

RE: P250045-01 - Roof - HM Lot 158 Site Information: Project Customer: Clayton Properties Project Na Lot/Block: 158 Subdi Model: Address: 2709 SW 12th St City: Lee's Summit State: General Truss Engineering Criteria & Design Lot Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 45.0 psf Mean Roof Height (feet): 35	on: Highland Meadows
No.Seal#Truss NameDateNo.Se1170905787A1 $1/22/25$ 35 17002170905788A2 $1/22/25$ 36 1703170905789A3 $1/22/25$ 37 17004170905790A4 $1/22/25$ 38 17005170905791A5 $1/22/25$ 39 17006170905792A6 $1/22/25$ 40 17007170905793A7 $1/22/25$ 41 17009170905794A8 $1/22/25$ 42 17009170905795A9 $1/22/25$ 43 170010170905796A10 $1/22/25$ 44 170011170905797A11 $1/22/25$ 45 170012170905798A12 $1/22/25$ 46 170013170905799A13 $1/22/25$ 47 170014170905800A14 $1/22/25$ 50 170015170905801A15 $1/22/25$ 50 170016170905802A16 $1/22/25$ 50 170017170905805C1 $1/22/25$ 55 170018170905807C3 $1/22/25$ 55 170020170905813C10 $1/22/25$ 56 170021170905813C10 $1/22/25$ 57 170022170905813C10 $1/22/25$ 57 1700 <td>322 HG1 $1/22/25$ 323 HG2 $1/22/25$ 324 HG3 $1/22/25$ 325 HG4 $1/22/25$ 326 HG5 $1/22/25$ 327 J1 $1/22/25$ 328 J2 $1/22/25$ 329 J3 $1/22/25$ 330 J4 $1/22/25$ 331 J5 $1/22/25$ 332 J6 $1/22/25$ 333 J7 $1/22/25$ 334 J8 $1/22/25$ 334 J8 $1/22/25$ 334 J8 $1/22/25$ 334 J1 $1/22/25$ 334 J1 $1/22/25$ 334 J11 $1/22/25$ 338 J12 $1/22/25$ 339 J13 $1/22/25$ 340 T1 $1/22/25$ 341 TG2 $1/22/25$</td>	322 HG1 $1/22/25$ 323 HG2 $1/22/25$ 324 HG3 $1/22/25$ 325 HG4 $1/22/25$ 326 HG5 $1/22/25$ 327 J1 $1/22/25$ 328 J2 $1/22/25$ 329 J3 $1/22/25$ 330 J4 $1/22/25$ 331 J5 $1/22/25$ 332 J6 $1/22/25$ 333 J7 $1/22/25$ 334 J8 $1/22/25$ 334 J8 $1/22/25$ 334 J8 $1/22/25$ 334 J1 $1/22/25$ 334 J1 $1/22/25$ 334 J11 $1/22/25$ 338 J12 $1/22/25$ 339 J13 $1/22/25$ 340 T1 $1/22/25$ 341 TG2 $1/22/25$
The truss drawing(s) referenced above have been prepa MiTek USA, Inc. under my direct supervision based of provided by Premier Building Supply (Springhill, KS): Truss Design Engineer's Name: Sevier, Scott My license renewal date for the state of Missouri is De IMPORTANT NOTE: The seal on these truss component de that the engineer named is licensed in the jurisdiction(s) identified a designs comply with ANSI/TPI 1. These designs are based upon shown (e.g., loads, supports, dimensions, shapes and design code given to MiTek or TRENCO. Any project specific information inclu TRENCO's customers file reference purpose only, and was not tak preparation of these designs. MiTek or TRENCO has not indepen applicability of the design parameters or the designs for any partica the building designer should verify applicability of design parameter incorporate these designs into the overall building design per ANSI	e parameters 00 W 207th Street. ber 31, 2025. is a certification hat the heters hich were s for MiTek's or to account in the y verified the uilding. Before use, d properly

1 of 1

Sevier, Scott BELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

02/04/2025 12:39:28

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A1	Hip Girder	1	2	Job Reference (optional)	170905787

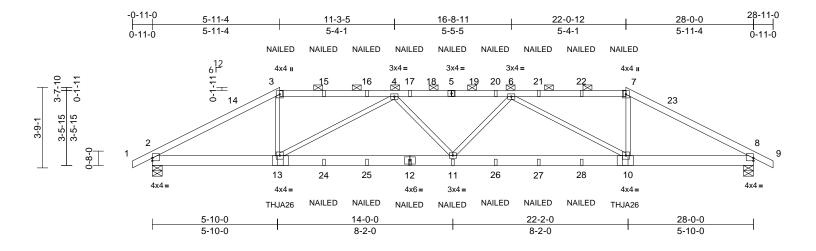
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:19 ID:58PIRvWyxFoJ8fZwELHY5xzZlru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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IEW

DEVELOPMENT: SERVICES LEE'S'SUMMIT: MISSOURI 02/04/2025 12:39:28



Scale = 1:53.7

Plate Offsets (X, Y): [2:Edge,0-1-9], [8:Edge,0-1-9]

		, [0.Edge,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	0.71	Vert(LL)	0.16	11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.72	Vert(CT)	-0.27	11-13	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.45	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S	-						Weight: 236 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SPF No.2 2x3 SPF No.2 Structural wood shi 5-5-11 oc purlins, e 2-0-0 oc purlins (4- Rigid ceiling directh bracing. (size) 2=0-5-8, Max Horiz 2=63 (LC Max Uplift 2=-713 (10-0 max.): 3-7. / applied or 10-0-0 oc 8=0-5-8	4) d or 3) 5)	this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 4. Interior (1) 13 28-11-0 zone vertical left a forces & MW DOL=1.60 pl Provide adee This truss ha	roof live loads ha 7-16; Vult=115m 1; TCDL=6.0psf; I and C-C Exterio 1-0 to 5-11-4, Ex 3-0-2 to 22-0-12, 2; cantilever left a nd right exposed right exposed ate grip DOL=1.6 quate drainage to s been designed	ph (3-se BCDL=6. bsed; MM r(2E) -0- cterior(2R Exterior(crcc for r s shown; 0 prevent for a 10.	cond gust) Opsf; h=35ft; /FRS (envelo 11-0 to 4-1-0,) 5-11-4 to 11 2E) 22-0-12 t exposed ; enc nembers and Lumber water pondin 0 psf bottom	pe) 3-0-2, o 1 1 g.	Co	Oncentra Vert: 3= (F), 10= (F), 16= (F), 22=	ated Lo =-131 (=-419 (=-131 (=-131 (F), 5=-131 (F), 12 F), 11=-39 (F), 7= F), 17=-131 (F), 2	, 2-8=-20 2=-39 (F), 13=-419 131 (F), 15=-131 131 (F), 21=-131 =-39 (F), 26=-39 (F),
FORCES	(lb) - Maximum Cor Tension	npression/Maximum	7)	All bearings capacity of 4		e SPF N	o.2 crushing						
TOP CHORD BOT CHORD WEBS	4-6=-5652/1766, 6- 7-8=-4524/1398, 8- 2-13=-1174/3865, 1 10-11=-1776/5506, 3-13=-388/1623, 7-	9=0/13 1-13=-1794/5508, 8-10=-1131/3864	9)	bearing plate joint 2 and 7 This truss is International R802.10.2 an) Graphical put	hanical connectic capable of withs 13 lb uplift at joint designed in acco Residential Code nd referenced sta rlin representatio ation of the purlin	standing 7 t 8. rdance w e sections indard Al n does n	713 lb uplift a rith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the s	t and					ALL ALL
 (0.131"x3' Top chord oc. Bottom ch staggered Web conn All loads a except if n CASE(S) provided t 	s to be connected toge ') nails as follows: Is connected as follow lords connected as follow lords connected as follows: 2x3 are considered equally	s: 2x4 - 1 row at 0-9-0 lows: 2x6 - 2 rows - 1 row at 0-9-0 oc. y applied to all plies, ack (B) face in the LO, nections have been) 12 13 14 AD	bottom chord) Use Simpson Hand Hip) or connect truss) Use Simpson Right Hand H to connect tr) Fill all nail ho) "NAILED" in per NDS guit	I. a Strong-Tie THJ, equivalent at 5-1 s(es) to front face a Strong-Tie THJ, dip) or equivalent uss(es) to front fa les where hange dicates Girder: 3- delines. Standard of Live (balanced) ase=1.15	A26 (TH. 11-10 from of botton A26 (TH. ace of bot r is in con 10d (0.14	IA26 on 2 ply n the left end n chord. IA26 on 2 ply δ from the left tom chord. ntact with lum I8" x 3") toe-	to , t end nber. nails			E	SCOTT SEVI NUM PE-20010 FSSTONA	ER BER 018807

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 - HM Lot 158	
P250045-01	A2	Нір	1	1	Job Reference (optional)	170905788

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:20 ID:G_21BsSBLP19Qk5mu5B8rhzZls_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

28-11-0 3-11-5 7-11-4 14-0-0 20-0-12 24-0-11 28-0-0 3-11-15 6-0-12 6-0-12 3-11-15 3-11-5 3-11-5 0-11-0 4x4 = 3x8= 4x4 = 0-1-11 Ĥ 0-1-11 61 6 6 5 18 7 4-7-10 19 \square \boxtimes \bowtie \bowtie 1.5x4 👟 1.5x4 🍃 4¹⁷ 20₈ 4-5-15 4-9-1 4-5-15 3x6 🚽 3x6 👟 3 9 21 16 10 0-8-0 11 ⊠ × 15 12 14 13 4x6 II 4x6 II 3x8= 3x4 = 1.5x4 **I** 3x8= 7-10-0 14-0-0 20-2-0 28-0-0 7-10-0 6-2-0 6-2-0 7-10-0

Scale = 1:53.8

Plate Offsets	(X, Y):	[2:0-3-9,0-1-5],	[10:0-3-9,0-1-5]

.oading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.59	Vert(LL)	-0.12	13	>999	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.68	Vert(CT)	-0.23	2-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.88	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%
UMBER OP CHORD OT CHORD VEBS GLIDER	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2	2-1-15 Pight 2v4 SP	2)	Vasd=91mpł Ke=1.00; Ca exterior zone	7-16; Vult=115r n; TCDL=6.0psf; t. II; Exp C; Encl and C-C Exteri 1-0 to 7-11-4 F	BCDL=6.0 losed; MW or(2E) -0-1)psf; h=35ft; FRS (envelop 1-0 to 4-1-0,	,					
	Left 2x4 SP No.2 2-1-15, Right 2x4 SP No.2 2-1-15 Interior (1) 4-1-0 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 20-0-12, Exterior(2R) 20-0-12 to 27-1-10, Interior (1) 27-1-10 to 28-11-0 zone; cantilever												
OP CHORD	Structural wood she 3-3-11 oc purlins, ex 2-0-0 oc purlins (3-1		d or	left and right exposed;C-C reactions sho	exposed ; end v for members a own; Lumber DC	vertical left nd forces &	and right MWFRS for						
OT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				uate drainage t			j .					
	(size) 2=0-5-8, 7 Max Horiz 2=82 (LC Max Uplift 2=-157 (L Max Grav 2=1324 (L	12) C 12), 10=-157 (LC 1	,	chord live loa All bearings a capacity of 5	s been designed ad nonconcurren are assumed to 65 psi. hanical connecti	nt with any be SP No.	other live loa 2 crushing						
ORCES	(lb) - Maximum Com Tension		, 0)	bearing plate	capable of with	standing 1							
OP CHORD	1-2=0/7, 2-4=-2138/ 5-6=-1711/343, 6-7= 7-8=-1954/348, 8-10		7)	This truss is International	designed in according to the designed in according to the designed in according to the design of the	ordance wi le sections	R502.11.1 a	nd					
SOT CHORD	2-15=-291/1781, 13- 12-13=-286/2159, 10	0-12=-286/1781	8)	Graphical pu or the orienta	rlin representation of the purlin	on does no	ot depict the s	size				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	The second se
VEBS		646/181, 6-13=0/21 2=-33/492, 4-15=-98/´	170	bottom chord DAD CASE(S)							6	ATE OF M	AISSO
IOTES		been considered for									B	SCOTT	M YEN

NOTES

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



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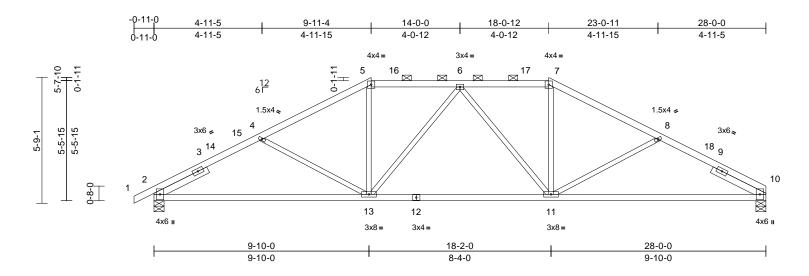
SEVIER

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A3	Нір	1	1	Job Reference (optional)	170905789

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:20 ID:G_21BsSBLP19Qk5mu5B8rhzZls_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.7

Diata Offacta (X. V):		
Figure Offsets (Λ, T) .	[2:0-3-9,0-1-5], [10:0-3-9,0-1-5]	

oading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.55	Vert(LL)	-0.25	10-11	>999	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.52	10-11	>652	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.37	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%
UMBER			2)	Wind: ASCE	7-16; Vult=115m	ph (3-sec	ond gust)						
OP CHORD	2x4 SP No.2				; TCDL=6.0psf;								
BOT CHORD	2x4 SP No.2				t. II; Exp C; Enclo			pe)					
VEBS	2x3 SPF No.2				and C-C Exterio								
SLIDER		2-8-10, Right 2x4 SP			1-0 to 9-11-4, Ex								
	No.2 2-8-10				7-0-2 to 18-0-12, rior (1) 25-1-10 to								
BRACING					exposed ; end ve			ei					
OP CHORD		athing directly applie	d or		for members an			r					
	3-5-2 oc purlins, exc				own; Lumber DO								
	2-0-0 oc purlins (4-6			DOL=1.60		- 1100 p.	ate 9.1p						
BOT CHORD	Rigid ceiling directly bracing.	applied or 2-2-0 oc	3)	Provide adeo	uate drainage to	prevent	water ponding	a .					
	0		4)		s been designed			5					
	(size) 2=0-5-8, 1		,	chord live loa	ad nonconcurrent	with any	other live loa	ds.					
	Max Horiz 2=103 (LO	,	5)	All bearings a	are assumed to b	e SP No.	2 crushing						
	Max Uplift 2=-179 (L Max Grav 2=1325 (I		n .	capacity of 5									
	,		6)		hanical connection								
ORCES	(lb) - Maximum Corr Tension	npression/Maximum		01	capable of withs	0	56 lb uplift at						
		101 A E 1004/0E0			179 lb uplift at joi		all the 0010						
OP CHORD	5-6=-1571/354, 6-7=	431, 4-5=-1834/353,	7)		designed in acco								
	7-8=-1837/350, 8-10	,			Residential Code nd referenced sta			ina					
BOT CHORD	2-13=-316/1791, 11		8)		rlin representatio			NIZO					
	10-11=-310/1798	10-200/1102,	8)		ation of the purlin			512C					
VEBS		-41/469, 6-13=-335/	137.	bottom chord								and	TOP
	6-11=-333/137, 4-13		,	AD CASE(S)								S OF M	d'sall
	8-11=-267/231	,	LC	AD GAGE(3)	Stanuaru						1	TE OF M	1,0°
OTES											6	SCOT	10XX

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



DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 12:39:28

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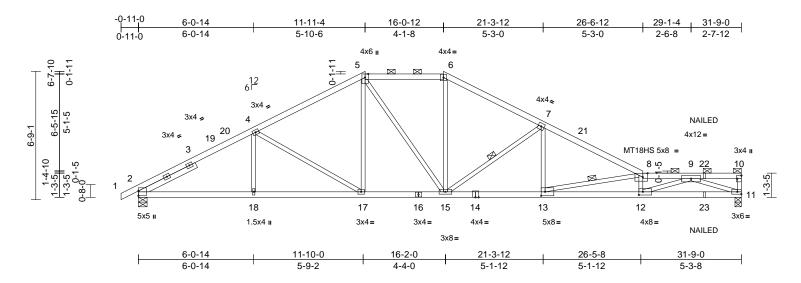
IEW

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A4	Roof Special Girder	1	1	Job Reference (optional)	170905790

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:20 ID:KbwGmAQxponRBQxOmg8gmGzZIs0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.7

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	0.91	Vert(LL)	-0.34	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.62	12-13	>614	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%

	2.0E
BOT CHORD	2x4 SP No.2 *Except* 14-11:2x4 SP 2400F
	2.0E
WEBS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 3-4-5
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals, and 2-0-0 oc purlins
	(3-2-7 max.): 5-6, 8-10.
BOT CHORD	Rigid ceiling directly applied or 9-0-0 oc
	bracing.
WEBS	1 Row at midpt 7-15, 8-13
REACTIONS	(size) 2=0-5-8, 11=0-4-0
	Max Horiz 2=125 (LC 33)
	Max Uplift 2=-208 (LC 12), 11=-224 (LC 13)
	Max Grav 2=1489 (LC 1), 11=1423 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/7, 2-4=-2480/406, 4-5=-2002/389,
	5-6=-1811/408, 6-7=-2120/417,
	7-8=-3139/523, 8-9=-5781/868,
	9-10=-139/33, 10-11=-125/44
BOT CHORD	2-18=-368/2099, 17-18=-368/2099,
	15-17=-236/1710, 13-15=-414/2758,
	12-13=-853/5684, 11-12=-550/3239
WEBS	4-18=0/245, 4-17=-481/212, 5-17=-49/351,
	5-15=-105/331, 6-15=-69/601,
	7-15=-1154/301, 9-11=-3323/561, 7-13=-42/741, 8-13=-2981/489,
	/-1.3=-4///41 8-1.3=-2981/489
	8-12=-945/212, 9-12=-368/2710

NOTES

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

- 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) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 11-11-4, Exterior(2E) 11-11-4 to 16-0-12, Éxterior(2R) 16-0-12 to 23-1-10, Interior (1) 23-1-10 to 31-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. 4) 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 11 SP 2400F 2.0E crushing capacity of 805 psi. Provide mechanical connection (by others) of truss to 7)
- bearing plate capable of withstanding 224 lb uplift at joint 11 and 208 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-5=-70, 5-6=-70, 6-8=-70, 8-10=-70, 2-11=-20



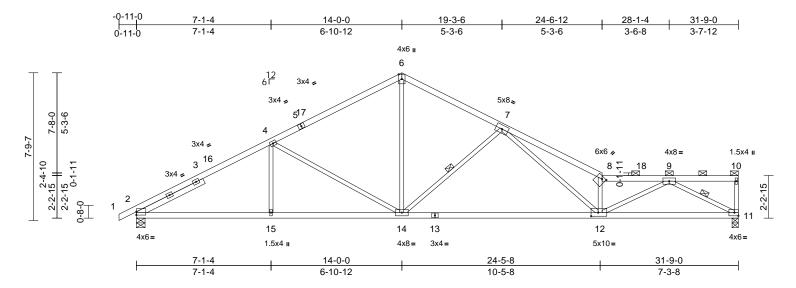
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A5	Roof Special	1	1	Job Reference (optional)	170905791

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:21 ID:ze7NjTMo_G994f3Qz7ZV3CzZls5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.8

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

				•									
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.69 0.92 0.98	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.31 -0.72 0.10	(loc) 12-14 12-14 11	l/defl >999 >530 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E No.2 2x4 SP 2400F 2.0E No.2 2x3 SPF No.2 Left 2x4 SP No.2 3 Structural wood she 3-5-10 oc purlins, e 2-0-0 oc purlins (2-7 Rigid ceiling directly bracing.	*Except* 8-10,1-5:2) *Except* 13-11:2x4 : 3-11-4 athing directly applie xcept end verticals, ; -7 max.): 8-10. applied or 2-2-0 oc 7-14, 9-11 11=0-4-0 C 9) C 12), 11=-240 (LC	2) (4 SP SP and 3) 4) 5) 13) 6)	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 4 19-3-6, Inter and right exp exposed;C-C reactions shu DOL=1.60 Provide adee This truss ha chord live loa Bearings are crushing cap capacity of 5 Provide mec bearing plate	7-16; Vult=115mp h; TCDL=6.0psf; B it. II; Exp C; Enclose e and C-C Exterior -1-0 to 14-0-0, Ext ior (1) 19-3-6 to 31 posed ; end vertica C for members and own; Lumber DOL quate drainage to as been designed f ad nonconcurrent e assumed to be: J pacity of 805 psi, Jo	CDL=6. sed; MW (2E) -0 erior(2R I-7-12 zc al left and I forces a = 1.60 pl prevent to for a 10. with any loint 2 Sl oint 11 S n (by oth anding 2	Opsf; h=35ft; FRS (envelop 11-0 to 4-1-0,) 14-0-0 to one; cantileved d right & MWFRS for ate grip water ponding D psf bottom other live loa > 2400F 2.0E SP No.2 crush ers) of truss t	r left r g. ds. ing xo					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=0/7, 2-4=-2440/ 6-7=-1825/377, 7-8= 8-9=-3973/562, 9-10 2-15=-412/2063, 14 12-14=-410/2288, 1 4-15=0/244, 4-14=-6 7-14=-984/331, 8-12 7-12=-298/2126, 9-1	404, 4-6=-1849/380, 4384/669, 0=-65/44, 10-11=-112 -15=-412/2063, 1-12=-416/2297 329/270, 6-14=-164/ ⁻ 2=-2155/410,	8) 2/48	This truss is International R802.10.2 a Graphical pu	designed in accor Residential Code nd referenced star Irlin representation ation of the purlin a d.	dance w sections ndard AN n does no	R502.11.1 a SI/TPI 1. ot depict the s					STATE OF M	AISSOLA
NOTES 1) Unbalance this design	9-11=-2584/457 ed roof live loads have										K	SEVI	ER X

this design.



January 22,2025

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PE-200101880

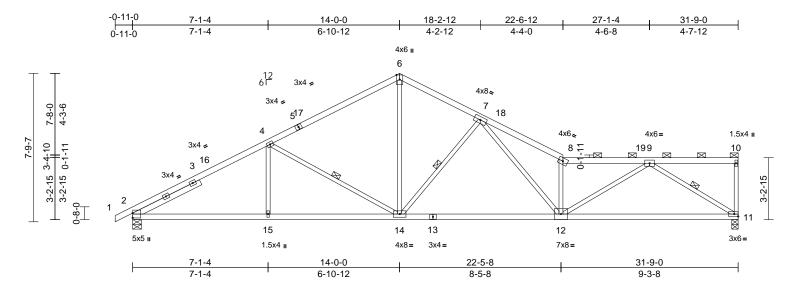
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A6	Roof Special	1	1	Job Reference (optional)	170905792

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:21 ID:ze7NjTMo_G994f3Qz7ZV3CzZls5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:60.4

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	0.68	Vert(LL)	-0.23	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.93	Vert(CT)	-0.51	11-12	>744	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.69	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 145 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2 *Excep	N# 5 6.2v4 SD 24005	2)		7-16; Vult=115r n; TCDL=6.0psf;								
TOP CHORD	2.0E	JL 5-0.2X4 SP 2400F			t. II; Exp C; Encl			pe)					
BOT CHORD					and C-C Exteri								
WEBS	2x3 SPF No.2				-1-0 to 14-0-0, E								
SLIDER	Left 2x4 SP No.2 3	3-11-4			ior (1) 19-0-0 to			er left					
BRACING					osed ; end verti								
TOP CHORD	Structural wood she	athing directly applie	ed or		for members a			r					
	2-8-10 oc purlins, e	except end verticals,	and		own; Lumber DC	DL=1.60 pla	ate grip						
	2-0-0 oc purlins (2-1		2)	DOL=1.60	unata duala ana t			~					
BOT CHORD	0 0 7	applied or 2-2-0 oc	3)	 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom 									
	bracing.		4)	chord live load nonconcurrent with any other live loads.									
WEBS		4-14, 9-11, 7-14	5)		are assumed to			103.					
REACTIONS	(0)	capacity of 5			2 or dorning						
	Max Horiz 2=192 (LO	,	6)		hanical connecti	ion (bv oth	ers) of truss t	to					
	Max Uplift 2=-225 (L				capable of with								
	Max Grav 2=1489 (I	<i>//</i>	1)	joint 11 and	225 lb uplift at jo	oint 2.							
FORCES	(lb) - Maximum Corr Tension	npression/Maximum	7)		designed in acc Residential Coc			nd					
TOP CHORD		398 4-6=-1834/384			nd referenced st			inu					
	6-7=-1786/382, 7-8=	, ,	8)		rlin representati			eize					
	8-9=-3130/480, 9-10	,	4/57		ation of the purli			5120					
BOT CHORD				bottom chore		. along the							
	12-14=-410/2106, 1	,	1.0	DAD CASE(S)									
WEBS	4-15=0/284, 4-14=-6	651/261, 6-14=-189/ [.]	1159, Ľ		otandaru							000	TO
	8-12=-1795/350, 9-1	12=-146/1475,										THE OF M	Ale al
	9-11=-2210/427, 7-1	14=-903/275,										FIE	-0.0 M
	7-12=-217/1528										6	SI	NSY
NOTES											8	S SCOT	M. YEY

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



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January 22,2025

NUMBER PE-2001018807

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Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A7	Roof Special	1	1	Job Reference (optional)	170905793

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:21 ID:ze7NjTMo_G994f3Qz7ZV3CzZls5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-1-4 14-0-0 20-6-12 26-0-10 31-9-0 7-1-4 6-10-12 6-6-12 5-5-14 5-8-6 4x6= 6 12 61 3x4 🞜 4-4-10 7-8-0 0-1-11 3-3-6 3x4 🧔 4x8 👟 ₅16 17 4x4= 3x4 и 7 등 8 18 ⊠ 9 4 7-9-7 3x4 💋 2 15 3 4-2-15 4-2-15 4-2-15 0-8-0 10 ĕ 14 13 12 11 5x5 ı 4x4 = 1.5x4 **"** 4x8= 4x4= 4x4= 14-0-0 23-8-8 31-9-0 7-1-4 7-1-4 6-10-12 9-8-8 8-0-8

Scale = 1:60.4

Plate Offsets (X, Y): [9:Edge,0-2-8]

	(;;; ;): [0:=ago;o = 0]												
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.98	Vert(LL)	-0.21		>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	1.00	Vert(CT)	-0.48	11-13	>799	180		
BCLL	0.0	Rep Stress Incr	YES		WB	1.00	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-S							Weight: 143 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-16; Vult=115m	h (3-se	cond quet)						
TOP CHORD	2x4 SP No.2 *Excep	nt* 6-7·2v4 SP 2400F	,		h; TCDL=6.0psf; B								
	2.0E	1 0 7.224 01 24001			at. II; Exp C; Enclos			pe)					
BOT CHORD	2x4 SP No.2				e and C-C Exterior								
WEBS	2x3 SPF No.2				-1-0 to 14-0-0, Ext								
SLIDER	Left 2x4 SP No.2 3	3-11-4		19-0-0, Inter	ior (1) 19-0-0 to 31	l-7-12 z	, one; cantileve	er left					
BRACING				and right exp	oosed ; end vertica	al left an	d right						
TOP CHORD	Structural wood she	athing directly applie	h	exposed;C-0	C for members and	forces	& MWFRS for	r					
	except end verticals			reactions sh	own; Lumber DOL	=1.60 pl	ate grip						
	(3-7-6 max.): 7-9.	, and 2 0 0 00 putiti	0	DOL=1.60									
BOT CHORD	```	applied or 1-4-12 or	3)		quate drainage to			g.					
	bracing.		4)		as been designed f								
WEBS	1 Row at midpt	7-13, 8-10			ad nonconcurrent			ids.					
REACTIONS	(size) 2=0-5-8, 2	10=0-4-0	5)		are assumed to be	e SP No	.2 crushing						
	Max Horiz 2=223 (L0		•	capacity of 5									
	Max Uplift 2=-225 (L		13) ⁶⁾		hanical connection								
	Max Grav 2=1489 (L				e capable of withst 225 lb uplift at join		251 ID UPIIIT at	C C					
FORCES	(lb) - Maximum Com	pression/Maximum	7)		designed in accor		ith the 2018						
	Tension		• • • •		Residential Code			and					
TOP CHORD	1-2=0/7, 2-4=-2448/	403, 4-6=-1844/386,			nd referenced star								
	6-7=-1839/359, 7-8=	-2140/359, 8-9=-95/	90, 8)	Graphical pu	Irlin representation	does n	ot depict the s	size					
	9-10=-165/71		,		ation of the purlin a								
BOT CHORD	2-14=-518/2071, 13-	-14=-518/2071,		bottom chore	d.	0	•					~	
	11-13=-510/2560, 10	0-11=-354/1705	LC	DAD CASE(S)	Standard							A	and
WEBS	4-14=0/268, 4-13=-6		1088,									B & OF I	MISS W
	7-13=-1184/296, 7-1	,									1	9 22	N'ON
	8-11=-50/849, 8-10=	-2065/370									8	STATE OF M	M NON
NOTES											R		
1) Unbalance	ed roof live loads have	been considered for									2	SEVI	

 Unbalanced roof live loads have been considered fo this design.



DEVELOPMENT: SERVICES LEE'S'SUMMIT: MISSOURI 02/04/2025 12:39:29

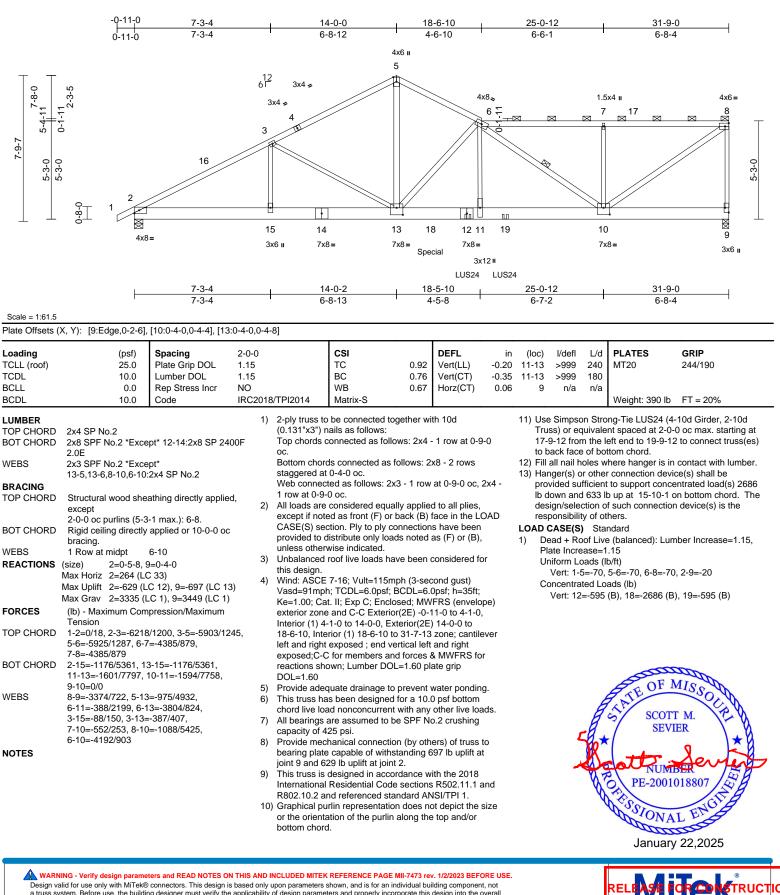
Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A8	Roof Special Girder	1	2	Job Reference (optional)	170905794

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:21 ID:ze7NjTMo_6994f3Qz7ZV3CzZls5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ouckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/ITPI1 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 - HM Lot 158	
P250045-01	A9	Common	1	1	Job Reference (optional)	170905795

7-1-4

7-1-4

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

7-8-0 7-9-7

0-8-0

-0-11-0 0-11-0

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:22 ID:ze7NjTMo_G994f3Qz7ZV3CzZls5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

14-0-0

6-10-12

15-8-8

1-8-8 4x4 = 6

4x6 👟 7

6-9-12

0-2-8 H



12 61 12 5x8 🗸 45 3x4 ≠ 11 3 3x4 -8 10 9 3x4 II 4x4 II 1.5x4 u 5x8= 7-1-4 14-0-0 15-8-8 7-1-4 6-10-12 1-8-8

|--|

Plate Offsets (X, Y): [4:0-1-8,0-3-0]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
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	0.68	Vert(LL)	-0.06	2-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.50	Vert(CT)	-0.13	2-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.43	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Left 2x4 SP No.2 - : Structural wood she	3-11-4	6) 2 7)	Provide med bearing plate joint 2 and 1 This truss is International	ler(s) for truss to t chanical connection e capable of withs 62 lb uplift at join designed in acco I Residential Codu and referenced sta	on (by oth standing 1 It 8. ordance w e sections	ers) of truss t 38 lb uplift at th the 2018 R502.11.1 a	t					
	5-7-3 oc purlins, ex	cept end verticals.	LO	AD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 8-7-5 oc											
WEBS	1 Row at midpt	5-9											
	(size) 2=0-5-8, 8 Max Horiz 2=306 (LC Max Uplift 2=-138 (L Max Grav 2=766 (LC	.C 12), 8=-162 (LC 1	12)										
ORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/7, 2-5=-987/2 6-7=-257/216, 7-8=-												
BOT CHORD WEBS	2-10=-466/793, 9-10 7-9=-344/662, 6-9=- 5-9=-734/337)=-466/793, 8-9=-13											
NOTES													m
this design 2) Wind: ASC Vasd=91m Ke=1.00; (ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelo	pe)									STATE OF I	MISSOLUTI M.

- Interior (1) 4-1-0 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.

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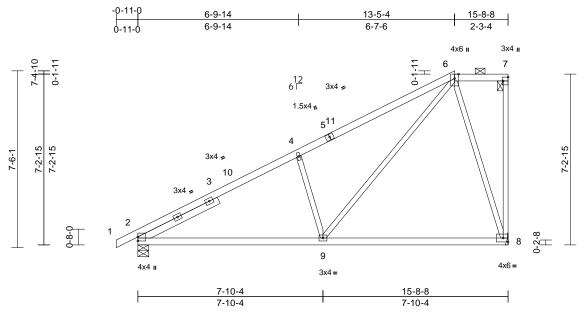


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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A10	Half Hip	1	1	Job Reference (optional)	170905796

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:22 ID:KbwGmAQxponRBQxOmg8gmGzZls0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.9 Plate Offsets (X, Y): [7:Edge.0-2-8]

	X, Y): [7:Edge,0-2-8]											-	
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-S	0.67 0.64 0.84	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.20 0.01	(loc) 8-9 8-9 8	l/defl >999 >959 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2	eathing directly appli- coept end verticals, a)-0 max.): 6-7. v applied or 8-3-6 oc 8= Mechanical C 9) LC 12), 8=-150 (LC 1	7) 8) and 9)	Provide med bearing plate joint 8 and 1 This truss is International R802.10.2 a Graphical pu		ion (by oth istanding 1 nt 2. ordance wi de sections andard AN on does no	ers) of truss 50 lb uplift a th the 2018 R502.11.1 a SI/TPI 1. t depict the s	t and					
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/7, 2-4=-992/2 6-7=-147/156, 7-8=-	npression/Maximum 272, 4-6=-871/363,											
BOT CHORD WEBS		-220/257	435										
this design 2) Wind: ASC Vasd=91rr Ke=1.00; (exterior zo Interior (1) zone; cant and right e	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-0 to 13-5-4, Exter tillever left and right ex exposed;C-C for memt or reactions shown; Lu	n (3-second gust) DL=6.0psf; h=35ft; bd; MWFRS (envelog 2E) -0-11-0 to 4-1-0, rior(2E) 13-5-4 to 15 posed ; end vertical bers and forces &	pe) 5-7-4 left								A STATE	STATE OF SEV SEV	BER CONLA

- 3) Provide adequate drainage to prevent water ponding. 4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.

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January 22,2025

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A11	Half Hip	1	1	Job Reference (optional)	170905797

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:22



ID:iE7omhTHYFDSJ3GLc2tqB?yf3Od-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 15-8-8 -0-11-0 0-11-0 7-0-14 13-11-4 7-0-14 1-9-4 6-10-6 3x6 II 6x6 = 7 0-1-11 6 0-1-1 12 6 3x4 🖌 5 3x4 🧔 4 7-5-15 7-5-15 7-5-15 7-9-1 3x4 🞜 10 3 3x4 🧔 0-8-0 8

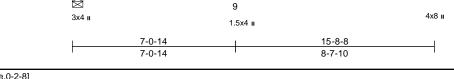


Plate Offsets (X, Y): [2:0-2-1,0-0-5], [7:Edge,0-2-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.16	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.32	8-9	>587	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x3 SPF No.2 Left 2x4 SP No.2 3-11-0 Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. Rigid ceiling directly applied or 8-9-0 oc bracing. 1 Row at midpt 4-8	5) 6) 7) 8) 9) LO	Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi. Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 8 and 138 lb uplift at joint 2. 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. AD CASE(S) Standard
	Max Horiz 2=022 (LC 0) Max Uplift 2=-138 (LC 12), 8=-160 (LC 12) Max Grav 2=768 (LC 1), 8=700 (LC 1)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/7, 2-4=-1004/203, 4-6=-240/138, 6-7=-153/162, 7-8=-77/84		
BOT CHORD	2-9=-400/807, 8-9=-400/807		
WEBS	4-9=0/372, 4-8=-806/273, 6-8=-315/326		

NOTES

Scale = 1:50

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 13-11-4, Exterior(2E) 13-11-4 to 15-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3) 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.



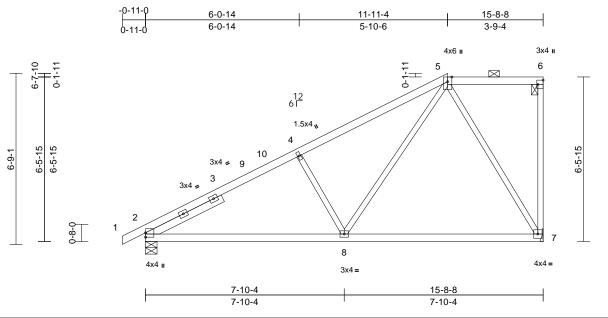
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with 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 - HM Lot 158	
P250045-01	A12	Half Hip	1	1	Job Reference (optional)	170905798

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:23 ID:D2ZQZLSfnx5bhvh82LMbenyf3Oe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.5 Plate Offsets (X, Y): [6:Edge,0-2-8]

	(X, T). [0.Luge,0-2-0]												
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.54	Vert(LL)	-0.09	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.64	Vert(CT)	-0.19	7-8	>976	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.79	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%
LUMBER			6)		er(s) for truss to tr								
TOP CHORD			7)		hanical connection								
BOT CHORD					capable of withst		30 lb uplift at	t					
WEBS	2x3 SPF No.2	2.4.0	8)		41 lb uplift at joint designed in accore		ith the 2018						
SLIDER	Left 2x4 SP No.2 3	3-4-6	0)		Residential Code			and					
BRACING TOP CHORD	Otwork weeks and all all a	- the internal internal in the second in			nd referenced star								
TOP CHORD	 Structural wood she 5-7-1 oc purlins, ex 			Graphical pu	Irlin representation	does no	ot depict the s	size					
	2-0-0 oc purlins (6-0		inu ,	or the orient	ation of the purlin a	along the	top and/or						
BOT CHORD		,	с	bottom chore	d.								
	bracing.		L	DAD CASE(S)	Standard								
REACTIONS	(size) 2=0-5-8, 7	7= Mechanical											
	Max Horiz 2=277 (LC												
	Max Uplift 2=-141 (L		9)										
	Max Grav 2=768 (LC												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD		236. 4-5=-821/258.											
	5-6=-133/140, 6-7=-												
BOT CHORD	2-8=-464/828, 7-8=-	254/337											
WEBS	4-8=-373/272, 5-8=-	144/607, 5-7=-616/3	336										
NOTES													
,	ced roof live loads have	been considered fo	r									000	an
this desig	,	(a										OF I	MISSIN
	CE 7-16; Vult=115mph											TEOFI	-05°
	mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose		ne)								A	122	
	one and C-C Exterior(2										A	SCOT	
	I) 4-1-0 to 11-11-4, Exte										L.	SEV.	
	one; cantilever left and r										8		P. W. Tran
	eft and right exposed;C-											and,	server
	MWFRS for reactions s	hown; Lumber									R-4	NUM	BER A

- DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3) This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. 5) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.

January 22,2025

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ΤΙΟΝ 'IEW DEVELORMENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 12:39:29

ſ	Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
1	P250045-01	A13	Half Hip	1	1	Job Reference (optional)	170905799

-0-11-0 0-11-0

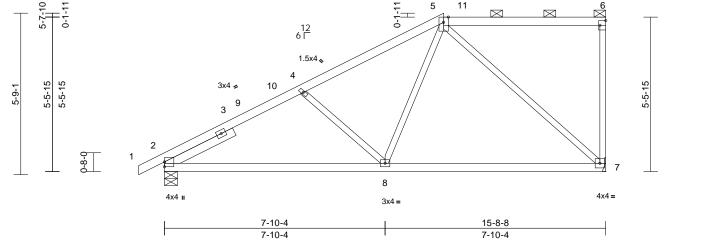
4-11-5

4-11-5

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:23 ID:D2ZQZLSfnx5bhvh82LMbenyf3Oe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

9-11-4 15-8-8 4-11-15 5-9-4 4x6 II 3x4 II 5 0-1-11 11 6 \square \bowtie



Scale = 1:41

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

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	3/TPI2014	CSI TC BC WB Matrix-S	0.60 0.64 0.98	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.19 0.02	(loc) 7-8 7-8 7	l/defl >999 >998 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 20%
LUMBER 50 Refer to girder(s) for truss to truss connections. TOP CHORD 2x4 SP No.2 70 BOT CHORD 2x4 SP No.2 70 VEBS 2x3 SPF No.2 70 SLIDER Left 2x4 SP No.2 2-8-12 80 BRACING This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. 80 TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purfins, except end verticals, and 2-0·0 oc purfins (6-0-0 max.): 5-6. 80 Graphical purfin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 90 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. REACTIONS (size) 2=0-5-8, 7= Mechanical Max Horiz 2=233 (LC 9) LOAD CASE(S) Standard													
REACTIONS	(size) 2=0-5-8, 7	C 9) .C 12), 7=-138 (LC 9	9)										
FORCES	(lb) - Maximum Com Tension												
TOP CHORD BOT CHORD WEBS	5-6=-118/122, 6-7=-	190/117 301/499	41										
NOTES	0 0 10, 110, 0 1 0	00,001,10 200,2	••										
 Unbalance this design Wind: ASC Vasd=91n Ke=1.00; exterior zc 	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-0 to 9-11-4, Exter	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0,	pe)									STATE OF I	MISSOLIAL T. M. HER

zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding. 3) This truss has been designed for a 10.0 psf bottom 4)

chord live load nonconcurrent with any other live loads. 5) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.



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TION 'IEW DEVELORMENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 12:39:29

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A14	Half Hip	1	1	Job Reference (optional)	170905800

7-11-4

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

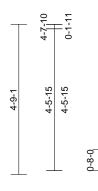
-0-11-0

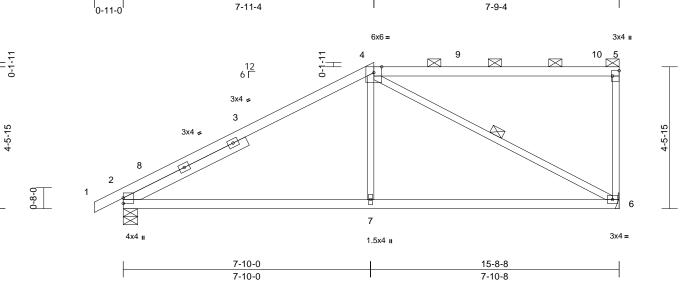
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:23 ID:D2ZQZLSfnx5bhvh82LMbenyf3Oe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-8-8



Page: 1





Scale = 1:36.5 Plate Offsets (X, Y): [5:Edge,0-2-8]

	(x, i): [0:Edg0;0 2 0]	-				-							
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.94	DEFL Vert(LL)	in -0.09	(loc) 6-7	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.65	Vert(CT)	-0.18	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.58	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/	I PI2014	Matrix-S	-						Weight: 70 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2.0E 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 4	4-4-2 athing directly applie	ed,	capacity of 5 Refer to gird Provide mec bearing plate joint 6 and 12 This truss is International R802.10.2 a	er(s) for truss to t hanical connection capable of withs 29 lb uplift at joint designed in acco Residential Code nd referenced sta	russ conr on (by oth standing 1 t 2. rdance w e sections undard AN	nections. ers) of truss 44 lb uplift a ith the 2018 \$ R502.11.1 a ISI/TPI 1.	to t					
BOT CHORD	(6-0-0 max.): 4-5.		9)	or the orienta bottom chore				size					
WEBS REACTIONS	WEBS 1 Row at midpt 4-6 LOAD CASE(S) Standard												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD		21, 4-5=-106/105,											
BOT CHORD WEBS													
NOTES												OFI	ALC D
 Unbalance this design 	ed roof live loads have	been considered for	r								1	TATE OF I	UISSO ST
2) Wind: ASC Vasd=91n Ke=1.00; exterior zc Interior (1) Interior (1) right expo for membe	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2)) 4-1-0 to 7-11-4, Exter) 15-0-2 to 15-7-4 zone used; end vertical left a ers and forces & MWFT	DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, ior(2R) 7-11-4 to 155 e; cantilever left and ind right exposed;C-1 RS for reactions sho	-0-2, C							، ر		SCOT SEVI NUM PE-2001	ER BER

Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

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

January 22,2025

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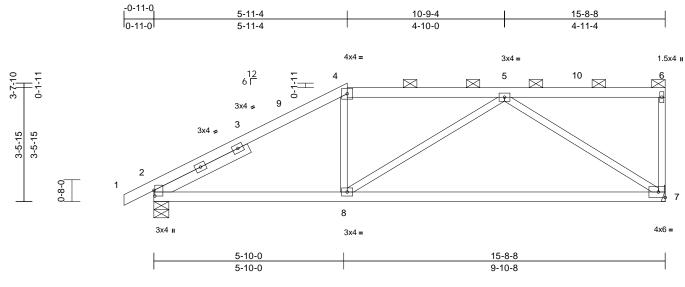
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A15	Half Hip	1	1	Job Reference (optional)	170905801

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:23 ID:EAi548wfOnb7X_8I5F_EI4yf2jQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

3-5-15



Scale = 1:35.4

3-9-1

Plate Offsets (X, Y): [2:0-2-1,0-0-5]

Plate Offsets (X, Y): [2:0-2-1,0-0-5										-	
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.44 0.86 0.72	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.53 0.02	(loc) 7-8 7-8 7	l/defl >702 >350 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 20%
5-5-10 oc purlins, 2-0-0 oc purlins (6- Rigid ceiling directl bracing. REACTIONS (size) 2=0-5-8, Max Horiz 2=144 (I Max Uplift 2=-113 (Max Grav 2=768 (I FORCES (Ib) - Maximum Con Tension	eathing directly applied except end verticals, an -0-0 max.): 4-6. y applied or 10-0-0 oc 7= Mechanical _C 9) LC 12), 7=-148 (LC 9) _C 1), 7=700 (LC 1) mpression/Maximum 7/246, 4-5=-857/268, 42/80 =-298/740 244, 5-7=-854/310 e been considered for h (3-second gust) CDL=6.0psf; h=35ft; ed; MWFRS (envelope) [2E) -0-11-0 to 4-1-0, erior(2R) 5-11-4 to 13-0- re; cantilever left and and right exposed; C-C FRS for reactions showr OL=1.60 prevent water ponding. or a 10.0 psf bottom vith any other live loads.	 7) Provide med bearing plat joint 7 and 1 8) This truss is Internationa R802.10.2 a d 9) Graphical pt or the orient bottom chor LOAD CASE(S) 		(by oth inding 1 ance w sections dard AN does no	ers) of truss t 48 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	ind		£		SCOT SEV SEV Cot NUM PE-2001	IER DER 018807

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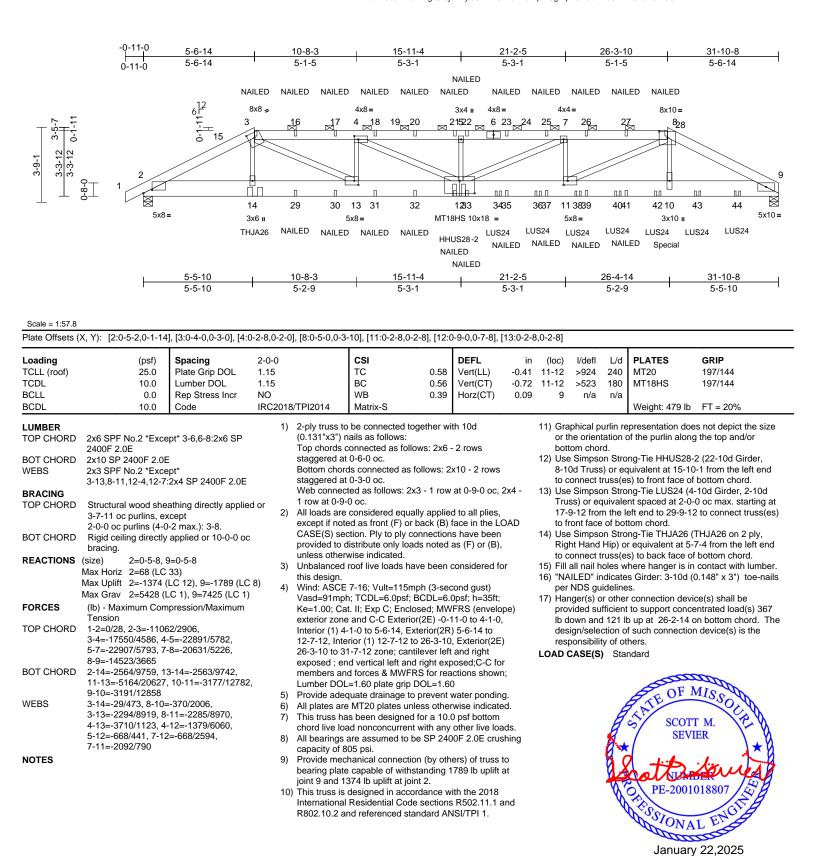
RELEASE ICROMETRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT SERVICES LEE'S SUMMIT'S MISSOURI 02/04/2025 12:39:30

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A16	Hip Girder	1	2	Job Reference (optional)	170905802

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:24 ID:a?NJc3WncTktnga6ruymLryf3OZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	A16	Hip Girder	1	2	Job Reference (optional)	170905802

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-8=-70, 8-9=-70, 2-9=-20 Concentrated Loads (lb)

- Vert: 3=-118 (B), 14=-367 (B), 10=-367 (B), 8=-118
- (B), 12=-3314 (F=-3278, B=-35), 16=-118 (B),
- 17=-118 (B), 18=-118 (B), 20=-118 (B), 21=-118 (B), 22=-118 (B), 23=-118 (B), 25=-118 (B), 26=-118 (B),

- $\begin{array}{l} \text{22-116} & (\text{B}), \text{22-116} & (\text{B}),$

44=-597 (F)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:24 ID:a?NJc3WncTktnga6ruymLryf3OZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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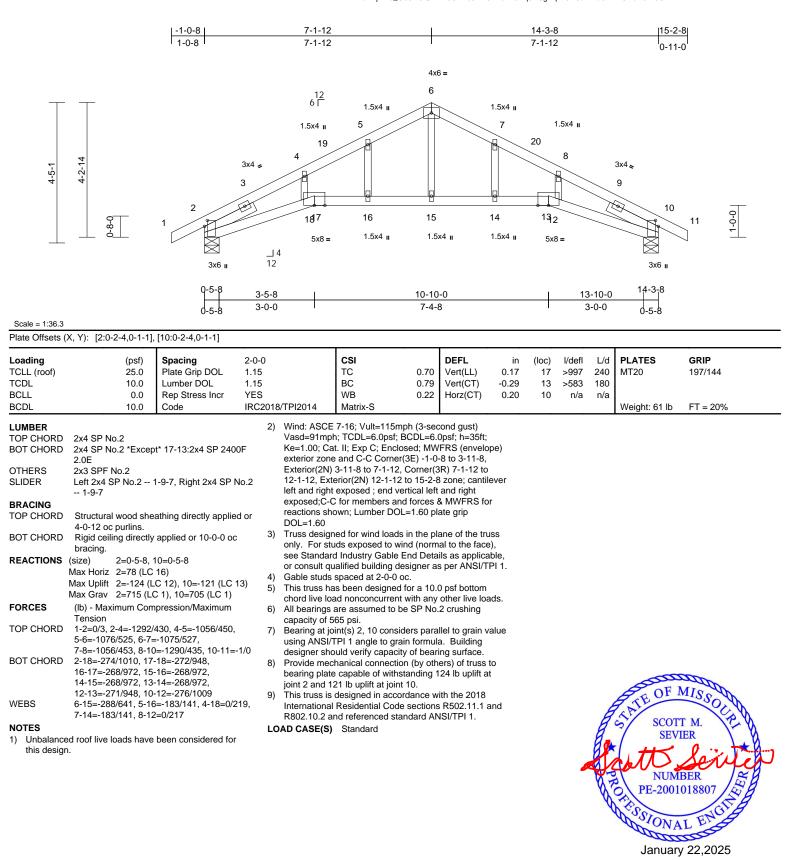
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	B1	Roof Special	1	1	Job Reference (optional)	170905803

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 21 09:55:25 ID:ze7NjTMo_G994f3Qz7ZV3CzZls5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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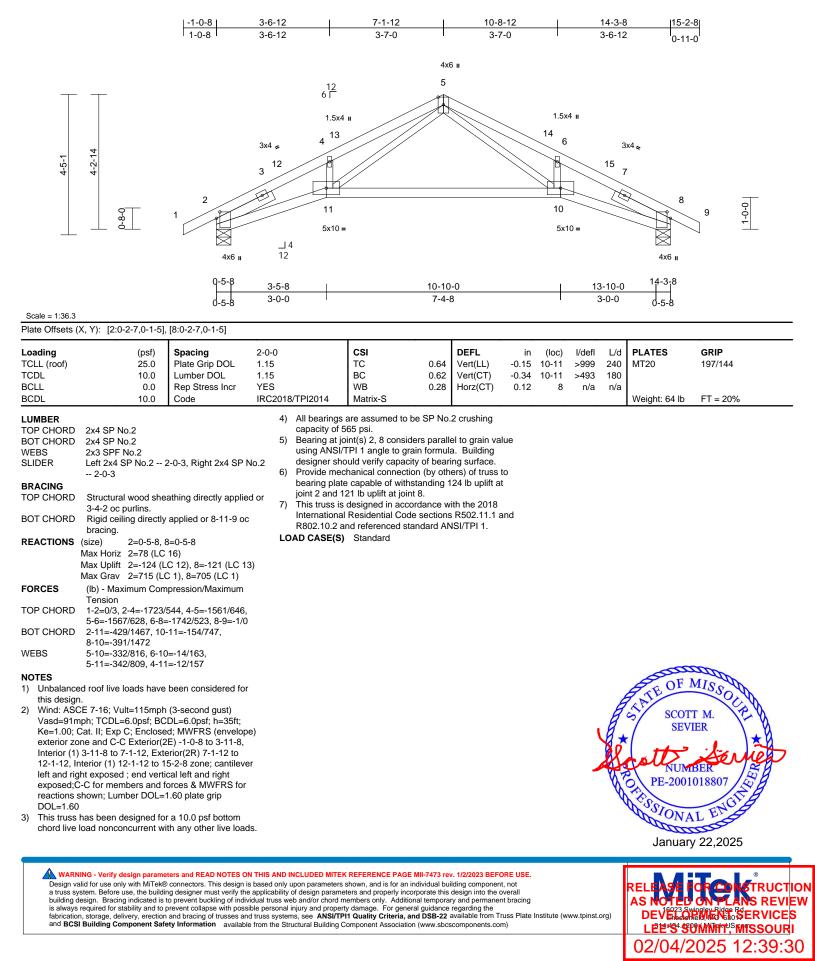
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a trust system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	B2	Roof Special	1	1	Job Reference (optional)	170905804

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:25 ID:RqhlwoNQIZH0ipedXq4kbQzZls4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

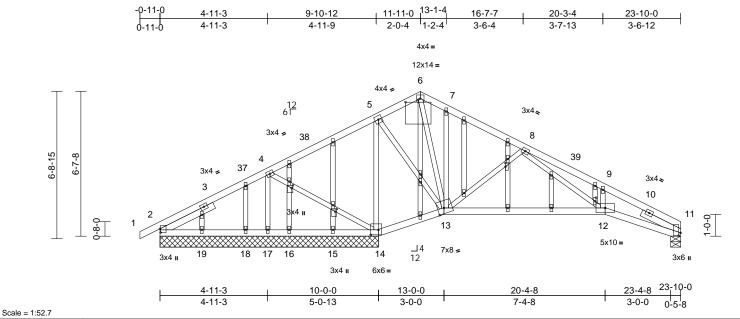
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	170905805

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:25 ID:RqhlwoNQIZH0ipedXq4kbQzZIs4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Dioto Offooto (V. V)	[2:0-2-1,0-0-5], [6:0-7-0,0-1-7], [11:0-1-8,0-1-1], [13:0-3-8,0-3-0], [14:0-4-4,0-2-12], [22:0-1-7,0-0-12], [24:0-1-7,0-0-12], [32:0-2-0,Edg	
Fiale Olisels (A. T)	12.0-2-1.0-0-31.10.0-7-0.0-1-71.111.0-1-0.0-1-11.113.0-3-0.0-3-01.114.0-4-4.0-2-121.122.0-1-7.0-0-121.124.0-1-7.0-0-121.132.0-2-0.E00	el. 133.0-2-0.0-0-01

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl		PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.12	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.25	12-13	>654	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No.2

NOTES

2)

- Unbalanced roof live loads have been considered for this design.
- BOT CHORD 2x4 SP No.2 2x3 SPF No.2 WEBS OTHERS 2x3 SPF No 2 SLIDER Left 2x4 SP No.2 -- 2-8-10, Right 2x4 SP No.2 -- 2-0-3 BRACING TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13,11-12. **REACTIONS** (size) 2=10-0-0, 11=0-5-8, 14=10-0-0, 15=10-0-0, 16=10-0-0, 17=10-0-0, 18=10-0-0, 19=10-0-0 Max Horiz 2=-122 (LC 13) 2=-71 (LC 12), 11=-92 (LC 13), Max Uplift 14=-222 (LC 13), 17=-208 (LC 26), 19=-4 (LC 12) Max Grav 2=218 (LC 25), 11=412 (LC 1), 14=1495 (LC 1), 15=87 (LC 3), 16=66 (LC 3), 17=131 (LC 25), 18=60 (LC 3), 19=106 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/7, 2-4=-113/249, 4-5=-28/634, 5-6=-11/144, 6-7=0/169, 7-8=0/220, 8-9=-927/264, 9-11=-1028/170 BOT CHORD 2-19=-195/103, 18-19=-195/103, 17-18=-195/103, 16-17=-195/103 15-16=-195/103, 14-15=-195/103, 13-14=-570/240, 12-13=-1/240, 11-12=-90/854 WEBS 5-14=-1055/189, 5-13=-26/692, 6-13=-127/0, 7-13=-210/140, 9-12=-85/143, 8-13=-476/200, 8-12=-155/726, 4-14=-458/173, 4-17=-114/221
- 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) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 11-11-0, Exterior(2R) 11-11-0 to 16-9-0, Interior (1) 16-9-0 to 23-8-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- DOL=1.60
 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 11, 71 lb uplift at joint 2, 222 lb uplift at joint 14, 208 lb uplift at joint 17 and 4 lb uplift at joint 19.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

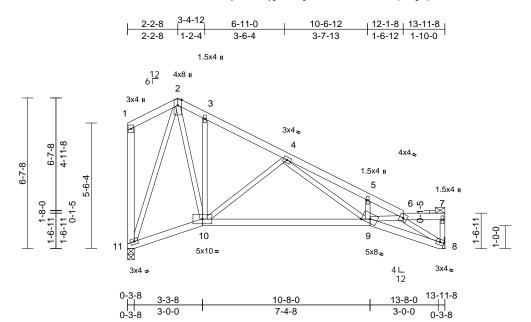


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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C2	Roof Special	1	1	Job Reference (optional)	170905806

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Scale = 1:50.7

Plate Offsets (X, Y): [9:0-4-3,Edge]

												1	
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.26 0.55 0.65	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.24 0.06	(loc) 9-10 9-10 8	l/defl >999 >676 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 77 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 *Exce Structural wood she 4-6-10 oc purlins, e 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing.	athing directly applic xcept end verticals, I-0 max.): 6-7.	ed or 7 and	chord live loa Bearings are capacity of 5 Refer to gird Bearing at jo using ANSI/ designer sho Provide meo bearing plate	as been designee ad nonconcurrer e assumed to be: 65 psi. er(s) for truss to int(s) 11 conside TPI 1 angle to gr puld verify capac ihanical connect hanical connect e capable of with 26 lb uplift at joir	t with any Joint 11 S truss conr ers parallel rain formula ity of beari ion (by oth ustanding 1	other live loa SP No.2 crus lections. to grain valu a. Building ng surface. ers) of truss	hing ue to					
	(size) 8= Mecha Max Horiz 11=-247 (Max Uplift 8=-104 (L Max Grav 8=617 (LC	.C 13), 11=-126 (LC	,) This truss is International R802.10.2 a	designed in according Residential Coord nd referenced st	ordance w de sections andard AN	R502.11.1 a ISI/TPI 1.						
FORCES	(lb) - Maximum Com Tension				Irlin representation ation of the purlir			5120					
TOP CHORD	1-2=-157/188, 2-3=- 4-5=-1557/518, 5-6= 7-8=-88/43, 1-11=-1	-1561/447, 6-7=-39		OAD CASE(S)									
BOT CHORD	10-11=-92/308, 9-10 8-9=-378/1164												
WEBS	2-10=-226/666, 3-10 5-9=-118/117, 6-9=- 2-11=-617/234, 4-10	55/273, 6-8=-1376/4										- COLOR	all
NOTES 1) Unbalance this design	ed roof live loads have										Å	TATE OF I	No. Y

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) 0-1-12 to 2-2-8, Exterior(2R) 2-2-8 to 7-0-8, Interior (1) 7-0-8 to 13-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.



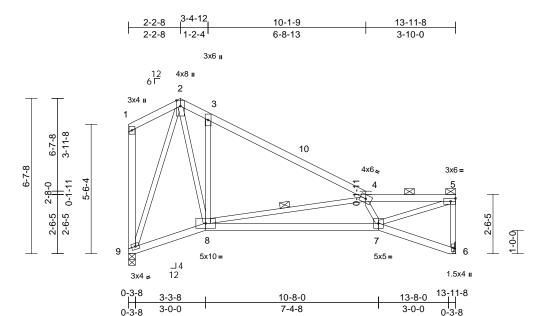
Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C3	Roof Special	1	1	Job Reference (optional)	170905807

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 21 09:55:26 ID:ZKzgfFXahZwAmo77o3pnd9zZlrt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Scale = 1:49.2												
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	0.64	Vert(LL)	-0.12	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.27	7-8	>601	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%
LUMBER TOP CHORD 23	<4 SP No.2 <4 SP No.2	1	6) Refer to gire7) Bearing at j		ers parallel t	o grain value	9					

WEBS	2x3 SPF I	No.2 *Except* 9-1:2x4 SP No.2
BRACING		
TOP CHORD		wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals, and
	2-0-0 oc p	ourlins (5-0-9 max.): 4-5.
BOT CHORD	Rigid ceil	ng directly applied or 7-8-13 oc
	bracing.	
WEBS	1 Row at	midpt 4-8
REACTIONS	(size)	6= Mechanical, 9=0-3-8
	Max Horiz	9=-243 (LC 8)
	Max Uplift	6=-111 (LC 13), 9=-119 (LC 13)
	Max Grav	6=617 (LC 1), 9=617 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	-

	101301
TOP CHORD	1-2=-159/189, 2-3=-542/386, 3-4=-532/221,
	4-5=-1260/387, 5-6=-592/220, 1-9=-131/158
BOT CHORD	8-9=-117/312, 7-8=-553/1423, 6-7=-47/60
WEBS	2-8=-415/916 3-8=-532/472 4-8=-1053/390

4-7=-406/249, 5-7=-444/1336, 2-9=-612/223 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) 0-1-12 to 2-2-8, Exterior(2R) 2-2-8 to 7-2-8, Interior (1) 7-2-8 to 13-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3) This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 9 SP No.2 crushing 5) capacity of 565 psi.

- designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 111 lb uplift at joint 6 and 119 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



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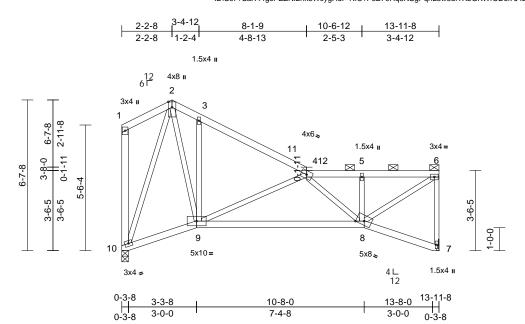
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Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C4	Roof Special	1	1	Job Reference (optional)	170905808

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Scale = 1:50.7

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.31 0.56 0.64	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.21 0.04	(loc) 8-9 8-9 7	l/defl >999 >767 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 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 *Exce Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 7= Mecha Max Horiz 10=-239 (, athing directly applie cept end verticals, a -0 max.): 4-6. applied or 8-7-1 oc inical, 10=0-3-8	ed or nd 8) 9)	capacity of 5 Refer to gird Bearing at jc using ANSI/ designer sho Provide mec bearing plate joint 7 and 1 This truss is International R802.10.2 a	er(s) for truss to t int(s) 10 conside TPI 1 angle to graci hanical connection a capable of withs 07 lb uplift at join designed in acco Residential Code nd referenced sta	truss conr ers paralle ain formul ty of bear on (by oth standing 1 t 10. ordance w e sections andard AN	hections. I to grain value a. Building ing surface. ers) of truss 23 lb uplift a ith the 2018 5 R502.11.1 a ISI/TPI 1.	ue to t					
FORCES	Max Uplift 7=-123 (L Max Grav 7=617 (LC (lb) - Maximum Com Tension 1-2=-158/189, 2-3=- 4-5=-730/236, 5-6=-	C 13), 10=-107 (LC C 1), 10=617 (LC 1) pression/Maximum 455/334, 3-4=-470/2	13) Lo 231,					size					
BOT CHORD WEBS	1-10=-128/154 9-10=-175/314, 8-9= 2-9=-325/753, 3-9=- 4-8=-217/165, 5-8=- 2-10=-612/234	448/885, 7-8=-70/8 309/295, 4-9=-588/2	81 262,										
this design 2) Wind: ASC Vasd=91m	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose	(3-second gust) DL=6.0psf; h=35ft;								,		STATE OF SCOT	MISSOLUTION

- 2 exterior zone and C-C Exterior(2E) 0-1-12 to 2-2-8, Exterior(2R) 2-2-8 to 7-2-8, Interior (1) 7-2-8 to 13-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads.



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C5	Roof Special	1	1	Job Reference (optional)	170905809

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2-8-13

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

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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) 0-1-12 to 6-1-9, Interior (1) 6-1-9 to 11-9-9, Exterior(2E) 11-9-9 to 13-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.



6

SCOTT M.

SEVIER

NUMBER

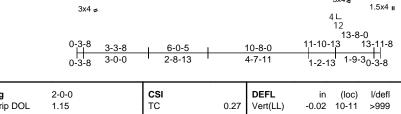
PE-200101880

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 12:39:30

TION

ΊFW

 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)



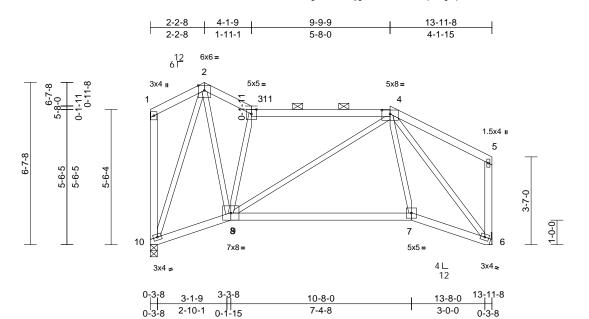
11

3x4 =

		1			1								
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.27	Vert(LL)	-0.02	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.22	Vert(CT)	-0.05	10-11	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.62	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 90 lb	FT = 20%
UMBER			4)	This truss ha	as been designed	d for a 10.0) psf bottom			-			
OP CHORD	2x4 SP No.2		,		ad nonconcurren			ads.					
BOT CHORD	2x4 SP No.2		5)	Bearings are	assumed to be:	Joint 13 S	SP No.2 crus	hing					
NEBS	2x3 SPF No.2 *Exce	ept* 13-1,8-7:2x4 SF	P No.2	capacity of 5	65 psi.								
BRACING			6)		er(s) for truss to								
FOP CHORD	Structural wood she	athing directly appli	ed or 7)		oint(s) 13 conside			Je					
	6-0-0 oc purlins, ex				TPI 1 angle to gra								
	2-0-0 oc purlins (6-0				ould verify capaci								
BOT CHORD	Rigid ceiling directly	applied or 9-8-12 o	oc 8)		hanical connecti								
	bracing.				e capable of with		24 lb uplift a	t					
REACTIONS	(size) 8= Mecha	anical, 13=0-3-8	0		05 lb uplift at joir								
	Max Horiz 13=-239 ((LC 8)	9)		designed in acco Residential Cod			ام مر م					
	Max Uplift 8=-124 (L	C 13), 13=-105 (LC	: 13)		nd referenced st			anu					
	Max Grav 8=615 (LC	C 1), 13=615 (LC 1)	. 1(Ind representation			cizo					
ORCES	(lb) - Maximum Corr	pression/Maximum			ation of the purlir			5120					
	Tension			bottom chore		r along the							
OP CHORD	1-2=-158/187, 2-3=-	380/307, 3-4=-417/2	265. 1	DAD CASE(S)									
	4-5=-656/324, 5-6=-	497/246, 6-7=-342/	127,		Stanuaru								
	1-13=-127/152, 7-8=	-602/280											
BOT CHORD	12-13=-191/313, 11	-12=-367/653,											
	10-11=-299/504, 9-1	10=-200/315, 8-9=-7	71/78										
VEBS	2-12=-288/622, 3-12	2=-112/109,											
	4-12=-515/207, 4-11	I=-35/106, 5-11=-88	3/205,										
	5-10=-424/270, 6-10	,											
	6-9=-451/250, 2-13=	=-596/210, 7-9=-233	3/484									Sun	alle
OTES												FOF I	MISS
) Inhalanco	d roof live loads have	been considered fo	\r									HAV	- SO W

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C6	Roof Special	1	1	Job Reference (optional)	170905810

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:26 ID:PcPJH8nKbdCVgXKl8dcSkYygHsd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale =	1.47 1

Plate Offsets (X, Y): [4:0-4-0,0-1-15]

Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.55 0.53	DEFL Vert(LL) Vert(CT)	in -0.11 -0.23	(loc) 7-8 7-8	l/defl >999 >707	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL	0.0	Rep Stress Incr	YES		WB	0.33	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code		8/TPI2014	Matrix-S	0.02	11012(01)	0.00		1.70		Weight: 84 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, exc	athing directly applicept end verticals, a	ed or	capacity of 5 Refer to gird Bearing at jo using ANSI/ designer sho Provide mec	e assumed to be: , i65 psi. er(s) for truss to t int(s) 10 consider FPI 1 angle to gra buld verify capacit shanical connectic e capable of withs	russ conr s paralle in formul y of bear n (by oth	nections. I to grain valu a. Building ing surface. ers) of truss	ue to					
BOT CHORD REACTIONS	2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 6= Mecha Max Horiz 10=-239 (applied or 10-0-0 o nical, 10=0-3-8	9	joint 10 and This truss is International R802.10.2 a	124 lb uplift at joir designed in acco Residential Code nd referenced sta urlin representatio	nt 6. rdance w sections ndard AN	ith the 2018 8 R502.11.1 a NSI/TPI 1.	and					
	Max Uplift 6=-124 (L Max Grav 6=615 (LC		13)	or the orienta	ation of the purlin			3126					
FORCES	(lb) - Maximum Com Tension	,, , ,		bottom chore OAD CASE(S)									
TOP CHORD	1-2=-157/189, 2-3=- 4-5=-120/155, 1-10=												
BOT CHORD	9-10=-188/334, 8-9= 6-7=-279/529	-154/306, 7-8=-263	8/433,										
WEBS	2-9=-322/695, 3-8=- 4-7=-10/358, 2-10=-	,	,										
NOTES													an
 Unbalance this design 	ed roof live loads have n.	been considered fo	or									TE OF I	MISS
2) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)									1	2	N.V.

- 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) 0-1-12 to 4-1-9, Interior (1) 4-1-9 to 9-9-9, Exterior(2E) 9-9-9 to 13-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

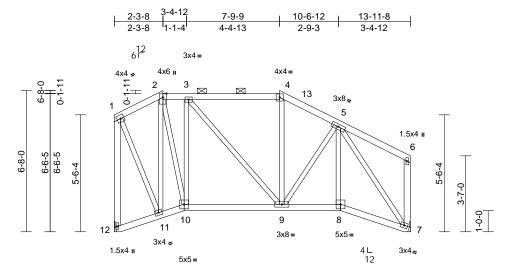
SCOTT M. SEVIER NUMBER PE-2001018807 January 22,2025

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/TPH Claulity Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C7	Нір	1	1	Job Reference (optional)	170905811

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:26 ID:PcPJH8nKbdCVgXKI8dcSkYygHsd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale	_	1:54.3
Scale	=	1:54.3

WEBS

BRACING

BOT CHORD

TOP CHORD

BOT CHORD

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	9-10	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	9-10	>999	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	7	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 94
LUMBER TOP CHORD	2x4 SP No.2		, 0	der(s) for truss to chanical connec			to				

bearing plate capable of withstanding 87 lb uplift at joint

7 and 102 lb uplift at joint 12.

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

R802.10.2 and referenced standard ANSI/TPI 1.

- 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

REACTIONS (size) 7= Mechanical, 12= Mechanical Max Horiz 12=-239 (LC 8) Max Uplift 7=-87 (LC 13), 12=-102 (LC 8) Max Grav 7=615 (LC 1), 12=615 (LC 1) FORCES (lb) - Maximum Compression/Maximum

5-7=-711/300

bracing

2x4 SP No.2

Tension TOP CHORD 1-2=-280/227, 2-3=-317/255, 3-4=-411/251, 4-5=-494/257, 5-6=-118/143, 1-12=-606/260, 6-7=-113/124

2x3 SPF No.2 *Except* 12-1,7-6:2x4 SP No.2

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and

Rigid ceiling directly applied or 10-0-0 oc

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

11-12=-285/358, 10-11=-165/313, BOT CHORD 9-10=-201/370, 8-9=-217/396, 7-8=-232/427 WEBS 2-11=-443/194, 2-10=-182/521, 3-10=-425/280, 3-9=-148/186, 4-9=-44/70. 5-9=-51/118, 5-8=-32/180, 1-11=-153/482,

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



GRIP

94 lb

197/144

FT = 20%

Page: 1

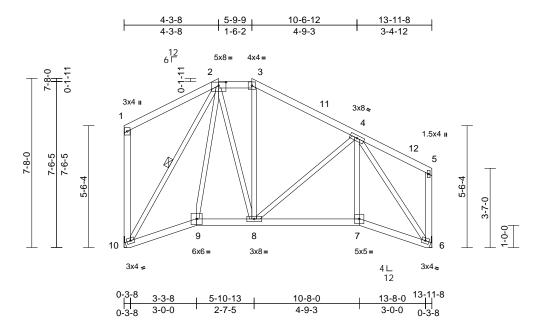
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a trust system. Before use,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

TION LEE'S'SUMMIT'SMISSOURI 02/04/2025 12:39:31

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C8	Hip	1	1	Job Reference (optional)	170905812

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:27 ID:PcPJH8nKbdCVgXKI8dcSkYygHsd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.3

Plate Offsets (X, Y): [2:0-4-0,0-1-15]

	() () () () () () () () () () () () () (1											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/	TPI2014	CSI TC BC WB Matrix-S	0.29 0.21 0.63	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.05 0.02	(loc) 7-8 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a		GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x3 SPF No.2 *Exce 6-0-0 oc purlins, ex 2-0-0 oc purlins, (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 6= Mecha Max Horiz 10=-250 (Max Uplift 6=-96 (LC Max Grav 6=615 (LC (lb) - Maximum Com Tension 1-2=-170/208, 2-3=- 4-5=-108/124, 1-10=	athing directly applie cept end verticals, a -0 max.): 2-3. applied or 10-0-0 or 2-10 unical, 10= Mechanic LC 8) 2 13), 10=-95 (LC 12 C 1), 10=-95 (LC 12 C 1), 10=615 (LC 1) upression/Maximum 344/251, 3-4=-459/2 =-154/178, 5-6=-92/6 =-165/333, 7-8=-220, 19/255, 3-8=-76/72,	5) 5) 5) 6d or 7) 6 8) 6 246, 16 246, 16 417,	chord live loa Refer to girde Provide mec bearing plate 6 and 95 lb u This truss is International R802.10.2 an Graphical pu		with any russ conr in (by oth tanding 9 rdance w e sections ndard AN n does no	other live loa nections. ers) of truss 6 lb uplift at 16 the 2018 17 R502.11.1 at 18 I/TPI 1. 10 depict the s	to joint and				5000	
this desig 2) Wind: AS Vasd=91r Ke=1.00; exterior z Exterior(2	eed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 R) 5-9-9 to 12-10-7, In one; cantilever left and	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-1-12 to 5-9-9, terior (1) 12-10-7 to										STATE OF J	MISSOUR T.M. HER Server

forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

vertical left and right exposed;C-C for members and

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



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PE-2001018800

ONAL

January 22,2025

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	C10	Roof Special Girder	1	2	Job Reference (optional)	170905813

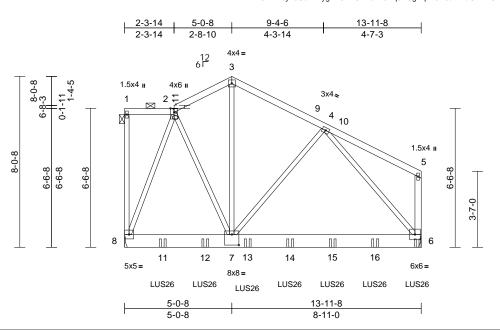
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:27 ID:PWFk?XtWwmJZmA9yh0UumWygHZ8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 02/04/2025 12:39:31

ΤΙΟΝ 'IEW

January 22,2025



Scale = 1:54.2

Plate Offsets (X, Y): [7:0-4-0,0-6-0]

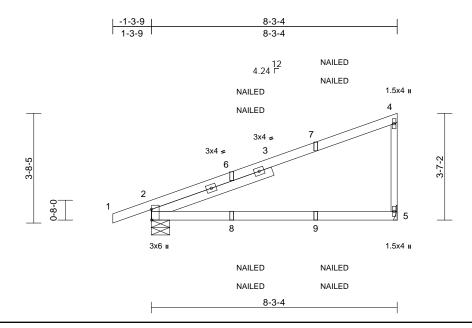
	-				-							1	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.46	Vert(LL)	-0.11	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.21	6-7	>784	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.57	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S							Weight: 183 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x8 SPF No.2 2x3 SPF No.2 *Exce 6-0-0 oc purlins, ex 2-0-0 oc purlins, (6-0 Rigid ceiling directly bracing. (size) 6= Mecha Max Horiz 8=-278 (L Max Uplift 6=-705 (L Max Grav 6=3298 (I	, athing directly applied cept end verticals, an -0 max.): 1-2. applied or 10-0-0 oc nical, 8= Mechanical C 8) C 13), 8=-621 (LC 12 .C 1), 8=2706 (LC 1)	4) d or d 5) 6) 2) 8)	Wind: ASCE Vasd=91mpf Ke=1.00; Cat exterior zone Interior (1) 2- Interior (1) 10 right exposec for members Lumber DOL Provide adeo This truss ha chord live loa Refer to girde Provide med	7-16; Vult=115mph ; TCDL=6.0psf; BC . II; Exp C; Enclose and C-C Exterior(3-14 to 5-0-8, Exter)-0-8 to 13-9-12 zoo 1; end vertical left a and forces & MWF =1.60 plate grip DC uate drainage to p s been designed for d nonconcurrent w er(s) for truss to tru nanical connection capable of withsta	CDL=6. ed; MW 2E) 0-1 rior(2R ne; can and righ RS for DL=1.60 revent or a 10. vith any ss conr (by oth	Dpsf; h=35ft; FRS (envelo 4 to 2-3-14,) 5-0-8 to 100- tilever left an it exposed;C reactions shi) water pondin 0 psf bottom other live loa eections.	-0-8, ad C own; g. ads. to					
FORCES	(lb) - Maximum Com	pression/Maximum)5 lb uplift at joint 6		ith the 2019						
TOP CHORD BOT CHORD WEBS	Tension 9) This trues is designed in accordance with the 2018 TOP CHORD 1-8=-86/80, 1-2=-126/136, 2-3=-1748/562, 3-4=-1782/563, 4-5=-213/169, 5-6=-212/136 9) This trues is designed in accordance with the 2018 BOT CHORD 7-8=-294/875, 6-7=-416/1243 10) Graphical purlin representation does not depict the size												
(0.131"x3 Top chorc oc, 2x4 - Bottom ch staggered Web conr 2) All loads a except if r CASE(S) provided t unless oth	s to be connected toge ") nails as follows: Is connected as follows 1 row at 0-9-0 oc. nords connected as foll 1 at 0-9-0 oc. nected as follows: 2x3 - are considered equally noted as front (F) or ba section. Ply to ply conr to distribute only loads nerwise indicated. ed roof live loads have	5: 2x3 - 1 row at 0-9-0 ows: 2x8 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ nections have been noted as (F) or (B),	11) 12) LOA 1)	Truss, Single oc max. start connect truss Fill all nail ho AD CASE(S) Dead + Roo Plate Increa Uniform Loc Vert: 1-2 Concentrate Vert: 6=-0	Strong-Tie LUS26 Ply Girder) or equing at 1-9-8 from the (es) to back face of les where hanger is Standard of Live (balanced): I se=1.15	ivalent ne left e of botton s in cor Lumber 70, 6- 3), 12=-	spaced at 2- nd to 13-9-8 n chord. ttact with lurr Increase=1. 3=-20 680 (B), 13=	0-0 to nber. 15,			Y	STATE OF M SCOTT SEVI PE-20010 PE-20010	ER 018807

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	CG1	Diagonal Hip Girder	2	1	Job Reference (optional)	170905814

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:27 ID:ooUezWRZa6vIoaWaKNfvITzZIs?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8

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

	(, 1). [2.0 1 0,20g0]											
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.94 0.53	DEFL Vert(LL) Vert(CT)	in -0.22 -0.43	(loc) 2-5 2-5	l/defl >454 >227	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		FT 000/
BCDL	10.0	Code	IRC2018/TPI2	2014 Matrix-P							Weight: 36 lb	FT = 20%
BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS (2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E 2x3 SPF No.2 Left 2x4 SP No.2 4 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-7-6, 5 Max Horiz 2=158 (LC Max Uplift 2=-155 (L Max Grav 2=488 (LC	athing directly applie cept end verticals. applied or 10-0-0 oc i= Mechanical C 9) C 8), 5=-140 (LC 12	per 8) In th of th LOAD C 1) De ed or Pla Un	ILED" indicates Girder: 3 NDS guidelines. INDS guidelines. INDS guidelines. INDS guidelines. INDS guidelines. INDS guidelines (SASE(S) Standard ad + Roof Live (balanced the Increase=1.15 iform Loads (Ib/ft) Vert: 1-4=-70, 2-5=-20 Incentrated Loads (Ib) Vert: 7=-52 (F=-26, B=-20)	n, loads a _l t (F) or ba d): Lumber	oplied to the ck (B). Increase=1.	face 15,					
FORCES	(Ib) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-2=0/6, 2-4=-210/1	12 4-5314/343										
	2-5=-67/73	12, 4 0= 014/040										
NOTES												
Vasd=91mp Ke=1.00; Ca exterior zon Exterior(2R) exposed ; e members an Lumber DO 2) This truss h chord live lo 3) Bearings an crushing ca 4) Refer to giro 5) Provide met	E 7-16; Vult=115mph bh; TCDL=6.0psf; BC at. II; Exp C; Enclose ne and C-C Corner (3)) 5-9-5 to 8-2-0 zone; and vertical left and rig nd forces & MWFRS DL=1.60 plate grip DO has been designed for bad nonconcurrent with re assumed to be: Joi pacity of 805 psi. der(s) for truss to trus chanical connection (te capable of withstar	DL=6.0psf; h=35ft; d; MWFRS (envelop)-1-3-9 to 5-9-5, cantilever left and ri ht exposed;C-C for for reactions shown; L=1.60 a 10.0 psf bottom th any other live load nt 2 SP 2400F 2.0E s connections. by others) of truss to	ight ds.						ζ		STATE OF J SCOT SEV DE TUN PE-2001	ier Servier

- 2 3
- 4
- 5 joint 5 and 155 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.



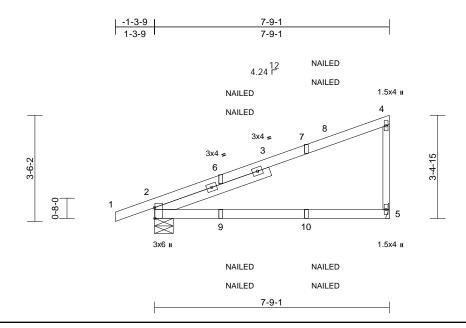
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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		Ply	Roof - HM Lot 158		
P250045-01	CG2	Diagonal Hip Girder	2	1	Job Reference (optional)	170905815	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:27 ID:AQhB_1UvJYMJwDrXAmO3kCyf3Oc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.1

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

- 1010 0110010 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.77 0.96 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.46 0.00	(loc) 2-5 2-5 5	l/defl >403 >201 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 34 lb	GRIP 197/144 FT = 20%
	10.0	Code			-						Weight. 04 lb	11 - 2070
	2x4 SP 2400F 2.0E 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 4 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-7-6, 5 Max Horiz 2=150 (LC Max Uplift 2=-148 (L	athing directly appli cept end verticals. ¹ applied or 6-10-8 o 5= Mechanical C 9)	ed or by c by c by c by c by c by c by c by c by c c c c c c c c c c c c c c	indicates Girder: 3- guidelines. AD CASE(S) section ss are noted as from (S) Standard Roof Live (balanced crease=1.15 Loads (lb/ft) 1-4=-70, 2-5=-20 rated Loads (lb) 7=-24 (F=-12, B=-12)	n, loads a t (F) or ba l): Lumber	pplied to the f ck (B).	face 15,					
	Max Grav 2=455 (L0	, , ,										
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=0/6, 2-4=-200/1 2-5=-63/69											
NOTES												
Vasd=91n Ke=1.00; (exterior zo Exterior(21 right expos for membe	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 R) 5-9-5 to 7-7-13 zon- sed; end vertical left a ers and forces & MWF OL=1.60 plate grip DC	DL=6.0psf; h=35ft; d; MWFRS (envelo) -1-3-9 to 5-9-5, e; cantilever left and and right exposed;C RS for reactions sho	-C							B	STATE OF	MISSOUP
2) This truss	has been designed fo	r a 10.0 psf bottom								B	SEV	
	load nonconcurrent wi									Bos		
 Bearings a capacity o 	are assumed to be: Joi f 565 psi	int 2 SP No.2 crushi	ing									X > 17
	i 565 psi. irder(s) for truss to trus	ss connections.							-		NUM	Sund
5) Provide m	echanical connection	(by others) of truss t								87	PE-2001	
	ate capable of withstar I 148 lb uplift at joint 2.		t							V.	The loss	

5 and 148 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.

January 22,2025

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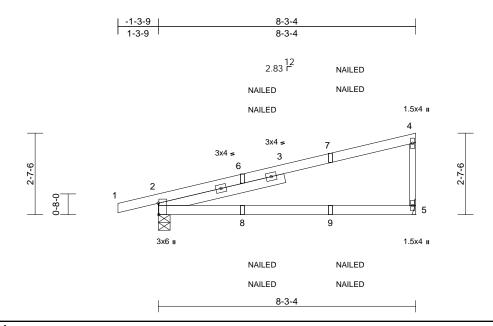
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158		
P250045-01	CG3	Diagonal Hip Girder	2	1	Job Reference (optional)	170905816	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:27 ID:ooUezWRZa6vIoaWaKNfvITzZIs?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale =	1:37
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Plate Offsets (X, Y): [2:0-4-6,Edge]

	(, .). [=											
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	0.93	Vert(LL)	-0.22	2-5	>454	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P							Weight: 35 lb	FT = 20%
LUMBER			7) "NAILE	D" indicates Girder: 3	3-10d (0.14	8" x 3") toe-	nails					
TOP CHORD	2x4 SP 2400F 2.0E			S guidelines.								
BOT CHORD				OAD CASE(S) section			face					
WEBS	2x3 SPF No.2			russ are noted as fror	nt (F) or ba	ck (B).						
SLIDER	Left 2x4 SP No.2	4-1-15		SE(S) Standard								
BRACING			·	+ Roof Live (balanced	d): Lumber	Increase=1.	15,					
TOP CHORD				Increase=1.15								
DOTOLODD	6-0-0 oc purlins, ex			rm Loads (lb/ft) rt: 1-4=-70, 2-5=-20								
BOT CHORD		applied or 10-0-0 d		entrated Loads (lb)								
DEACTIONS	bracing.	- March		t: 7=-52 (F=-26, B=-2	6) 010 (E10 B1	n					
REACTIONS	()	5= Mechanical	ve.	1. 7=-52 (1 =-20, D=-2	0), 3=-13 (Г <u>—</u> -10, <u>В</u> 1	0)					
	Max Horiz 2=103 (Lo		2)									
	Max Uplift 2=-152 (L Max Grav 2=488 (L0		2)									
FORCES	(lb) - Maximum Corr	,, , ,										
FORCES	Tension	ipression/iviaximum	I									
TOP CHORD		32. 4-5=-314/305										
BOT CHORD		,										
NOTES												
	CE 7-16; Vult=115mph	(3-second gust)										
	nph; TCDL=6.0psf; BC											
Ke=1.00;	Cat. II; Exp C; Enclose	d; MWFRS (envelo	pe)									
	one and C-C Corner (3										000	The
	R) 5-9-5 to 8-2-0 zone										P. OF	MIC
	end vertical left and ri										BIE	000
	and forces & MWFRS		ז;							6	TATE OF	N SY
	OL=1.60 plate grip DC has been designed fo									B	SCOT	TM. Yor Y
	load nonconcurrent w		ade							B	SEV	IER \ Y
	are assumed to be: Jo									2*	d.	1*1
	capacity of 805 psi.									8	(b) Les	· · · ·
4) Refer to g	irder(s) for truss to trus	ss connections.								0	Call	South
5) Provide m	nechanical connection	(by others) of truss	to							117	PE-2001	010007 199
	late capable of withsta	nding 114 lb uplift at	t joint							N	PE-2001	010001 SA
	2 lb uplift at joint 2.									Y	100	ENGI
This truss	is designed in accorda	ance with the 2018								2	NºSIG-	ENA

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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January 22,2025

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158		
P250045-01	CG4	Diagonal Hip Girder	1	1	Job Reference (optional)	170905817	

5-5-5 5-5-5

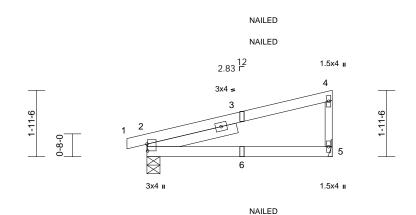
-0-7-

1 0-7-1

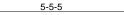
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:28 ID:ooUezWRZa6vIoaWaKNfvITzZIs?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:33.9

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

	(j :): [<u>=:0</u> = 0;0 0 0]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB 4 Matrix-P	0.74 0.39 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.10 0.00	2-5 >	999 2 657 1	/d PLATES 40 MT20 80 Veight: 23 lb	GRIP 197/144 FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 : Structural wood she 5-5-5 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-4-9, § Max Horiz 2=69 (LC Max Uplift 2=-76 (LC Max Grav 2=284 (LC	athing directly appli cept end verticals. applied or 10-0-0 o 5= Mechanical 28) 2 8), 5=-57 (LC 12)	ed or Plate Unifor	D" indicates Girder: 3 S guidelines. OAD CASE(S) sectio uss are noted as fron E(S) Standard + Roof Live (balanced ncrease=1.15 m Loads (lb/ft) t: 1-4=-70, 2-5=-20	n, loads a it (F) or ba	oplied to the fack (B).	ace				
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=-15/0, 2-4=-98/6	pression/Maximum									
BOT CHORD	2-5=-34/36										
NOTES											
Vasd=91m Ke=1.00; C exterior zoi and right e exposed;C	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Zat. II; Exp C; Enclose ne and C-C Corner (3 xposed ; end vertical -C for members and f thown; Lumber DOL=	DL=6.0psf; h=35ft; d; MWFRS (envelop) zone; cantilever le left and right orces & MWFRS for	ft							STATE OF	MISSOLA
	has been designed fo								ł		
	oad nonconcurrent wi								~		
 Bearings a capacity of 	re assumed to be: Joi	Int 2 SP NO.2 Crushi	ing							A the	X
	rder(s) for truss to trus	s connections.							-	NUM	BER SH
5) Provide me bearing pla	echanical connection ate capable of withstar	(by others) of truss t							Y		1018807 E
	in designed in second	anao with the 2019								W Son	U.A

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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)



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January 22,2025

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	G1	Common Supported Gable	1	1	Job Reference (optional)	170905818

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

REACTIONS (size)

bracing.

Max Grav

Tension

Max Horiz 2=69 (LC 12)

Structural wood sheathing directly applied or

2=20-0-0, 14=20-0-0, 15=20-0-0,

16=20-0-0, 17=20-0-0, 18=20-0-0,

19=20-0-0, 20=20-0-0, 21=20-0-0,

16=-46 (LC 9), 17=-50 (LC 9),

18=-52 (LC 13), 20=-53 (LC 12),

21=-49 (LC 12), 22=-49 (LC 8),

15=193 (LC 26), 16=177 (LC 1),

17=179 (LC 1), 18=190 (LC 26),

19=158 (LC 1), 20=191 (LC 25),

21=176 (LC 1), 22=180 (LC 1),

2=166 (LC 1), 14=75 (LC 1),

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

22=20-0-0, 23=20-0-0

Max Uplift 2=-44 (LC 8), 15=-64 (LC 13),

23=-61 (LC 12)

23=176 (LC 25)

1-2=-4/0. 2-4=-92/43. 4-5=-57/61.

(lb) - Maximum Compression/Maximum

5-6=-39/95, 6-7=-51/133, 7-8=-64/172,

8-9=-64/168, 9-10=-51/118, 10-11=-39/70,

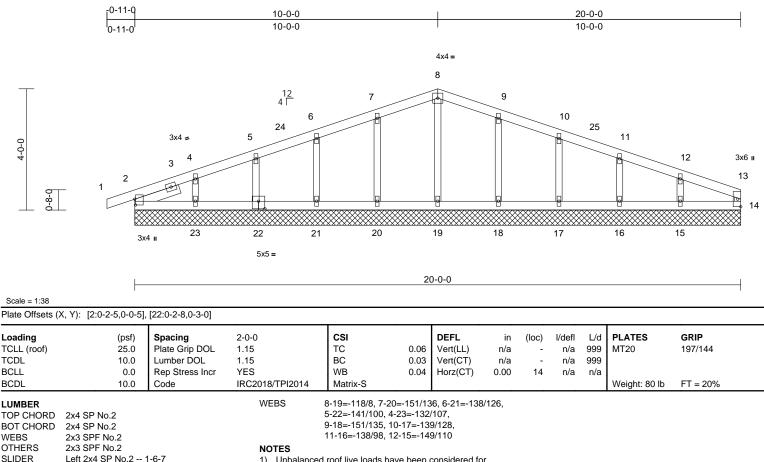
11-12=-37/31, 12-13=-43/14, 13-14=-60/24

19-20=-13/49, 18-19=-13/49, 17-18=-13/49,

16-17=-13/49, 15-16=-13/49, 14-15=-13/49

2-23=-9/45, 21-23=-13/49, 20-21=-13/49,

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-0-0, Exterior(2N) 4-0-0 to 10-0-0, Corner(3R) 10-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 19-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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.
 All plates are 1.5x4 MT20 unless otherwise indicated.
- All plates are 1.5x4 M120 unless otherwise indica
 Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.8) All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.9) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 44 lb uplift at joint 2, 53 lb uplift at joint 20, 49 lb uplift at joint 21, 49 lb uplift at joint 22, 61 lb uplift at joint 23, 52 lb uplift at joint 18, 50 lb uplift at joint 17, 46 lb uplift at joint 16 and 64 lb uplift at joint 15.
- 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

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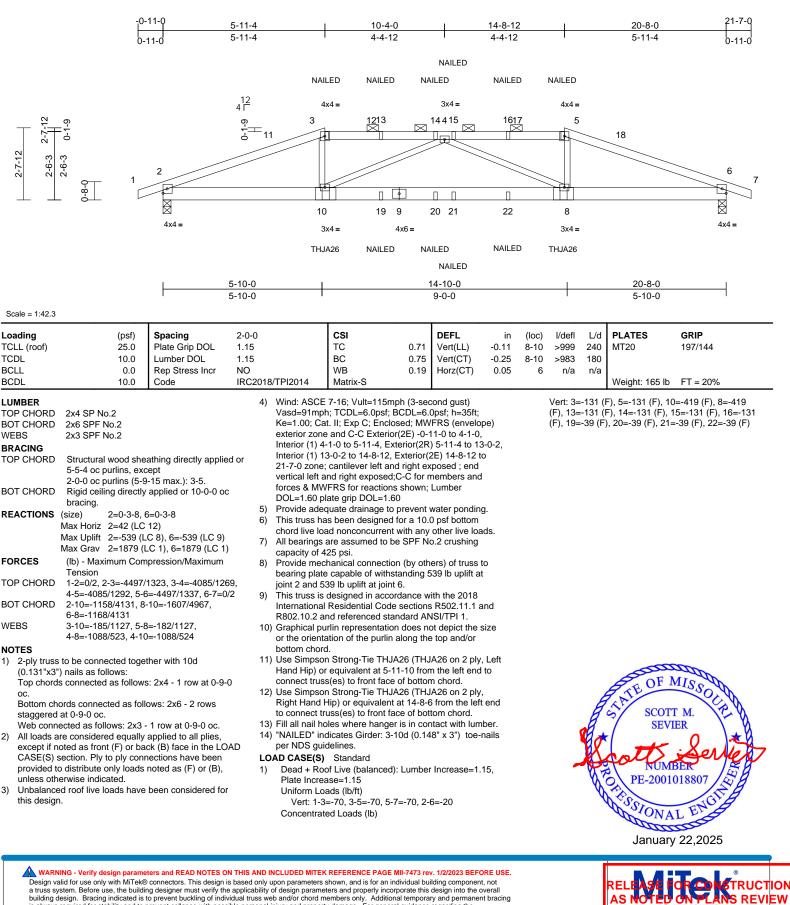


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	H1	Hip Girder	1	2	Job Reference (optional)	170905819

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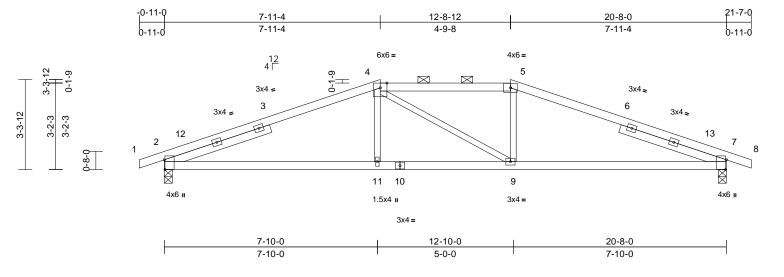


a trust system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection 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 - HM Lot 158	
P250045-01	H2	Нір	1	1	Job Reference (optional)	70905820

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:28 ID:cyrwEZVKAygSWV_kgemJYkzZIrv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

Plate Offsets (X, V):	[2:0-4-5.Edge]. [7:0-4-5.Edge]
Flate Olisets (A. T).	[Z.0-4-5,Euge], [7.0-4-5,Euge]

Plate Offsets (X, Y): [2:0-4-5,Edge], [7:0-4-5,Edge]										
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Spacing2-0-Plate Grip DOL1.11Lumber DOL1.11Rep Stress IncrYESCodeIRC	5	CSI TC 0.8 BC 0.6 WB 0.1 Matrix-S 0.1	8 Vert(CT)	in -0.12 -0.26 0.05	(loc) 2-11 2-11 7	l/defl >999 >971 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 87 lb	GRIP 197/144 FT = 20%
4-1-2 BRACING TOP CHORD Structural wood shear except 2-0-0 oc purlins (4-3- BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 2=0-3-8, 7 Max Horiz 2=54 (LC Max Uplift 2=-222 (LC	applied or 8-5-13 oc '=0-3-8 12) C 8), 7=-222 (LC 9)	 chord live loa All bearings capacity of 5 Provide mec bearing plate joint 2 and 22 This truss is International R802.10.2 au Graphical put 	hanical connection (by c a capable of withstandin 22 lb uplift at joint 7. designed in accordance Residential Code sectio nd referenced standard arlin representation does ation of the purlin along d.	ny other live loa lo.2 crushing thers) of truss i g 222 lb uplift at with the 2018 ons R502.11.1 a ANSI/TPI 1. not depict the s	to t					
Max Grav $2=994$ (LCFORCES(lb) - Maximum Comp TensionTOP CHORD $1-2=-4/0, 2-4=-1789/600, 7-8=$ BOT CHORD $2-11=-450/1600, 9-11$ $7-9=-464/1600$ WEBS $4-11=0/261, 4-9=-203$ NOTES1)Unbalanced roof live loads have I this design.2)Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCI Ke=1.00; Cat. II; Exp C; Enclosec exterior zone and C-C Exterior(21 Interior (1) 4-1-0 to 7-11-4, Exteri 12-8-12, Exterior(2R) 12-8-12 to 19-9-9 to 21-7-0 zone; cantilever end vertical left and right exposec forces & MWFRS for reactions sh DOL=1.60 plate grip DOL=1.603)Provide adequate drainage to press	pression/Maximum /574, 4-5=-1596/625, -4/0 1=-452/1595, 3/204, 5-9=0/261 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope) E) -0-11-0 to 4-1-0, ior(2E) 7-11-4 to 19-9-9, Interior (1) left and right exposed ; d;C-C for members and hown; Lumber						1		SCOT SEV NUM PE-2001	ER BER 018807

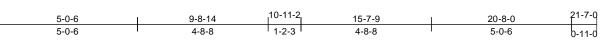
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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)



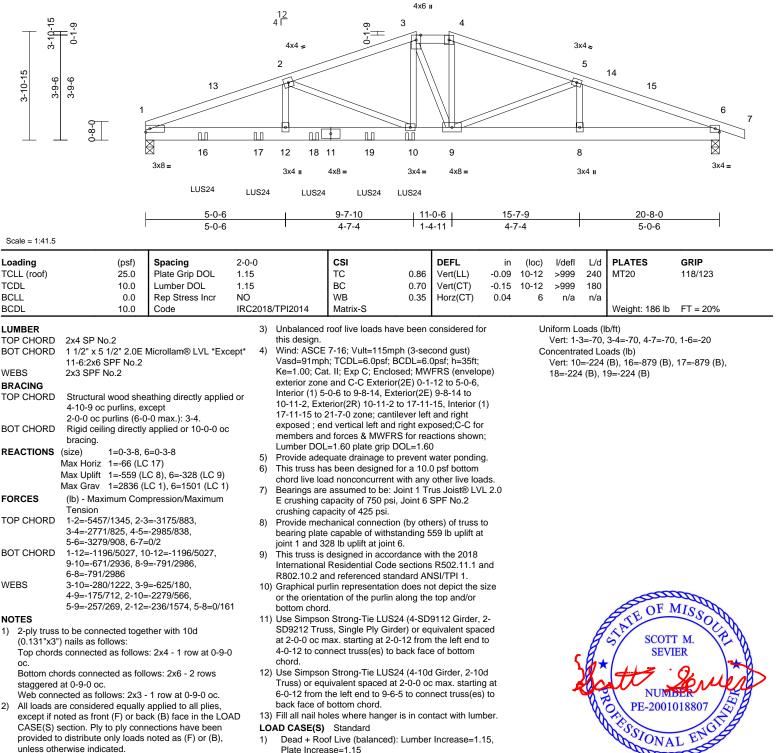
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	Н3	Hip Girder	1	2	Job Reference (optional)	170905821

unless otherwise indicated.

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 21 09:55:28 ID:58PIRvWyxFoJ8fZwELHY5xzZlru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4x4 =



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

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 trust 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)



January 22,2025

Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	HG1	Lay-In Gable	1	1	Job Reference (optional)	170905822

3-11-11

3-11-11

1.5x4

2

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

4-2-8 3-10-1 Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 21 09:55:28 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-3-12

3-8-7

1.5x4 u

5

5x5 💊

5x5 3 4 8-7-0

3x4。

l/defl

n/a 999

n/a 999

n/a n/a

(loc)

6

0.00

L/d



7-0-0 9 10 8 3x4 / 1.5x4 u 1.5x4 u 1.5x4 u 1.5x4 🛚 8-7-0 Plate Offsets (X, Y): [3:0-2-7,Edge], [4:0-2-7,Edge] Spacing 2-0-0 CSI DEFL in Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a Lumber DOL 1.15 BC 0.03 Vert(TL) n/a Rep Stress Incr YES WB 0.05 Horiz(TL)

Matrix-P

Gable studs spaced at 0-0-0 oc.

uplift at joint 9 and 158 lb uplift at joint 7.

R802.10.2 and referenced standard ANSI/TPI 1.

capacity of 565 psi.

bottom chord. LOAD CASE(S) Standard

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. Provide adequate drainage to prevent water ponding.

Gable requires continuous bottom chord bearing.

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

12 12.65 Г

BCLL		0.0	Rep Stress Incr	YES		
BCDL		10.0	Code		2018	/TPI2014
LUMBER TOP CHORD	2x4 SP N	0.2			3)	Truss des
BOT CHORD	2x4 SP N					see Stan
OTHERS	2x3 SPF I					or consul
BRACING					4)	Provide a
TOP CHORD	Structural	wood shea	athing directly applied	or	5)	Gable re
		ourlins, exc			6)	Gable stu
			-0 max.): 3-4.		7)	This truss
BOT CHORD	Rigid ceili bracing.	ng directly	applied or 10-0-0 oc		8)	chord live All bearin
REACTIONS	(size)	, -	=8-7-0, 7=8-7-0, =8-7-0, 10=8-7-0		9)	capacity Provide r bearing p
	Max Horiz	1=-110 (L	C 8)			1, 10 lb u
	Max Uplift	· ·	8), 6=-10 (LC 9), 7=- =-14 (LC 9), 10=-158			uplift at jo
		(LC 13), 9 12)	=-14 (LC 9), 10=-156	(LC	10)	This truss
	Max Grav		20), 6=86 (LC 22), 7=			Internation R802.10.
		(LC 20), 8 22), 10=23	=87 (LC 26), 9=97 (L 32 (LC 19)	C	11)	Graphica
FORCES	(lb) - Max	,,,	pression/Maximum			or the ori
	Tension				10	AD CASE
TOP CHORD			05/90, 3-4=-93/91,		LU	
		86, 5-6=-96				
BOT CHORD			58/90, 8-9=-58/90,			
WEBS		0, 6-7=-57/	90 -71/29, 4-8=-62/8,			
WEB3	5-7=-233/		-71/29, 4-0=-02/0,			
NOTES	5-7-235/	100				
	ed roof live l	oode hovo	been considered for			
this design						

(psf)

25.0

10.0

Scale = 1:38.5

Loading

TCDL

TCLL (roof)

- this design Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph: TCDL=6.0psf: BCDL=6.0psf: h=35ft: Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All bearings are assumed to be SP No.2 crushing Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1, 10 lb uplift at joint 6, 158 lb uplift at joint 10, 14 lb 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or OF MISS SCOTT M. SEVIER 101 PE-200101880 0 SIONAL F January 22,2025

PLATES

Weight: 38 lb

MT20

GRIP

244/190

FT = 20%

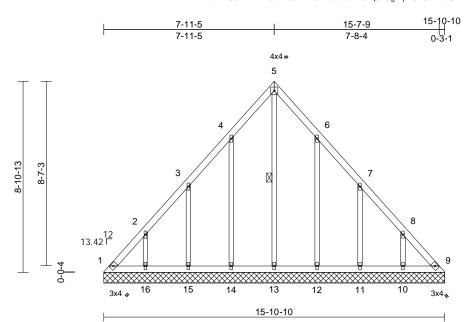




Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	HG2	Lay-In Gable	1	1	Job Reference (optional)	170905823

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:29 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.7

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 ²	18/TPI2014	CSI TC BC WB Matrix-S	0.08 0.05 0.19	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 83 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 1=15-10-1 10=15-10. 14=15-10. Max Horiz 1=-246 (L 10=-148 (12=-146 (15=-151 (Max Grav 1=243 (LC 10=213 (L 12=219 (L	5-13 10, 9=15-10-10, -10, 11=15-10-10, -10, 13=15-10-10, -10, 15=15-10-10, -10 C 8) C 10), 9=-76 (LC 11), LC 13), 11=-152 (LC LC 13), 14=-148 (LC LC 12), 16=-148 (LC C 12), 9=221 (LC 13), C 20), 13=186 (LC 1: C 19), 15=210 (LC 1)	2 d or 3 , 4 , 13), 6 12), 7 12), 7 0), 8 3), 0	 this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5- 12-11-9, Inte left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stuse Standard or consult qu All plates are Gable requir Gable studs This truss has chord live los All bearings 5 Provide mec 	hanical connection capable of withs	ph (3-sec 3CDL=6. 3CDL=6. Seci, MW r(2E) 0-3 xterior(2F) 0-5-7-3 z ertical left d forces & _=1.60 pl: in the pla nd (norm End Deta esigner as ses othen ttom chor oc. for a 10.0 with any e SP No.	ond gust) opsf; h=35ft; FRS (envelop 15 to 5-3-15, R) 7-11-9 to one; cantilev: and right 4 MWFRS for ate grip ane of the tru: al to the face/ Is as applicat per ANSI/TF wise indicated d bearing. 0 psf bottom other live load 2 crushing ers) of truss to 10 lb uplift at	be) er ble, ble, PI 1. ds. o joint					
FORCES	(lb) - Maximum Com Tension 1-2=-344/216, 2-3=-3	pression/Maximum	05,	uplift at joint	at joint 9, 148 lb 15, 148 lb uplift a lb uplift at joint 1	t joint 14,	146 lb uplift a	at			4	ATE OF J	MISSOL
BOT CHORD	4-5=-167/162, 5-6=- 7-8=-176/108, 8-9=-3	167/154, 6-7=-115/58 314/216 6=-162/239, 14=-162/239, 12=-162/239,	^{3,} 1	0) This truss is International	designed in acco Residential Code nd referenced sta Standard	e sections	R502.11.1 a	nd		ļ		SCOT SEV	T M. IER
WEBS NOTES	10-11=-16/233, 9-1 2-16=-194/165, 3-15 4-14=-196/172, 5-13 6-12=-196/170, 7-11 8-10=-194/165	i=-205/177, i=-162/115,									SA .	PE-2001	L ENGINE

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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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)

ΤΙΟΝ **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 12:39:32

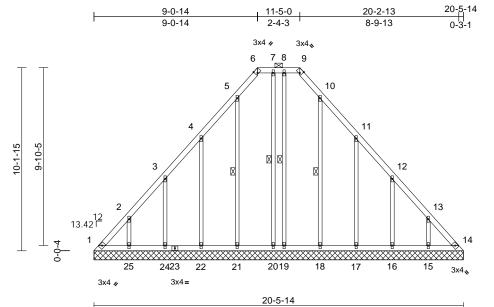
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	HG3	Lay-In Gable	1	1	Job Reference (optional)	170905824

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:29 ID:t4mXWeOWzPTIa8pBFomQxkyf3Oj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



-



Scale = 1:63.9	
Plate Offsets (X, Y):	[6:0-1-6,Edge], [9:0-1-6,Edge]

Fiale Oliseis (, T). [0.0-1-0,E	uyej,	[9.0-1-0,Euge]											-	
Loading TCLL (roof) TCDL BCLL BCDL	(ps 25 10 0 10	.0 .0 .0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	018/TPI2014	C: TC BC W M	C C	0.09 0.06 0.20	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 121 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood 6-0-0 oc purlins 2-0-0 oc purlins Rigid ceiling dir bracing. 1 Row at midpt (size) 1=20 (size) 1=20 (size) 1=22 24=2 24=2 24=2 Max Uplift 1=-1 15=- 17=- 20=- 25=- Max Grav 1=30 15=2 17=2 21=1 21=1	s; excd (6-0- ectly ;)-5-14 20-5-1 20-5-	0 max.): 6-9. applied or 10-0-0 or 5-21, 7-20, 8-19, 10 , 14=20-5-14, 4, 16=20-5-14, 4, 18=20-5-14, 4, 22=20-5-14, 4, 22=20-5-14 4, 25=20-5-14	c 111), C 13), 13), 20), 20), 20), 22), 19),	WEBS NOTES 1) Unbalancec this design. 2) Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zon Interior (1) § Exterior(2R) 20-2-7 zone vertical left and forces & MW DOL=1.60 p 3) Truss desig only. For st see Standan or consult q 4) Provide ade 5) All plates an	22-22 20-22 18-1 16-1 14-1 22-25 8-19 11-1 13-1 1 roof E 7-1 13-1 1 roof E 7-1 1, roof at. II; re and r vVFRS blate ned f uds of rd lnuds	6; Vult=115mph CDL=6.0psf; BC ; Exp C; Enclose d C-C Exterior(2 5 to 9-1-1, Exter 5-4 to 18-6-13, I ntilever left and 1 right exposed; C- S for reactions s grip DOL=1.60 for wind loads in exposed to winc dustry Gable En ied building desi te drainage to pr 5x4 MT20 unless	-22=-1! -20=-1! -18=-1! -16=-1! -16=-1! -16=-1! -16=-1! -16=-1! been ((3-secc) DL=6.0 (3-secc	92/292, 92/292, 92/292, 91/292, 91/292, 91/292, 91/292, 91/170, 01, 91/170, considered for cond gust) 0psf; h=35ft; FRS (envelop 15 to 5-3-15, 9 9-1-1 to 11-5 (1) 18-6-13 to posed ; end nembers and Lumber ane of the trus al to the face) ils as applicab s per ANSI/TP water ponding wise indicated	ee) ;-4, ; ; ss ; ; ole, ;11.	bea joint 145 uplit 18, 150 11) This Inte R80 12) Gra or th	ring pla t 1, 105 lb uplifi ft at join 167 lb u lb uplifi s truss is rnationa)2.10.2 phical p ne orien om cho	te capa lb uplik t at join t 21, 11 uplift at t at join s desig al Resi and ref uurlin re tation (rd.) Sta	able of withstandi t at joint 14, 150 t 24, 164 lb uplift joint 17, 145 lb u t 15. ned in accordance dential Code sect erenced standare apresentation does of the purlin along ndard	ions R502.11.1 and d ANSI/TPI 1. is not depict the size g the top and/or
FORCES	Tension 1-2=-429/262, 2 4-5=-144/134, 5	2-3=-2 5-6=-1 3-9=-1 11-12		144, 143,	 6) Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 0-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 								A LANGE	PE-2001	LENGT

January 22,2025

DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 02/04/2025 12:39:32

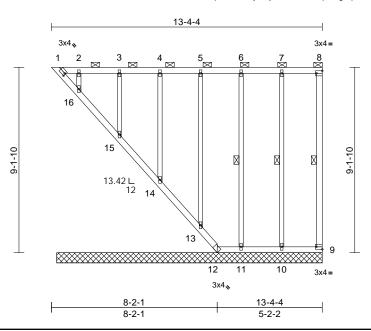
TION 'IEW



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	HG4	Lay-In Gable	1	1	Job Reference (optional)	170905825

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:29 ID:t4mXWeOWzPTIa8pBFomQxkyf3Oj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.8

Plate Offsets (X, Y): [1:0-0-10,0-1-8], [8:Edge,0-1-8], [9:Edge,0-1-8]

Loading	(psf)	Spacing 2	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15		BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.21	Horiz(TL)	-0.01	9	n/a	n/a		
BCDL	10.0		RC2018/TP	2014	Matrix-S							Weight: 86 lb	FT = 20%
		•	4) 11-		n of live locate has			-				•	
	0.40D.N. 0		,	s design.	roof live loads hav	ve been (considered to	or					
TOP CHORD	2x4 SP No.2				7-16; Vult=115m	nh (2 aac	and quat)						
	2x4 SP No.2				r; TCDL=6.0psf; E								
WEBS	2x4 SP No.2				t. II; Exp C; Enclos			20					
OTHERS	2x3 SPF No.2				and C-C Corner								
BRACING					osed ; end vertica			ii.					
TOP CHORD	end verticals.)-0 max.): 1-8, except	exp	osed;C-C	for members and	d forces a	& MWFRS fo	r					
BOT CHORD		applied or 10-0-0 oc		L=1.60	own; Lumber DOL	.= 1.60 pi	ate grip						
	bracing, Except:				ed for wind loads	in the nl	one of the tru	~					
	6-0-0 oc bracing: 1-				ds exposed to wi								
WEBS	1 Row at midpt	8-9, 7-10, 6-11			l Industry Gable E								
REACTIONS	(size) 1=13-1-2	, 9=13-1-2, 10=13-1-2,			alified building de								
		2, 12=13-1-2, 13=13-1-2	2, <u>1)</u> Dro		uate drainage to								
		2, 15=13-1-2, 16=13-1-2			1.5x4 MT20 unle								
	Max Horiz 1=269 (L				ully sheathed from								
		_C 11), 9=-12 (LC 12),			st lateral moveme								
		.C 8), 11=-31 (LC 12),	7) Ga		spaced at 2-0-0 o		lagonal web)	•					
		(LC 8), 13=-35 (LC 12),			s been designed) nsf hottom						
		C 12), 15=-40 (LC 8),			ad nonconcurrent			shi					
	16=-34 (L		Q) ΔΙΙ		are assumed to be								
		C 8), 9=70 (LC 1), 10=1	88 [′] car	acity of 5		0.01.110.	2 or dor in 19						
		1=176 (LC 1), 12=180 (I	LC 10) Pro		hanical connection	n (bv oth	ers) of truss t	to				~	
		73 (LC 1), 14=181 (LC			capable of withst							Con	Aller
		LC 1), 16=156 (LC 1)			uplift at joint 9, 12							F OF	MISC
FORCES	(lb) - Maximum Con	npression/Maximum			10, 31 lb uplift at j						1	THE OF	N.O.
	Tension		13.		ft at joint 14, 40 lb						A	NY SCOT	New M
TOP CHORD		171/186, 3-4=-171/186	, upl	ift at joint							a	SCOT	
		171/187, 6-7=-171/187	, 11) N/A								N.	SEV.	IER $\sqrt{\chi}$
	7-8=-171/187, 8-9=-		12) Thi	s truss is	designed in accor	rdance w	ith the 2018				8		1 * 1
BOT CHORD	1-16=-267/282, 15-		Ínte	ernational	Residential Code	sections	s R502.11.1 a	ind			10		0 1 2
	14-15=-271/288, 13		R8	02.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.				19-	1 Contra	Assessor 1
	12-13=-269/298, 11		13) Gra	aphical pu	rlin representatior	n does no	ot depict the	size			27		
14/500	10-11=-171/186, 9-1				ation of the purlin	along the	e top and/or				N.	O PE-2001	018807
WEBS	7-10=-150/230, 6-1	,	bot	tom chore	l.						V	1 The	158
	5-13=-139/155, 4-14	,	LOAD	CASE(S)	Standard							N°3'S	ENU'S
	3-15=-144/159, 2-16	0=-120/134		. ,								C'SSIONA	LEY
NOTES												an	The
													. 00.0005

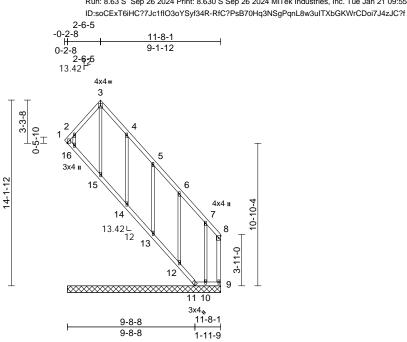
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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 - HM Lot 158	
P250045-01	HG5	Lay-In Gable	1	1	Job Reference (optional)	170905826

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:29

Page: 1



Scale = 1:87.7

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.18 0.10 0.66	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.04	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC20 ⁻	8/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing, Except:	applied or 10-0-0 oc	2	 this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior 200; Ca Exterior(2R) 11-8-13 zone vertical left a forces & MW 	roof live loads hav 7-16; Vult=115mp 1; TCDL=6.0psf; Bi 2: and C-C Exterior 2-8-13 to 7-8-13, 1 2; cantilever left an nd right exposed; FRS for reactions ate grip DOL=1.60	h (3-sec CDL=6.0 ed; MW (2E) 0-4 nterior (d right e C-C for n shown;	cond gust) Dpsf; h=35ft; FRS (envelop -11 to 2-8-13, 1) 7-8-13 to exposed ; end nembers and						
REACTIONS	10=11-8-1 13=11-8-1 16=11-8-1 Max Horiz 1=-347 (LI Max Uplift 1=-820 (LI 9=-32 (LC 11=-38 (LI 13=-157 (I 15=-387 (I Max Grav 1=530 (LC (LC 8), 10 11), 12=2'	8=11-8-1, 9=11-8-1, 11=11-8-1, 12=11-8- , 14=11-8-1, 15=11-8- C 8) C 13), 8=-51 (LC 12), 11), 10=-176 (LC 13), C 8), 12=-156 (LC 13), C 13), 14=-133 (LC 1 LC 11), 16=-312 (LC 1	1, 1, 5 (7 3), 8 1) =45 9 C	 Truss design only. For stu- see Standard or consult qu All plates are Gable require Gable studs This truss ha chord live loa All bearings capacity of 5 Bearing at jo using ANSI/1 designer sho 	ed for wind loads i ds exposed to wind l Industry Gable E alified building des s continuous both spaced at 2-0-0 oc s been designed for d nonconcurrent v are assumed to be 65 psi. int(s) 8 considers p PI 1 angle to grain uld verify capacity	n the pla d (norm nd Deta signer as so other om chor c or a 10.0 vith any SP No. SP No. oparallel to formula of bear	al to the face) ils as applicat s per ANSI/TF wise indicated d bearing.) psf bottom other live load 2 crushing o grain value a. Building ng surface.	, ple, rl 1. l. ds.					
FORCES	(lb) - Maximum Com Tension	65 (LC 8)	1	bearing plate 8, 32 lb uplift	hanical connection capable of withsta at joint 9, 820 lb u 37 lb uplift at joint	anding 5 plift at jo	1 lb uplift at jo pint 1, 38 lb up	oint olift			Å	TATE OF M	AISSOL
TOP CHORD		606/652, 3-4=-603/648 362/386, 6-7=-233/247	,	16, 133 lb up uplift at joint	lift at joint 14, 157 12 and 176 lb uplif	lb uplift t at joint	at joint 13, 15 10.	6 lb			A	SCOTT SEVI	
BOT CHORD	1-16=-129/100, 15-1 14-15=-147/153, 13- 12-13=-146/153, 11- 10-11=-87/96, 9-10=	6=-148/153, 14=-147/153, 12=-138/153, 87/96		surface with 2) This truss is International	e or shim required truss chord at joint designed in accord Residential Code and referenced stan	(s) 1, 15 dance w sections	5, 16, 14, 13, ith the 2018 R502.11.1 a	12.		4		PE-2001	18807 A
WEBS	3-15=-888/756, 2-16 4-14=-197/157, 5-13 6-12=-213/175, 7-10	=-216/181,	L	OAD CASE(S)	Standard						Ø	FESSIONA	LENGI
												an	5555 C

NOTES

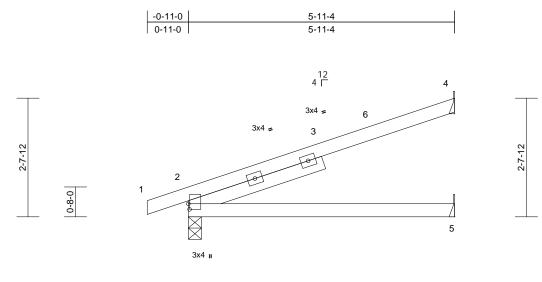
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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 - HM Lot 158	
P250045-01	J1	Jack-Open	6	1	Job Reference (optional)	170905827

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:30 ID:58PIRvWyxFoJ8fZwELHY5xzZIru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





5-11-4	

Scale = 1:25.7 Plate Offsets (X, Y): [2:0-1-8,0-0-5]

	x, 1): [2:0 1 0;0 0 0]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.77 0.44 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.14 -0.02	(loc) 2-5 2-5 4	l/defl >987 >493 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 3 Structural wood she 5-11-4 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Mechanic Max Horiz 2=99 (LC Max Uplift 2=-83 (LC Max Grav 2=334 (LC (LC 3)	athing directly applie applied or 10-0-0 or 4= Mechanical, 5= al 12) : 8), 4=-111 (LC 12)	Internat R802.10 LOAD CAS	as is designed in acco ional Residential Code 0.2 and referenced sta E(S) Standard	e sections	R502.11.1 a	and				1	
Vasd=91m Ke=1.00; C exterior 20; Interior (1) exposed ; members a Lumber DC 2) This truss I chord live I 3) Bearings a capacity of 4) Refer to gii 5) Provide me bearing pla	(lb) - Maximum Com Tension 1-2=-4/0, 2-4=-105/5 2-5=0/0 CE 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 4-1-0 to 5-10-8 zone; end vertical left and rig and forces & MWFRS DL=1.60 plate grip DO has been designed foi has been designed foi has been designed to be: , Jo f 565 psi. rder(s) for trust to trust echanical connection (ate capable of withstar o uplift at joint 2.	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, cantilever left and ri ght exposed;C-C for for reactions shown L=1.60 r a 10.0 psf bottom th any other live loa pint 2 SP No.2 crush ss connections. (by others) of truss t	ight ; ds. ning o						2		STATE OF J SCOT SEV SEV NUM PE-2001	T M. IER O18807

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 **ANS/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)

Cours January 22,2025



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J2	Jack-Open	4	1	Job Reference (optional)	170905828

3-10-3

3-10-3

3-10-3

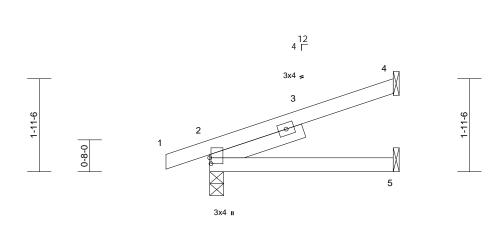
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0-11-0

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:30 ID:v0F888O3WtPtKyDp5Xbz8dzZls3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:24.2	I
Plate Offsets (X, Y): [2:0-1-8,0-0-5]	

Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) I/det L/det PLATES GRIP TCLL 0.0 Lumber DOL 1.15 BC 0.17 Vert(LI) -0.01 2.5 > 999 180 PLATES GRIP BCL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 4 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P No No Horz(CT) -0.01 4 n/a n/a LUMBER Code Incernational Residence with the 2018 Incernational Residence with the 2018 No No		(,,, ,); [=:0 : 0;0 0 0]											
LUMBER TOP CHORD 2x4 SP No.2 SUDER Left 2x4 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical Max Horiz 2=69 (LC 12) Max Uplift 2=-69 (LC 12) Max Uplift 2=-69 (LC 12) Max Grav 2=224 (LC 1), 4=125 (LC 1), 5=76 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1:2=-4/0, 2-4=-75/31 BOT CHORD 2:5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; h=-35f; Ke=1.00; Cat. II: Exp (LC E: Enclosed; MWFRS for	TCLL (roof) TCDL BCLL	25.0 10.0 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 1.15 YES	TC BC WB	0.17	Vert(LL) Vert(CT)	-0.01 -0.02	2-5 2-5	>999 >999	240 180	MT20	244/190
TOP CHORD 2x4 SP No.2 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. SLIDER Left 2x4 SP No.2 - 2-0.10 LOAD CASE(S) Standard BRACING Structural wood sheathing directly applied or 3-10-3 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical (SE Mechanical) Mechanical Mechanical (SE Mechanical) Mechanical (SE SE SE Mechanical) Mechanical (SE SE SE SE Mechanical) Mechanical (SE SE S	BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%
bracing. REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical Max Horiz 2=69 (LC 12) Max Uplift 2=-69 (LC 12) Max Grav 2=242 (LC 1), 4=125 (LC 1), 5=76 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-4/0, 2-4=-75/31 BOT CHORD 2-5=0/0 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) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for	TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD	2x4 SP No.2 Left 2x4 SP No.2 : Structural wood she 3-10-3 oc purlins.	athing directly appli	Internatio R802.10.3 LOAD CASE	nal Residential Cod 2 and referenced sta	le sections	s R502.11.1 a	and					
Mechanical Max Horiz 2=69 (LC 12) Max Uplift 2=-69 (LC 12) Max Grav 2=242 (LC 1), 4=-72 (LC 12) Max Grav 2=242 (LC 1), 4=125 (LC 1), 5=76 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-4/0, 2-4=-75/31 BOT CHORD 2-5=0/0 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) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for	Bor onlone												
FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-4/0, 2-4=-75/31 BOT CHORD 2-5=0/0 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) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for		Max Horiz 2=69 (LC Max Uplift 2=-69 (LC Max Grav 2=242 (LC	cal 12) C 8), 4=-72 (LC 12)	5=76									
TOP CHORD 1-2=-4/0, 2-4=-75/31 BOT CHORD 2-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; b=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for	FORCES	(lb) - Maximum Com	npression/Maximum	ı									
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) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for		1-2=-4/0, 2-4=-75/3	1										
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for	NOTES												
reactions shown; Lumber DOL=1.60 plate grip	Vasd=91n Ke=1.00; (exterior zc and right e exposed;C reactions	mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL=	DL=6.0psf; h=35ft; ed; MWFRS (envelo 2E) zone; cantilever left and right forces & MWFRS fo	ope) Fleft							đ	S SCOT	тм.
2) This truss has been designed for a 10.0 psf bottom	2) This truss	s has been designed fo									Bo	_/ SEV	
chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.	3) Bearings a	are assumed to be: , J								,	K	cotte	Jerrien
 4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate canable of withstanding 72 lb unlift at joint 	5) Provide m	nechanical connection	(by others) of truss								8ª	PE-2001	

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4 and 69 lb uplift at joint 2.

> icomponent, not gn into the overall d permanent bracing rding the able from Truss Plate Institute (www.tpinst.org) ponents.com) RELEAST TORONATION FILE DEVENUED ON PLANS REVIE DEVENUED ON PLANS REVIE

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January 22,2025

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J3	Jack-Open	4	1	Job Reference (optional)	170905829

-0-11-0

0-11-0

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:30 ID:v0F888O3WtPtKyDp5Xbz8dzZls3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

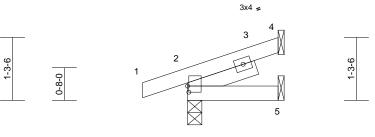
Page: 1





1-10-3

1-10-3



3x4 🛚

1-10-3

Scale = 1:23.5 Ы

late Offsets (X, Y):	[2:0-1-8,0-0-5]

	(X, 1): [2:0 1 0;0 0 0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.06	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		210,000
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2		Internation R802.10.2	is designed in acc al Residential Coc and referenced st	de sections	R502.11.1 a	and					
SLIDER	Left 2x4 SP No.2 7	1-5-8	LOAD CASE(S	 Standard 								
BRACING TOP CHORD	O Structural wood she	athing directly appli	ed or									
	1-10-3 oc purlins.	annig anoony appn										
BOT CHORD	 Rigid ceiling directly bracing. 	applied or 10-0-0 o	c									
REACTIONS	0	4= Mechanical, 5=										
	Mechanic											
	Max Horiz 2=40 (LC	,										
	Max Uplift 2=-60 (LC											
	Max Grav 2=163 (L0 (LC 3)	C 1), 4=48 (LC 1), 5	=37									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD		6										
BOT CHORD												
NOTES												
1) Wind: AS	SCE 7-16; Vult=115mph	(3-second gust)										
	mph; TCDL=6.0psf; BC											
	; Cat. II; Exp C; Enclose										200	an
	zone and C-C Exterior(2		left								OF	MIG
	exposed ; end vertical										ATE OF	INSS W
	C-C for members and f		r							6	A.M.	N.S.
DOL=1.6	shown; Lumber DOL=	1.60 plate grip								R	SCOT	M. NEW
	s has been designed fo	r a 10.0 pef bottom								8	SEV	TER \ Y
	e load nonconcurrent wi		ds							20		0 1 🛨 🕅
	are assumed to be: , J									W	hotty	100 Line
	of 565 psi.		5						-	5-0	NUM	
	girder(s) for truss to tru	ss connections.								YA 7		
	mechanical connection		0							N.	O PE-2001	1018807
booring r	late canable of withsta	ading 60 lb unlift at i	oint							X X	02	ICH

5 bearing plate capable of withstanding 60 lb uplift at joint 2 and 35 lb uplift at joint 4.



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January 22,2025

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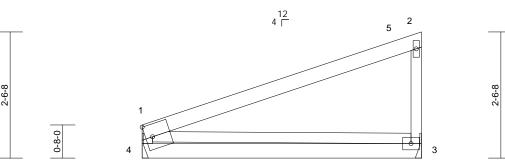
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J4	Jack-Closed	3	1	Job Reference (optional)	170905830

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 21 09:55:30 ID:v0F888O3WtPtKyDp5Xbz8dzZls3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





6x6 =

3x4 =

					5-7-8							
Scale = 1:23.2												
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	0.68	Vert(LL)	-0.05	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.10	3-4	>629	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- 2x4 SP No.2 BOT CHORD
- 2x3 SPF No.2 WEBS

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS (size) 3= Mechanical, 4= Mechanical Max Horiz 4=102 (LC 9) Max Uplift 3=-62 (LC 12), 4=-45 (LC 8) Max Grav 3=244 (LC 1), 4=244 (LC 1)
- FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-4=-190/206, 1-2=-126/80, 2-3=-190/245 BOT CHORD 3-4=-232/133
- 1-3=-98/201 WEBS

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) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 5-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections. 3)
- Provide mechanical connection (by others) of truss to 4) bearing plate capable of withstanding 45 lb uplift at joint 4 and 62 lb uplift at joint 3.
- 5) 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



January 22,2025

 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)

TION DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 12:39:32

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J5	Jack-Open	2	1	Job Reference (optional)	170905831

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:30 ID:v0F888O3WtPtKyDp5Xbz8dzZls3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

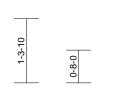
Page: 1

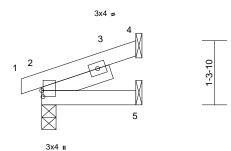






1-10-15





Scale =	= 1:23.4

Plate Offsets (X, Y): [2:0-1-8,0-0-5]

	(, T). [2.0-1-0,0-0-3]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	4 Matrix-P	0.07 0.04 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 9 lb	GRIP 244/190 FT = 20%
BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 Structural wood she 1-10-15 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Mechanic Max Horiz 2=35 (LC Max Uplift 2=-29 (LC Max Grav 2=118 (LC	athing directly appli applied or 10-0-0 o 4= Mechanical, 5= al 12) 2 8), 4=-40 (LC 12)	ed or	uss is designed in acco tional Residential Cod 0.2 and referenced sta SE(S) Standard	le sections	R502.11.1 a	ind					
BOT CHORD NOTES 1) Wind: ASC Vasd=91m Ke=1.00; C exterior zor and right ex exposed;C- reactions s1 DOL=1.60 2) This truss h chord live lo 3) Bearings ar capacity of 4) Refer to gir 5) Provide me bearing pla	(LC 3) (Ib) - Maximum Com Tension 1-2=-14/0, 2-4=-51/1 2-5=0/0 E 7-16; Vult=115mph ph; TCDL=6.0psf; BC cat. II; Exp C; Enclose ne and C-C Exterior(2 xposed ; end vertical I -C for members and f hown; Lumber DOL=' has been designed for oad nonconcurrent wi re assumed to be: , Jo 565 psi. der(s) for truss to tru schanical connection (the capable of withstar o uplift at joint 4.	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (enveloy E) zone; cantilever left and right orces & MWFRS foi 1.60 plate grip r a 10.0 psf bottom th any other live loa pint 2 SP No.2 crust ss connections. (by others) of truss t	pe) left r ids. ning							Ŷ	STATE OF SCOT SEV PE-2001	IER 018807

Courses January 22,2025

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 **ANS/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)

CTION **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 12:39:33

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J6	Jack-Open	3	1	Job Reference (optional)	170905832

3-11-4

3-11-4

-0-5-0

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:30 ID:58PIRvWyxFoJ8fZwELHY5xzZIru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

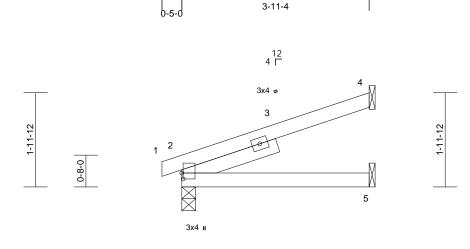
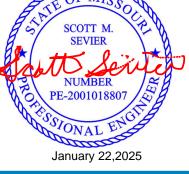


Plate Offsets (X, Y): [2:0-1-8,0-0-5]

		-										
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	0.37	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-5	>999	180		210100
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00		0.01		1.00		Weight: 16 lb	FT = 20%
•											Ŭ	
LUMBER				is designed in acco								
TOP CHORD				al Residential Cod and referenced sta			and					
BOT CHORD		0.4.0			andard AN	151/TPL1.						
SLIDER	Left 2x4 SP No.2 :	2-1-3	LOAD CASE(S) Standard								
BRACING												
TOP CHORD		athing directly appli	ed or									
BOT CHORD	3-11-4 oc purlins.Rigid ceiling directly	copplied or 10.0.0	•									
BUICHURD	bracing.	applied of 10-0-0 0	C									
REACTIONS	0	4= Mechanical, 5=										
	Mechanic											
	Max Horiz 2=64 (LC	12)										
	Max Uplift 2=-43 (LC	C 8), 4=-76 (LC 12)										
	Max Grav 2=205 (L0	C 1), 4=134 (LC 1),	5=77									
	(LC 3)											
FORCES	(lb) - Maximum Com	npression/Maximum										
	Tension	20										
TOP CHORD BOT CHORD	,	33										
	2-5=0/0											
NOTES		(0,										
	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose		ne)									
	one and C-C Exterior(2										COOL	Jan
	exposed ; end vertical										ATE OF	MISC
	C-C for members and f		r							1	750	- or w
reactions	shown; Lumber DOL=	1.60 plate grip								8	S SCOT	TM X
DOL=1.60										R	SEV	
	s has been designed fo									Ra	J SEV	
	e load nonconcurrent w									2		L Z T T
	are assumed to be: , Jo of 565 psi.	oint 2 SP No.2 crusi	ning						0		con 2	and
	girder(s) for truss to tru	iss connections								N T	NUM	
	nechanical connection		0							N	PE-2001	018807 28
	late capable of withsta									(V	18	18A
4 and 40										1	140	1000

- 2

- 4 5
- 4 and 43 lb uplift at joint 2.



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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J7	Jack-Open	9	1	Job Reference (optional)	170905833

5-11-4

5-11-4

12 6 Г

-0-11-0

0-11-0

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

3-9-1

Scale = 1:27.7

Loading

TCDL

BCLL

BCDL

LUMBER

SLIDER BRACING TOP CHORD

TOP CHORD

BOT CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

TOP CHORD

BOT CHORD

REACTIONS (size)

TCLL (roof)

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

2x4 SP No.2

2x4 SP No.2

bracing.

Tension

2-5=0/0

5-11-4 oc purlins.

(psf)

25.0

10.0

10.0

Left 2x4 SP No.2 -- 3-4-1

0.0

Mechanical Max Horiz 2=148 (LC 12)

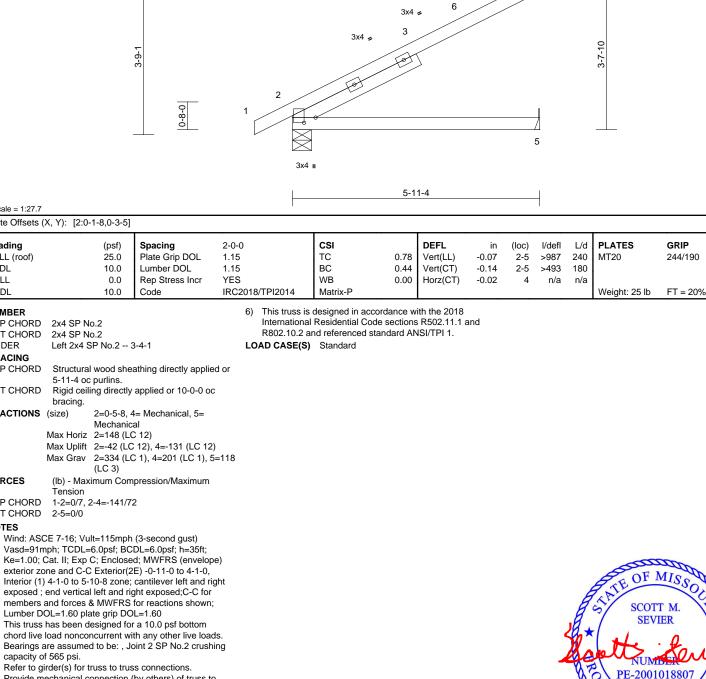
(LC 3)

1-2=0/7, 2-4=-141/72

Code

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Tue Jan 21 09:55:31 ID:58PIRvWyxFoJ8fZwELHY5xzZlru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to

Lumber DOL=1.60 plate grip DOL=1.60

capacity of 565 psi.

bearing plate capable of withstanding 131 lb uplift at joint 4 and 42 lb uplift at joint 2.

 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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January 22,2025

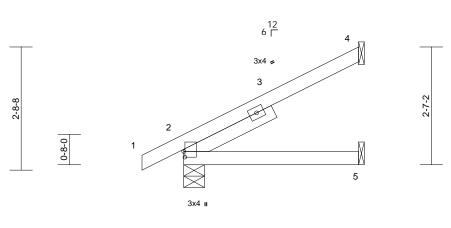
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J8	Jack-Open	4	1	Job Reference (optional)	170905834

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:31 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







3-10-3

Scale = 1:25.3 Plate Offsets (X, Y): [2:0-1-8,0-0-5]

	X, Y): [2:0-1-8,0-0-5]	-										
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	0.30 0.17 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 -0.01	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 2 Structural wood she 3-10-3 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 4 Mechanic Max Horiz 2=102 (LC Max Uplift 2=-34 (LC Max Grav 2=242 (LC (LC 3)	athing directly applie applied or 10-0-0 or 4= Mechanical, 5= al C 12) C 12), 4=-86 (LC 12)	Internationa R802.10.2 a LOAD CASE(S) ad or	: designed in accorr I Residential Code and referenced stan) Standard	sections	R502.11.1 a	and					
Vasd=91m Ke=1.00, 0 exterior 20, 0 and right e exposed;0 reactions s DOL=1.60 2) This truss chord live 3) Bearings a capacity of 4) Refer to gi 5) Provide m bearing pla	(lb) - Maximum Com Tension 1-2=0/7, 2-4=-95/49 2-5=0/0 CE 7-16; Vult=115mph pph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed; end vertical I -C for members and for shown; Lumber DOL=1 has been designed for load nonconcurrent wi are assumed to be: , Jo	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l eft and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live loa bint 2 SP No.2 crush ss connections. (by others) of truss t	eft ds. ing								SCOT SEV NUM PE-2001	Service



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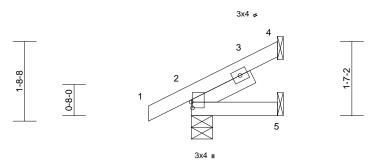
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J9	Jack-Open	4	1	Job Reference (optional)	170905835

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:31 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





1-10-3



Scale = 1:24.7	
----------------	--

Plate Offsets (X, Y): [2:0-1-8,0-0-5]

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	0.06	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		,					Weight: 10 lb	FT = 20%
						•						
LUMBER				s designed in acc								
TOP CHORD				al Residential Co			ind					
BOT CHORD				and referenced st	tandard AN	NSI/TPL1.						
SLIDER	Left 2x4 SP No.2	1-5-2	LOAD CASE(S	5) Standard								
BRACING												
TOP CHORD		eathing directly appli	ed or									
	1-10-3 oc purlins.											
BOT CHORD	0 0 ,	/ applied or 10-0-0 o	00									
	bracing.											
REACTIONS	· · · ·	4= Mechanical, 5=										
	Mechanic Max Horiz 2=59 (LC											
	Max Uplift 2=-28 (LC		l l									
	Max Grav 2=163 (L											
	(LC 3)	C 1), 4=40 (LC 1), 5	=37									
FORCES	(lb) - Maximum Con	noression/Maximum										
TOROLO	Tension	npression/maximum										
TOP CHORD		5										
BOT CHORD	,											
NOTES												
	CE 7-16; Vult=115mph	(3-second gust)										
	mph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose		pe)									and the second s
exterior zo	one and C-C Exterior(2	2E) zone; cantilever	left								TATEOF	MIL
	exposed ; end vertical										AFEUT	MISS W
	C-C for members and		r							6		1.5
	shown; Lumber DOL=	1.60 plate grip								A	SCOT	TM. P.V.
DOL=1.60		100 (1 "								H.	SEV	
	has been designed fo		de							14	-1	····· \★∅
	e load nonconcurrent w are assumed to be: , J									20		120
capacity c			inng						_	<u>N</u>	1 TP	Some a
	pirder(s) for truss to tru	uss connections.									UN WOM	50
	nechanical connection		to							N	PE-2001	018807
	late capable of withsta									V	The last	158
	lb uplift at joint 4.										13'SIG	ENUR
	-										S'SIONA	LEY
											an	and a

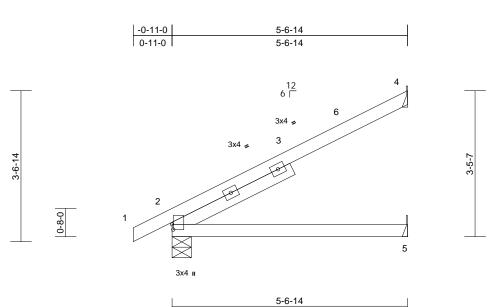
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 - HM Lot 158	
P250045-01	J10	Jack-Open	12	1	Job Reference (optional)	170905836

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:31 ID:edFZBNUX4sUAYMQjjTwIGQyf3Ob-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.3 Plate Offsets (X, Y): [2:0-1-8,0-0-5]

Plate Olisets ((X, Y): [2:0-1-8,0-0-5]											
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/TPI201	CSI TC BC WB Matrix-P	0.68 0.38 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.11 -0.02	(loc) 2-5 2-5 4	l/defl >999 >598 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	Left 2x4 SP No.2 3 Structural wood she 5-6-14 oc purlins. Rigid ceiling directly bracing.	athing directly appli applied or 10-0-0 o 4= Mechanical, 5= al C 12) C 12), 4=-124 (LC 12	ed or c	ss is designed in acco ional Residential Cod 0.2 and referenced sta E(S) Standard	e sections	R502.11.1 a	and					
Vasd=91n Ke=1.00; (exterior zc Interior (1) exposed; members Lumber D 2) This truss chord live 3) Bearings a capacity o 4) Refer to g 5) Provide m bearing pl	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 4-1-0 to 5-6-2 zone; c end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO has been designed foi load nonconcurrent wi are assumed to be: , Jo	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, antilever left and rig ght exposed;C-C for for reactions shown L=1.60 r a 10.0 psf bottom th any other live loa pint 2 SP No.2 crust ss connections. (by others) of truss t	yht ; ds. ning o								STATE OF J STATE OF J SEV SEV PE-2001	T M. ER 018807

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 toulsable 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 - HM Lot 158	
P250045-01	J11	Jack-Open	4	1	Job Reference (optional)	170905837

3-5-13

3-5-13

-0-11-0

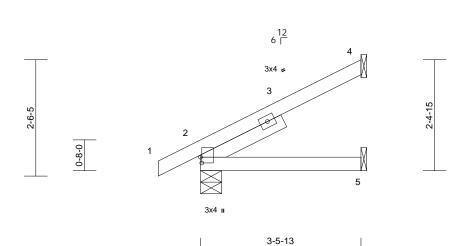
0-11-0

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:31 ID:t4mXWeOWzPTIa8pBFomQxkyf3Oj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:25

Plate Offsets (X, Y): [2:0-1-8,0-0-5]

	,,, ;): [<u>=</u> :e : ețe e e]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.24 0.14 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a		GRIP 244/190
BCDL	10.0	Code	IRC2018/TPI201	Matrix-P							Weight: 16 lb	FT = 20%
	Mechanic Max Horiz 2=94 (LC Max Uplift 2=-33 (LC	eathing directly applie r applied or 10-0-0 or 4= Mechanical, 5= ral 12) C 12), 4=-78 (LC 12)	LINTERNAL R802.1 LOAD CAS	ss is designed in acco ional Residential Cod).2 and referenced st E(S) Standard	le sections	R502.11.1	and					
	Max Grav 2=227 (L	C 1), 4=111 (LC 1),	5=68									
FORCES	(LC 3) (Ib) - Maximum Con	pression/Maximum										
	Tension											
TOP CHORD BOT CHORD	1-2=0/7, 2-4=-87/44 2-5=0/0											
Vasd=91m Ke=1.00; (exterior 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	has been designed fo load nonconcurrent w are assumed to be: , J	EDL=6.0psf; h=35ft; ad; MWFRS (envelop 2E) zone; cantilever l left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live loa oint 2 SP No.2 crush iss connections. (by others) of truss t	left ds. ling								STATE OF SCOT SEV SEV PE-2001	IER Somer 018807

- 2

- 4 5
- lift at joint ١g 4 and 33 lb uplift at joint 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 toulsable 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 - HM Lot 158	
P250045-01	J12	Jack-Open	4	1	Job Reference (optional)	170905838

-0-11-0

0-11-0

2

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:31 ID:t4mXWeOWzPTIa8pBFomQxkyf3Oj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

1-4-15 1-6-5 0-8-0 5 3x4 II 1-5-13

- 2
- 3
- 4 5
- bearing plate capable of withstanding 27 lb uplift at joint 2 and 34 lb uplift at joint 3.

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DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 02/04/2025 12:39:33

TION ΊFW

Scale = 1:24

Plate Offsets (X, Y): [2:0-1-8,0-0-5]

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	0.06 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 9 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2	athing directly applie	Internation R802.10.2 LOAD CASE(is designed in accor al Residential Code and referenced star 5) Standard	sections	R502.11.1 a	and					
	U	12) 2 12), 3=-34 (LC 12)										
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=0/7, 2-3=-47/29 2-5=0/0											
Vasd=91m Ke=1.00; C exterior zor and right ex exposed;C	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 xposed ; end vertical i-C for members and f shown; Lumber DOL=	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l left and right orces & MWFRS for	left							l	STATE OF I	TM. YE Y
 2) This truss f chord live li 3) Bearings a capacity of 4) Refer to gir 5) Provide me 	has been designed fo load nonconcurrent wi ire assumed to be: , Je	th any other live load bint 2 SP No.2 crush ss connections. (by others) of truss to	ning o							R.	SEV. NUM PE-2001	Ferne

1-5-13

1-5-13

12 6 Г

3x4 🥫 3

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	J13	Jack-Open	1	1	Job Reference (optional)	170905839

-0-11-0

0-11-0

1-5-4

1-5-4

12 6 Г

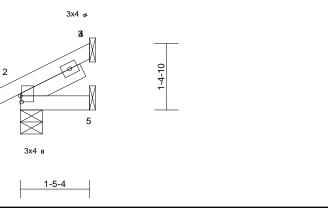
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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Page: 1



Scale = 1:24 Plate Offsets (X, Y): [2:0-1-8.0-0-5]

	X, Y): [2:0-1-8,0-0-5]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.06 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	MT20	GRIP 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%
	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 Structural wood she 1-5-4 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 3 Machanic Max Horiz 2=50 (LC Max Uplift 2=-27 (LC	athing directly appli applied or 10-0-0 o 3= Mechanical, 5= al 12)	d or	s is designed in acco nal Residential Cod 2 and referenced st (S) Standard	le sections	R502.11.1 a	and					
	Max Grav 2=149 (LC (LC 3)	C 1), 3=29 (LC 1), 5	=28									
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/7, 2-3=-46/28											
 Vasd=91m Ke=1.00; (exterior zoo and right e exposed;C reactions s DOL=1.60 2) This truss chord live 3) Bearings a capacity of 4) Refer to gi 5) Provide mu bearing pla 	has been designed for load nonconcurrent wi are assumed to be: , Jo	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live loa pint 2 SP No.2 crush ss connections. (by others) of truss t	left ds. ning o						•		STATE OF SCOT SEV DEV DEV DEV DEV SEV	T.M. IER BERNAL 018807

January 22,2025

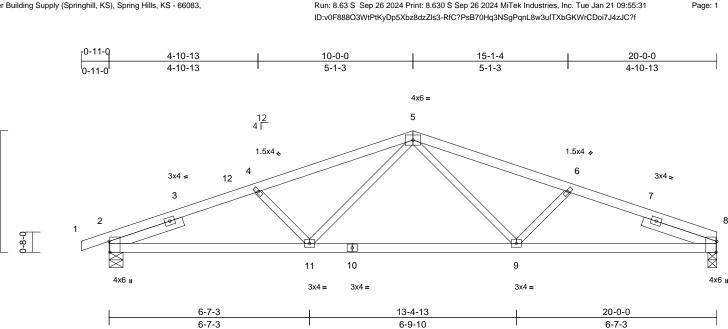
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RUCTION **IEW**

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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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 - HM Lot 158	
P250045-01	T1	Common	3	1	Job Reference (optional)	170905840

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:31



Scale = 1:37.9

4-0-0

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

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	0.52	Vert(LL)	-0.09	9-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.53	Vert(CT)	-0.19	9-11	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.16	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 82 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 2 2-6-9 Structural wood she 3-8-8 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 8 Max Horiz 2=-71 (LC	athing directly applie applied or 8-7-8 oc 3=0-3-8 2 13)	5) No.2 6) ed or	capacity of 5 Provide mec bearing plate joint 8 and 20 This truss is International	hanical connection capable of withst 00 lb uplift at joint designed in accor Residential Code nd referenced star	n (by oth anding 1 2. dance w sections	ers) of truss 57 lb uplift a ith the 2018 5 R502.11.1 a	t					
	Max Uplift 2=-200 (L Max Grav 2=966 (L0												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-4/0, 2-4=-1866 5-6=-1656/517, 6-8=		6,										
BOT CHORD	2-11=-455/1675, 9-1												
WEBS	8-9=-464/1685 4-11=-281/200, 5-11 6-9=-286/204	=-80/463, 5-9=-90/4	471,										
NOTES												A DOLL	Alle
1) Unbalance	ed roof live loads have	been considered fo	r									TEOF	MISSO
this desig											4	2 Mil	NSU
	CE 7-16; Vult=115mph										A	SCOT	TM. YEN
	nph; TCDL=6.0psf; BC		,								Ø	SEV	
	Cat. II; Exp C; Enclose										BA		
	one and C-C Exterior(2									1	W	#	· La lat
) 4-1-0 to 10-0-0, Extern nterior (1) 15-2-10 to 2		or									sour -	CENTR
	aht exposed ; end verti		ei							_	50	NUM	BER S
ient and rig	gni exposed ; end verti	carrient and right									N2	PE-2001	018807

DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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



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January 22,2025

PE-200101880

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	TG2	Half Hip Girder	1	1	Job Reference (optional)	170905841

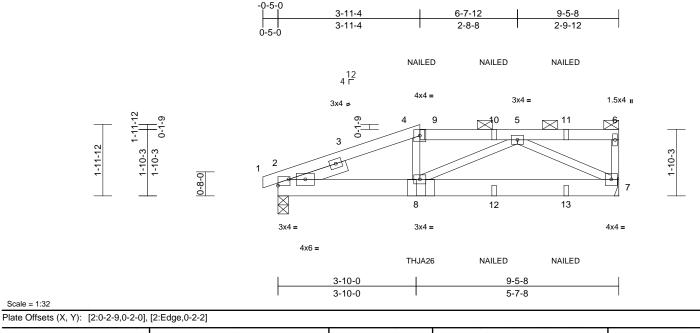
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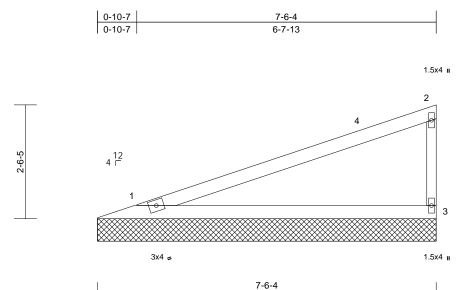
	(, 1). [2.0 2 0,0 2 0],											
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.35	Vert(LL)	-0.02	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.04	7-8	>999	180	_	
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 41 lb	FT = 20%
						I						
BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS (2x4 SP No.2 2x6 SPF No.2 2x3 SPF No.2 Left 2x4 SP No.2 Structural wood she 5-0-15 oc purlins, e 2-0-0 oc purlins (5-5 Rigid ceiling directly bracing. (size) 2=0-3-8, ī Max Horiz 2=66 (LC Max Uplift 2=-195 (L Max Grav 2=672 (LC (lb) - Maximum Com	athing directly applie xcept end verticals, a -14 max.): 4-6. applied or 10-0-0 oc 7= Mechanical 32) C 8), 7=-185 (LC 8) C 1), 7=654 (LC 1)	bearing pla joint 7 and 8) This truss is Internationa R802.10.2 9) Graphical p or the orien bottom cho 10) Use Simps Hand Hip) o connect tru 11) Fill all nail f 12) "NAILED" ii per NDS gu 13) In the LOAI	on Strong-Tie THJ/ or equivalent at 3-1 ss(es) to front face holes where hange ndicates Girder: 3-	tanding 2. rdance we sections ndard Al n does n along the A26 (TH, 1-10 from of bottom r is in coo 10d (0.14	185 lb uplift a vith the 2018 s R502.11.1 i NSI/TPI 1. ot depict the e top and/or JA26 on 1 ply n the left enc m chord. ntact with lun 18" x 3") toe- pplied to the	and size /, Left d to nber. -nails					
	Tension		LOAD CASE(S		(1) 01 00	юк (В).						
TOP CHORD	1-2=-10/0, 2-4=-124			, oof Live (balanced)	: Lumbe	r Increase=1.	.15,					
BOT CHORD	5-6=-46/40, 6-7=-10 2-8=-493/1109, 7-8=			ease=1.15								
WEBS	4-8=0/235, 5-8=-25/2			oads (lb/ft)								
	4-0=0/235, 5-0=-25/	201, 5-7=-960/505		4=-70, 4-6=-70, 2-7	7=-20							
NOTES				ited Loads (lb)								
 this design. Wind: ASCL Vasd=91mp Ke=1.00; C exterior zon and right ex exposed;C- reactions sh DOL=1.60 Provide add This truss h chord live lc Bearings ar capacity of 	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC iat. II; Exp C; Enclose he and C-C Exterior(2 kposed ; end vertical I c for members and f hown; Lumber DOL= ⁻ equate drainage to pr has been designed for bad nonconcurrent wi re assumed to be: Joi	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever lift eft and right orces & MWFRS for 1.60 plate grip event water ponding r a 10.0 psf bottom th any other live load nt 2 SPF No.2 crush	12=-19 eft ds.	-64 (F), 8=-228 (F (F), 13=-19 (F)), 10=-64	· (F), 11=-64	(F),		-		OF PE-2001	T M. IER 018807



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	V1	Valley	1	1	Job Reference (optional)	170905842

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Page: 1



Scale :	1.05 /	2

Scale = 1:25.6												
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	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(TL)	n/a	-	n/a	999		
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							Weight: 23 lb	FT = 20%
				_							, , , , , , , , , , , , , , , , , , ,	
LUMBER				s designed in acco								
TOP CHORD				al Residential Cod			and					
BOT CHORD				and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S	 Standard 								
BRACING												
TOP CHORD	Structural wood she		ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	0 0 ,	applied or 10-0-0 o	С									
	bracing.											
REACTIONS	()											
	Max Horiz 1=104 (LC	,										
	Max Uplift 1=-57 (LC											
	Max Grav 1=294 (L0											
FORCES	(lb) - Maximum Corr Tension	pression/Maximum										
TOP CHORD		20/260										
BOT CHORD		29/209										
	1-343/49											
NOTES		(2 accord such)										
,	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC	· · · · ·										
	Cat. II; Exp C; Enclose											
	one and C-C Exterior(2											
) 5-11-5 to 7-5-12 zone											
	end vertical left and right	,	0									
	and forces & MWFRS											an
	OL=1.60 plate grip DC		,								OF J	MICON
	igned for wind loads in		ss								TE OF	MISSO
	studs exposed to wind									6	1221	N N
	lard Industry Gable En	· · · · · · · · · · · · · · · · · · ·	,,							B	SCOT	TM. Y
	qualified building desi									R	/ SEV	IER \ Y
	uires continuous botto											0 1
	ds spaced at 4-0-0 oc.									WK	1 sto	X IN
5) This truss	has been designed fo	r a 10.0 psf bottom								K)	Nev-	Lements.
chord live	load nonconcurrent wi	ith any other live loa	ds.							A S	NUM	
	gs are assumed to be	SP No.2 crushing								N.	O PE-2001	018807
capacity o										V V	AT 1	158
	echanical connection										1350	ENUR
	late capable of withstar	nding 57 lb uplift at j	oint								S'SIONA	LEY
1 and 72 l	lb uplift at joint 3.										an	and a
												y 22,2025
												, ,

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 **ANS/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)

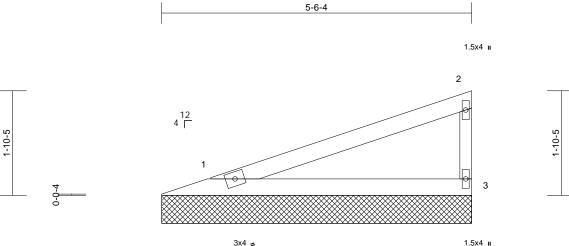
RELEASE AS NOTE TRUCTION **VIEW** DEVELOPMENSERVICES LEE'S' SUMMIT'S MISSOURI 02/04/2025 12:39:34

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 158	
P250045-01	V2	Valley	1	1	Job Reference (optional)	170905843

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 21 09:55:32 ID:uAa6P?bm9GKxDItTggMIAUzZIDm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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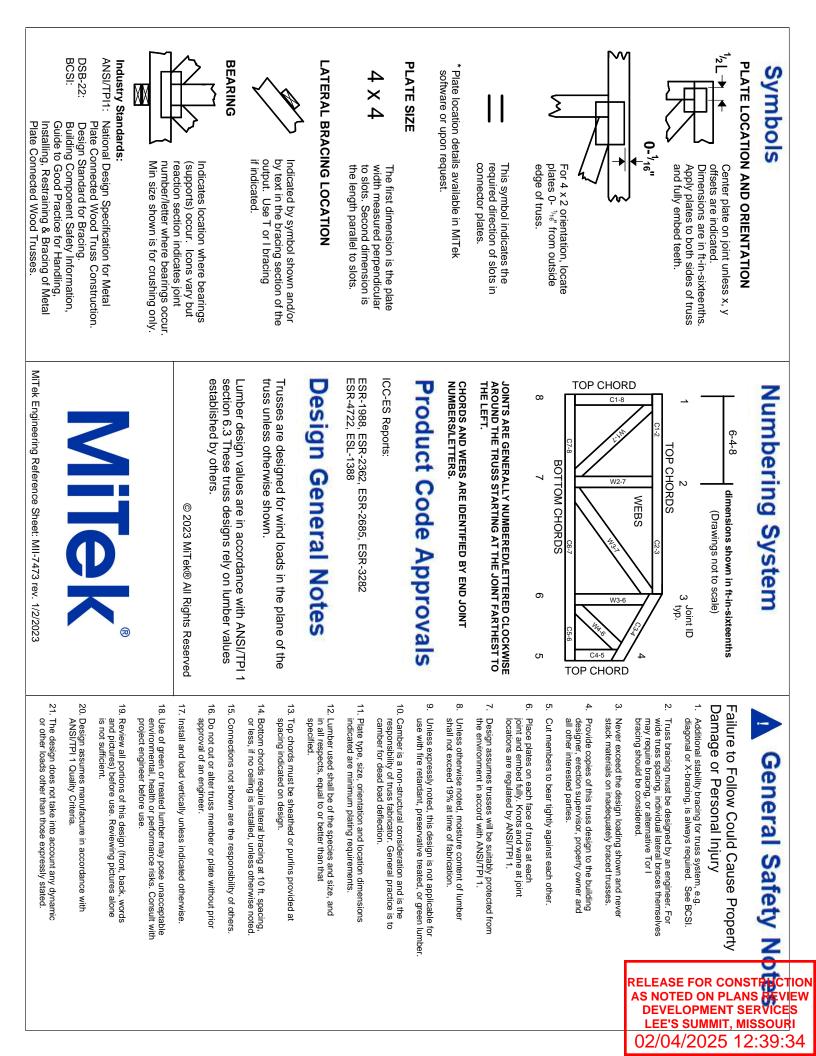


5-6-4

Scale = 1:20.5

Loading TCLL (PCL) (pst) (PATES) Spacing (PATES) 2.4-9 (PATES) CSI (PATES) (PATES)
TOP CHORD 2x4 SP No.2 International Residential Code sections RS02.11.1 and R02.10.2 and referenced standard ANSI/TPI 1. WEBS 2x3 SP FN o.2 LOAD CASE(S) Standard Structural wood sheathing directly applied or 5-7-0 oc purifies, except and verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Bracking Rigid ceiling directly applied or 10-0-10 oc bracing. Bracking (size) 1=5-6-4, 3=5-6.4 Max Ibrit 1=-39 (LO 8), 3=-50 (LC 12) Max Grav 1=204 (LC 1). FORCES FORCES (b) - Maximum Compression/Maximum Trension TOP CHORD 1-3=-1124 (LC 1), 3=-204 (LC 1). FORCES FORCES FORCES Collone of the plane of the truss on trension TOP CHORD 1-3=-102, 2-3=-159/204 BOT CHORD 1-3=-102, Ca thi Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C ExterNIC(ZE) zone; canilewer left and right exposed; end vertical left and specificable, or consult qualified building designer as apricable, end Space at NSI/TP1 1. Coll Cable requires continuous bottom chord bearing. Structure of 65 psi. Structure wide accease to wind locase in the plane of the truss on the deal onconcouncerent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint
January 22,2025

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 **ANS/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)



LEE'S SUMMIT, MISSOURI

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