be pro	ovided sufficie	ent to support concentrated load(s). The design/sele	ction 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)



		Γ	RE	LEASE FOR			
Job	Truss	Truss Type	CON	ISTRUCTION	Ply	Summit/100 Stoney	144681440
2623880	JD1	Jack-Open	AS NOTEL DEVELO	ON PLANS REVI	EW 1 S	Ich Peference (ontiona	n
Builders FirstSource (Va	lley Center), Valley	Center, KS - 67147,	LEE'S S	UMMIT, MISSOUR	8.240 s M	ar 9 2020 MiTek Industri	es, Inc. Thu Feb 4 15:19:41 2021 Page 1
		-1-3-9		1D:VPVqvFnP 02/11/2021 2-8	0P0b1j2tZr -7	1OqezdKbx-VgIt_AbkcQg	zZBObCwME07LWg_fivAR6YsgEtrzoU2G
		1-3-9	,	2-8	9-7		
	Ī	L	4.	24 12		3 7 3x4 II	Scale: 1"=1'
	0-10-9		2x4 2				
						5 3x6 4	
			2x4 =			NAILE	D
				2-8	-7		
Plate Offsets (X,Y)	[3:0-3-6,0-0-8]			2-0	-1		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/I	2-0-0 1.15 1.15 YES 'PI2014	CSI. TC 0.14 BC 0.05 WB 0.11 Matrix-MP	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0	in (loc) 10 5-6 10 5-6 12 3	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 10 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	F No.2 F No.2 F No.2	I		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	ral wood sheathing dired end verticals. eiling directly applied or	ctly applied or 2-8-7 oc purlins, 10-0-0 oc bracing.
REACTIONS. (size Max He Max U Max G	e) 6=0-4-9, 5=Mechan brz 6=48(LC 8) blift 6=-100(LC 8), 3=-5 rav 6=239(LC 1), 5=568	ical, 3=Mechanical 54(LC 8) 3(LC 29), 3=55(LC 1)					
FORCES. (lb) - Max. WEBS 3-5=-	Comp./Max. Ten All fo 1189/456	orces 250 (lb) or less e	xcept when shown				
 NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) exposed;C-C for mer 2) This truss has been 3) * This truss has beer will fit between the b 4) Refer to girder(s) for 5) Bearing at joint(s) 6 d capacity of bearings 6) Provide mechanical 6=100, 3=554. 7) This truss is designe referenced standard 8) Gap between inside 9) "NAILED" indicates 3 10) In the LOAD CASE LOAD CASE(S) Stand 1) Dead + Roof Live (bz) 	ult=115mph (3-second (gable end zone and C-C mbers and forces & MW designed for a 10.0 psf i n designed for a live loar ottom chord and any ott truss to truss connectio considers parallel to gra urface. connection (by others) of d in accordance with the ANSI/TPI 1. of top chord bearing an 3-10d (0.148"x3") or 2-1 (S) section, loads applie fard alanced): Lumber Increa	gust) Vasd=91mph; TC C Corner(3) zone; canti (FRS for reactions shore bottom chord live load d of 20.0psf on the bott her members. ons. in value using ANSI/TF of truss to bearing plate e 2018 International Re 2 d (0.148"x3.25") toe-re ed to the face of the tru ase=1.15. Plate Increase	CDL=6.0psf; BCDL= ilever left and right wn; Lumber DOL= nonconcurrent with tom chord in all are PI 1 angle to grain a capable of withsta esidential Code sec cal web shall not e: hails per NDS guid iss are noted as fro	=6.0psf; h=15ft; Cat. II; exposed ; end vertical 1.60 plate grip DOL=1.6 n any other live loads. eas where a rectangle 3 formula. Building desig anding 100 lb uplift at jo ctions R502.11.1 and R kceed 0.500in. lines. ont (F) or back (B).	Exp C; En left and rig 50 i-6-0 tall by ner should int(s) exce 802.10.2 a	nclosed; ght y 2-0-0 wide d verify apt (jt=lb) and	STATE OF MISSOUR SCOTT M. SEVIER
Uniform Loads (plf) Vert: 1-2=-7 Concentrated Loads Vert: 5=1(F)	0, 2-3=-70, 4-6=-20 (lb)	ase≠1.13, ridle mufeat	55-1.13			2	PE-2001018807
(⊢ebruary 5,2021

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				1-10-5	
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	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	Matrix-MR		Weight: 6 lb FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

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-

 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.

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) 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/TPL1.

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	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%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

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

NOTES-

 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

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) 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/TPL1.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-8-9. (Ib) - 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) 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.

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, Interior(1) 3-3-15, Interior(2R) 3-10-4, to 6-10-4, Interior(4) 2 (4) 4-7, 440 - 40, and the distribution of the second state of the distribution of the second state of the

- , 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
- 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.

LOADING (ps TCLL 25. TCDL 10. BCLL 0. BCDL 10.	sf) .0 .0 .0 * .0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrix	0.13 0.06 0.04 c-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 1 1 9	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 42 lb	GRIP 197/144 FT = 20%	
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS SLIDER	2x4 SP 2x4 SP 2x4 SP 2x4 SP 2x4 SP Left 2x4	F No.2 F No.2 F No.2 F No.2 4 SPF No.2 1-7-6				BRACING- TOP CHOF BOT CHOF	RD RD	Structur except Rigid ce	ral wood end verti eiling dire	sheathing di cals. ectly applied	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,	
REACTIONS. (lb)	All be - Max He	earings 9-11-8. orz 2=177(LC 9)											

Max Uplif All uplif 100 b or less at joint(s) 9, 13, 12, 11, 10 Max Grav All reactions 250 b 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

NOTES-

- 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.

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 13, 12, 11, 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.

				RELEASE FO	R			
Job	Truss	Truss Type	С	ONSTRUCTIO	Ply Ply	Summit/100 S	toney	
2623880	M2	Common	AS NO	TED ON PLANS				144681445
			DEVE	LOPMENT SER	VICES	Job Reference	(optional)	
Builders FirstSource (Valle	/ Center), Valley	/ Center, KS - 67147,	LEE'	S SUMMIT, MISS	SOURI 8.240 s M	ar 9 2020 MiTel	Industries, Inc. Thu Feb 4 15	5:19:46 2021 Page 1
				ID:V	PVqvFnP0P0b1j2t	ZrlOqezdKbx-se	6Y1uftRyIGfyHZ?TyPjA2Cv?A	naPCsi8N_Z3zoU2B
-p-11-Q	7-9-12		15-4-0	02/11/2021	22-10-4		30-8-0	31-7-0
0-11-0	7-9-12		7-6-4	02/11/2021	7-6-4		7-9-12	0-11-0

	10-3-13 10-3-13	20-4-3 10-0-5	<u> </u>
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. DEFL. TC 0.81 Vert(LL) -0.4 BC 0.83 Vert(CT) -0.7 WB 0.21 Horz(CT) 0.7 Matrix-AS Kernel Kernel Kernel	in (loc) I/defl L/d 6 12-14 >801 240 2 12-14 >509 180 1 10 n/a n/a Weight: 110 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

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

BOT CHORD 2-14=-241/2318, 12-14=-58/1644, 10-12=-134/2318

WEBS 6-12=-86/851, 8-12=-477/231, 6-14=-86/851, 4-14=-477/231

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) -0-11-0 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) 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, 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.

16023 Swingley Ridge Rd Chesterfield, MO 63017

			R	ELEASE FO	R			
Job	Truss	Truss Type	CC	ONSTRUCTIO	Ply Ply	Summit/100	Stoney	
2623880	M4	GABLE	AS NOT DEVE	ED ON PLANS	REVIEW	Job Reference	e (optional)	144681446
Builders FirstSource (Valley	Center), Valley Center,	KS - 67147,	LEE'S	SUMMIT, MISS	OURI 8.240 s M	ar 9 2020 MiT	ek Industries, Inc. Thu Feb 4 15:19:48	8 2021 Page 1
				ID:VP	VqvFnP0P0b1j2t2	rlOqezdKbx-o1	DISZg7yaYzuGQy7u_tob8cppxd2Gh8	9Ss5dxzoU29
-p-11-p	7-9-12		15-4-0	02/11/2021	22-10-4		30-8-0	31-7-0
0-11-0	7-9-12		7-6-4	02/10/2021	7-6-4		7-9-12	0-11-0

<u> </u>	7-9-12	15-4-0	20-8-0	22-10-4	30-8-0	
	7-9-12	7-6-4	5-4-0	2-2-4	7-9-12	1
Plate Offsets (X,Y)	[2:0-5-9,Edge]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.48 WB 0.40 Matrix-AS	DEFL. in (l Vert(LL) -0.07 22 Vert(CT) -0.16 22 Horz(CT) 0.03	loc) l/defl L/d -24 >999 240 -24 >999 180 20 n/a n/a	PLATES MT20 Weight: 143 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x4 SF SLIDER Left 2x	PF No.2 PF No.2 PF No.2 PF No.2 PF No.2 4 SPF No.2 2-6-0	<u> </u>	BRACING- TOP CHORD St BOT CHORD Ri WEBS 1	ructural wood sheathing di gid ceiling directly applied. Row at midpt	irectly applied, except o - 4-22	end verticals.
REACTIONS. All be (lb) - Max H Max U Max G	earings 10-3-8 except (jt=length) 2=0-3- orz 2=103(LC 16) plift All uplift 100 lb or less at joint(s) 1 rav All reactions 250 lb or less at joint	8, 20=0-3-8. 9, 17, 16 except 2=-129(LC 1 (s) 18, 17, 16, 15, 14, 20 exc	2), 14=-102(LC 25) ept 2=976(LC 1), 19=113	30(LC 1)		
FORCES.(lb) - Max.TOP CHORD2-4=-BOT CHORD2-24=WEBS4-22=	Comp./Max. Ten All forces 250 (lb) o 1306/200, 4-6=-683/163, 6-8=-654/159 =-195/1275, 22-24=-195/1275 =-851/205, 4-24=0/306, 8-19=-1172/114	r less except when shown. 8-9=0/254 , 8-22=-40/881				
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 18-4-0 to MWFRS for reaction 3) Truss designed for v Gable End Details a 4) All plates are 2x4 M 5) Gable studs spaced 6) This truss has been 7) * This truss is designer referenced standard 10) This truss design r sheetrock be applied 	e loads have been considered for this de (ult=115mph (3-second gust) Vasd=91n gable end zone and C-C Exterior(2E) - 31-7-0 zone; cantilever left and right exi is shown; Lumber DOL=1.60 plate grip vind loads in the plane of the truss only. s applicable, or consult qualified buildin T20 unless otherwise indicated. at 2-0-0 oc. designed for a 10.0 psf bottom chord lin n designed for a 10.0 psf bottom chord lin n designed for a live load of 20.0psf on notom chord and any other members. connection (by others) of truss to bearin 2. d in accordance with the 2018 Internati ANSI/TPI 1. equires that a minimum of 7/16" structure ed directly to the bottom chord.	esign. hph; TCDL=6.0psf; BCDL=6.0 -11-0 to 2-1-0, Interior(1) 2-1 bosed ; end vertical left and ri DOL=1.60 For studs exposed to wind (g designer as per ANSI/TPI 1 re load nonconcurrent with ar the bottom chord in all areas ng plate capable of withstand onal Residential Code section ral wood sheathing be applied	Opsf; h=15ft; Cat. II; Exp (-0 to 15-4-0, Exterior(2R ght exposed;C-C for mer normal to the face), see : - - - - - - - - - - - - - - - - - - -	C; Enclosed;) 15-4-0 to 18-4-0, mbers and forces & Standard Industry tall by 2-0-0 wide) 19, 17, 16 except 10.2 and) and 1/2" gypsum	STATE OF SCO SE SCO SE DE SCO SE SCO SE	MISSOLUTI MISSOLUTI VIER MISSOLUTI VIER MISSOLUTI MISSOLUTI MISSOLUTI MISSOLUTI MISSOLUTI MISSOLUTI MISSOLUTI VIER

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 **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

February 5,2021

	1					20-8-0						1
	ſ					20-8-0						
Plate Offse	ets (X,Y)	[2:0-4-5,0-0-1], [14:0-4-5	,0-0-1]									
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	0.05	Vert(LL)	-0.00	14	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	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		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	k-S						Weight: 83 lb	FT = 20%
I UMBER-						BRACING					•	

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

All bearings 20-8-0. 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 Max Grav

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 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 8) 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, 19, 18, 17, 16, 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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

		RE	LEASE FO	R			
Job Truss	Truss Type	CON	ISTRUCTI	9tN Ply	Summit/100 S	toney	
2623880 M6	Common	AS NOTEL DEVELC	O ON PLANS	REVIEW 1 VICES	Job Reference	(optional)	144681448
Builders FirstSource (Valley Center), Valley Center,	KS - 67147,	LEE'S S	ID:VP	50URI 8.240 s M /qvFnP0P0b1j2tZr	ar 9 2020 MiTel IOqezdKbx-CcvF	Industries, Inc. Thu Feb 4 15:1 4bj?FVxYlj9Wo0YaQEm3Z0urF	9:51 2021 Page 1 gQbrQ5IEGzoU26
7-9-12		15-4-0	02/11/2021	22-10-4	-	30-8-0	31-7-0
7-9-12		7-6-4		7-6-4		7-9-12	0-11-0

ŀ	10-3-13 10-3-13		20-4-3 10-0-5	-	30-8-0 10-3-13
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.81 BC 0.83 WB 0.21 Matrix-AS	DEFL. in (loc) Vert(LL) -0.46 11-13 Vert(CT) -0.72 11-13 Horz(CT) 0.11 9	l/defl L/d >805 240 >511 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 109 lb FT = 20%
LUMBER-			BRACING-		

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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.

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

5-11=-86/851, 7-11=-477/231, 5-13=-87/856, 3-13=-481/231 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) 0-0-0 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

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, 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.

Scale = 1:52.1

Plate Offsets (X,Y)	[4:Edge,0-2-0]		
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOI 1 15	CSI. TC 0.31	DEFL. in (loc) l/defl L/d PLATES GRIP Vert/(11) -0.03 4-5 >999 240 MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.21 WB 0.00 Matrix-AS	Vert(CT) -0.06 4-5 >999 180 Horz(CT) 0.00 4 n/a n/a Weight: 19 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=0-1-8 Max Horz 5=134(LC 9) Max Lipliff 5=-39(I C 12) 4=

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

NOTES-

- 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 parallel 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.

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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 **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

February 5,2021

TOP CHORD

BOT CHORD

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LUMBER-
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TOP CHORD 2x4 SPF No 2 BOT CHORD OTHERS

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

REACTIONS. 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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.

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, 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.

2x4 💋

2x4 🔍

Structural wood sheathing directly applied or 3-7-1 oc purlins.

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

	0 ₁ 0 ₁ 8 0-0-8				3-7-1 3-6-9						——
Plate Offsets (X,	[2:0-3-0,Edge]										
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL	1.15	тс	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
3CLL 0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 7 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 5) 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.

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.22 BC 0.12 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) 0.	in (loc) 1/a - 1/a - 00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 20%
LUMBER-	l		BRACING-					

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

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 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 4) 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.

2x4 💋

2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.05 BC 0.03 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a Weight: 6 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals.

BOT CHORD

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 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)

2x4 SPF No.2

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

NOTES-

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) 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.

2x4 💋

2x4 ||

except end verticals.

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

OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/a	-	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a	-	n/a	999		
CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-P	()				Weight: 6 lb	FT = 20%

BOT CHORD

BOT CHORD 2x4 SPF No.2 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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.
- 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.

LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES	CSI. TC 0.22 BC 0.12 WB 0.00	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0 Code IRC2018/TPI2014	Matrix-P				Weight: 11 lb	FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

/EBS 2x4 SPF No.2

REACTIONS. (size) 1=4-2-6, 3=4-2-6 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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

 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.
- 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.

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 **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

BRACING-TOP CHORD

D Structural wood sheathing directly applied or 4-2-14 oc purlins, except end verticals.

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

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 0.33 BC 0.17 WB 0.06	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/1PI2014	Matrix-S					Weight: 30 lb	F1 = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (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)

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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.
                2-5=-381/241
WEBS
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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) 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.

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

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

except end verticals.

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.22 BC 0.11 WB 0.04 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 20%
LUMBER-			BRACING-	D	Structu	ral wood	sheathing di	ectly applied or 6-0-0	oc purlins

BOT CHORD

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

WEBS 2x4 SPF No.2 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)

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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.
WEBS
                2-5=-319/234
```

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) 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.

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

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

except end verticals.

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.13 BC 0.07 WB 0.04 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 197/144 Weight: 19 lb FT = 20%
			554 ONIO	

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 1=6-4-1, 4=6-4-1, 5=6-4-1 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)

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

NOTES-

 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.
- 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.

TCLL 25.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) n/a - n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) n/a - n/a 999 MT20 BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a	GRIP
TCDL 10.0 Lumber DOL 1.15 BC 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	197/144
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-P Weight: 1	3 lb FT = 20%

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 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 4) 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.

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

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

except end verticals.

2x4 💋

2x4 ||

except end verticals.

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

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.05 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a Weight: 8 lb FT = 20%	
LUMBER-	ΡΕ Νο 2		BRACING- TOP CHORD Structural wood sheathing directly applied or 3-0-9 oc purlins	

BOT CHORD

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

REACTIONS. 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.

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.
- 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.

