

MiTek, Inc. RE: P240212-01 - Roof - HR Lot 204 16023 Swingley Ridge Rd. Site Information: Project Customer: Clayton Properties Project Name: Wildflower - Transitional 3Ca14.434.1200 Lot/Block: 204 Subdivision: Hawthorne Ridge Model: Address: 1605 SW Buckthorn Dr City: Lee's Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Floor Load: N/A psf Roof Load: 45.0 psf

Mean Roof Height (feet): 35

Exposure Category: C

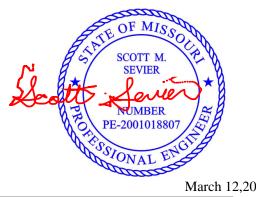
No.	Seal#	Truss Name	Date
1	164148478	V05	3/12/24
2	l64148479 l64148480	V04 V03	3/12/24 3/12/24
4	164148481	V02	3/12/24
5	l64148482 l64148483	V01 LG01	3/12/24 3/12/24
7	164148484	J02	3/12/24
23456789	164148485 164148486	J01 CJ01	3/12/24 3/12/24
10	164148487	C09	3/12/24
11 12	l64148488 l64148489	C08 C07	3/12/24
13	164148490	C07 C06	3/12/24 3/12/24
14	164148491	C05	3/12/24
15 16	l64148492 l64148493	C04 C03	3/12/24 3/12/24
17	164148494	C02	3/12/24
18 19	164148495 164148496	C01 B01	3/12/24 3/12/24
20	164148497	Ā04	3/12/24
21 22	l64148498 l64148499	A03 A02	3/12/24 3/12/24
23	164148500	A01	3/12/24

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

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.



Sevier, Scott

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	V05	Valley	1	1	Job Reference (optional)	164148478

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:34 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x4 =

2-8-14

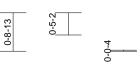
1-0-4

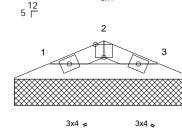
Page: 1



3-5-3

0-8-6





3-5-3

1-8-10

1-8-10

Scale = 1:22.1

Plate Offsets (X, Y): [2:0-2-0,Edge]

	(X, T). [2.0-2-0,Euge]	-											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-P	0.03 0.05 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 8 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD REACTIONS FORCES	2x4 SP No.2 Structural wood shea 3-6-6 oc purlins. Rigid ceiling directly bracing. (size) 1=3-5-3, 3 Max Horiz 1=-8 (LC Max Uplift 1=-14 (LC Max Grav 1=91 (LC (lb) - Maximum Com Tension 1-2=-101/94, 2-3=-10	applied or 10-0-0 o 3=3-5-3 13) 2 12), 3=-14 (LC 13) 1), 3=91 (LC 1) ppression/Maximum	c 9) 1(	on the botto 3-06-00 tall chord and a All bearings capacity of § Provide med bearing plat 1 and 14 lb D) This truss is Internationa	chanical conne e capable of w uplift at joint 3. designed in ad I Residential C und referenced	areas where le will fit betw bers. to be SP No. ection (by oth ithstanding 1 ccordance w code sections	a rectangle veen the both 2 crushing ers) of truss 4 lb uplift at ith the 2018 R502.11.1 a	tom to joint					
this design 2) Wind: ASC Vasd=91n Ke=1.00; 0	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose Dea and C-C Exterior(2	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	pe)										

exterior 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

 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 requires continuous bottom chord bearing.

5) Gable studs spaced at 4-0-0 oc.

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



March 12,2024

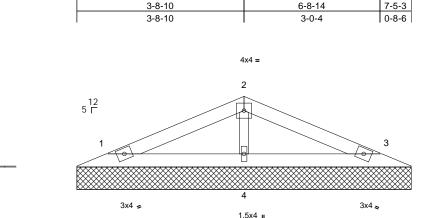


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	V04	Valley	1	1	Job Reference (optional)	164148479

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Pa



					7-5-3						
(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

### LUMBER

Scale = 1:25.6 Loading TCLL (roof) TCDL BCLL BCDL

LUWBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
OTHERS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	1=7-5-3, 3=7-5-3, 4=7-5-3
	Max Horiz	1=-24 (LC 13)

### Max Horiz 1=-24 (LC 13) Max Uplift 1=-36 (LC 12), 3=-40 (LC 13), 4=-13 (LC 12) Max Grav 1=137 (LC 1), 3=137 (LC 1), 4=269 (LC 1)

### FORCES (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=-55/43, 2-3=-55/48

 BOT CHORD
 1-4=-1/24, 3-4=-1/24

 WEBS
 2-4=-193/164

### 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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
- 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 requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 8) All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 40 lb uplift at joint 3 and 13 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	V03	Valley	1	1	Job Reference (optional)	164148480

2-4-13

### Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:34 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



 $\frac{5\cdot8\cdot10}{5\cdot8\cdot10}$   $\frac{4x6}{5\cdot0\cdot4}$   $\frac{4x6}{0\cdot8\cdot6}$   $\frac{11\cdot5\cdot3}{0\cdot8\cdot6}$   $\frac{4x6}{1}$   $\frac{11\cdot5\cdot3}{0\cdot8\cdot6}$   $\frac{4x6}{1}$   $\frac{11\cdot5\cdot4}{1}$ 

11-5-3

Scale = 1:29.8

Scale = 1:29.8													1
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.42 0.25 0.07	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 35 lb	<b>GRIP</b> 244/190 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=11-5-3, Max Horiz 1=-40 (LC Max Uplift 1=-49 (LC 4=-43 (LC Max Grav 1=207 (LC 4=496 (LC (lb) - Maximum Com Tension 1-2=-106/64, 2-3=-1 1-4=-3/43, 3-4=-3/45	applied or 10-0-0 oc 3=11-5-3, 4=11-5-3 13) 12), 3=-56 (LC 13), 12) 2 25), 3=207 (LC 26) C 1) npression/Maximum 06/70	ted or و ح 1	on the bottor 3-06-00 tall b chord and ar 3) All bearings capacity of 5 3) Provide mec bearing plate 1, 56 lb upliff (0) This truss is International	hanical connectio e capable of withsi t at joint 3 and 43 designed in accor Residential Code nd referenced star	as where ill fit betw e SP No. n (by oth tanding 4 lb uplift a rdance w e sections	a rectangle veen the botto 2 crushing ers) of truss t 9 lb uplift at ji t joint 4. ith the 2018 i R502.11.1 a	om oo oint					
NOTES 1) Unbalance	ed roof live loads have	been considered for											

- this design.
  Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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
- 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 requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



March 12,2024



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	V02	Valley	1	1	Job Reference (optional)	l64148481

7-8-10

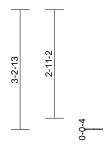
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

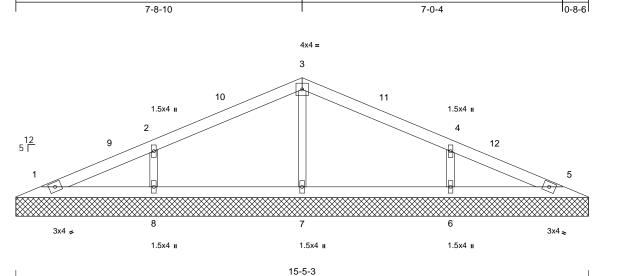
Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:34 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

14-8-14



15-5-3





Scale = 1:31.1

Loading TCLL (roof) TCDL	(ps 25 10	.0 Plate	Grip DOL per DOL	2-0-0 1.15 1.15		CSI TC BC	0.22 0.11	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0 10		Stress Incr	YES	18/TPI2014	WB Matrix-S	0.06	Horiz(TL)	0.00	5	n/a	n/a	Weight: 49 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood 6-0-0 oc purlins Rigid ceiling dir bracing. (size) 1=15 7=15 Max Horiz 1=55 Max Uplift 1=-1: 6=-1 Max Grav 1=10 (LC 2 25)	d sheathing 6  ectly applied i-5-3, 5=15- i-5-3, 8=15- i (LC 16) 2 (LC 13), 5 19 (LC 13), 5 19 (LC 13), 5 26), 7=315 (	directly applied d or 10-0-0 oc 5-3, 6=15-5-3, 5-3 =-10 (LC 13), 8=-120 (LC 13), =106 (LC 1), 6= LC 1), 8=375 (	4 5 6 7 1 or 8 9 9 =375 1 LC	<ul> <li>Gable requirit)</li> <li>Gable studs</li> <li>This truss hat chord live loa</li> <li>* This truss hat ochord live loa</li> <li>* This truss hat ochord and ar</li> <li>All bearings a capacity of 5</li> <li>Provide mec bearing plate</li> <li>1, 10 lb uplift at joint</li> <li>This truss is International</li> </ul>	es continuous bu spaced at 4-0-0 s been designed d nonconcurren has been designed n chord in all are y 2-00-00 wide hy other member are assumed to 65 psi. hanical connecti capable of with a t joint 5, 120 lb 6. designed in acco Residential Coo hd referenced st	oc. d for a 10. t with any ed for a live as where will fit betw s. be SP No. on (by oth standing 1 o uplift at jo prdance w le sections	) psf bottom other live loa: e load of 20.0 a rectangle veen the botto 2 crushing ers) of truss t 2 lb uplift at ju pint 8 and 115 th the 2018 R502.11.1 a	opsf om o oint ) Ib				Troigit. 19 19	
FORCES	(lb) - Maximum Tension	Compressio	on/iviaximum		. ,									
TOP CHORD	1-2=-71/46, 2-3 4-5=-53/35	=-87/104, 3	-4=-87/98,											
BOT CHORD	1-8=-4/43, 7-8=	-4/43, 6-7=-	-4/43, 5-6=-4/4	3										
WEBS	3-7=-235/88, 2-	8=-295/222	, 4-6=-295/222	2										
NOTES														
this design 2) Wind: ASC	ed roof live loads l n. CE 7-16; Vult=115 nph: TCDL=6.0ps	5mph (3-sec	ond gust)									A	ATE OF M	MISSOL

- (1) Wind: ASCE 7-10, Vite Tr3mp(3):sector gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 7-9-3, Exterior(2R) 7-9-3 to 12-9-3, Interior (1) 12-9-3 to 14-9-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	V01	Valley	1	1	Job Reference (optional)	164148482

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:33

Page: 1

9-5-3

0-8-6

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3x4 🖕

ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-8-10 18-8-14 9-8-10 9-0-4 4x4 =3 1.5x4 🛚 1.5x4 🛚 2 4 10 11 12 5 Г 0 -0-0 \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* 9 8 7 6 3x4 🚅 1.5x4 🛚 3x4 = 1.5x4 🛚 1.5x4 🛚 19-5-3

Scale = 1:36.6

3-9-2

4-0-13

Scale = 1.50.0													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%
	7=19-5-3, Max Horiz 1=-71 (LC Max Uplift 1=-19 (LC 6=-154 (L Max Grav 1=189 (LC	applied or 10-0-0 oc 5=19-5-3, 6=19-5-3, 9=19-5-3 13) 12), 5=-31 (LC 13), C 13), 9=-154 (LC 12)	2) 1 =500 1 (LC	<ul> <li>Gable studs</li> <li>This truss ha chord live loa</li> <li>* This truss ha on the bottor 3-06-00 tall b chord and ar</li> <li>All bearings capacity of 5</li> <li>Provide mec bearing plate 1, 31 lb uplift uplift at joint</li> <li>This truss is International R802.10.2 ar</li> </ul>	hanical connection e capable of withst t at joint 5, 154 lb of 6. designed in accor Residential Code nd referenced star	c. for a 10. with any d for a liv is where ill fit betv e SP No. n (by oth tanding 1 uplift at ju dance w sections	0 psf bottom other live load re load of 20.0 a rectangle veen the botto 2 crushing ers) of truss t 19 lb uplift at ju oint 9 and 154 ith the 2018 s R502.11.1 a	Opsf om o oint 4 Ib					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	L	OAD CASE(S)	Standard								
TOP CHORD	1-2=-88/79, 2-3=-90 4-5=-66/64	/118, 3-4=-90/114,											
BOT CHORD	1-9=-11/56, 7-9=-11, 5-6=-11/56	/56, 6-7=-11/56,											
WEBS	3-7=-195/30, 2-9=-3	81/231, 4-6=-381/23	1										
this design 2) Wind: ASC Vasd=91m Ke=1.00; C	d roof live loads have  E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop										STATE OF I	MISSOLA T M. ER

- Interior (1) 5-9-3 to 9-9-3, Exterior(2R) 9-9-3 to 14-9-3, Interior (1) 14-9-3 to 18-9-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.



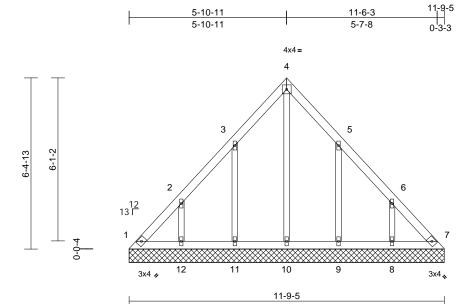
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. 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/TPI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type Qty Ply Roof - HR Lot 204		Roof - HR Lot 204		
P240212-01	LG01	Lay-In Gable	1	1	Job Reference (optional)	164148483

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:33 ID:LJP6aQ6o2aap8a\_99hFRWxzkXVN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.1

												-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	)18/TPI2014	CSI TC BC WB Matrix-S	0.07 0.04 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 55 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood sl 6-0-0 oc purlins. Rigid ceiling direct bracing. (size) 1=11-9- 9=11-9- 19=11-9 (size) 1=173 Max Horiz 1=-173 Max Uplift 1=-58 (l 8=-145 11=-148 (l 8=210 (l 10=141)		d or -5, 3), 12)	<ul> <li>Vasd=91mpl Ke=1.00; Ca</li> <li>exterior zone</li> <li>Interior (1) 5</li> <li>10-10-14, Inicantilever lefright expose</li> <li>for reactions</li> <li>DOL=1.60</li> <li>Truss desig</li> <li>only. For stuse</li> <li>see Standarr</li> <li>or consult qu</li> <li>All plates are</li> <li>Gable requir</li> <li>Gable studs</li> <li>This truss ha</li> <li>chord live loc</li> <li>* This truss f</li> </ul>	7-16; Vult=115n h; TCDL=6.0psf; t. II; Exp C; Encle e and C-C Exterior 4-0 to 5-10-14, I; terior (1) 10-10-1 1 tand right exposed d;C-C for member shown; Lumber ned for wind load ds exposed to w d Industry Gable alified building d e 1.5x4 MT20 uni es continuous bo spaced at 0-0-0 as been designed an chord in all are	BCDL=6. osed; MW or(2E) 0-4 Exterior(2E) ed; end v ers and foi DOL=1.60 ds in the p rind (norm End Deta lesigner a: lesigner a	Opsf; h=35ft; FRS (envelop -0 to 5-4-0, R) 5-10-14 to 13 zone; vertical left an cress & MWFF 0 plate grip lane of the tru al to the face ills as applica s per ANSI/TI wise indicater d bearing. 0 psf bottom other live loa e load of 20.0	nd RS Jss ), ble, PI 1. d. ds.					
FORCES	Tension 1-2=-218/139, 2-3	mpression/Maximum =-137/89, 3-4=-130/11		3-06-00 tall t chord and ar	by 2-00-00 wide by other member are assumed to l	will fit betw s.	veen the botto	om					
BOT CHORD	1-12=-108/161, 11 10-11=-109/161, 9 8-9=-109/161, 7-8	-10=-109/161, =-108/161		bearing plate	i65 psi. hanical connection capable of with t at joint 7, 144 lb	standing 5	58 lb uplift at j	oint				STATE OF	MISSO
WEBS NOTES 1) Unbalance this design	ed roof live loads hav	-201/168, -201/167, 6-8=-199/1 ve been considered for		joint 8. 11) This truss is International	11, 142 lb uplift a designed in acco Residential Cod nd referenced sta	ordance w e sections	ith the 2018 R502.11.1 a					ST SCOT SEV	T M. IER

LOAD CASE(S) Standard

### SIONAL March 12,2024

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PE-200101880

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	J02	Jack-Open	7	1	Job Reference (optional)	l64148484

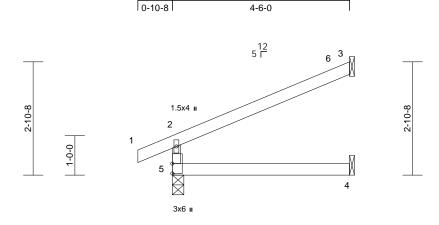
4-6-0

-0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:33 ID:TY9bk33I?M3NfzhOwrBVL5zkXVR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-6-0

Scale = 1:29.3				I								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.36	Vert(LL)	0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 16 lb	FT = 20%
		•	6) Provide me	chanical connec	tion (by oth	ore) of truce	to	-	-			

LOWRER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	4-6-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	3= Mechanical, 4= Mechanical,
		5=0-3-8
	Max Horiz	5=83 (LC 12)
	Max Uplift	3=-82 (LC 12), 5=-39 (LC 12)
	Max Grav	3=138 (LC 1), 4=83 (LC 3), 5=271
		(LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·

#### TOP CHORD 2-5=-234/193, 1-2=0/26, 2-3=-80/45 BOT CHORD 4-5=0/0

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-5-4 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

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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.

Refer to girder(s) for truss to truss connections. 5)

### 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5 and 82 lb uplift at joint 3.

This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	J01	Jack-Open	4	1	Job Reference (optional)	164148485

2-4-15

2-4-15

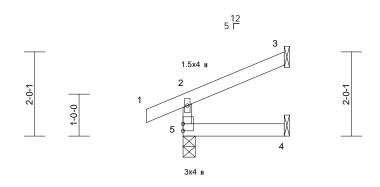
-0-10-8

0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:33 ID:2zUS610PiRhpoVypFidojTzkXVU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





2-4-15

Sca	le =	1:27	.4
Sca	ie =	1:27	.4

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.15 0.08 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 9 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	P CHORD       2x4 SP No.2       bearing plate capable of withstanding 31 lb uplift at joint         T CHORD       2x4 SP No.2       bearing plate capable of withstanding 31 lb uplift at joint         EBS       2x3 SPF No.2       7)         ACING       For constraints       7)         P CHORD       Structural wood sheathing directly applied or 2-4-15 oc purlins, except end verticals.       7)         T CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       ACTIONS         (size)       3= Mechanical, 4= Mechanical, 5=0-3-8       5=0-3-8											
	bracing. EACTIONS (size) 3= Mechanical, 4= Mechanical,											
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 2-5=-162/135, 1-2=0 4-5=0/0											
NOTES 1) Wind: ASC Vasd=91m Ke=1.00; C exterior zo and right e exposed;C	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 exposed ; end vertical -C for members and f shown; Lumber DOL=	DL=6.0psf; h=35ft; ed; MWFRS (envelop 2E) zone; cantilever left and right forces & MWFRS for	left							Å	STE OF I	MISSOL

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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

 Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.

5) Refer to girder(s) for truss to truss connections.

## SCOTT M. SEVIER NUMBER PE-2001018807

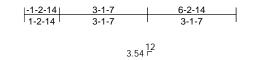
March 12,2024



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional)	l64148486

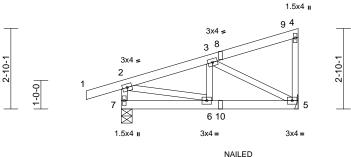
Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:32 ID:LawX8EJT2pjPgBnQfl3QiXzkXV6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

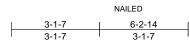
Page: 1











Scale = 1:40.7

Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0           BCLL         0.0*           BCDL         10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.22 0.13 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 29 lb	<b>GRIP</b> 197/144 FT = 20%
BOT CHORD 6-0-0 oc purlins, exc Rigid ceiling directly bracing.	applied or 10-0-0 oc nical, 7=0-4-9 C 9) 12), 7=-118 (LC 8) C 1), 7=376 (LC 1) pression/Maximum V27, 2-3=-318/195, /111 297/275	8) 9)	bearing plate 7 and 66 b u This truss is International R802.10.2 at "NAILED" int per NDS gui In the LOAD of the truss a <b>DAD CASE(S)</b> Dead + Roo Plate Increa Uniform Lo: Vert: 1-2 Concentrati	CASE(S) section of the context of th	nstanding 1 cordance w de sections tandard AN 3-10d (0.14 on, loads a <sub>l</sub> nt (F) or ba d): Lumber 5-7=-20	18 lb uplift a th the 2018 R502.11.1 a (SI/TPI 1. 8" x 3") toe- oplied to the ck (B).	t joint and nails face					

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 6-1-10 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
- This truss has been designed for a 10.0 psf bottom 2) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.



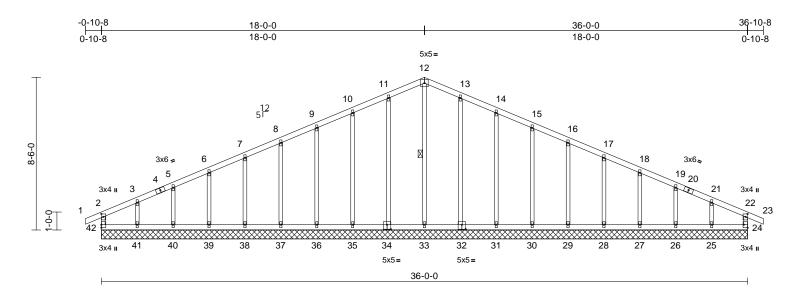
March 12,2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C09	Common Supported Gable	1	1	Job Reference (optional)	164148487

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:32 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:64.2

Plate Offsets (2	X, Y): [2:0-2-0,0-1-	4], [22:0-2-0,0-1-4], [24	4:Edge,0-2	2-8], [32:0-2-8	,0-3-0], [34:0-2-8,0-	3-0]							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL * Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	18/TPI2014	<b>CSI</b> TC BC WB Matrix-R	0.12 0.07 0.20	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 24	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 176 lb	<b>GRIP</b> 197/144 FT = 20%
	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood s 6-0-0 oc purlins, Rigid ceiling direc bracing. 1 Row at midpt (size) 24=36- 30=36- 33=36- 42=36- Max Horiz 42=-12 Max Uplift 24=-38 26=-42 28=-54 30=-53 32=-48 35=-60 37=-55 26=183 28=186 41=-11 Max Grav 24=155 26=183 28=186 30=180 32=185 34=185 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36=180 36		Tr ed or B -0-0, B -0-0, -0-0, -0-0, -0-0, -0-0, W 13), 3), 3), 2), N 2), N 2), N 2), N (6), 2), 2), 5), 5),	this design Wind: ASC Vasd=91m Ke=1.00; C exterior zor Exterior(2N 23-0-0, Ext left and rigi exposed;C	(lb) - Maximum Co Tension 2-42=-143/104, 1- 3-5=-74/96, 5-6=- 7-8=-66/183, 8-9= 10-11=-112/316, 1 12-13=-128/355, 1 14-15=-96/270, 16 16-17=-66/183, 17 18-19=-37/98, 19- 22-23=0/26, 22-24 41-42=-34/89, 37- 35-36=-34/89, 37- 35-36=-34/89, 37- 35-36=-34/89, 37- 35-36=-34/89, 37- 35-36=-34/90, 29- 27-28=-34/90, 29- 27-28=-34/90, 26- 24-25=-34/90 12-33=-185/27, 11 10-35=-139/95, 19 16-29=-140/89, 17 18-27=-139/90, 15 21-25=-127/148 d roof live loads have. E 7-16; Vult=115mp ph; TCDL=6.0psf; E at. II; Exp C; Enclo ne and C-C Corner(0) 14-0-0 to 18-0-0, C erior(2N) 23-0-0 to nt exposed ; end ve- C for members and hown; Lumber DOL	2=0/26, : 53/120, 6 -81/227, 1-12=-11 3-14=-11 -16=-81, '-18=-51, 21=-56/, 38=-34/8 338=-34/8 338=-34/8 330=-34/8 330=-34/8 (-34=-15) 330=-34/8 (-34=-15) 330=-34/8 (-34=-15) 330=-34/8 (-34=-15) 330=-34/8 (-34=-15) 330=-34/8 (-34=-15) 330=-34/8 (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-34=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-35=-15) (-	2-3=-112/85, i-7=-51/142, 9-10=-96/270 28/355, 12/316, 1227, (140, 1227, (140, 12316, 1227, (140, 123, 140, 123, 140, 123, 140, 123, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 103, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140, 140,	, 61, 89, 90, 90, 90, 0/89, 112,	onl sea or 4) All 5) Ga 6) Tru bra 7) Ga 8) Th cha 9) * T on 3-0 cha 10) All	ly. For s e Standa consult c plates a able requiss to be aced aga able stude is truss h ord live lo his truss the bott 06-00 tall ord and a	tuds e) rrd Indu qualifieu re 1.5x ires co fully si inst lat s space and no has be om cho by 2-C any oth s are a: 565 ps	xposed to wind (n istry Gable End D d building designer 4 MT20 unless of heathed from one eral movement (i ed at 2-0-0 oc. en designed for a nconcurrent with een designed for a nconcurrent with een designed for a inconcurrent with een designed for a sumed to be SP si.	face or securely e. diagonal web). 10.0 psf bottom any other live loads. a live load of 20.0psf ere a rectangle between the bottom No.2 crushing

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C09	Common Supported Gable	1	1	Job Reference (optional)	l64148487

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 42, 38 lb uplift at joint 24, 49 lb uplift at joint 34, 60 lb uplift at joint 35, 53 lb uplift at joint 36, 55 lb uplift at joint 37, 54 lb uplift at joint 38, 58 lb uplift at joint 39, 40 lb uplift at joint 40, 117 lb uplift at joint 41, 48 lb uplift at joint 32, 60 lb uplift at joint 31, 53 lb uplift at joint 30, 55 lb uplift at joint 29, 54 lb uplift at joint 28, 57 lb uplift at joint 27, 42 lb uplift at joint 26 and 105 lb uplift at joint 25
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:32 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C08	Roof Special	5	1	Job Reference (optional)	164148488

8-6-0

Loading

TCDL

BCLL

BCDL

LUMBER

BRACING

TOP CHORD

BOT CHORD

**REACTIONS** (size)

WEBS

FORCES

TOP CHORD

BOT CHORD

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Mon.Mar.11.08:14:31 Page: 1 ID:QowS74R2pZ\_dxeTN2QyFYwzkX9?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 36-0-0 -0-10-8 3-4-12 0-10-8 3-4-12 34-10-0 36-10-8 8-8-7 12-9-7 18-0-0 23-2-9 27-3-10 33-10-4 0-11-12 0-10-8 1-2-0 5-3-11 4-0-15 5-2-9 5-2-9 4-1-1 6-6-10 5x5= 7 3x4 🚽 4x4 👟 <sub>5</sub>12 6 8 3x6 🚅 3x6. 5 9 4x4 ≠ 4x6≈ 4 10 4x8. 7x8 🚽 3 <sup>25</sup> 26 8x10= 4x6. 11 12 13 NAS 14 0-0-1 ę Ģ 23 22 21 20 19 15 4x4 =4x8 =4x4 =16 MT18HS 10x18 = 3x4 II 4x6= 3x4 II MT18HS 6x12 = 5x8= \_\_\_4 12 36-0-0 3-8 <u>3-3-8</u> 34-10-0 11-3-3 18-0-0 24-8-14 33-8-8 0-3-8 3-0-0 7-11-11 6-8-13 6-8-14 8-11-10 1-1-8 1-2-0 Scale = 1:69.8 Plate Offsets (X, Y): [11:0-4-0,Edge], [24:0-1-4,0-3-0] 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) Spacing in (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.71 Vert(LL) -0.31 18-19 >999 240 MT20 244/190 10.0 Lumber DOL 1.15 BC 0.86 Vert(CT) -0.71 18-19 >602 180 MT18HS 197/144 Rep Stress Incr WB Horz(CT) 0.47 0.0 YES 0.75 15 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 170 lb FT = 20% WEBS 3-23=-18/857, 7-21=-186/1305, 9) This truss is designed in accordance with the 2018 3-24=-4540/747, 13-16=-173/1270, TOP CHORD 2x4 SP No.2 \*Except\* 1-5,9-14:2x4 SP 12-16=-1826/238, 16-18=-118/1190, 2400F 2.0E R802.10.2 and referenced standard ANSI/TPI 1.

2x4 SP 1650F 1.5E \*Except\* 11-17,17-15:2x4 BOT CHORD SP No.2 WEBS 2x3 SPF No.2 \*Except\*

bracing, Except:

1 Row at midpt

Tension

7-8-11 oc bracing: 23-24 9-9-11 oc bracing: 22-23.

Max Horiz 24=-120 (LC 17)

24-2,24-3,15-13,18-12:2x4 SP No.2

Structural wood sheathing directly applied or 2-6-9 oc purlins, except end verticals,

3-24, 6-21, 8-21

Rigid ceiling directly applied or 10-0-0 oc

15=0-3-8, 24=0-3-8

Max Uplift 15=-275 (LC 13), 24=-275 (LC 12)

Max Grav 15=1678 (LC 1), 24=1678 (LC 1)

(Ib) - Maximum Compression/Maximum

1-2=0/27 2-3=-563/133 3-4=-4517/886

4-6=-3122/518, 6-7=-2247/446,

7-8=-2245/454, 8-10=-3147/520

12-13=-1380/214, 13-14=0/27,

2-24=-490/151, 13-15=-1559/296

23-24=-865/4441, 22-23=-530/3187

21-22=-347/2632, 19-21=-285/2634,

18-19=-414/3216, 17-18=-17/140,

11-18=-311/214, 16-17=-82/358,

15-16=-26/170

10-11=-5205/899, 11-12=-4627/723,

12-18=-493/3076, 4-22=-579/246, 4-23=-341/1120, 6-22=-99/658, 6-21=-865/275, 8-21=-867/261, 8-19=-96/697, 10-19=-602/249, 10-18=-377/1736

### NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-0-0, Exterior(2R) 18-0-0 to 23-2-9. Interior (1) 23-2-9 to 36-10-8 zone: cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 24 SP 1650F 1.5E 6) crushing capacity of 565 psi, Joint 15 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 24 considers parallel to grain value 7) 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 275 lb uplift at joint 24 and 275 lb uplift at joint 15.

International Residential Code sections R502.11.1 and LOAD CASE(S) Standard



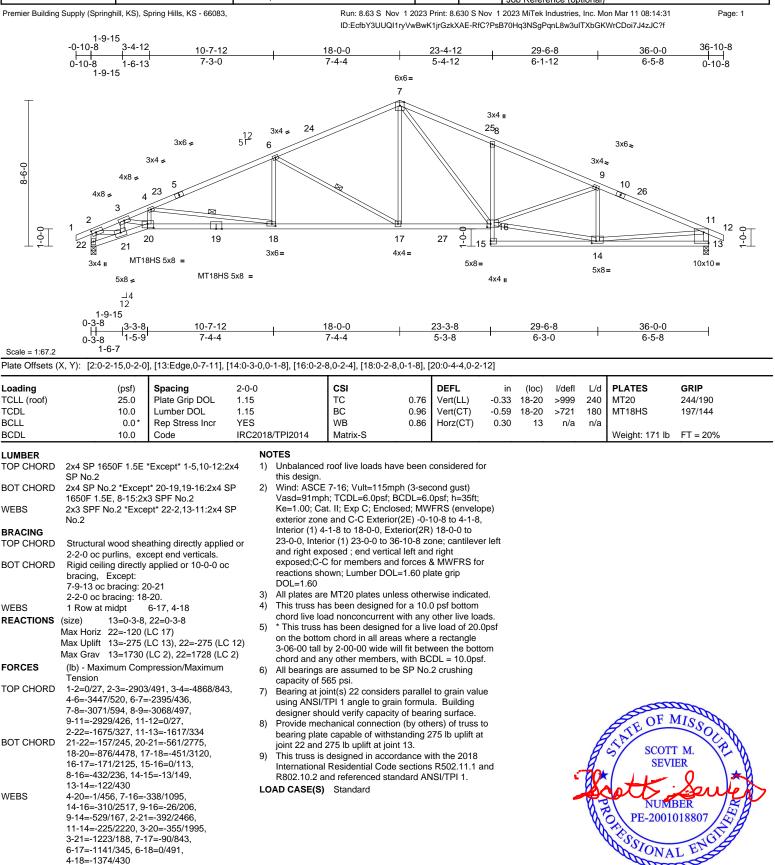
🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C07	Roof Special	2	1	Job Reference (optional)	l64148489

6-17=-1141/345, 6-18=0/491,

4-18=-1374/430



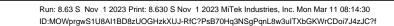
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March 12,2024

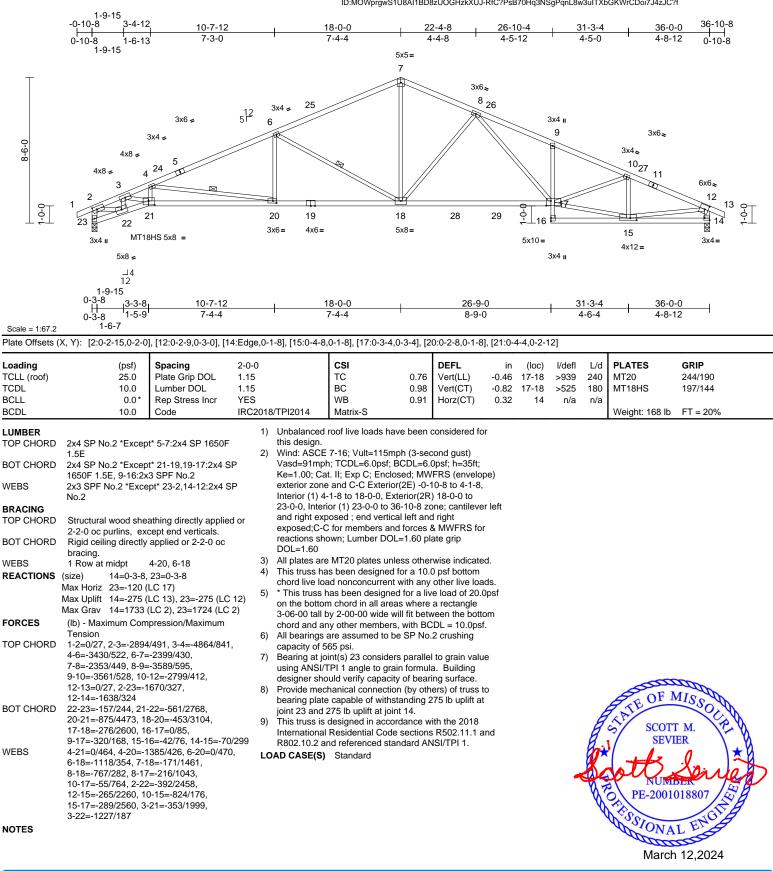
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C06	Roof Special	6	1	Job Reference (optional)	164148490



4:30 Page: 1





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C05	Roof Special	1	1	Job Reference (optional)	l64148491

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-0-10-8 36-10-8 5-5-0 10-6-4 18-0-0 22-4-8 26-10-4 31-3-4 36-0-0 0-10-8 0-10-8 5 - 5 - 05-1-4 7-5-12 4-4-8 4-5-12 4-5-0 4-8-12 5x5= 6 3x6 **≈** <sup>7</sup> 25 24 4x6 -12 51 3x4 ı 5 8 3x6 🔊 8-6-0 3x4 🚽 3x4 . 3x6 = 4 <sup>9</sup> 26 23 3 10 6x6 👟 6x6 -2 11 12 0-0-÷ 17 27 28 18 20 15 13 Ă ĕ 5x8= 21 14 5x10= 3x4= 5x10= 3x4= 7x8= 4x12= 3x4 ı 3x4 II MT18HS 3x10 = 5-5-0 10-7-8 18-0-0 26-9-0 31-3-4 36-0-0 5-5-0 5-2-8 4-8-12 7-4-8 8-9-0 4-6-4 Scale = 1:64.2 Plate Offsets (X, Y): [2:0-2-12,0-2-8], [11:0-2-9,0-3-0], [13:Edge,0-1-8], [14:0-4-8,0-1-8], [16:0-3-4,0-3-4], [19:0-7-0,0-3-12], [20:Edge,0-2-8] Loading 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) Spacing in (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.72 Vert(LL) -0.45 16-17 >946 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.88 Vert(CT) -0.80 16-17 >534 180 MT18HS 244/190 BCLL Rep Stress Incr WB Horz(CT) 0.0 YES 0.91 0.21 13 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 174 lb FT = 20% LUMBER 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) 2x4 SP 1650F 1.5E \*Except\* 1-3,10-12:2x4 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; TOP CHORD Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) SP No.2 exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, BOT CHORD 2x4 SP No.2 \*Except\* 20-5.8-15:2x3 SPF No.2, 19-18,18-16:2x4 SP 1650F 1.5E Interior (1) 4-1-8 to 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-10-8 zone; cantilever left WEBS 2x3 SPF No.2 \*Except\* 22-2,13-11:2x4 SP and right exposed ; end vertical left and right No 2 exposed;C-C for members and forces & MWFRS for BRACING reactions shown; Lumber DOL=1.60 plate grip TOP CHORD Structural wood sheathing directly applied or

All plates are MT20 plates unless otherwise indicated.

chord live load nonconcurrent with any other live loads.

3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 275 lb uplift at

This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

International Residential Code sections R502.11.1 and

\* This truss has been designed for a live load of 20.0psf

This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle

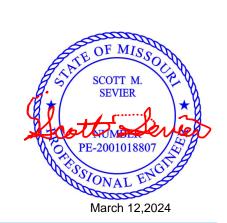
All bearings are assumed to be SP No.2 crushing

joint 22 and 275 lb uplift at joint 13.

3-0-15 oc purlins, except end verticals, Rigid ceiling directly applied or 10-0-0 oc BOT CHORD bracing, Except: 6-0-0 oc bracing: 14-15. WEBS 1 Row at midpt 5-17 REACTIONS (size) 13=0-3-8, 22=0-3-8 Max Horiz 22=121 (LC 16) Max Uplift 13=-275 (LC 13), 22=-275 (LC 12) Max Grav 13=1733 (LC 2), 22=1724 (LC 2) FORCES (Ib) - Maximum Compression/Maximum Tension 1-2=0/27, 2-4=-2843/414, 4-5=-3464/544, TOP CHORD 5-6=-2393/426, 6-7=-2348/447, 7-8=-3594/596, 8-9=-3564/529, 9-11=-2799/412, 11-12=0/27 2-22=-1622/328, 11-13=-1638/324 BOT CHORD 21-22=-214/403, 20-21=-40/167, 19-20=0/97, 5-19=-33/589, 17-19=-472/3177, 16-17=-274/2596, 15-16=0/85, 8-16=-322/169, 14-15=-39/64, 13-14=-70/299 WEBS 4-21=-746/201, 19-21=-408/2455, 4-19=-78/633, 5-17=-1192/374, 6-17=-161/1436, 7-17=-767/282, 7-16=-218/1055, 9-16=-56/767, 2-21=-236/2221, 11-14=-265/2259, 9-14=-826/177, 14-16=-292/2570

NOTES

 Unbalanced roof live loads have been considered for this design.



Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Claulity Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

DOL=1.60

capacity of 565 psi.

LOAD CASE(S) Standard

3)

4)

5)

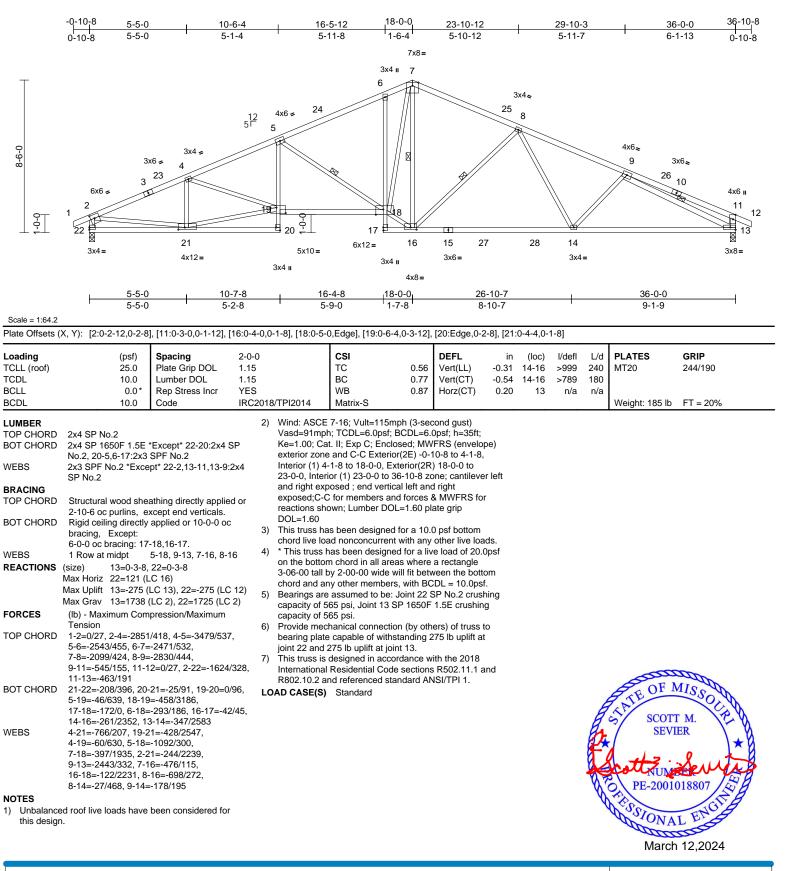
6)

7)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C04	Roof Special	4	1	Job Reference (optional)	164148492

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:29 ID:IK\_W3TeCg5LdAv8wNLIYYizkXBJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





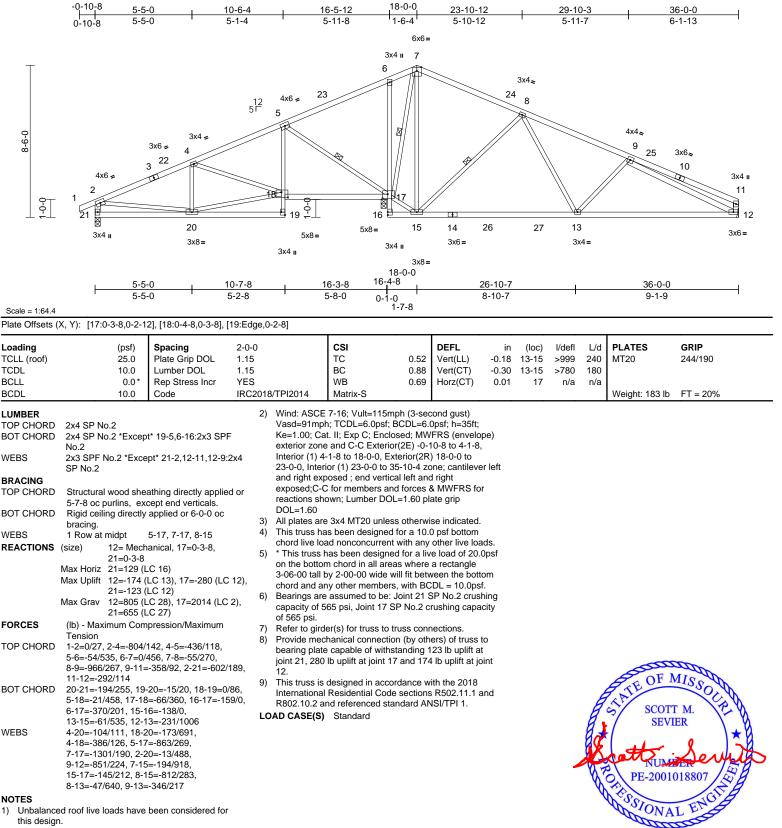
Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C03	Roof Special	8	1	Job Reference (optional)	164148493

1)

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:29 ID:wv5pEcMn41RuwMuWX0N86szkXBg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1 29-10-3 36-0-0 5-11-7 6-1-13



March 12,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C02	Roof Special	2	1	Job Reference (optional)	164148494

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:28 ID:CHDmS3BtTjmRKi7v\_C9xqvzkXEU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

5-6-11 16-0-0 4-11-1 10-10-4 15-1-8 21-11-3 26-0-15 28-10-5 36-0-0 0-10-8 0-7-10 5-3-9 4-3-4 4-1-12 2-9-7 4-11-1 5-11-3 7-1-11 4x6 🚅 3x8≈ 7 8 9-8-6 2-0-6 9-0-24 <sup>7</sup> 6 23 9 3x6 👟 12 51 5 10 9-8-6 3x6 🚅 11 7-8-0 7-8-0 4 3 25 22 75 6x6**≈** 4x6 🚅 12 2 0-0-I 13 T T T T ₿ Ø 20 18 2616 15 14 19 4x8= 3x6 =3x6 =16-3-8 || 0-1-12 5-6-11 10-10-4 16-1-12 21-11-3 28-10-5 36-0-0 5-6-11 5-7-11 6-11-3 5-3-9 5-3-8 7-1-11

Scale = 1:65.8

Plate Offsets (X, Y):	[6:0-0-12,0-3-0]
-----------------------	------------------

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	<b>CSI</b> TC BC WB Matrix-S	0.70 0.52 0.76	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.13 0.01	(loc) 13-14 13-14 13	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 185 lb	<b>GRIP</b> 244/190 FT = 20%
	4-7-7 oc purlins, ex Except: 6-0-0 oc bracing: 6-1 Rigid ceiling directly bracing. 1 Row at midpt (size) 13= Mech 19=0-3-8, Max Horiz 21=-105 ( Max Uplift 13=-144 ( 19=-160 ( Max Grav 13=737 (I	2x4 SP No.2 athing directly applied cept end verticals. 3 applied or 6-0-0 oc 9-17, 11-15 anical, 17=0-3-8, 21=0-3-8 LC 17) LC 13), 17=-329 (LC 12	or 3) 4) 5) 13), 6) 2),	Vasd=91mpf Ke=1.00; Cat exterior zone Interior (1) 4- 20-1-8, Interi- and right exp exposed;C-C reactions sho DOL=1.60 All plates are This truss ha on the loaton 3-06-00 tall b chord and an Bearings are capacity of 50	7-16; Vult=115mp a; TCDL=6.0psf; B t. II; Exp C; Enclos and C-C Exteriori 1-8 to 16-1-12, Ex or (1) 20-1-8 to 35 osed ; end vertica for members and wn; Lumber DOL- 3x4 MT20 unless s been designed f to nonconcurrent v as been designed n chord in all areas y 2-00-00 wide wi y other members, assumed to be: Jr 65 psi, Joint 19 SP int 17 SP No.2 cm	CDL=6.( sed; MW (2E) -0-1 (terior(2E) -10-4 zc) I left anc forces & =1.60 pl: otherwi or a 10.( with any I for a liv s where II fit betw with BC coint 21 S P No.2 c	Dpsf; h=35ft; FRS (envelo, 10-8 to 4-1-8, 2) 15-1-8 to nne; cantileve 1 right & MWFRS fo ate grip se indicated. 2) psf bottom other live load e load of 20.0 a rectangle ween the bott: DL = 10.0psi rushing capa	r left r Dpsf om f. ning city					
FORCES	(lb) - Maximum Com Tension	<i>.</i>	, 7) 8)	Refer to girde	er(s) for truss to tru nanical connectior			'n					
TOP CHORD	1-2=0/27, 2-4=-389/ 5-6=0/586, 6-17=-61 7-8=-27/0, 8-9=-112 11-12=-1045/217, 2- 12-13=-651/181	5/215, 6-8=-237/211, /64, 9-11=-353/134,	_,	bearing plate joint 17, 95 lb and 160 lb up This truss is o	capable of withsta o uplift at joint 21, olift at joint 19. designed in accord	anding 3 144 lb uj dance w	29 Ib uplift at olift at joint 13 ith the 2018	t 3			F	TATE OF M	AISSOL
BOT CHORD	20-21=-169/235, 19- 17-19=-332/195, 15- 14-15=-139/900, 13-	-17=0/219,	LC		Residential Code nd referenced stan Standard			ina			A	SCOTT SEVI	M. Yor Y
WEBS NOTES 1) Unbalance this design	6-9=0/508, 2-20=-97 5-19=-274/134, 5-17 4-19=-589/176, 4-20 9-15=-38/602, 11-15 ed roof live loads have	7/106, 12-14=-62/629, 7=-257/102, 9=0/228, 9-17=-1082/2 9=-750/242, 11-14=0/2								-		PE-2001	DI8807



March 12,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C01	Roof Special	1	1	Job Reference (optional)	164148495

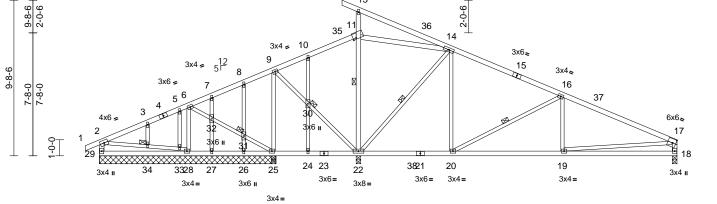
-0-10-8 3-11-1 0-10-8 3-11-1

5-6-11

1-7-10

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:28

Page: 1 ID:ZPE42GuJG2XQkNP0IKB?1ezkXCH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 16-1-12 16-0-0 16-0-0 0-10-8 10-10-4 15-1-8 21-11-3 28-10-5 26-0-15 36-0-0 +5-3-9 4-3-4 5-9-7 4-1-12 2-9-7 7-1-11 0-1-12 5x8 ≤ 12 3x8≈ 13  $\square$ 2-0-6 11 36 35 14



	5-6-11	10-10-4	16-1-12	21-11-3	28-10-5	36-0-0
Scale = 1:71.8	5-6-11	5-3-9	5-3-8	5-9-7	6-11-3	7-1-11

Plate Offsets (X, Y): [11:0-2-4,0-1-0]

		1			1		· · · · ·					-	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.69	Vert(LL) -	-0.06	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.52	Vert(CT) -	-0.13	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.76	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 198 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS	2x4 SP No.2 2x3 SPF No.2 *Exce 29-2,18-17,13-22,14 2x3 SPF No.2 Structural wood she 4-6-15 oc purlins, e Rigid ceiling directly bracing.	athing directly applied xcept end verticals.	W	EBS	28-29=-124/247, 2 26-27=-111/183, 2 24-25=-255/227, 2 20-22=0/248, 19-2 18-19=-77/277 11-22=-534/211, 1 6-28=-184/120, 9-2 9-30=-276/66, 22-3 31-32=-188/56, 25 14-20=-36/597, 16 2-34=-253/136, 33 28-33=-272/147, 1 14-22=-1079/272, 24-30=-94/87, 8-3	5-26=-1 2-24=-2: 0=-114/9 1-13=-2 25=-103, 30=-285, -31=-19: -19=0/2: -34=-25: 6-20=-7: 10-30=- 1=-91/61	11/183, 55/227, 917, 17/223, 1/154, 1/54, 2/57, 55, 17-19=-37/6 6/138, 43/244, 107/94, , 26-31=-87/59,	644,	on f 3-0 cho 9) All I cap 10) Pro bea join 10 U join 11) This Inte R80	the bottc 6-00 tall and and a bearings acity of vide me tring plat t 18, 57 plift at jo t 26 and s truss is ernationa 02.10.2 a	om cho by 2-0 iny oth a are as 565 ps chanic te capa lb uplif pint 28, 41 lb a desig al Resid and ref	rd in all areas wh 0-00 wide will fit er members, with ssumed to be SP i. al connection (by able of withstandii ft at joint 29, 297 120 lb uplift at joint 27. ned in accordance dential Code sect erenced standard	between the bottom h BCDL = 10.0psf. No.2 crushing v others) of truss to ng 131 lb uplift at lb uplift at joint 22, 73 joint 25, 1 lb uplift at ce with the 2018 tions R502.11.1 and
	26=11-0-( 29=11-0-( Max Horiz 29=-175 ( Max Uplift 18=-131 ( 25=-120 ( 27=-41 (L 27=-41 (L 27=-57 (L Max Grav 18=747 (I 25=330 (I	LC 13) LC 13), 22=-297 (LC LC 12), 26=-1 (LC 12 C 12), 28=-73 (LC 12 C 8) .C 28), 22=1763 (LC C 25), 26=70 (LC 27 C 1), 28=373 (LC 25)	(-0, NC 1) (13), 2), 2), (2), 2), (2), (2), (2), (2), (2), (2), (2), (2),	Unbalanced this design. Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zone Interior (1) 4 20-1-8, Inter	7-32=-49/24, 27-3/ 3-34=-32/18, 11-1/ 1 roof live loads hav 5 7-16; Vult=115mp h; TCDL=6.0psf; B at. II; Exp C; Enclos e and C-C Exterior I-1-8 to 16-0-0, Ext rior (1) 20-1-8 to 35 posed ; end vertica	4=0/481 e been o h (3-sec CDL=6.0 ;ed; MW (2E) -0-1 erior(2R -10-4 zc	considered for opsf; h=35ft; IFRS (envelope) (0-8 to 4-1-8, ) 15-1-8 to one; cantilever le	,	LOAD	CASE(S	) Sta	ATE OF I	MISS
FORCES	(lb) - Maximum Com	,		exposed;C-0	C for members and lown; Lumber DOL	forces a	& MWFRS for				Å	STA SCOT	A STORE
TOP CHORD	Tension 1-2=0/27, 2-3=-42/1. 5-6=-1/155, 6-7=0/2 8-9=0/318, 9-10=0/4 12-13=-27/0, 13-14= 14-16=-366/105, 16- 2-29=-221/140, 17-1	74, 7-8=0/292, 92, 10-11=0/516, 113/28, -17=-1064/190,	3) 4) 5) 6) 7)	only. For st see Standar or consult qu All plates are Truss to be braced again Gable studs This truss ha	ined for wind loads uds exposed to win d Industry Gable E ualified building des e 1.5x4 MT20 unles fully sheathed from nst lateral moveme spaced at 2-0-0 or as been designed f ad nonconcurrent	d (norm nd Deta signer as ss other one fac nt (i.e. d c. or a 10.0	al to the face), ils as applicable s per ANSI/TPI wise indicated. e or securely liagonal web). 0 psf bottom	e, 1.				SEVI NUM PE-2001	ER BER 018807

> 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

March 12,2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	B01	Roof Special Supported Gable	1	1	Job Reference (optional)	164148496

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:27 ID:bzCw6On6o49uPtGdBr3k7RzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 0-10-8 5-8-0 0-10-8 26-6-8 0-10-8 4-9-8 19-6-12 25-8-0 4-9-8 13-10-12 6-1-4 3x4 II 12 51 6 78 9 10 11 9-8-6 6-4-1 6-4-1 12 13 9-8-6 3x4 👟 14 <sup>15</sup>16 5 36 T 37<sub>17</sub> A 4 3x4 **I** 3 18 5x5 🛛 3-4-5 3-4-5 2 19 20 0-0-35 21 34 33 32 31 309 28 27 26 25 24 23 22 3x4 **I** 3x4= 3x4= 3x4= 5-10-10 25-8-0 5-10-10 19-9-6

### Scale = 1:63.2

### Plate Offsets (X, Y): [2:0-2-0,0-1-4], [19:0-2-8,0-1-12], [21:Edge,0-1-8]

	( f)	Cuesing	200		csi		DEFL	1	1	~ ~)	1/104	1/2		GRIP
Loading	(psf)	Spacing	2-0-0		TC	0.40		in n/n		oc)	l/defl	L/d 999	PLATES	197/144
TCLL (roof)	25.0	Plate Grip DOL	1.15		BC	0.40	· · ·	n/a		-	n/a	999 999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		-	0.36	Vert(CT)	n/a		-	n/a			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.21	Horz(CT)	0.02		21	n/a	n/a		
BCDL	10.0	Code	IRC2018/	I PI2014	Matrix-R								Weight: 135 lb	FI = 20%
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE	2x4 SP No.2 2x3 SPF No.2 *Exc 2x3 SPF No.2	ept* 19-21:2x4 SP No eathing directly applie cept end verticals.	).2 d or	CHORD	2-35=-150/75, 1-2 3-4=-197/93, 4-5= 5-7=-85/193, 6-7= 8-9=-106/99, 9-10 11-12=-259/86, 1: 13-14=-346/116, 16-17=-435/147, 18-19=-580/197,	197/133 26/0, 7-4 )=-163/90 2-13=-30 14-16=-34 17-18=-44 19-20=0/2	, 5-32=-136/2 8=-77/86, , 10-11=-217 3/101, 39/131, 57/158, 27, 19-21=-31	/71,	7) 8) 9)	brac Gabl This chor * Thi on th 3-06	ed agai le studs truss h d live lo s truss ne botto -00 tall	inst late s space as bee bad nor has be m cho by 2-0	eral movement (i ed at 2-0-0 oc. en designed for a nconcurrent with een designed for rd in all areas wh 0-00 wide will fit	any other live loads. a live load of 20.0psf
BOT CHORE WEBS JOINTS REACTIONS	Except: 6-0-0 cc bracing: 5- Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 5 (size) 21=25-8- 24=25-8- 24=25-8- 31=25-8- 34=25-8- 34=25-8-	7 7 7 7 7 8-32 0, 22=25-8-0, 23=25- 0, 28=25-8-0, 26=25- 0, 28=25-8-0, 29=25- 0, 32=25-8-0, 33=25- 0, 33=25-8-0	.8-0, WE .8-0, 8-0,	CHORD	34-35=-182/533, 3 32-33=-182/533, 3 29-31=-186/546, 3 27-28=-186/546, 3 25-26=-186/546, 3 23-24=-186/546 3-34=-131/172, 4 9-31=-133/138, 11 11-28=-140/88, 12 13-26=-140/89, 1 16-24=-139/96, 1	31-32=-1 28-29=-1 26-27=-1 24-25=-1 22-23=-1 -33=-130 -29=-14 2-27=-14 4-25=-14	36/546, 36/546, 36/546, 36/546, 36/546, 134, 8-32=-7 2/116, 2/116, 0/89, 0/89,	8/86,	10) 11) 12)	All b capa Prov bear 35, 1 uplift 29, 5 uplift 24, 1 This	earings ide med ing plat 54 lb u at joint 54 lb up at joint 7 lb up truss is	are as 565 ps chanica e capa plift at t 33, 27 lift at jo t 26, 52 lift at jo s desig	al connection (by able of withstandi joint 32, 215 lb u 7 lb uplift at joint ioint 28, 54 lb upli 2 lb uplift at joint ioint 23 and 262 ll ned in accordance	others) of truss to ng 52 lb uplift at joint plift at joint 34, 60 lb 31, 61 lb uplift at joint ft at joint 27, 55 lb 25, 64 lb uplift at joint 5 uplift at joint 22.
	26=-55 (l 28=-54 (l 31=-27 (l	LC 13), 23=-17 (LC LC 13), 25=-52 (LC 1 LC 13), 27=-54 (LC 1 LC 13), 27=-54 (LC 1 LC 13), 29=-61 (LC 1 LC 13), 32=-154 (LC LC 8), 34=-215 (LC 1	3), <b>NO</b> 3), 1) 3), 2) 12), 2)	Unbalanced this design. Wind: ASC Vasd=91mp Ke=1.00; C	E 7-16; Vult=115m bh; TCDL=6.0psf; I at. II; Exp C; Enclo	ph (3-sec 3CDL=6.0 sed; MW	ond gust) Dpsf; h=35ft; FRS (envelop			R802	2.10.2 a		174	MISSOU
FORCES	25=180 ( 27=180 ( 29=182 ( 32=214 ( 34=173 (	LC 8), 22=141 (LC 1) LC 26), 24=178 (LC 1) LC 26), 26=180 (LC 2) LC 26), 26=180 (LC 2) LC 26), 31=174 (LC 2) LC 26), 31=174 (LC 2) LC 1), 33=168 (LC 1) LC 25), 35=195 (LC 2) appression/Maximum	, 1), 26), 5), 26), 26), 21) 3)	Exterior(2N Exterior(2N right expose for member Lumber DC Truss desig only. For s see Standa	e and C-C Corner ) 4-0-0 to 5-9-4, Ct ) 10-0-0 to 26-6-8 ed ; end vertical lef s and forces & MV L=1.60 plate grip I gned for wind load: tuds exposed to wi rd Industry Gable I ualified building de	brner(3E) zone; car it and righ /FRS for DOL=1.60 s in the pl nd (norm End Deta	4-9-8 to 10-( ntilever left an at exposed;C- reactions sho ) ane of the tru al to the face ils as applical	nd -C own; uss ), ble,			4		SCOT SEVI SEVI PE-2001 PE-2001	ER 018807

5) Gable requires continuous bottom chord bearing.

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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	B01	Roof Special Supported Gable	1	1	Job Reference (optional)	l64148496
Premier Building Supply (Springh	ill, KS), Spring Hills, KS - 66083,	Run: 8.63 S Nov 1 2	2023 Print: 8.	630 S Nov 1	2023 MiTek Industries, Inc. Mon Mar 11 08:14:27	Page: 2

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:27 ID:bzCw6On6o49uPtGdBr3k7RzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	A04	Hip Girder	1	2	Job Reference (optional)	164148497

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:27 ID:nfQL9Uxqcgc1pixCJTAKa3zkX73-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

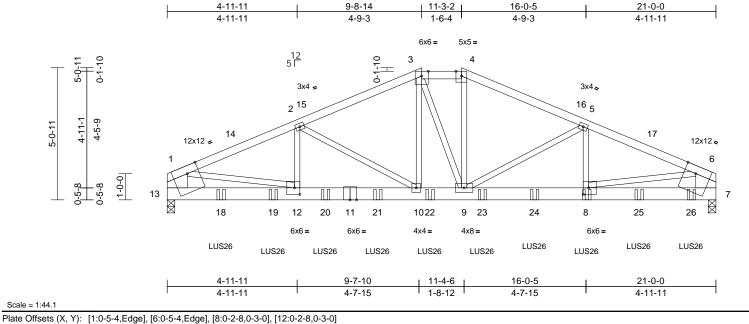


Plate Offsets (J	X, Y): [1:0-5-4,Edge]	, [6:0-5-4,Edge], [8:0-	2-8,0-3-0	], [12:0-2-8,0-3	-0]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.46 0.97 0.88	DEFL Vert(LL) Vert(CT) Horz(CT)		10-12 10-12	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 209	<b>GRIP</b> 197/144 lb FT = 20%
	No.2 Structural wood she 4-5-12 oc purlins, e 2-0-0 oc purlins (5 Rigid ceiling directly bracing. (size) 7=0-3-8, Max Horiz 13=44 (L Max Uplift 7=-1109	/ applied or 10-0-0 oc (req. 0-3-14), 13=0-3-	= 3 d or 4 and 4 -8 12)	except if not CASE(S) see provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5 11-3-2, Exte to 20-7-6 zor vertical left a	considered equal ed as front (F) or b totion. Ply to ply co distribute only load wise indicated. roof live loads hav 7-16; Vult=115mp n; TCDL=6.0psf; B t. II; Exp C; Enclos e and C-C Exterior 4-10 to 9-8-14, E> rior(2R) 11-3-2 to ne; cantilever left a nd right exposed; /FRS for reactions	vack (B) nnection ls noted coh (3-sec CDL=6. sed; MW (2E) 0-4 kterior(21 18-4-0, 1 and right C-C for r	face in the LC is have been as (F) or (B), considered for cond gust) 0psf; h=35ft; /FRS (envelop -10 to 5-4-10, E) 9-8-14 to nterior (1) 18- exposed ; env embers and	r be) 4-0	Tru oc I cor 14) Use Tru 6-0 to b 15) Fill LOAD ( 1) Do Pl U	ss, Sing max. sta nnect tru e Simpso sss) or ec- 12 from back face all nail h <b>CASE(S</b> ead + Ro ate Incre- niform L	le Ply irting a ss(es) on Stro quivale the le of bo noles w ) Sta oof Live ease=1 oads (I 3=-70,	Girder) or equiv t 2-0-12 from th to back face of ong-Tie LUS26 int spaced at 2- ft end to 20-0-1 ttom chord. where hanger is ndard e (balanced): L .15 b/ft) 3-4=-70, 4-6=-	(4-10d Girder, 4-10d -0-0 oc max. starting at 12 to connect truss(es) in contact with lumber. umber Increase=1.15,
FORCES	(lb) - Maximum Con Tension	npression/Maximum	5	DOL=1.60 pl Provide adeo	late grip DOL=1.60 quate drainage to	) prevent	water ponding	ı.		(B), 21=	=-759 (		), 19=-697 (B), 20=-759 ), 23=-759 (B), 24=-759 ))
TOP CHORD	1-2=-6931/1623, 2- 3-4=-5303/1334, 4- 5-6=-7010/1663, 1- 6-7=-3706/902 12-13=-330/1272, 1	5=-5824/1416, 13=-3679/886,	6 7	chord live loa * This truss h on the bottor	as been designed f ad nonconcurrent nas been designed n chord in all area by 2-00-00 wide wi	with any d for a liv s where	other live load ve load of 20.0 a rectangle	ipsf	OR OTHE SUPPOR BLOCKS	ER MEAN T WIDTH , ETC.) A	IS TO A I (SUCH RE THE	ALLOW FOR THE AS COLUMN C RESPONSIBIL	, SPECIAL ANCHORAGE, E MINIMUM REQUIRED CAPS, BEARING ITY OF THE DING DESIGNER.
	9-10=-1190/5253, 8 7-8=-345/1375	-9=-1492/6403,	8	chord and ar WARNING:	ny other members. Required bearing s				18035 1	IANUFAC		5000	000
WEBS	2-12=-184/916, 2-10 3-10=-420/1841, 3-1 4-9=-457/1962, 5-90 5-8=-214/954, 1-120 6-8=-1169/5099	9=-96/281, =-1269/378,		capacity of 4 0) Provide mec	are assumed to be	n (by oth	ers) of truss to					S sco	MISSOUR VIT M. VIER
(0.131"x3" Top chords oc, 2x10 - Bottom cho staggered	to be connected toge ) nails as follows: s connected as follow 2 rows staggered at ( ords connected as fol at 0-9-0 oc. ected as follows: 2x3	s: 2x4 - 1 row at 0-9-0 )-9-0 oc. lows: 2x6 - 2 rows	)	joint 13 and 1) This truss is International R802.10.2 a 2) Graphical pu	1109 lb uplift at joi designed in accor Residential Code nd referenced star Irlin representation ation of the purlin a	nt 7. dance w sections ndard AN n does no	rith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the s	nd			A A A A A A A A A A A A A A A A A A A	PE-200	AL ENGLAS

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

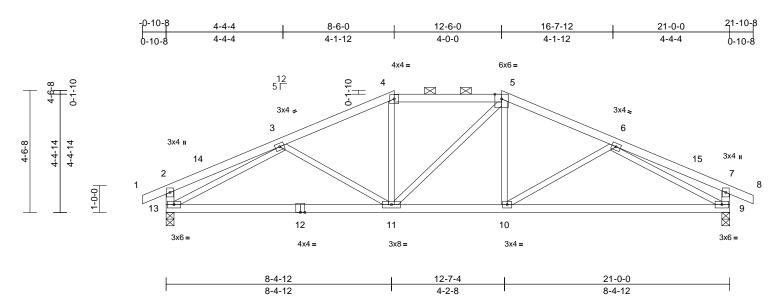


tour March 12,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	A03	Hip	1	1	Job Reference (optional)	164148498

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:26 ID:fJZk7uYBGFlbdyJzaMEHrRzkXGb-RfC?PsB70Hq3NSgPqnL&w3uITXbGKWrCDoi7J4zJC?f

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Ocale = 1.42.3													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.27 0.66 0.69	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.28 0.04	(loc) 9-10 9-10 9	l/defl >999 >886 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 95 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	4-9-10 oc purlins, e 2-0-0 oc purlins (5-2 Rigid ceiling directly bracing. (size) 9=0-3-8, Max Horiz 13=-45 (L Max Uplift 9=-153 (L Max Grav 9=1003 (I (lb) - Maximum Corr Tension	athing directly appli xcept end verticals, 2-8 max.): 4-5. applied or 10-0-0 o 13=0-3-8 .C 13) .C 13), 13=-153 (LC .C 1), 13=1003 (LC pression/Maximum 73, 3-4=-1287/300, e-1287/300, 6-7=-30 3/148, 7-9=-318/148 0-11=-144/1136, 1=0/233, 5-11=-123/ 130/168,	ed or 6) c 7) 12) 1) 9) 94/73, L0	chord live lo * This truss on the botto 3-06-00 tall chord and a All bearings capacity of § Provide med bearing plate joint 13 and This truss is International R802.10.2 a Graphical pu	chanical connect e capable of with 153 lb uplift at jo designed in acc I Residential Coo Ind referenced s urlin representati ation of the purli d.	nt with any ned for a liv eas where will fit betw rs. be SP No. tion (by oth hstanding 1 bint 9. cordance w de sections tandard AN ion does no	other live loa e load of 20. a rectangle veen the bott 2 crushing ers) of truss 1 53 lb uplift at ith the 2018 R502.11.1 at SI/TPI 1.	Opsf tom t t and					
this design 2) Wind: ASC Vasd=91n Ke=1.00;	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2	i (3-second gust) :DL=6.0psf; h=35ft; :d; MWFRS (enveloj										STATE OF J	

Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-2-5, Interior (1) 4-2-5 to 8-6-0, Exterior(2E) 8-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 19-6-14, Interior (1) 19-6-14 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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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 property incorporate this design into the overall
 building designer. 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/TPI Quality Criteria, and DES-22 available from Truss Plate Institute (www.tpinst.org)
 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



March 12,2024

E

NUMBER

PE-2001018807

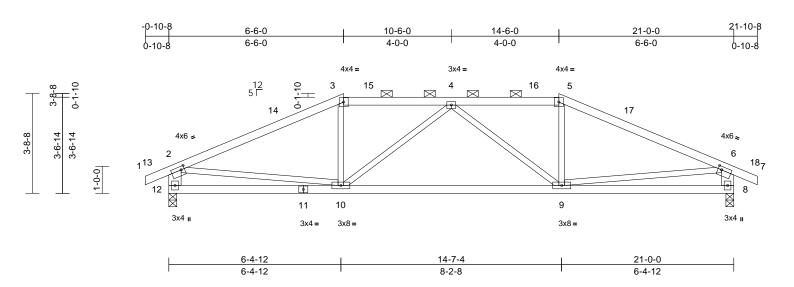
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	A02	Нір	1	1	Job Reference (optional)	164148499

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 11 08:14:26 ID:xNyy1URwdAV?QQY2\_F2xRKzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.8

### Plate Offsets (X, Y): [2:0-1-8,0-1-8], [6:0-1-8,0-1-8]

	(X, Y): [2:0-1-8,0-1-8],	[0.0-1-0,0-1-0]										-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.66 0.61 0.30	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.23 0.03	(loc) 9-10 9-10 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 92 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 *Exce No.2 Structural wood shea 4-1-14 oc purlins, e: 2-0-0 oc purlins (5-1 Rigid ceiling directly bracing.	athing directly applie xcept end verticals, -11 max.): 3-5. applied or 10-0-0 or 12=0-3-8 C 17) C 9), 12=-161 (LC 8 .C 1), 12=1002 (LC	ed or and 6) <sub>C</sub> 7) 8)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar All bearings capacity of 5 Provide mec bearing plate joint 12 and This truss is International R802.10.2 au Graphical pu	quate drainage to is been designed ad nonconcurrent has been designed in chord in all area by 2-00-00 wide w by other members, are assumed to be 65 psi. hanical connection e capable of withst 161 lb uplift at join designed in accor Residential Code and referenced star rlin representation ation of the purlin a	for a 10.1 with any d for a liv is where ill fit betv e SP No. n (by oth tanding 1 t 8. dance w sections ndard AN n does no	D psf bottom other live loa e load of 20. a rectangle veen the bott 2 crushing ers) of truss 61 lb uplift a ith the 2018 c R502.11.1 a JSI/TPI 1. ot depict the	ads. Opsf tom to to t					
TOP CHORD BOT CHORD	4-5=-1238/317, 5-6= 2-12=-948/289, 6-8= 10-12=-195/388, 9-1	-1437/301, 6-7=0/3 -948/289		bottom chord DAD CASE(S)									
this design 2) Wind: ASC Vasd=91n Ke=1.00; ( exterior zc Interior (1) Interior (1) 21-6-14, In	8-9=-151/388 3-10=0/277, 5-9=0/2 6-9=-55/867, 4-10=-: ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 ) 4-1-8 to 6-6-0, Exterior ) 13-6-14 to 14-6-0, Ex nterior (1) 21-6-14 to 2 ht exposed : end vertii	350/120, 4-9=-350/1 been considered fo (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-10-8 to 4-1-8, or(2R) 6-6-0 to 13-6- terior(2R) 14-6-0 to 1-10-8 zone; cantile	r oe) 14,								R.	STATE OF SEV SEV NUM PE-2001	ER Berener

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

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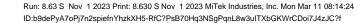


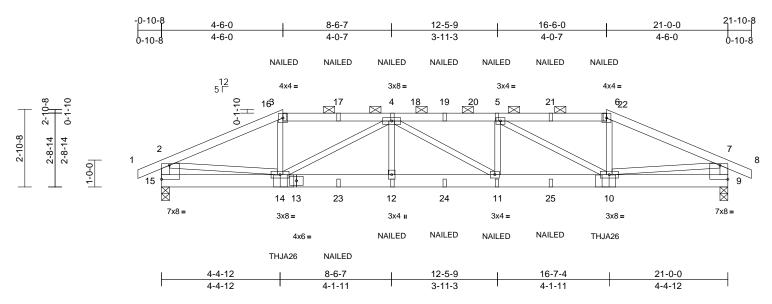
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March 12,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	A01	Hip Girder	1	2	Job Reference (optional)	164148500

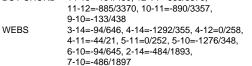




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### Plate Offsets (X, Y): [9:Edge,0-6-4], [15:Edge,0-6-4]

		1			r	_							
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.23	Vert(LL)	-0.07	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.37	Vert(CT)	-0.13	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.33	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 196 lb	FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 15-2,9-7:2x4 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 9=0-3-8, 15=0-3-8 Max Horiz 15=-22 (LC 10) Max Uplift 9=-404 (LC 9), 15=-404 (LC 8)			ed or <sup>3)</sup> and 4) bc 8)	<ol> <li>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.</li> <li>Unbalanced roof live loads have been considered for this design.</li> </ol>			or pe) -14,	<ul> <li>13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 16-5-10 from the left end to connect truss(es) to front face of bottom chord.</li> <li>14) Fill all nail holes where hanger is in contact with lumber.</li> <li>15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.</li> <li>LOAD CASE(S) Standard</li> <li>1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 9-15=-20 Concentrated Loads (lb) Vert: 3=-68 (F), 6=-68 (F), 14=-263 (F), 4=-68 (F),</li> </ul>					
FORCES		LC 1), 15=1577 (LC 1) npression/Maximum		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=-30 (F), 11=-30 (F), 5=-68 (F), 10=-263 (F), 17=-68 (F), 19=-68 (F), 21=-68 (F), 23=-30 (F), 24=-30 (F), 25=-30 (F)				
TOP CHORD	1-2=0/27, 2-3=-2557		34, 5)		quate drainage to		water ponding	g.		24=-30	(г), 25	=-30 (F)	
	4-5=-3357/976, 5-6=		6)		is been designed								
	6-7=-2560/717, 7-8=	=0/27, 2-15=-1480/4			ad nonconcurren								
BOT CHORD	7-9=-1481/482 14-15=-161/439, 12-	-14=-885/3370,	7)		nas been designe m chord in all are			Opsf					



### NOTES

- 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: 2x6 - 2 rows
  - staggered at 0-9-0 oc.
  - Web connected as follows: 2x3 1 row at 0-9-0 oc.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
   Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at

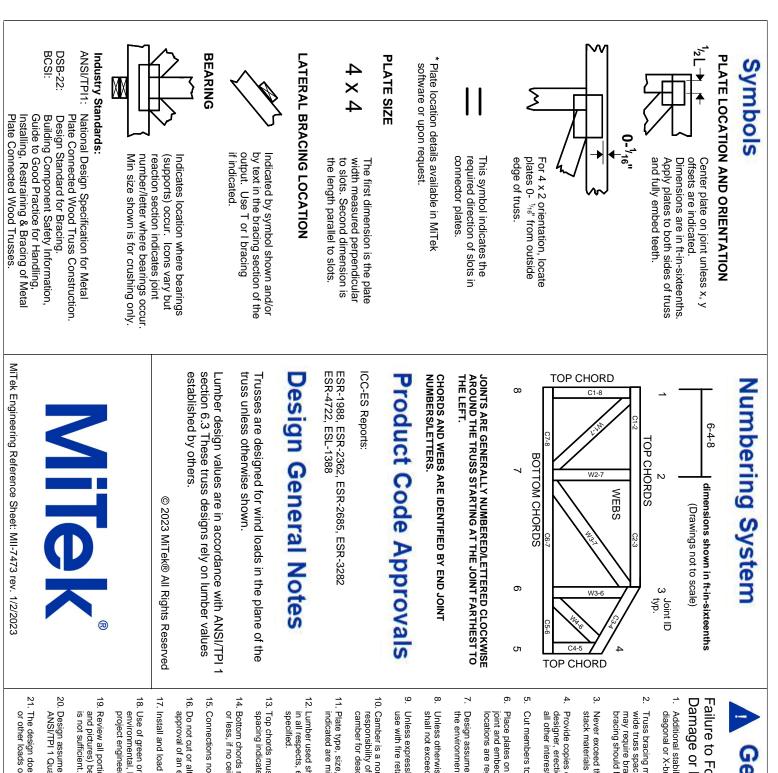
chord and any other members.

3-06-00 tall by 2-00-00 wide will fit between the bottom

- joint 15 and 404 lb uplift at joint 9. 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 4-6-6 from the left end to connect truss(es) to front face of bottom chord.
- SCOTT M. SEVIER NUMBER PE-2001018807 FE-55/ONAL ENGINE March 12,2024

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Antite Karakar 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 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.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.