

MiTek, Inc. RE: P240285-01 - Roof - HR Lot 160 16023 Swingley Ridge Rd. Site Information: Project Customer: Clayton Properties Project Name: Basswood - Transitional 3Carte. 4.434.1200 Lot/Block: 160 Subdivision: Hawthorne Ridge Model: Address: 1604 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 Roof Load: 45.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 35

Exposure Category: C

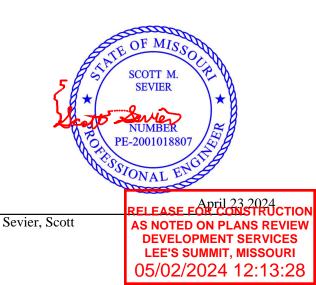
No.	Seal#	Truss Name	Date
123456789101234567891112345678	I65076792           I65076793           I65076793           I65076795           I65076796           I65076797           I65076798           I65076800           I65076801           I65076802           I65076803           I65076804           I65076805           I65076804           I65076805           I65076804           I65076805           I65076806           I65076807           I65076808           I65076806           I65076807           I65076808           I65076808	Truss Name B1 B2 B3 C1 C2 C3 C4 D1 D2 D3 E1 E4 E5 E6 E7 G1 G2 R1	Date 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24 4/23/24
18 19 20	165076809 165076810 165076811	R1 V1 V2	4/23/24 4/23/24 4/23/24
21 22 23 24 25	l65076812 l65076813 l65076814 l65076815 l65076816	V3 V4 V7 V8 V9	4/23/24 4/23/24 4/23/24 4/23/24 4/23/24
26	165076817	V10	4/23/24

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.

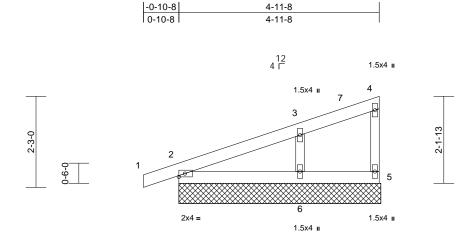
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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.



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	B1	Monopitch Supported Gable	1	1	Job Reference (optional)	165076792

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:20 ID:rc4sjKzIJtfsErm8VGMRJ\_zwwqN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:28.5

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 IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.12 0.07 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a n/a	(loc) - - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	<b>GRIP</b> 197/144 FT = 20%
BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 5-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 2=5-0-0, 5 Max Horiz 2=85 (LC 8	ept end verticals. applied or 10-0-0 oc =5-0-0, 6=5-0-0	capacity of 5 7) Provide mec bearing platt 5, 49 lb uplif 8) This truss is International R802.10.2 a	hanical connect capable of with at joint 2 and 7 designed in acc Residential Co nd referenced s	tion (by oth hstanding 1 78 lb uplift a cordance w de sections	ers) of truss to 4 lb uplift at jo at joint 6. ith the 2018 \$ R502.11.1 ar	pint					

4-11-8

		(LC 12)			
	Max Grav	2=182 (LC 1), 5=47 (LC 1), 6=269			
		(LC 1)			
FORCES	(lb) - Maximum Compression/Maximur				

Tension TOP CHORD 1-2=0/6, 2-3=-141/58, 3-4=-29/8, 4-5=-37/47 BOT CHORD 2-6=0/0, 5-6=0/0 WEBS 3-6=-205/304

#### NOTES

- 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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-10-4 zone; cantilever left and right exposed; end vertical left 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.
   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.



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	B2	Monopitch	3	1	Job Reference (optional)	165076793

4-11-8

4-11-8

4-11-8

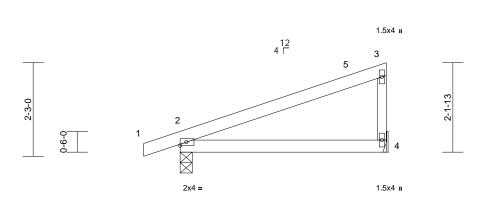
-0-10-8

0-10-8

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

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Scal	e –	1.27	7

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	0.49	Vert(LL)	-0.03	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	2-4	>958	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood she 5-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals.										
	Max Horiz         2=0-3-6, 2           Max Horiz         2=85 (LC           Max Uplift         2=-83 (LC           Max Grav         2=291 (LC	8) C 8), 4=-59 (LC 12)										
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	1-2=0/6, 2-3=-100/4	5, 3-4=-157/228										
BOT CHORD	2-4=0/0											
Vasd=91m Ke=1.00; ( exterior zc Interior (1) exposed ; and forces	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 ) 4-1-8 to 4-10-4 zone; end vertical left expos s & MWFRS for reactic plate grip DOL=1.60	DL=6.0psf; h=35ft; ed; MWFRS (envelop 2E) -0-10-8 to 4-1-8, cantilever left and rised;C-C for members	ight								THE OF J	MISS
	has been designed fo load nonconcurrent wi		ds							6	AND	120°
<ol><li>Bearings a</li></ol>	are assumed to be: Joi									R	S/ SCUI	I IM. YAY
capacity o										И.	SEV	TER / N
	irder(s) for truss to trus									Vh*		
	echanical connection ate capable of withstar									X		Thank the
	b uplift at joint 2.	nung 58 ib upilit at j	UIII						/		NUM	the services
	is designed in accorda	ance with the 2018								N	PE-2001	018807
Internation	hal Residential Code s and referenced stand	ections R502.11.1 a	nd							Ŷ	ALSS STA	ENGI

LOAD CASE(S) Standard



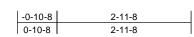
April 23,2024

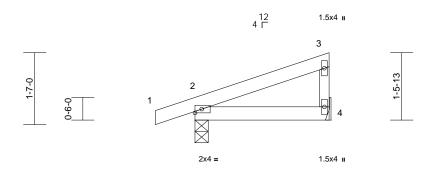
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual 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 toulsible 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)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	В3	Monopitch	7	1	Job Reference (optional)	165076794

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:k?UxzaFoLR0qy8sWjXGlcLzwwoj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





2-11-8

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	0.13	Vert(LL)	0.00	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

#### LUMBER

Scale = 1:25.4

or
0

## REACTIONS (size) 2=0-3-8, 4= Mechanical Max Horiz 2=56 (LC 8) Max Uplift 2=-72 (LC 8), 4=-32 (LC 12) Max Grav 2=207 (LC 1), 4=108 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=0/6, 2-3=-61/28, 3-4=-81/124

 BOT CHORD
 2-4=0/0

#### NOTES

- 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 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 72 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

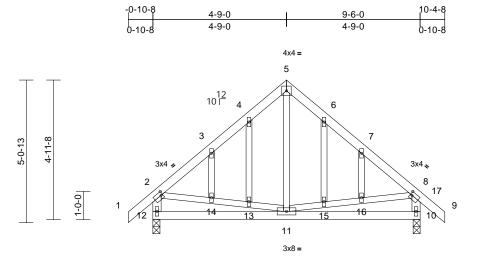
April 23,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	C1	Common	1	1	Job Reference (optional)	165076795

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:1UOMuHZ78REuJFMprXQMmpybQTN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



L	4-9-0	9-6-0
Γ	4-9-0	4-9-0

Plate Offcotc (X, X):	[2:0-0-12,0-1-8], [8:0-0-12,0-1-8]	ī
Fiale Offsets $(\Lambda, T)$ .	[2.0-0-12,0-1-0], [0.0-0-12,0-1-0]	

Scale = 1:41

	(X, Y): [2:0-0-12,0-1-8	5], [0.0-0-12,0-1-0]											
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		8/TPI2014	CSI TC BC WB Matrix-S	0.29 0.19 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	-0.02 0.00	(loc) 11-12 11-12 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 56 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x3 SPF No.2 *Exce No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 10=0-3-0, Max Horiz 12=163 (I Max Uplift 10=-75 (L Max Grav 10=486 (I (Ib) - Maximum Corr Tension 1-2=0/46, 2-3=-395/ 4-5=-257/178, 5-6=-	r applied or 10-0-0 oc , 12=0-3-0 LC 11) .C 13), 12=-75 (LC 12 LC 1), 12=486 (LC 1) .pression/Maximum	4) 5) d or 6) 7) : 8) 9) 2) 10	only. For stu see Standard or consult qu All plates are Truss to be f braced again Gable studs This truss ha chord live loa All bearings a capacity of 5 Provide mec bearing plate 12 and 75 lb )) This truss is International	hanical connection capable of withsta uplift at joint 10. designed in accord Residential Code nd referenced stan	d (norm nd Deta signer a: ss other one fac nt (i.e. c or a 10. with any s SP No. a (by oth anding 7 dance w sections	al to the face ils as applica is per ANSI/TI wise indicate e or securely iagonal web) 0 psf bottom other live loa 2 crushing ers) of truss i 5 b uplift at j ith the 2018 i R502.11.1 a	), ble, PI 1. d. , ids. do.					
this design 2) Wind: ASC Vasd=91n Ke=1.00; ( exterior (1) Interior (1) exposed ; members	8-10=-441/233 11-12=-164/260, 10 5-11=-38/167, 2-14= 11-13=-66/194, 11-1 15-16=-68/189, 8-16 3-14=-23/23, 6-15=- ed roof live loads have	-11=-95/158 -60/183, 13-14=-61/ 15=-74/198, -67/187, 4-13=-20/ 22/35, 7-16=-23/22 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop 2E) -0-10-8 to 4-1-8, or(2R) 4-9-0 to 9-9-0, cantilever left and rig ght exposed;C-C for for reactions shown;	34, e) ght							-		SCOT SEV NUM PE-2001	

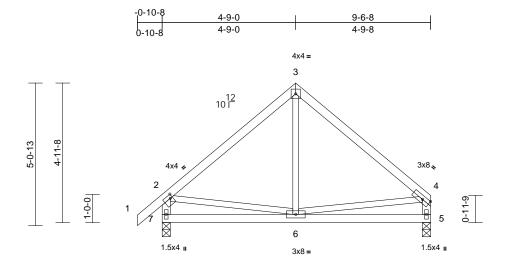
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	C2	Common	1	1	Job Reference (optional)	165076796

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:ksyHs3G4o3DHRZXBRV\_kolybQTI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:41

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

	(X, T). [2.0-1-0,0-1-0]		-		-							
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	TC	0.33	Vert(LL)	-0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-S							Weight: 47 lb	FT = 20%
LUMBER			6) This tru	ss is designed in acco	ordance wi	ith the 2018						
TOP CHORD	2x4 SP No.2		Interna	ional Residential Code	e sections	R502.11.1 a	and					
BOT CHORD	2x4 SP No.2		R802.1	0.2 and referenced sta	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2 *Exce	pt* 7-2,5-4:2x4 SP	No.2 LOAD CAS	E(S) Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ied or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS	(size) 5=0-3-8, 7											
	Max Horiz 7=154 (LC											
	Max Uplift 5=-49 (LC		)									
	Max Grav 5=412 (LC	,, ( )										
FORCES	(lb) - Maximum Com	pression/Maximum	l									
TODOUODD	Tension											
TOP CHORD	1-2=0/46, 2-3=-409/	, ,										
BOT CHORD	2-7=-450/221, 4-5=- 6-7=-232/259, 5-6=-											
WEBS	3-6=0/180. 2-6=-74/2											
NOTES	5-0-0/100, 2-0-14/	204, 4-0=-33/101										
	ed roof live loads have	haan appaidared fo										
this design		been considered to	ונ									
	 CE 7-16; Vult=115mph	(3-second qust)										(The
	nph; TCDL=6.0psf; BC										TATE OF J	and
	Cat. II; Exp C; Enclose		pe)								F. OF	WISS W
exterior zo	one and C-C Exterior(2	E) -0-10-8 to 4-1-8,								4	2 A	NS
	) 4-1-8 to 4-9-0, Exterio									H	SCOT	TM YEN
	zone; cantilever left and right exposed ; end vertical left											
	exposed;C-C for memb									11		····
	or reactions shown; Lu	mber DOL=1.60 pla	ate							Kô	`	0
grip DOL=		40.0 ( 1)								W.	TT :	Xan All
<ol><li>I his truss</li></ol>	has been designed for	r a 10.0 pst bottom								MIX.		

3) chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 4)

capacity of 565 psi. 5) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 75 lb uplift at joint 7 and 49 lb uplift at joint 5.

April 23,2024

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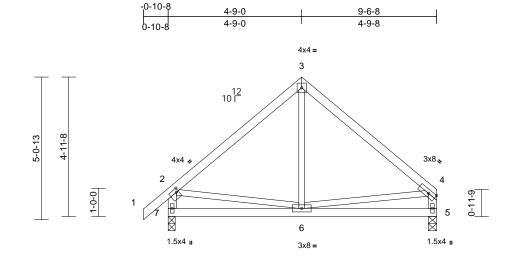
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TION DEVELORMENTO SERVICES LEE'S'SUMMIT'S MISSOURI 05/02/2024 12:13:28

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	C3	Common	1	1	Job Reference (optional)	165076797

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:00tNZ0f9FuFIHTzLJDZF5VybQTF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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Scale = 1:41 Plate Offsets (X, Y): [2:0-1-0.0-1-8]

Plate Offsets (	(X, Y): [2:0-1-0,0-1-8]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.33 0.19 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code	IRC2018/TPI20		0.06		0.00	5	n/a	n/a	Weight: 47 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS		• •nt* 7-2 5-4·2v4 SP	Íntern R802	russ is designed in acco ational Residential Code .10.2 and referenced sta .SE(S) Standard	e sections	s R502.11.1 a	and					
BRACING	200 011 100.2 2000	pt 7 2,0 4.2x4 01										
TOP CHORD	Structural wood she		ed or									
BOT CHORD	6-0-0 oc purlins, ex Rigid ceiling directly bracing.		C									
REACTIONS	(size) 5=0-3-8, 7 Max Horiz 7=154 (LC Max Uplift 5=-49 (LC Max Grav 5=412 (LC	C 9) C 13), 7=-75 (LC 12)	,									
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-2=0/46, 2-3=-409/	155, 3-4=-403/161,										
	2-7=-450/221, 4-5=-											
BOT CHORD WEBS	6-7=-232/259, 5-6=- 3-6=0/180, 2-6=-74/2											
NOTES	3-0=0/100, 2-0=-74/	204, 4-0=-55/101										
	ed roof live loads have n.	been considered for	or									
Vasd=91n Ke=1.00; exterior zc Interior (1) zone; can	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 ) 4-1-8 to 4-9-0, Exterior tilever left and right exp exposed;C-C for memb	DL=6.0psf; h=35ft; d; MWFRS (envelo) E) -0-10-8 to 4-1-8, or(2E) 4-9-0 to 9-4-1 posed ; end vertical	12								STATE OF SCOT	MISSOLA T M. IER
MWFRS f		Imber DOL=1.60 pla	ate							X	atte	Shawk

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

4) 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 75 lb uplift at joint 7 and 49 lb uplift at joint 5.



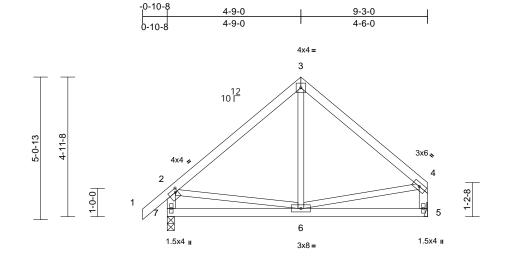
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSITPTI 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)

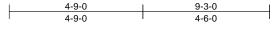


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	C4	Common	1	1	Job Reference (optional)	165076798

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:VxU9gQnQvzVKU0kGuJkbVcybQT5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:41

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

Loading	(psf)	Spacing	2-0-0	CSI	0.00	DEFL	in	(loc)	l/defl	L/d	PLATES MT20	GRIP
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.29 0.18	Vert(LL) Vert(CT)	-0.01 -0.02	6-7 6-7	>999 >999	240 180	MI 20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	5	>999 n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2		0.05	11012(01)	0.00	5	11/a	n/a	Weight: 47 lb	FT = 20%
-									-			
LUMBER				ide mechanical connecti								
TOP CHORE				ing plate capable of with d 47 lb uplift at joint 5.	istanuing /	S in uplin at	joint					
BOT CHORE				truss is designed in acc	ordance w	ith the 2018						
WEBS	2x3 SPF No.2 *Exce	ept" 7-2,5-4:2x4 SP		national Residential Coc			and					
BRACING			Door	2.10.2 and referenced st								
TOP CHORE				ASE(S) Standard								
BOT CHORE	6-0-0 oc purlins, ex D Rigid ceiling directly											
BOT CHORE	bracing.	applied of 10-0-0 0	C									
REACTIONS	0	anical, 7=0-3-0										
REACTIONS	Max Horiz 7=158 (L0	,										
	Max Uplift 5=-47 (LC											
	Max Grav 5=399 (LC	<i>'' '</i>										
FORCES	(lb) - Maximum Com	,, ( )										
TORCES	Tension	pression/maximum										
TOP CHORE		150. 3-4=-376/160.										
	2-7=-436/223, 4-5=-											
BOT CHORE												
WEBS	3-6=0/166, 2-6=-81/2	215, 4-6=-43/181										
NOTES												
1) Unbalan	ced roof live loads have	been considered for	r									
this desig	gn.											
2) Wind: AS	SCE 7-16; Vult=115mph	(3-second gust)										100
	1mph; TCDL=6.0psf; BC										TATE OF	MIG
	; Cat. II; Exp C; Enclose		pe)								ASE	USS ST
	zone and C-C Exterior(2									6	TAN'	N.S/
	1) 4-1-8 to 4-9-0, Exterio									R	SCOT	TM. VEN
	ntilever left and right exp		left							0	SEV	IER \'Y
	t exposed;C-C for memb		to.							26		
grip DOL	for reactions shown; Lu		ile ile							NY C	1.44	Nor I al
01	_= 1.00 ss has been designed for	r a 10.0 psf bottom								X	au.	x ferren
<i>oj</i> mistrus	s nas been designed to	i a 10.0 psi bollom							-		NUM	BER IZU

- 3) This truss has been designed for a 10.0 p chord live load nonconcurrent with any other live loads. 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.



April 23,2024

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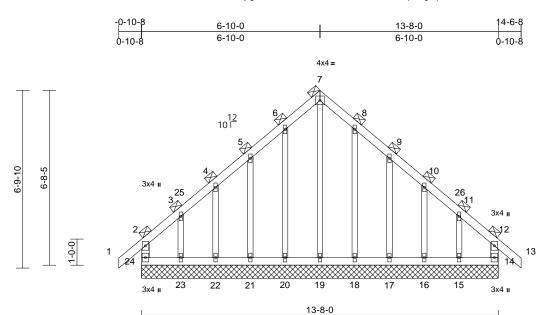
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	D1	Roof Special Supported Gable	1	1	Job Reference (optional)	165076799

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:wijvgVRNMEbdXh3iv6zXHnzww7s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	4-0-0 1.15		CSI TC	0.20	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	NO		WB	0.45	Horz(CT)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IRC2	018/TPI2014	Matrix-R							Weight: 79 lb	FT = 20%
LUMBER					WEBS	7-19=-457/197	6-20=-217	/123,		11) This	s truss is	s desig	ned in accordan	ce with the 2018
TOP CHORD	2x4 SP N	lo.2				5-21=-208/214								tions R502.11.1 and
BOT CHORD	2x4 SP N	lo.2				3-23=-240/236							ferenced standar	
WEBS	2x4 SP N	lo.2				9-17=-209/214		2/173,						es not depict the size
OTHERS	2x3 SPF	No.2				11-15=-228/22	9						of the purlin alon	g the top and/or
BRACING					NOTES						om chor			
TOP CHORD	2-0-0 oc verticals	purlins (6-0	-0 max.), except en	d	<ol> <li>Unbalanced this design.</li> </ol>	roof live loads	have been	considered fo	r	LOAD	CASE(S)	) Sta	ndard	
		d from shee	eted: Spacing > 2-8-0	))	2) Wind: ASCE	E 7-16: Vult=11	5mph (3-sec	cond aust)						
BOT CHORD			applied or 6-0-0 oc	<i>,</i> ).	Vasd=91mp	h; TCDL=6.0ps	f; BCDL=6.	0psf; h=35ft;						
	bracing.					at. II; Exp C; En			be)					
REACTIONS	(size)	14=13-8-0	), 15=13-8-0, 16=13-	·8-0,		e and C-C Exte	. ,							
			), 18=13-8-0, 19=13-	/		I-2-0 to 6-10-0, erior (1) 11-10-(			or					
			), 21=13-8-0, 22=13-	·8-0,	,	( )		,	er					
			0, 24=13-8-0			eft and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for								
		24=-423 (	,			reactions shown; Lumber DOL=1.60 plate grip								
	Max Uplift		LC 9), 15=-275 (LC C 13), 17=-162 (LC		DOL=1.60			5.15						
			C 13), 17=-162 (LC C 13), 20=-85 (LC 1)			ned for wind lo	ads in the p	lane of the tru	ISS					
			LC 12), 20=-05 (LC 12)			, uds exposed to								
			LC 12), 22=-94 (LC LC 12), 24=-215 (LC		see Standar	d Industry Gab	le End Deta	ils as applical	ole,					
	Max Grav	(	_C 19), 15=336 (LC 2	'		ualified building								
			_C 26), 17=266 (LC 2		<ol><li>All plates ar</li></ol>				J.					
			_C 20), 19=395 (LC 1		5) Gable requi									
		20=269 (L	_C 19), 21=266 (LC 1	19),	6) Truss to be									an
			_C 25), 23=361 (LC 1	19),	0	nst lateral move	``	liagonal web)					OF	MIG
		24=407 (L	_C 20)		7) Gable studs								FE	ISS W
FORCES	( )	kimum Com	pression/Maximum		8) This truss h	ad nonconcurre			de			6	THEOF	N.S.
	Tension				<ol> <li>All bearings</li> </ol>				us.			R	SCOT	TM. VEN
TOP CHORD		,	0/91, 2-3=-273/261,		capacity of s			2 crushing				a	7 SEV	IER \ V
		,	157/267, 5-6=-233/4	,	10) Provide med		tion (by oth	ers) of truss t	0			61		
			284/471, 8-9=-233/3	86,		e capable of with						<b>X</b>		
		,	1=-135/169,			Ib uplift at joint						XX	an	A Make
	12-14=-2	17/203, 12-	13=0/91,			at joint 21, 94 I					-	M.	S NUM	
BOT CHORD			-23=-200/222,		uplift at joint	23, 82 lb uplift	at joint 18,	162 lb uplift a	t			- W	PE-2001	018807
BOT CHORD		,	-21=-200/222,		joint 17, 98	lb uplift at joint <sup>.</sup>	16 and 275	lb uplift at joir	nt			Q	1 and	158
		,	-19=-200/222,		15.								O'Ssi	ENO'S
		,	-17=-200/222,										SSIONA	LEY
			-15=-200/222										Land	JUL .
													Apr	il 23,2024
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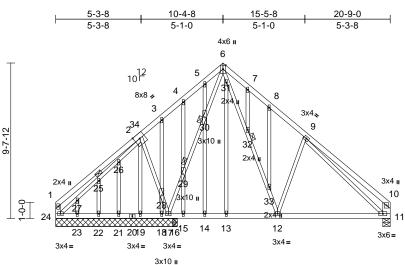
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	D2	Roof Special Structural Gable	1	1	Job Reference (optional)	165076800

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:21 ID:0Un07T0ZcCLyQZnshlmJUDzwwdO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -

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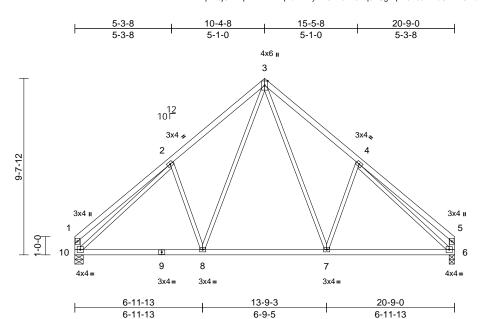
					3x10 u								
Scale = 1:71.5				<u>6-11-13</u> 6-11-13	7-4-12    0-4-15	<u>13-9-3</u> 6-4-7			) <u>-9-0</u> 11-13				
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.36 0.36 0.44	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.11 0.01	11-12	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 148 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	11-10:2x6 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex	athing directly applied	2, d or :	ÆBS	6-31=-224/510 32-33=-240/49 9-12=-295/265 6-30=-392/6,2 17-28=-211/25 25-27=-185/12 2-26=-216/155 21-26=-41/27, 3-28=-2/17,18 15-29=-151/10 13-31=-3/54,7	90, 12-33=-1 5, 17-29=-39 2-28=-160/19 8, 24-27=-1 28, 25-26=-1 0, 9-11=-370 23-27=-2/2, 3-28=-70/58, 07, 5-30=-16	89/430, 1/6, 29-30=- 04, 86/130, 86/130, 70, 22-25=-3 2-19=-174/ <sup>-</sup> 4-29=-158/ <sup>-</sup> /55, 14-30=-	8/4, 102, 103,	bea joir upl 19 10) Thi Inte R8	aring pla nt 17, 65 ift at joir and 182 is truss i ernation	te capa Ib uplit t 21, 2 Ib upli s desig al Resi and rel	able of withstandi ft at joint 24, 86 lb 2 lb uplift at joint 2 ft at joint 16. gned in accordanc dential Code sect ferenced standard	ions R502.11.1 and
JOINTS	1 Brace at Jt(s): 25, 29, 30, 32			OTES	d roof live loads	have been	considered f	for					
	(size) 11=0-5-8, 18=7-6-8, 22=7-6-8, Max Horiz 24=271 (I Max Uplift 11=-86 (L 17=-120 ( 21=-5 (LC 24=-65 (L Max Grav 11=629 (I 17=220 (I 19=197 (I	LC 13), 16=-182 (LC 1 (LC 13), 19=-83 (LC 1 2 8), 23=-22 (LC 12), C 13) LC 1), 16=472 (LC 19 LC 26), 18=83 (LC 3) LC 26), 18=83 (LC 3) LC 19), 21=60 (LC 3) C 3), 23=55 (LC 10),	; 2) 12), 12), 12),	this design. Wind: ASCI Vasd=91m; Ke=1.00; C exterior zor Interior (1) 1 15-6-2, Inte and right ex exposed;C- reactions s1 DOL=1.60 Truss desi; only. For s	E 7-16; Vult=11 oh; TCDL=6.0p; at. II; Exp C; Er e and C-C Exté 5-0-2 to 10-4-8, prior (1) 15-6-2 t cposed ; end ve C for members hown; Lumber I gned for wind lo tuds exposed to	5mph (3-sec sf; BCDL=6. hclosed; MW erior(2E) 0-1 Exterior(2R o 20-6-4 zor rtical left and and forces o DOL=1.60 pl bads in the p	cond gust) Dpsf; h=35ft; FRS (envelor -12 to 5-0-2; -12 to	; ope) , er left or eruss ;e),				CT OF N	
FORCES TOP CHORD BOT CHORD	4-5=-205/206, 5-6=-	209/157, 3-4=-145/11 173/218, 6-7=-443/2: 551/222, 9-10=-341/ 11=-324/168 -23=-120/208, -21=-120/208, -18=-118/199, 16=-20/231, 14=-20/231,	79, <sup>5)</sup> 172, 6)	or consult of All plates an Truss to be braced aga Gable stude This truss h chord live lo	rd Industry Gab yualified building re 1.5x4 MT20 fully sheathed inst lateral mov s spaced at 1-4 has been design bad nonconcurr s are assumed to 565 psi.	g designer a unless other from one fac ement (i.e. c -0 oc. ned for a 10. ent with any	s per ANSI/1 wise indicate e or securel liagonal web 0 psf bottom other live lo	TPI 1. ed. ly o).		-		STATE OF M SEVI SEVI PE-2001 PE-2001	T M. ER 018807
	18-19=-118/199, 17 16-17=-20/231, 15-1 14-15=-20/231, 13-1	-18=-118/199, 16=-20/231, 14=-20/231,	8)			o be SP No.	2 crushing			-	A Star	PE-2001	018807

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	D3	Common	7	1	Job Reference (optional)	165076801

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:pwt0jO1hEphDIMFL4rqrrezwwfy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	_	1.63
	=	1.05

BOT CHORD

WEBS

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.39 0.43 0.93	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.11 0.02	(loc) 6-7 8-10 6	l/defl >999 >999 n/a	 PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S						Weight: 108 lb	FT = 20%
LUMBER	10.0	Code	6) This truss is	Matrix-S s designed in acc al Residential Co						Weight: 108 lb	FT = 20%

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 2x3 SPF No.2 \*Except\* 10-1,6-5:2x4 SP No.2 LOAD CASE(S) Standard

BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-6-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 6=0-3-8, 10=0-5-8
	Max Horiz 10=262 (LC 11)
	Max Uplift 6=-113 (LC 13), 10=-113 (LC 12)
	Max Grav 6=921 (LC 1), 10=921 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-351/173, 2-3=-970/312, 3-4=-970/310,
	4-5=-361/166, 1-10=-328/165, 5-6=-334/161
BOT CHORD	8-10=-166/796, 7-8=-19/537, 6-7=-89/731
WEBS	3-7=-210/461, 4-7=-311/300, 3-8=-211/460,

2x4 SP No.2

NOTES

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

2-8=-310/300, 2-10=-761/79, 4-6=-761/70

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) 0-1-12 to 5-2-14, Interior (1) 5-2-14 to 10-4-8, Exterior(2R) 10-4-8 to 15-6-2, Interior (1) 15-6-2 to 20-7-4 zone; cantilever left and right exposed ; end vertical 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. All bearings are assumed to be SP No.2 crushing 4)

capacity of 565 psi. 5) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 113 lb uplift at joint 10 and 113 lb uplift at joint 6.

### OF MISSO SCOTT M. SEVIER PE-200101880 SIONAL E April 23,2024

 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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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	E1	Common Supported Gable	1	1	Job Reference (optional)	165076802

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:bSBHIwRtVwODq1AP3GRETazww5H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

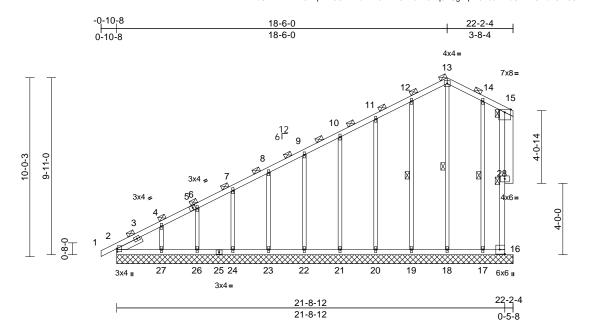
SIONAL

E

April 23,2024

DEVELORMAN SERVICES LEESSONNIT, MISSOURI 05/02/2024 12:13:29

TION IEW



#### Scale = 1:64.5

#### Plate Offsets (X, Y): [2:0-2-1,0-0-5], [5:0-1-12,0-1-8], [16:Edge,0-3-8]

					-									
<b>Loading</b> TCLL (roof) TCDL BCLL BCDL	2	osf) 5.0 0.0 0.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	4-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.87 0.51 0.40	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 138 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP 1650F 2x3 SPF No.2 Left 2x4 SP No 2-0-0 oc purlin verticals (Switched from	*Exce o.2 1 ns (5-6 n shee lirectly	pt* 28-15:2x6 SPF N I-6-7 -9 max.), except en eted: Spacing > 2-8-( applied or 9-7-14 oc 15-16, 13-18, 12-19	No.2 B( d )).	DP CHORD	1-2=0/11, 2-4=-99 6-7=-690/525, 7-8 9-10=-397/410, 10 11-12=-365/540, 1 13-14=-395/613, 1 15-16=-388/528 2-27=-305/391, 26 24-26=-305/391, 26 22-23=-305/391, 2 20-21=-305/391, 1 18-19=-305/391, 1 13-18=-377/221, 1 11-20=-279/206, 1	=-578/48 -11=-36 2-13=-3 4-15=-4 5-27=-30 23-24=-3 21-22=-3 9-20=-3 7-18=-3 2-19=-2	15, 8-9=-471/4 5/426, 96/635, 50/603, 5/391, 05/391, 05/391, 05/391, 05/391, 05/391, 98/197,	448,	cap 9) Pro- bea 16, upl joir 129 upl 10) Thi Inte R8 11) Gra	bacity of by de me aring pla 36 lb up ift at join at 21, 12 9 lb upliff ift at join is truss is ernationa 02.10.2 aphical p	565 ps chanic te capa blift at juint t 19, 12 3 lb up t at join t 27 ar s desig al Resid and ref burlin re	ssumed to be SP i. al connection (by able of withstandi oint 2, 126 lb uplif 26 lb uplift at joint 26 lb uplift at joint 14 24, 91 lb uplift at d 77 lb uplift at joind accordance dential Code sect erenced standard	No.2 crushing others) of truss to ng 91 lb uplift at joint t at joint 18, 123 lb :20, 122 lb uplift at lb uplift at joint 23, it joint 26, 261 lb int 17. e with the 2018 ions R502.11.1 and J ANSI/TPI 1. s not depict the size
REACTIONS	18= 24= 24= Max Uplift 2=- 17= 19= 21= 23= 26= Max Grav 2=4 17= 19= 21= 23= 23= 24= 23=	2-2-4, -22-2-4 -22-2-4 -22-2-4 -22-2-4 -559 (LC -559 (LC -122 ( -121 (	14-17 16=22-2-4, 17=22-24 4, 19=22-2-4, 20=22-4 4, 22=22-2-4, 23=22-24 4, 26=22-2-4, 27=22-24 59 18, $16=-91$ (LC 8), C 13), $18=-126$ (LC LC 12), $22=-126$ (LC LC 12), $22=-126$ (LC LC 12), $22=-126$ (LC LC 12), $27=-261$ (LC 202), $16=144$ (LC 22 126, $18=370$ (LC 24 126, $12=360$ (LC 24 126, $12=365$ (LC 24 127=432 (LC 24 12	2-4, 2-4, 12-4 No 11), 2) 11), 2) 12), 12), 12), 12), 12), 12), 12), 13), 25), 5), 3)	this design Wind: ASC Vasd=91m Ke=1.00; C exterior zo Exterior(2N 21-8-12 zo vertical left forces & M DOL=1.60 Truss des only. For s	9-22=-280/193, 8- 7-24=-282/202, 6- 4-27=-326/416, 14 d roof live loads hav E 7-16; Vult=115mp ph; TCDL=6.0psf; E at. II; Exp C; Enclos ne and C-C Corner( 0) 4-1-8 to 18-6-0, C ne; cantilever left ar and right exposed; WFRS for reactions plate grip DOL=1.60 igned for wind loads studs exposed to win	23=-280 26=-270 I-17=-33 // been bh (3-sec 3CDL=6. sed; MW 3E) -0-1 corner(3E nd right e C-C for r s shown; 0 s in the p nd (norm	(193, (208, 2/375 considered fo cond gust) 0psf; h=35ft; FRS (envelop 0-8 to 4-1-8, 0-8 to 4-10, 0-8, 0-8, 0-8, 0-8, 0-8, 0-8, 0-8, 0-	uss ),	bot	CASE(S	rd. ) Sta	ndard	MISSOUR
FORCES	(lb) - Maximun Tension	n Com	pression/Maximum	4) 5)	or consult All plates a Gable requ	ard Industry Gable E qualified building de rre 1.5x4 MT20 unle irres continuous bott	signer a ss other tom choi	s per ANSI/TF wise indicated	PI 1.		-	ALL AND A	NUMI PE-2001	

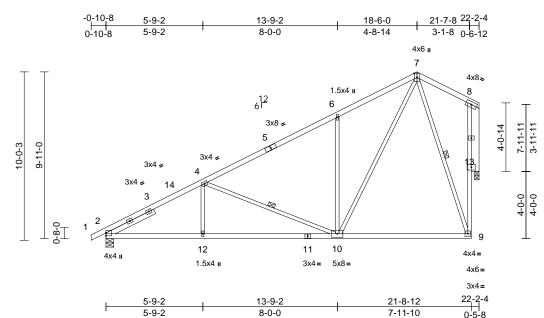
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 colleges 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)

Job	Truss	Truss Type	Qty	Ply Roof - HR Lot 160		
P240285-01	E4	Roof Special	8	1	Job Reference (optional)	165076803

Run: 8,63 S Apr 5 2024 Print: 8,630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 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	0.79	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.23	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 121 lb	FT = 20%

L	U	M	в	Ε	R

WEBS

NOTES

2)

3)

this design.

DOL=1.60

Scale - 1.68 5

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 9-8:2x3 SPF No.2
WEBS	2x3 SPF No.2 *Except* 13-8:2x6 SPF No.2
SLIDER	Left 2x4 SP No.2 3-2-3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-5-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-4-8 oc
	bracing.
WEBS	1 Row at midpt 4-10, 7-9
REACTIONS	(size) 2=0-5-8, 13=0-3-2
REACTIONS	(size) 2=0-5-8, 13=0-3-2 Max Horiz 2=384 (LC 12)
REACTIONS	()
REACTIONS	Max Horiz 2=384 (LC 12)
FORCES	Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12)
	Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1)
	Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1) (lb) - Maximum Compression/Maximum Tension
FORCES	Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1) (lb) - Maximum Compression/Maximum Tension
FORCES	Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-2=0/6, 2-4=-1623/208, 4-6=-943/120,
FORCES	Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-2=0/6, 2-4=-1623/208, 4-6=-943/120, 6-7=-924/276, 7-8=-64/49, 9-13=-212/848, 8-13=-124/66

4-10=-680/274, 7-9=-822/263

1) Unbalanced roof live loads have been considered for

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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2E) 18-6-0 to 21-7-8 zone; cantilever left and right exposed ; end vertical left

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

6-10=-521/308.7-10=-338/1066.4-12=0/277.

9-10=-82/264

4) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 13 SPF No.2 crushing capacity of 425 psi.

Bearing at joint(s) 13 considers parallel to grain value 5) using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 153 lb uplift at joint 2 and 235 lb uplift at joint 13.

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

#### OF MISS TE 0 SCOTT M. SEVIER PE-2001018807 SIONAL E April 23,2024

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 160	
P240285-01	E5	Roof Special	2	1	Job Reference (optional)	165076804

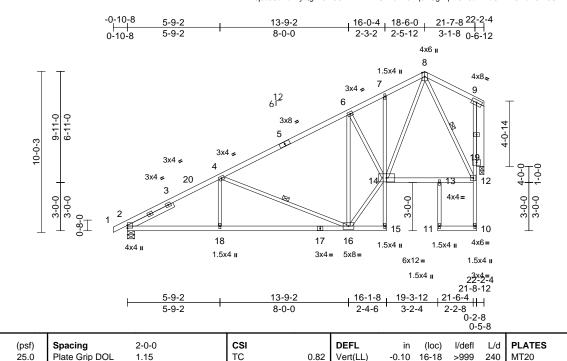
Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

GRIP

244/190

FT = 20%



0.59

0.73

Vert(CT)

Horz(CT)

-0.22

0.04

16-18

19

>999

180

n/a n/a

Weight: 134 lb

BC

WB

Matrix-S

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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2E) 18-6-0 to 21-7-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads. Bearings are assumed to be: Joint 2 SP No.2 crushing

capacity of 565 psi, Joint 19 SPF No.2 crushing capacity

Bearing at joint(s) 19 considers parallel to grain value

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at

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.

using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

joint 2 and 235 lb uplift at joint 19.

LOAD CASE(S) Standard

BCDL	

TCLL (roof)

Loading

TCDI

BCLL

Scale = 1:71.7

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 15-7,13-11,10-9:2x3
	SPF No.2
WEBS	2x3 SPF No.2 *Except* 19-9:2x6 SPF No.2
SLIDER	Left 2x4 SP No.2 3-2-3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-10-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc
	bracing.
WEBS	1 Row at midpt 4-16, 8-12
REACTIONS	(size) 2=0-5-8, 19=0-3-2
	Max Horiz 2=384 (LC 12)
	Max Uplift 2=-153 (LC 12), 19=-235 (LC 12)
	Max Grav 2=1036 (LC 1), 19=972 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/6, 2-4=-1624/204, 4-6=-940/125,
	6-7=-943/261, 7-8=-841/278, 8-9=-69/49,
	10-12=0/47, 12-19=-208/852, 9-19=-122/68
BOT CHORD	2-18=-480/1364, 16-18=-480/1364,
	15-16=-13/1, 14-15=-43/0, 7-14=-20/62,
	13-14=-115/391, 12-13=-116/391,
	11-13=0/41, 10-11=0/2
WEBS	6-16=-566/285, 8-14=-303/1001, 4-18=0/294,
	4-16=-682/265, 8-12=-875/265,
	14-16=-374/1218, 6-14=-16/34
NOTES	

10.0

0.0

10.0

Lumber DOL

Code

Rep Stress Incr

1 15

YES

IRC2018/TPI2014

DOL=1.60

of 425 psi.

2)

3)

4)

5)

6)

7)

NOTES

 Unbalanced roof live loads have been considered for this design. SUITE OF MISSOUR SCOTT M. SEVIER NUMBER PE-2001018807

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 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)

### RELEASE FOR CONTRUCTION AS NOTED ON PLANS REVIEW DEVELORMENTS SERVICES

LEE'S'SUMMIT'SMISSOURI 05/02/2024 12:13:29

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	E6	Common	7	1	Job Reference (optional)	165076805

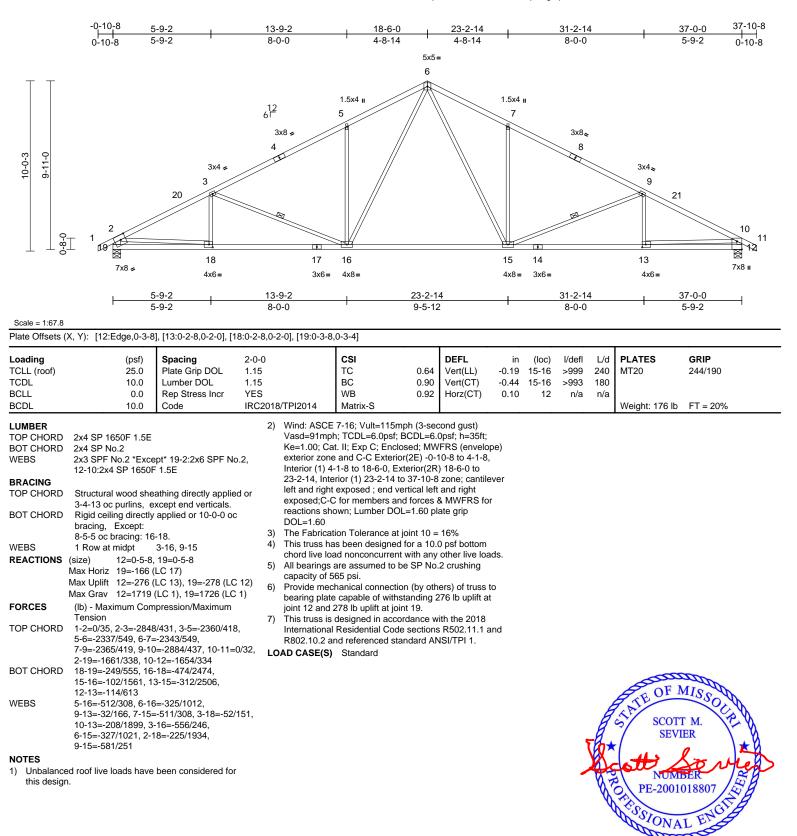
Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:TnZ3x61kRmd3IVZaqXdQQ5zwvtc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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April 23,2024

VELOPMENSERVICES

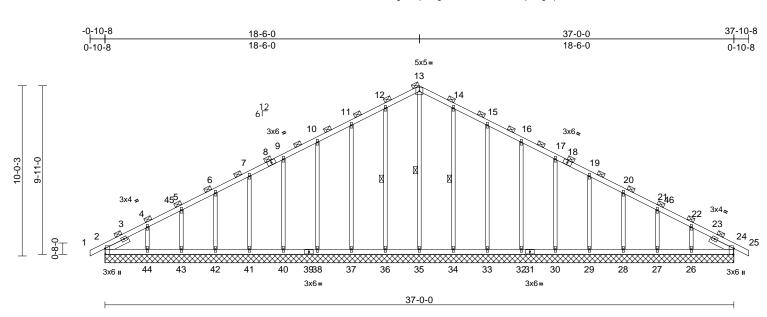
LEE'S'SUMMIT'SMISSOURI 05/02/2024 12:13:29



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 ANSUTPH 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 160	
P240285-01	E7	Common Supported Gable	1	1	Job Reference (optional)	165076806

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:30TC0Xcr8WgF3uEpecUgNDzwvss-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:67.8

#### Plate Offsets (X, Y): [2:0-4-1,Edge], [18:0-0-0,0-0-0], [24:0-4-1,Edge]

					-									
Loading		(psf)	Spacing	4-0-0		CSI	0.00	DEFL	in	(loc			PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.20	Vert(LL)	n/a		- n/a		MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.12	Vert(CT)	n/a		- n/a			
BCLL		0.0	Rep Stress Incr	NO		WB	0.40	Horz(CT)	0.02	2	:4 n/a	a n/a		
BCDL		10.0	Code	IRC2	018/TPI2014	Matrix-S						-	Weight: 195 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS	2x4 SP No. 2x3 SPF No	2 5.2			FORCES	(lb) - Maximum Tension 1-2=0/11, 2-4= 5-6=-257/209, 0	-486/167, 4- 6-7=-204/26	5=-324/179, 2, 7-9=-165/3	317,	∕√ ⊮ e	/asd=91r (e=1.00; exterior zo	nph; TC Cat. II; one and	C-C Corner(3E)	L=6.0psf; h=35ft; MWFRS (envelope) -0-10-8 to 4-1-8,
SLIDER BRACING TOP CHORD	1-6-7 2-0-0 oc pu	ırlins (6-0	I-6-7, Right 2x4 SP № -0 max.) ated: Spacing > 2-8-0			9-10=-146/373, 11-12=-222/58 13-14=-257/68 15-16=-183/47 17-19=-117/25	8, 12-13=-25 1, 14-15=-25 3, 16-17=-14 9, 19-20=-1	57/681, 22/588, 46/367, 17/151,		2 le r	23-6-0, Èx eft and rig exposed;0 eactions	ktérior(2 ght expo C-C for shown;	osed ; end vertica	0-8 zone; cantilever Il left and right ces & MWFRS for
BOT CHORD	bracing.		applied or 10-0-0 oc			20-21=-147/62 22-24=-331/10	0, 24-25=0/*	1		3) -		signed f		he plane of the truss
WEBS REACTIONS	1 Row at m (size) 2 3 3 3 3 4 4 Max Horiz 2 Max Uplift 2 2 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2=37-0-0, 27=37-0-0, 30=37-0-0 37=37-0-0 37=37-0-0 44=37-0-0 41=37-0-0 2=-365 (L) 2=-365 (L) 2=-53 (LC) 2=-365 (L) 2=-365	C 13) : 13), 26=-211 (LC 13; LC 13), 28=-127 (LC LC 13), 30=-123 (LC LC 13), 33=-134 (LC LC 13), 36=-109 (LC LC 12), 38=-121 (LC LC 12), 41=-121 (LC LC 12), 43=-96 (LC 1	0-0, 0-0, 0-0, 0-0, 0-0, 3), 13), 13), 12), 12), 12),	BOT CHORD	$\begin{array}{l} 2\text{-}44\text{=-}96/385\text{,}\\ 42\text{-}43\text{=-}96/385\text{,}\\ 37\text{-}38\text{=-}96/385\text{,}\\ 35\text{-}36\text{=-}96/385\text{,}\\ 35\text{-}36\text{=-}96/385\text{,}\\ 30\text{-}32\text{=-}96/385\text{,}\\ 26\text{-}27\text{=-}96/385\text{,}\\ 26\text{-}27\text{=-}96/385\text{,}\\ 13\text{-}35\text{=-}425/84\text{,}\\ 11\text{-}37\text{=-}279/200\text{,}\\ 9\text{-}40\text{=-}280/193\text{,}\\ 6\text{-}42\text{=-}282/197\text{,}\\ 4\text{-}44\text{=-}321/414\text{,}\\ 15\text{-}33\text{=-}279/200\text{,}\\ 17\text{-}30\text{=-}280/193\text{,}\\ 20\text{-}28\text{=-}282/197\text{,}\\ 22\text{-}26\text{=-}321/400\text{,}\\ \end{array}$	, 41-42=-96/ , 38-40=-96, , 36-37=-96/ , 34-35=-96/ , 22-33=-96/ , 27-28=-96/ , 24-26=-96/ , 12-36=-29/ 8, 10-38=-22, , 7-41=-280/ , 5-43=-271/ , 14-34=-29/ 8, 16-32=-22, 7, 21-27=-2	385, 385, 385, 385, 385, 385, 385, 385,		s 4) A 5) C 6) C 7) T 8) A	see Stanc or consult All plates Gable req Gable stu This truss shord live	lard Ind qualifie are 1.5 uires co ds spac has be load no gs are a of 565 p	ustry Gable End ad building design x4 MT20 unless of ontinuous bottom ced at 2-0-0 oc. en designed for a onconcurrent with assumed to be SF	a 10.0 psf bottom any other live loads. P No.2 crushing MISSOLITIENT
	2 2 3 3 3 3 3 3 4 4 4	26=426 (L 28=364 (L 30=360 (L 33=359 (L 35=416 (L 37=359 (L 40=360 (L	21), 24=368 (LC 1) C 26), 27=343 (LC 1 C 26), 29=359 (LC 1 C 26), 32=360 (LC 1 C 26), 34=376 (LC 2 C 22), 36=376 (LC 2 C 22), 38=360 (LC 1 C 25), 41=359 (LC 1 C 25), 43=343 (LC 1 C 25)	1), 1), 26), 25), 1),	NOTES 1) Unbalance this design	d roof live loads	have been o	considered fo	r			J	NUM PE-2001	018807 20 F

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and KEAD KO LES ON THIS AND INCLUDED MILEK REFERENCE PAGE MIL-7473 rev. 17/2/2023 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)



Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	E7	Common Supported Gable	1	1	Job Reference (optional)	165076806

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2, 109 lb uplift at joint 36, 131 lb uplift at joint 37, 121 lb uplift at joint 38, 123 lb uplift at joint 40, 121 lb uplift at joint 41, 128 lb uplift at joint 42, 96 lb uplift at joint 43, 238 lb uplift at joint 44, 101 lb uplift at joint 34, 134 lb uplift at joint 33, 120 lb uplift at joint 32, 123 lb uplift at joint 30, 121 lb uplift at joint 29, 127 lb uplift at joint 28, 102 lb uplift at joint 27 and 211 lb uplift at joint 26.
- 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.
- 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

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:22 ID:30TC0Xcr8WgF3uEpecUgNDzwvss-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

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 **ANSITPTI 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)

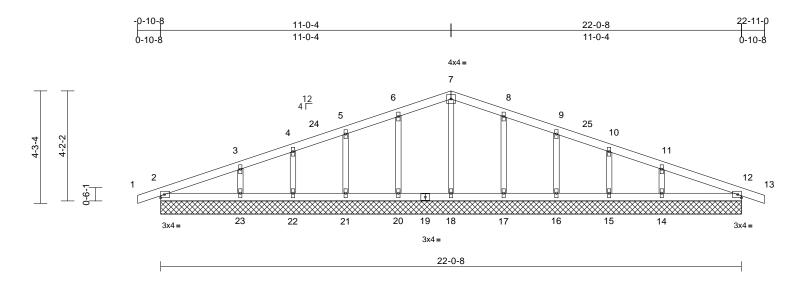


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	G1	Common Supported Gable	1	1	Job Reference (optional)	165076807

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:OniToTBJcu5e4i7ZBJU?9SypbwQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

CTION VIEW

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Scale = 1:43.7

		· · · · · · · · · · · · · · · · · · ·											
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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	0/TDI204.4	WB	0.05	Horz(CT)	0.00	12	n/a	n/a	Waight OC lb	FT 200/
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 86 lb	FT = 20%
LUMBER TOP CHORD			,	this design.	roof live loads hav								
BOT CHORD			2)		7-16; Vult=115mp								
OTHERS	2x3 SPF No.2				h; TCDL=6.0psf; B t. II; Exp C; Enclos			<i>)</i>					
BRACING TOP CHORD	Structural wood she	athing directly applied	d or	,	and C-C Corner(	,	· · ·	-)					
	6-0-0 oc purlins.	auning unecuy applied	101		4-1-8 to 11-0-4, C								
BOT CHORD		applied or 10-0-0 oc		left and right	rior(2N) 16-0-4 to exposed ; end ve for members and	rtical left	and right	er					
REACTIONS		, 12=22-0-8, 14=22-0- 8, 16=22-0-8, 17=22-(			own; Lumber DOL								
		8, 20=22-0-8, 21=22-0 8, 23=22-0-8	<sup>0-8,</sup> 3)		ned for wind loads	in the p	lane of the trus	s					
	Max Horiz 2=-75 (LC				ids exposed to wir								
	Max Uplift 2=-50 (LC	,			d Industry Gable E alified building de								
		C 13), 15=-43 (LC 9),			e 1.5x4 MT20 unle								
		C 13), 17=-52 (LC 13	<sup>3</sup> ), 5)		es continuous bot								
		.C 12), 21=-51 (LC 12 .C 8), 23=-77 (LC 12)	<sup>(''</sup> 6)		spaced at 2-0-0 o								
	Max Grav 2=188 (L		7)		s been designed								
		LC 26), 15=151 (LC 2			ad nonconcurrent are assumed to be			s.					
		LC 1), 17=189 (LC 26	), <sup>,</sup>	capacity of 5			2 or doning						
		LC 1), 20=189 (LC 25 LC 1), 22=151 (LC 25			hanical connectio								
	23=262 (		,		capable of withst			int					
FORCES	(lb) - Maximum Con	pression/Maximum			t at joint 20, 51 lb ( 22, 77 lb uplift at j			int				OF	MISSO
	Tension				ift at joint 16, 43 lb			ni it				FEUTI	115'S
TOP CHORD	,	, 3-4=-50/62, 4-5=-31	/87,		14 and 60 lb uplift						6	174	No. Y
	,	5/159, 7-8=-55/154, 31/74, 10-11=-37/41,	10		designed in accor						a	S/ SUUI	
	11-12=-58/34, 12-13	, ,			Residential Code nd referenced star			d			Ø.	SEVI	
BOT CHORD	,	-16/67, 21-22=-16/67	<sup>7,</sup> 10	DAD CASE(S)		iuaiu Ai	NSI/TELT.				8		
	,	0=-16/67, 17-18=-16/6	57,	OAD CASE(3)	Standard					_		al _	Server
	,	6=-16/67, 14-15=-16/6	67,							-	1	NUM	
WEBS	12-14=-16/67 7-18=-121/2 6-20=-	·150/135, 5-21=-143/1	129								N	PE-2001	018807
	4-22=-121/80, 3-23		,								V	TRO	154
	8-17=-150/135, 9-10	6=-143/129,										V STONE	LEN
	10-15=-121/80, 11-	14=-196/125										A CONA	
NOTES												Apri	1 23,2024
												Арп	1 23,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	G2	Common	5	1	Job Reference (optional)	165076808

3x4 =

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:dFDR6k5IVQ5m7TW0jeK7qmypbwY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x4 =

Page: 1

22-11-ρ

0-10-8

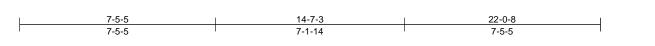
6

3x4 =

0  $\bigotimes$ 

-p-10-8 5-7-13 11-0-4 16-4-11 22-0-8 5-7-13 d-10-8 5-4-7 5-4-7 5-7-13 4x4 = 12 4 Г 4 1.5x4 💊 1.5x4 🖌 <sup>13</sup> 5 3 12 4-2-2 11 14 j − 10 9 8

3x4 =



3x4 =

Scale - 1:43 7

4-3-4

Scale = 1.43.7												
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	0.46	Vert(LL)	-0.11	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.22	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 3-5-3 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=-75 (LC Max Uplift 2=-219 (L Max Grav 2=1050 (L (lb) - Maximum Com Tappion	applied or 8-4-1 oc 5=0-3-8 ; 17) C 8), 6=-219 (LC 9) .C 1), 6=1050 (LC 1	ed or bearing plate joint 2 and 2 6) This truss is International R802.10.2 a LOAD CASE(S)	hanical connect e capable of with 19 lb uplift at joir designed in acc Residential Coc nd referenced st Standard	standing 2 nt 6. ordance wi le sections	19 lb uplift a th the 2018 R502.11.1 a	t					

- Tension TOP CHORD 1-2=0/6, 2-3=-2188/584, 3-4=-1917/518, 4-5=-1917/518, 5-6=-2188/584, 6-7=0/6 BOT CHORD 2-10=-486/1992, 8-10=-269/1376, 6-8=-494/1992
- WEBS 4-8=-103/589, 5-8=-376/227, 4-10=-103/589, 3-10=-376/227

#### 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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-0-4, Exterior(2R) 11-0-4 to 16-0-4, Interior (1) 16-0-4 to 22-11-0 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
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



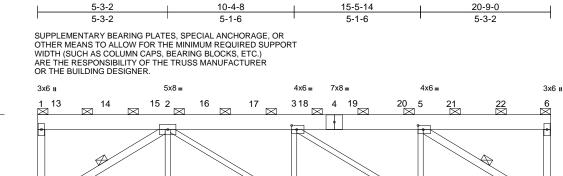
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing 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 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)

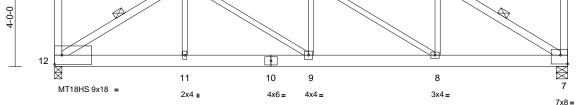


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	R1	Flat Girder	1	2	Job Reference (optional)	165076809

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Page: 1





	5-3-2	10-4-8	15-5-14	20-9-0	
	5-3-2	5-1-6	5-1-6	5-3-2	
Scale = 1:46.6					

#### Plate Offsets (X, Y): [3:0-2-8,0-2-0], [5:0-2-8,0-2-0], [7:Edge,0-4-4]

	, , , , , , , , , , , , , , , , , , , ,	, <u>, , , , , , , , , , , , , , , , , , </u>											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO		CSI TC BC WB	0.42 0.85 0.62	• • •	in -0.11 -0.20 0.07	(loc) 9 9 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT18HS MT20	<b>GRIP</b> 197/144 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 257 lb	FT = 20%
(0.131"x3" Top chord oc, 2x8 - 2 Bottom ch staggered	No.2 2x4 SP No.2 2-0-0 oc purlins (5- end verticals. Rigid ceiling directly bracing. 1 Row at midpt (size) 7=0-5-8, Max Uplift 7=-1154 Max Grav 7=5155 ( (lb) - Maximum Cor Tension 1-12=-1320/361, 1- 2-3=-8293/2099, 3- 5-6=-72/17, 6-7=-76 11-12=-1628/6426, 8-9=-2099/8293, 7- 5-7=-764/1939, 2- 2-12=-7674/1945, 2 3-9=-1153/373, 3-8 5-8=-239/1336 to be connected toge ) nails as follows: s connected as follows: s connected as follows: etced as follows: 2x4	LC 1), 12=5719 (LC 1), npression/Maximum 2=-76/18, 5=-6403/1622, 38/252 9-11=-1628/6426, 8=-1622/6403 11=0/188, 2-9=-570/2256, =-2284/577, ether with 10d rs: 2x4 - 1 row at 0-9- 9-0 oc. lows: 2x6 - 2 rows	(4 SP 3) ept 5 3) 4) 5 5 3) 5 5 1) 7) 8) 9) 1( 1: 1: 0	except if noto CASE(S) see provided to c unless other Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone and right exp MWFRS for grip DOL=1.( Provide adec 1 All plates are chord live loz WARNING: I than input be All bearings capacity of 4 Provide mec bearing plate joint 12 and D) This truss is International R802.10.2 ar	quate drainage to a MT20 plates unle as been designed i ad nonconcurrent Required bearing size. are assumed to be 25 psi. hanical connection e capable of withst 1154 lb uplift at joi designed in accor Residential Code nd referenced star rifin representation ation of the purlin a	pack (B) nnection is noted ph (3-see 3CDL=6.1 Sed; MW (3) zone mbers al Lumber I prevent to ess other for a 10.1 with any size at jo e SPF No n (by oth tanding 1 int 7. dance w e sections ndard AN n does no	face in the LC s have been as (F) or (B), cond gust) 0psf; h=35ft; FRS (envelop ; cantilever le nd forces & DOL=1.60 pla water ponding wise indicate 0 psf bottom other live loa int(s) 12 grea b.2 crushing ers) of truss t 281 lb uplift a ith the 2018 s R502.11.1 a SI/TP11.	oe) ft g. d. ds. tter o at	pro lb c up dov at dov up anc The res LOAD 1) Du Pl	vided su down and at 2-9-0 wn and 2 8-9-0, 9 wn and 2 at 14-9- d 902 lb e design ponsibili <b>CASE(S</b> ead + Re late Incre niform L Vert: 15 Vert: 13	Ifficient d 2061 b, 9021 203 lb d 203 l	b up at 0-9-0, 90 b down and 203   up at 6-9-0, 902   own and 203  b up at 12-9-0, 902   own and 203 lb up at 12-9-0, 902 902 lb down and and 203 lb up at ion of such conne- hers. Idard e (balanced): Lun .15 b/ft) 7-12=-20 ads (lb) 14=-902, 15=-90 902, 20=-902, 21 SCOT SEVI PE-2001	entrated load(s) 916 2 lb down and 203 lb b up at 4-9-0, 902 lb b down and 203 lb up p at 10-9-0, 902 lb 1b down and 203 lb 203 lb up at 16-9-0, 18-9-0 on top chord. action device(s) is the aber Increase=1.15, 02, 16=-902, 17=-902, =-902, 22=-902 MISSOC T M. ER DER 018807 L ENCLOSE

 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 160	
P240285-01	V1	Valley	1	1	Job Reference (optional)	165076810

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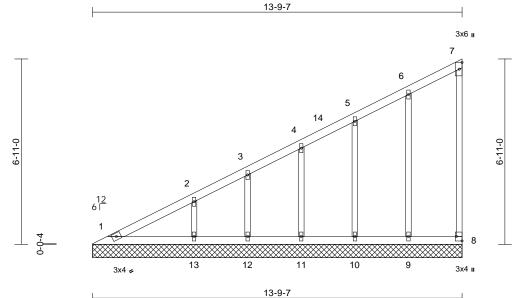
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April 23,2024

DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 05/02/2024 12:13:30

TION IEW



1	13	-9-

Scale = 1:43

Plate Offsets (X, Y): [8:Edge,0-2-8]

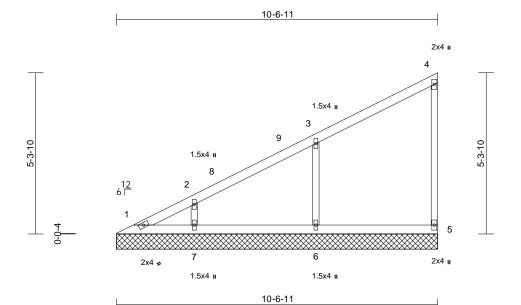
										-			
Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD	(psf) 25.0 10.0 0.0 10.0 2x4 SP No.2 2x4 SP No.2	Plate Grip DOL Lumber DOL Rep Stress Incr		Vasd=91mph Ke=1.00; Ca	CSI TC BC WB Matrix-S 7-16; Vult=115mp r; TCDL=6.0psf; B t. II; Exp C; Enclos	CDL=6. sed; MW	0psf; h=35ft; FRS (envelop	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 61 lb	<b>GRIP</b> 244/190 FT = 20%
WEBS OTHERS	2x3 SPF No.2 2x3 SPF No.2				and C-C Exterior 9-15 to 13-8-11 zo			t					
BRACING					d ; end vertical left and forces & MW								
TOP CHORD	6-0-0 oc purlins, ex	athing directly applied cept end verticals.		Lumber DOL	=1.60 plate grip D	OL=1.6	)	,					
BOT CHORD	0 0 7	applied or 10-0-0 oc	2)	only. For stu	ned for wind loads	nd (norm	al to the face)	),					
Bracing.         bracing.           REACTIONS         (size)         1=13-9-7, 8=13-9-7, 9=13-9-7, 10=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9-7, 13=13-9, 12=24, 1CC 19, 10=-58 (LC 12), 11=-65 (LC 12), 10=-58 (LC 12), 11=-65 (LC 12), 12=-47 (LC 12), 13=-100 (LC 12), 12=-47 (LC 12), 13=-100 (LC 12), 12=138 (LC 1), 11=190 (LC 1), 12=138 (LC 1), 13=294 (LC 1)				<ul> <li>see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.</li> <li>All plates are 1.5x4 MT20 unless otherwise indicated.</li> <li>Gable requires continuous bottom chord bearing.</li> <li>Gable studs spaced at 2-0-0 oc.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>All bearings are assumed to be SP No.2 crushing capacity of 565 psi.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint</li> </ul>									
FORCES	(lb) - Maximum Com Tension	pression/Maximum			at joint 9, 58 lb up 7 lb uplift at joint 1								
TOP CHORD	1-2=-441/258, 2-3=-	357/213, 3-4=-312/199 198/158, 6-7=-124/116		This truss is International	designed in accore Residential Code nd referenced star	sections	R502.11.1 a	nd				STATE OF I	MISSO
BOT CHORD	1-13=-132/143, 12-1 11-12=-132/143, 10- 9-10=-132/143, 8-9=	11=-132/143, -132/143	LC	DAD CASE(S)							A	S SCOT	Г М. IER
WEBS	6-9=-149/167, 5-10= 4-11=-146/104, 3-12	-138/110, 2=-112/84, 2-13=-219/ <i>1</i>	173								F		
NOTES												PE-2001	018807 ZB



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	V2	Valley	1	1	Job Reference (optional)	165076811

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:k9HPTm2vTtVcNGw8ZzmicAzJtkT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:37.9

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE REACTIONS	<ul> <li>2x4 SP No.2</li> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>Structural wood she 6-0-0 oc purlins, ex</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 1=10-6-1* 7=10-6-1*</li> <li>Max Horiz 1=220 (LC Max Uplift 5=-37 (LC 7=-101 (L Max Grav 1=88 (LC</li> </ul>	cept end verticals. applied or 10-0-0 oc 1, 5=10-6-11, 6=10-6 C 9) : 9), 6=-137 (LC 12), C 12)	chord live 6) All bearing capacity of 7) Provide m bearing pla 5, 137 lb u 8) This truss Internation R802.10.2 6-11, LOAD CASE(	echanical connectio ate capable of withsi plift at joint 6 and 10 is designed in accor al Residential Code and referenced star	with any e SP No. n (by oth tanding 3 01 lb upli rdance w sections	other live loa 2 crushing ers) of truss t 7 lb uplift at j ft at joint 7. ith the 2018 5 R502.11.1 a	o oint					
FORCES	(lb) - Maximum Com Tension											
TOP CHORE	D 1-2=-377/217, 2-3=- 4-5=-108/124	294/184, 3-4=-137/1	11,									
BOT CHORE		,										
WEBS	3-6=-315/302, 2-7=-	230/225										
NOTES												(The
Vasd=91 Ke=1.00; exterior z Interior (' right exp for memt Lumber I 2) Truss de only. Fo see Stan	SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Cat. II; Exp C; Enclose zone and C-C Exterior(2 1) 5-7-9 to 10-5-15 zone osed ; end vertical left a bers and forces & MWFI DOL=1.60 plate grip DC esigned for wind loads ir r studs exposed to wind idard Industry Gable En- It qualified building designed to the set of the set	DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-7-9 to 5-7-9, s; cantilever left and nd right exposed;C- RS for reactions sho L=1.60 n the plane of the tru (normal to the face) d Details as applicat	C wn; ss , ble,						Å		SCOT SEV. NUM PE-2001	I M. HER HER

- fied building designer a er ANSI/TPL1. onsuit qua Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.



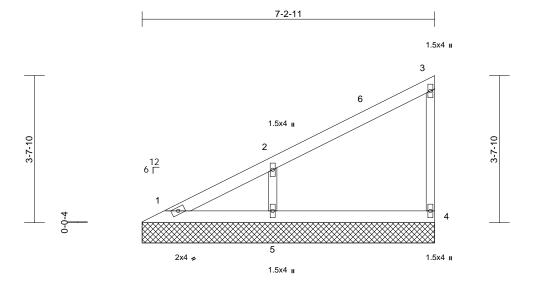
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual 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 colleges 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)

Job	Truss	Truss Type	Qty Ply Roof - HR Lot 160		Roof - HR Lot 160	
P240285-01	V3	Valley	1	1	Job Reference (optional)	165076812

#### Run: 8,63 S Apr 5 2024 Print: 8,630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:hYPAuS3A?UIKca3XhOoAhbzJtkR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BRACING

TOP CHORD

BOT CHORD

FORCES

WFBS

NOTES

2)

3)

4)

5)

6)

TOP CHORD

BOT CHORD

REACTIONS (size)

bracing.

Tension

2-5=-294/316

capacity of 565 psi.

Max Horiz 1=146 (LC 9)

(LC 1)

1-5=-67/73, 4-5=-67/73

This truss has been designed for a 10.0 psf bottom

All bearings are assumed to be SP No.2 crushing

chord live load nonconcurrent with any other live loads.

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

1=7-2-11, 4=7-2-11, 5=7-2-11

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 4=-31 (LC 12), 5=-128 (LC 12) Max Grav 1=85 (LC 20), 4=141 (LC 1), 5=378

(lb) - Maximum Compression/Maximum

1-2=-280/164, 2-3=-126/93, 3-4=-111/141

Scale = 1:28.5								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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2		bearing plat 4 and 128 ll 8) This truss is	chanical connect te capable of wit to uplift at joint 5. designed in ac I Residential Co	thstanding 3 cordance w	31 lb uplift at jith the 2018	joint					

7-2-11

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

-	
	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) 0-7-9 to 5-7-9,
	Interior (1) 5-7-9 to 7-1-15 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
	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.
	Gable studs spaced at 4-0-0 oc.



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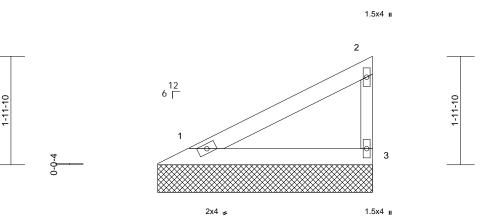


Job	Truss	Truss Type Qty Ply Roof - HR Lot 160		Roof - HR Lot 160		
P240285-01	V4	Valley	1	1	Job Reference (optional)	165076813

#### Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:9kzY5o4omouBEjejF6JPEpzJtkQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3-10-11

3-10-11

00010 - 1.20.3												
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	0.22	Vert(LL)	n/a	(100)	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a		n/a	999		210,100
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	110112(12)	0.00	0	Π/a	11/4	Weight: 12 lb	FT = 20%
	10.0	0000		Manx							Wolght. 12 lb	11 - 2070
LUMBER				s designed in acco								
TOP CHORD	2x4 SP No.2			al Residential Cod			and					
BOT CHORD				and referenced st	andard AN	NSI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S	) Standard								
BRACING												
TOP CHORD	Structural wood she 3-11-3 oc purlins, e											
BOT CHORD												
	bracing.											
REACTIONS	(size) 1=3-10-1	1, 3=3-10-11										
	Max Horiz 1=71 (LC	9)										
	Max Uplift 1=-22 (LC		)									
	Max Grav 1=144 (Le	C 1), 3=144 (LC 1)										
FORCES	(lb) - Maximum Con	npression/Maximum	1									
	Tension											
TOP CHORD	, -	12/145										
BOT CHORD	1-3=-33/36											
NOTES	0= = 40 34 14 445 1	( <b>0</b> ) )										
	CE 7-16; Vult=115mph											
	nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose											
	one and C-C Exterior(2											
	exposed ; end vertical		ICIL									
	C-C for members and f		r									
	shown; Lumber DOL=										COL	TOD
DOL=1.60											TATE OF I	MISC
	signed for wind loads i									1	750	NO.
	studs exposed to wind									B	SCOT	N NA
	ard Industry Gable En									R	~ /	
	qualified building desi		PI 1.							8.	SEV	
	uires continuous botto									87		×2
	ds spaced at 4-0-0 oc. has been designed fo									W.		Am h 1
	load nonconcurrent w		ads						-	A M	NUM	BER
	gs are assumed to be									NS	PE-2001	018807
capacity o		2								N	T	120
	nechanical connection	(by others) of truss	to							Y	1ºSer	NO'A
bearing pl	late capable of withsta										ESSIONA	LEFA
1 and 40 I	lb uplift at joint 3.										and	TITE
												il 23,2024
											, ipi	

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	V7	Valley	1	1	Job Reference (optional)	165076814

2-7-11

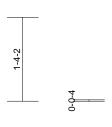
2-7-11

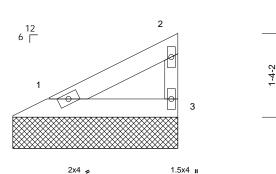
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1.5x4 u

Page: 1





Scale = 1:18.4

Scale = 1:18.4												
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 IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.07 0.04 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a n/a	(loc) - -	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 WEBS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS ( M FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zon and right ex members ar Lumber DO 2) Truss desig only. For st	10.0 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 2-8-3 oc purlins, ex Rigid ceiling directly bracing. size) 1=2-7-11, Max Horiz 1=43 (LC Max Uplift 1=-8 (LC (lb) - Maximum Com Tension 1-2=-46/25, 2-3=-68 1-3=0/0 E7-16; Vult=115mph oh; TCDL=6.0psf; BC at. II; Exp C; Enclose e and C-C Exterior(2 posed ; end vertical In d forces & MWFRS L=1.60 plate grip DC gned for wind loads ir uds exposed to wind	Code athing directly applie cept end verticals. applied or 10-0-0 or 3=2-7-11 12), 3=-30 (LC 12) 1), 3=88 (LC 1) pression/Maximum /81 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever 1 left exposed;C-C for for reactions shown vL=1.60 the plane of the tru (normal to the face)	8) This truss is Internationa R802.10.2 a LOAD CASE(S) ad or c	designed in accor Residential Code nd referenced star	dance w	ith the 2018 R502.11.1 ar	ıd				Weight: 8 lb	
or consult q 3) Gable requi 4) Gable studs 5) This truss h chord live lc 6) All bearings capacity of 9 7) Provide me bearing plat	rd Industry Gable En ualified building desi, res continuous botto s spaced at 4-0-0 oc. as been designed foi ad nonconcurrent wi are assumed to be 5 565 psi. chanical connection ( e capable of withstar plift at joint 3.	gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom th any other live loa SP No.2 crushing /by others) of truss to	ข 1. ds. อ								SCOT SEV SEV NUM PE-2001	T M. HER 018807

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April 23,2024

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CTION **IEW** 

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	V8	Valley	1	1	Job Reference (optional)	165076815

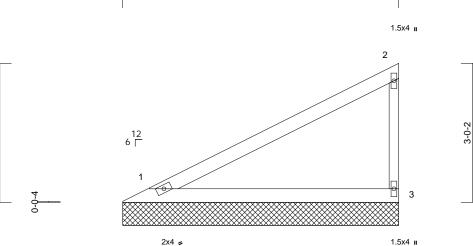
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

3-0-2

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-11-11

2x4 ዾ

Scale -	1.24 9	

Scale = 1:24.9												
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.65 0.35 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a n/a	(loc) - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	110112(112)	n/a		n/a	n/a	Weight: 20 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-3 oc purlins, ex Rigid ceiling directly	cept end verticals.	Internationa R802.10.2 a LOAD CASE(S) ed or	designed in accc I Residential Cod nd referenced sta Standard	e sections	R502.11.1 an	ıd					
	bracing.											
	(size) 1=5-11-1 Max Horiz 1=116 (LC Max Uplift 1=-23 (LC Max Grav 1=238 (LC	C 12), 3=-81 (LC 12)										
FORCES	(lb) - Maximum Com											
TOP CHORD BOT CHORD	Tension 1-2=-121/66, 2-3=-1 1-3=0/0	85/213										
Vasd=91m Ke=1.00; ( exterior zo and right e	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical and forces & MWFRS	DL=6.0psf; h=35ft; ed; MWFRS (envelop E) zone; cantilever I left exposed;C-C for	eft									
Lumber Du 2) Truss des only. For see Stand or consult 3) Gable requ 4) Gable stud 5) This truss chord live	OL=1.60 plate grip DC signed for wind loads in studs exposed to wind ard Industry Gable En qualified building desi- uires continuous botto ds spaced at 4-0-0 oc. has been designed fo load nonconcurrent wi s are assumed to be s	DL=1.60 n the plane of the tru I (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom ith any other live load	iss , , le, 11.								STATE OF J	
capacity of		Ū	D							N.	PE-2001	018807

bearing plate capable of withstanding 23 lb uplift at joint 1 and 81 lb uplift at joint 3.

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 oulgase 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) DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI

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April 23,2024

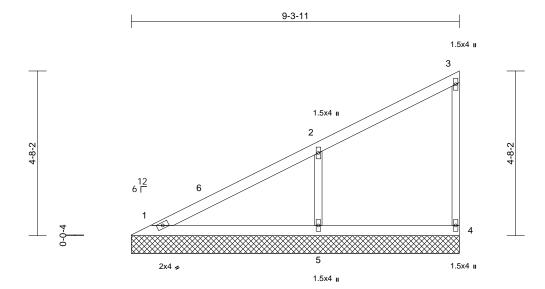
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ΤΙΟΝ **IEW** 

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	V9	Valley	1	1	Job Reference (optional)	165076816

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	= 1	1:32.7

		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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%
BCDL       10.0       Code       IRC2018/TPI2014       Matrix-S       Weight: 33 lb       FT = 20%         LUMBER       TOP CHORD       2x4 SP No.2       7)       Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 164 lb uplift at joint 5.       7)       Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 164 lb uplift at joint 5.         WEBS       2x3 SPF No.2       8)       This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.       8)         BRACING       6-0-0 cc purlins, except end verticals.       8)       ToP CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.         REACTIONS       (size)       1=9-3-11, 4=9-3-11, 5=9-3-11 Max Horiz 1=188 (LC 12) Max Uplift 4=-42 (LC 12), 5=-164 (LC 12) Max Grav 1=169 (LC 1), 4=123 (LC 1), 5=-483													
	(LC 1)	.,,20 (20 1), (											
FORCES	(Ib) - Maximum Compression/Maximum Tension												
TOP CHORD	1-2=-241/113, 2-3=-	84/29, 3-4=-97/97											

9-3-11

BOT CHORD 1-5=-2/3. 4-5=-2/3 WEBS 2-5=-366/342

NOTES

- 1) 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) 0-7-9 to 5-4-3, Interior (1) 5-4-3 to 9-2-15 zone; cantilever left and right exposed ; end vertical left 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. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5)
- chord live load nonconcurrent with any other live loads. 6) All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.

## 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

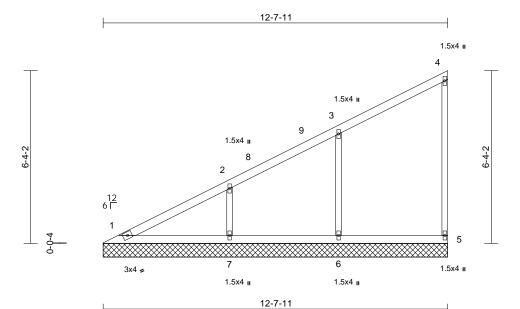
OF MISS SCOTT M. SEVIER **ND BEE** PE-2001018807 ONAL E April 23,2024



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 160	
P240285-01	V10	Valley	1	1	Job Reference (optional)	165076817

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 14:01:23 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.3

00010 = 1.42.0	, 											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.24	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.13 0.12	Vert(TL) Horiz(TL)	n/a 0.00	- 5	n/a n/a	999 n/a		
BCDL	10.0	Code	IRC2018/TI	_ ··-=	0.12		0.00	5	n/a	n/a	Weight: 48 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>2x4 SP No.2</li> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>Structural wood she</li> <li>6-0-0 oc purlins, ex</li> <li>Rigid ceiling directly bracing.</li> </ul>	cept end verticals.	cl 6) A ca 7) P b b b b b b b c 8) T c c R	his truss has been design hord live load nonconcurr II bearings are assumed t apacity of 565 psi. rovide mechanical conne earing plate capable of wi , 129 Ib uplift at joint 6 and his truss is designed in ac nternational Residential C (802.10.2 and referenced D CASE(S) Standard	ent with any to be SP No. ction (by oth ithstanding 4 d 138 lb upli ccordance w ode sections	other live loa 2 crushing ers) of truss t 9 lb uplift at j t at joint 7. ith the 2018 5 R502.11.1 a	o oint					
	7=12-7-1 <sup>2</sup> Max Horiz 1=261 (LC Max Uplift 5=-49 (LC 7=-138 (L Max Grav 1=149 (LC	C 12) 5 12), 6=-129 (LC 12 C 12)	2),									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD		193/83, 3-4=-81/35,										
BOT CHORD WEBS	1-7=-2/3, 6-7=-2/3, 5 3-6=-299/245, 2-7=-											
NOTES	0 0 200/210,21	000,211										
Vasd=91ı Ke=1.00; exterior z Interior (1 right expo members	SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose cone and C-C Exterior(2 1) 5-7-9 to 12-6-15 zone osed ; end vertical left e s and forces & MWFRS	DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-7-9 to 5-7-9, e; cantilever left and xposed;C-C for for reactions shown									STATE OF J	
<ol> <li>Truss de only. For see Stand</li> </ol>	DOL=1.60 plate grip DC esigned for wind loads ir r studs exposed to wind dard Industry Gable En- It qualified building desire	n the plane of the tru (normal to the face d Details as applica	), ble,							N.	PE-2001	018807

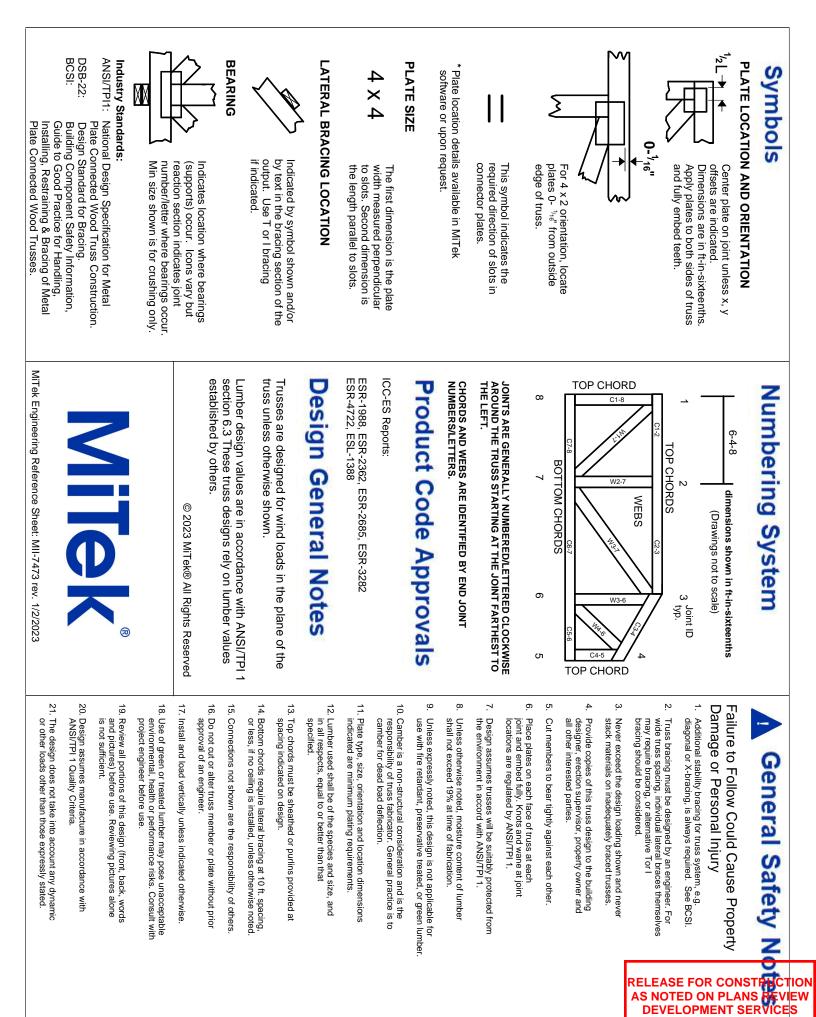
or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3)

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

# 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 colleges 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)



SIONAL E



ASE FOR CONST **OTED ON PLANS** VELOPMENT SER LEE'S SUMMIT, MISSOURI

12:13:3

05/02/2024