

RE: P250392-01 Roof - BY Lot 1320

# Site Information:

Customer: Clayton Properties Project Name: P250392-01 Lot/Block: 1320 Model: Sienna Address: 1312 SE Windbreak Dr. City: Lee's Summit

Model: Sienna - Farmhouse Subdivision: Bailey Farms State: MO

# General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 37 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	166862696	B5	7/16/2024	21	166862716	D3	7/16/2024
2	166862697	B4	7/16/2024	22	166862717	D1	7/16/2024
3	166862698	B3	7/16/2024	23	166862718	V2	7/16/2024
4	166862699	B2	7/16/2024	24	166862719	J3	7/16/2024
5	166862700	B1	7/16/2024	25	166862720	LAY1	7/16/2024
6	166862701	E1	7/16/2024	26	166862721	V5	7/16/2024
7	166862702	E2	7/16/2024	27	166862722	C2	7/16/2024
8	166862703	E3	7/16/2024	28	166862723	C1	7/16/2024
9	166862704	E4	7/16/2024	29	166862724	J6	7/16/2024
10	166862705	E5	7/16/2024	30	166862725	J5	7/16/2024
11	166862706	E6	7/16/2024	31	166862726	J1	7/16/2024
12	166862707	LAY2	7/16/2024	32	166862727	D2	7/16/2024
13	166862708	A3	7/16/2024	33	166862728	V3	7/16/2024
14	166862709	A2	7/16/2024	34	166862729	J2	7/16/2024
15	166862710	A1	7/16/2024	35	166862730	J4	7/16/2024
16	166862711	A4	7/16/2024	36	166862731	V1	7/16/2024
17	166862712	G2	7/16/2024	37	166862732	V6	7/16/2024
18	166862713	G1	7/16/2024				
19	166862714	G3	7/16/2024				
20	166862715	V4	7/16/2024				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by . Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2026. Missouri COA: 001193

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



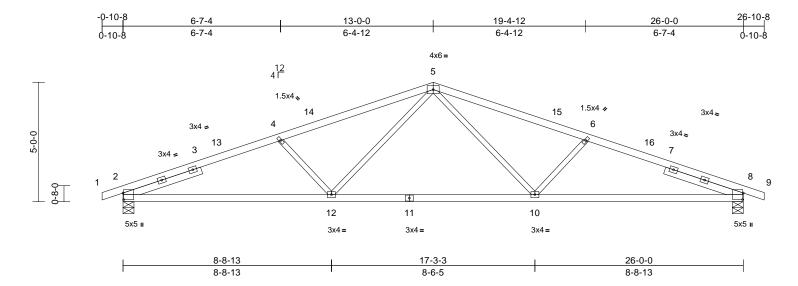
	July 16, 2024
Nathan Fox	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/17/2025 10:43:54

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	B5	Common	9	1	Job Reference (optional)	166862696

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:LICGyswr5OsBB2j9caufNtzxFdZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:48.3

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

	, , , , , , , , , , , , , , , , , , , ,												
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.99	DEFL Vert(LL)	in -0.16	(loc) 10-12	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.86	Vert(CT)	-0.34	2-12	>909	180	11120	10//111
BCLL	0.0	Rep Stress Incr	YES		WB	0.22	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 108 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 3 3-5-5 Structural wood she Rigid ceiling directly	athing directly applie	6) ed.	capacity of 5 Provide med bearing plate joint 2 and 2 This truss is International	hanical connection capable of withsta 45 lb uplift at joint & designed in accord Residential Code nd referenced stan	(by oth anding 2 3. lance w sections	ers) of truss t 45 lb uplift at ith the 2018 5 R502.11.1 a	t					
	bracing.	-11											
	(size) 2=0-5-8, 8 Max Horiz 2=-87 (LC Max Uplift 2=-245 (L Max Grav 2=1231 (L	C 8), 8=-245 (LC 9)											
FORCES	(lb) - Maximum Com Tension	<i>,,</i>	,										
TOP CHORD	1-2=-5/0, 2-4=-2512 5-6=-2224/562, 6-8=												
BOT CHORD	2-12=-514/2285, 10- 8-10=-518/2285	-12=-297/1634,											
WEBS	5-10=-108/654, 6-10 5-12=-108/654, 4-12												
NOTES												~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	The
this desigr 2) Wind: ASC	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC	(3-second gust)	r								A	TATE OF M	NY N

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 13-0-0, Exterior(2R) 13-0-0 to 18-0-0, Interior (1) 18-0-0 to 26-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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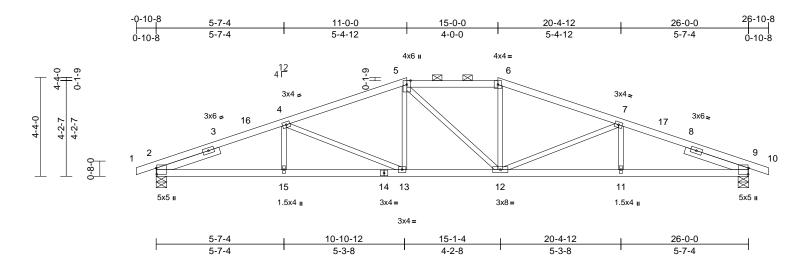
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Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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 - BY Lot 1320	
P250392-01	B4	Нір	1	1	Job Reference (optional)	166862697

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:43 ID:tl3b14IEKQIZx3k9ZfyTGvzxFeN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:50.6

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

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	0.68 0.66	DEFL Vert(LL) Vert(CT)	in -0.14 -0.27	13-15	l/defl >999 >999	L/d 240 180	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code	YES IRC2018	3/TPI2014	WB Matrix-S	0.41	Horz(CT)	0.10	9	n/a	n/a	Weight: 113 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Left 2x4 SP No.2 2 No.2 2-11-1 Structural wood she 2-9-1 oc purlins, exc 2-0-0 oc purlins (4-2 Rigid ceiling directly bracing. (size) 2=0-5-8, § Max Horiz 2=-73 (LC Max Uplift 2=-260 (L Max Grav 2=1231 (L (Ib) - Maximum Com Tension 1-2=-5/0, 2-4=-2560)	2-11-1, Right 2x4 SP athing directly applie ept -0 max.): 5-6. applied or 7-6-8 oc 2=0-5-8 :13) C 8), 9=-260 (LC 9) .C 1), 9=1231 (LC 1) ppression/Maximum	2) d or 3) 4) 5) 6) 7)	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 4 Exterior(2R) 26-10-8 zom vertical left a forces & MW DOL=1.60 p Provide adee This truss ha coard live loi All bearings capacity of 5 Provide met bearing plate joint 2 and 2 This truss is	7-16; Vult=115r h; TCDL=6.0psf; t. II; Exp C; Encl and C-C Exteri -1-8 to 11-0-0, E 15-0-0 to 22-0-1 e; cantilever left ind right exposed (FRS for reaction late grip DOL=1. quate drainage t ts been designed ad nonconcurrer are assumed to	BCDL=6.( losed; MW or(2E) -0-1 l4, Interior and right e d;C-C for n ns shown; 60 o prevent v d for a 10.0 th with any be SP No. ion (by oth- astanding 2 nt 9. ordance wi	Dipsf; h=35ft; FRS (envelop 0-8 to 4-1-8, 11-0-0 to 15 (1) 22-0-14 ti xposed ; end nembers and Lumber vater ponding 0 psf bottom other live loa 2 crushing ers) of truss t 60 lb uplift at th the 2018	5-0-0, o l g. ds.					
BOT CHORD	5-6=-1895/627, 6-7= 7-9=-2560/715, 9-10 2-15=-590/2318, 13- 12-13=-424/1895, 1 <sup>-</sup> 9-11=-608/2318	)=-5/0 -15=-590/2318,	8)	Graphical pu		on does no	ot depict the s	size					all the
WEBS	4-15=0/219, 4-13=-4 5-12=-182/184, 6-12 7-12=-495/189, 7-11	2=-28/303,	3, <b>L</b> C	AD CASE(S)	Sidnuaru						B	STATE OF M	AISSOUR
NOTES 1) Unbalance	d roof live loads have	been considered for									g.	S NATHA	X L

 Unbalanced roof live loads have been considered for this design.



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July 16,2024

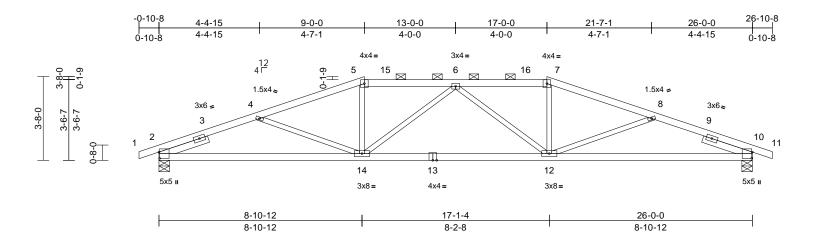
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Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	B3	Нір	1	1	Job Reference (optional)	166862698

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:43 ID:agcX?t?A\_2Hz3NvY9dWrIrzxFel-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.5

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

_oading	(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)	-0.17	2-14	>999	240	MT20	197/144
FCDL	10.0	Lumber DOL	1.15		BC	0.86	Vert(CT)	-0.38	2-14	>825	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.28	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		-					Weight: 109 lb	FT = 20%
UMBER			2)	Wind: ASCE	7-16; Vult=115m	nph (3-sec	ond aust)						
OP CHORD	2x4 SP No.2		,		; TCDL=6.0psf;								
BOT CHORD	2x4 SP No.2			Ke=1.00; Ca	t. II; Exp C; Enclo	osed; MW	FRS (envelop	be)					
WEBS	2x3 SPF No.2				and C-C Exterio								
SLIDER	Left 2x4 SP No.2 2	2-3-2, Right 2x4 SP I	No.2		2-7 to 9-0-0, Ext			-14,					
	2-3-2				6-0-14 to 17-0-0,								
BRACING				,	rior (1) 24-0-14 t		,	ver					
FOP CHORD	Structural wood she	athing directly applie	ed or		exposed ; end v								
	2-5-8 oc purlins, exc	cept			for members ar								
	2-0-0 oc purlins (3-1	,		DOL=1.60	own; Lumber DO	L=1.60 pi	ate grip						
BOT CHORD	Rigid ceiling directly	applied or 7-0-4 oc	3)		uate drainage to		vater ponding	,					
	bracing.		3) 4)		s been designed			J-					
	(size) 2=0-5-8, <sup>-</sup>		-)		ad nonconcurren			eh					
	Max Horiz 2=-61 (LC	,	5)		are assumed to b								
	Max Uplift 2=-272 (L			capacity of 5			j						
I	Max Grav 2=1231 (l	_C 1), 10=1231 (LC <sup>-</sup>	1) 6)	Provide mec	hanical connection	on (by oth	ers) of truss t	0					
ORCES	(lb) - Maximum Corr	pression/Maximum		bearing plate	capable of with	standing 2	72 lb uplift at						
	Tension			joint 2 and 2	72 lb uplift at join	t 10.							
FOP CHORD	1-2=-5/0, 2-4=-2503		, 7)		designed in acco								
	5-6=-2129/650, 6-7=		- 10		Residential Cod			nd					
	7-8=-2281/651, 8-10		-5/0		nd referenced sta								
BOT CHORD	2-14=-674/2257, 12	-14=-598/2342,	8)		rlin representatio			ize					
	10-12=-671/2257	E4/200 4 4 4 4 C2/	040		tion of the purlin	along the	top and/or						The
WEBS	5-14=-51/390, 7-12= 8-12=-162/212, 6-14		,	bottom chore								OFM	ALCON DIA
	8-12=-162/212, 6-12 6-12=-407/162	<del>==4</del> 07/10∠,	LC	DAD CASE(S)	Standard						G	TE OF M	W Ser
NOTES	0-12=-407/102										A	AT NATUA	N.S.

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



July 16,2024

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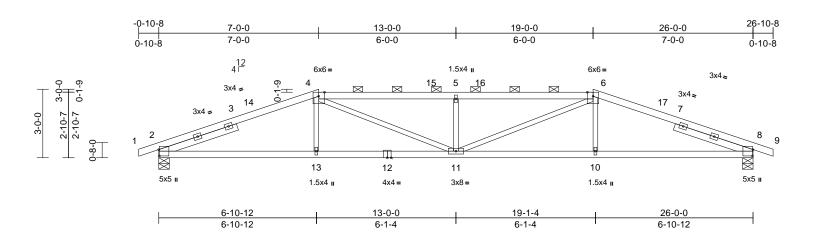
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Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	B2	Нір	1	1	Job Reference (optional)	166862699

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:43 ID:SvoBiceM2qVDTmcnPK\_o4WzxFfD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



## Scale = 1:50.4

Plate Offsets (X, Y):	[2:0-3-5,0-0-5], [8:0-3-5,0-0-5]
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.oading         (psf)         Spacing         2-0           CLL (roof)         25.0         Plate Grip DOL         1.1		CSI TC	0.96	DEFL Vert(LL)	in -0.20	(loc) 11	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
CDL 10.0 Lumber DOL 1.1		BC	0.69	Vert(CT)	-0.38	10-11	>831	180		
3CLL 0.0 Rep Stress Incr YE	S	WB	0.33	Horz(CT)	0.10	8	n/a	n/a		
CDL 10.0 Code IR	2018/TPI2014	Matrix-S							Weight: 108 lb	FT = 20%
UMBER           'OP CHORD         2x4 SP 1650F 1.5E *Except* 4-6:2x4 SP No.2           SOT CHORD         2x4 SP No.2           VEBS         2x3 SPF No.2           SLIDER         Left 2x4 SP No.2 3-7-3, Right 2x4 SP No.2	Vasd=91m Ke=1.00; C exterior zor Interior (1) Interior (1)	E 7-16; Vult=115mp oh; TCDL=6.0psf; B at. II; Exp C; Enclos le and C-C Exterior 4-1-8 to 7-0-0, Exte 14-0-14 to 19-0-0, 26 rior (1) 26-0-0 to 26	CDL=6.0 sed; MW (2E) -0-1 rior(2R) Exterior(2	Dpsf; h=35ft; FRS (envelop 0-8 to 4-1-8, 7-0-0 to 14-0 2R) 19-0-0 to	-14,					
COP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-6.	exposed;C- reactions sl DOL=1.60	posed ; end vertica C for members and nown; Lumber DOL	l forces a =1.60 pl	& MWFRS for ate grip						
SOT CHORD Rigid ceiling directly applied or 7-11-7 oc bracing.		as been designed f			J.					
REACTIONS (size)         2=0-5-8, 8=0-5-8           Max Horiz         2=48 (LC 16)           Max Uplift         2=-281 (LC 8), 8=-281 (LC 9)           Max Grav         2=1231 (LC 1), 8=1231 (LC 1)	<ol> <li>All bearings capacity of</li> <li>Provide me</li> </ol>	bad nonconcurrent are assumed to be 565 psi. chanical connection te capable of withst	e SP No. n (by oth	2 crushing ers) of truss t	0					
ORCES (Ib) - Maximum Compression/Maximum Tension	joint 2 and	281 lb uplift at joint designed in accor	8.							
OP CHORD 1-2=-5/0, 2-4=-2537/674, 4-5=-3050/872, 5-6=-3050/872, 6-8=-2537/674, 8-9=-5/0	Internationa	al Residential Code	sections	R502.11.1 a	nd					
30T CHORD 2-13=-538/2307, 11-13=-541/2302, 10-11=-548/2302, 8-10=-545/2307	8) Graphical p	and referenced star urlin representation	does no	ot depict the s	size					
VEBS 4-13=0/273, 4-11=-231/962, 5-11=-556/253, 6-11=-231/962, 6-10=0/273	or the orien bottom cho LOAD CASE(S		aiong the	iop and/or					TE OF M	AISS
IOTES ) Unbalanced roof live loads have been considered for	·	•						4	ANATHA	New Contraction

 Unbalanced roof live loads have been considered for this design.



July 16,2024

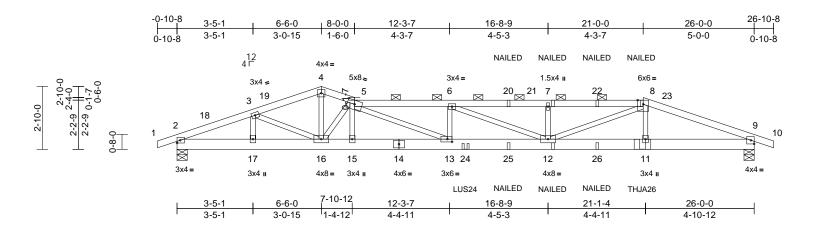
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Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	B1	Roof Special Girder	1	2	Job Reference (optional)	66862700

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:43 ID:dCN3Jx9GTYSugcY53wGQS4zxFfr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



### Scale = 1:51.9

## Plate Offsets (X, Y): [5:0-4-0,0-2-2], [13:0-2-8,0-1-8]

		[ ]											
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)	-0.26	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.93	Vert(CT)	-0.47	12-13	>656	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.44	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC20	8/TPI2014	Matrix-S	-						Weight: 224 lb	FT = 20%
LUMBER			2	) All loads are	considered equa	lly applie	d to all plies,		14) "NA	AILED" ii	ndicate	s Girder: 3-10d (	0.148" x 3") toe-nails
TOP CHORD	2x4 SP No.2			except if not	ed as front (F) or	back (B)	face in the LO	DAD	per	NDS gu	uideline	s.	
BOT CHORD	2x6 SPF No.2			CASE(S) see	ction. Ply to ply co	onnectior	s have been		LOAD	CASE(S	) Sta	ndard	
WEBS	2x3 SPF No.2			provided to c	listribute only loa	ds noted	as (F) or (B),			•	<i>'</i>		nber Increase=1.15,
BRACING				unless other	wise indicated.					ate Incre			,
TOP CHORD	Structural wood shea	athing directly appli	ed or 3	) Unbalanced	roof live loads ha	ve been	considered fo	or		niform L			
	5-4-6 oc purlins, exc		00.01	this design.					-				, 8-10=-70, 2-9=-20
	2-0-0 oc purlins (4-2		4		7-16; Vult=115m				C	oncentra			,,
BOT CHORD			ic.	Vasd=91mpl	n; TCDL=6.0psf; I	BCDL=6.	0psf; h=35ft;						2=-29 (B), 7=-97 (B),
201 0110112	bracing.				<ol> <li>II; Exp C; Enclo</li> </ol>								0 (B), 25=-29 (B),
REACTIONS		0-0-5-8			and C-C Exterio					26=-29		(2), 2	o (2), 20 20 (2),
REAGINGING	Max Horiz 2=-46 (LC				-1-8 to 6-6-0, Exte			О,			( )		
	Max Uplift 2=-345 (L	,			-0-0 to 21-0-0, Ex								
	Max Grav 2=1748 (L	, , , , , , , , , , , , , , , , , , , ,			or (1) 25-9-4 to 2			er left					
	,		,		osed ; end vertic								
FORCES	(lb) - Maximum Com Tension	pression/Maximum			for members an			r					
		000 0 4 070 4/000			own; Lumber DOI	L=1.60 pl	ate grip						
TOP CHORD			,	DOL=1.60				-					
	4-5=-3816/1021, 5-6 6-7=-6874/1879, 7-8		5		quate drainage to			g.					
	8-9=-4988/1375. 9-1		6		is been designed								
BOT CHORD	, -		-		ad nonconcurrent			ads.					
BOT CHORD	15-16=-1300/5346, 1	,	1		are assumed to b	e SPF N	5.2 crushing						
	12-13=-1836/7373, 1	,		capacity of 4									
	9-11=-1212/4576	11-12-1211/4002,	8		hanical connection capable of withs							000	The
WEBS	5-15=-42/60, 8-11=-3	33/434 3-17=-80/8	1		72 lb uplift at joint		45 ib upilit a	L				8. OF	MIC D
11LB0	3-16=-126/485, 4-16	,	', 0	,	designed in acco		ith the 2010				9	TATE OF N	1000
	5-16=-2864/732, 5-1		9		Residential Code			and			B	AN'	N SS
	8-12=-624/2539, 6-1				nd referenced sta			anu			R	S/ NATHA	NIEL Y
	6-12=-540/175, 7-12	,	1		rlin representatio			eize			4	FO	X
NOTES			1		ation of the purlin			5120			78 🖌	10.	1 - C
	s to be connected toget	bor with 10d		bottom chore		along the					a/	I II.	
	") nails as follows:		1		n Strong-Tie LUS	24 (4-10)	Girder 2-10	b(			VX.	A K	AL MAR
	ds connected as follows.	2 2 x 4 1 row of 0 0			uivalent at 13-0-0			~~			NJ	W Y WWW	ER 2/199
	as connected as 10110WS	5. 274 - 1 10w at 0-9	-0		s(es) to back face						N	O PE-2022	042259
oc.			1		S(CS) TO DACK TACE			l off			N	ALL - SOLL	128

12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left

connect truss(es) to back face of bottom chord. 13) Fill all nail holes where hanger is in contact with lumber.

Hand Hip) or equivalent at 20-11-10 from the left end to

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc.
- 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)



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July 16,2024

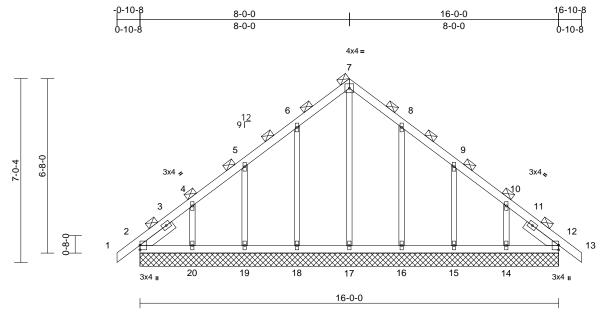
SIONAL

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	E1	Common Supported Gable	1	1	Job Reference (optional)	166862701

Scale = 1:44

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:zTnobfY4ATh0DdjBuqAsmEzxFSQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 82 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD OTHERS SLIDER	2x4 SP N 2x3 SPF I	0.2	1
BRACING TOP CHORD BOT CHORD	(Switched Rigid ceili	purlins (6-0-0 max.) I from sheeted: Spacing > 2-8-0). ing directly applied or 10-0-0 oc	
REACTIONS	bracing. (size) Max Horiz Max Uplift Max Grav	- ( - )	3) 4) 5) 6) 7) 8) 9)
FORCES	(lb) - Max Tension	imum Compression/Maximum	
TOP CHORD	1-2=0/42, 5-6=-235/ 8-9=-157/	2-4=-357/272, 4-5=-265/186, '229, 6-7=-236/415, 7-8=-236/415, '231, 9-10=-183/78, 91/152, 12-13=0/42	1
BOT CHORD	2-20=-13 18-19=-13 16-17=-13	1/364, 19-20=-131/364, 31/364, 17-18=-131/364, 31/364, 15-16=-131/364,	1
WEBS	7-17=-319 5-19=-299	31/364, 12-14=-131/364 9/80, 6-18=-323/262, 9/303, 4-20=-326/380, 3/264, 9-15=-303/304, 12/376	L
NOTES			

Unbalanced roof live loads have been considered for 1) 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) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 8-0-0, Corner(3R) 8-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 16-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 2, 15 lb uplift at joint 12, 181 lb uplift at joint 18, 170 lb uplift at joint 19, 249 lb uplift at joint 20, 176 lb uplift at joint 16, 174 lb uplift at joint 15 and 235 lb uplift at joint 14.
- 0) 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.
- 1) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OAD CASE(S) Standard



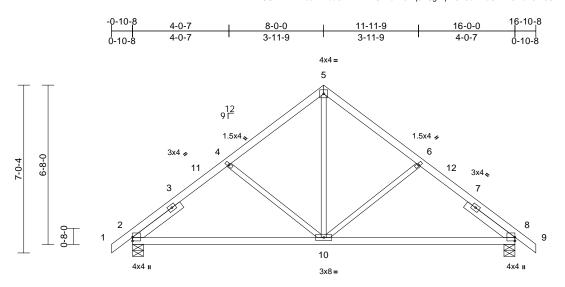
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component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



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	E2	Common	1	1	Job Reference (optional)	166862702

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:?MLvUUN2?fhrrHbsLNBubGzxFAZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



				<u>8-0-0</u> 8-0-0				<u>6-0-0</u> 3-0-0				
Scale = 1:48.2				8-0-0				5-0-0				
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	TC	0.21	Vert(LL)	-0.08	2-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.17	2-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	8	n/a	n/a		

BCDL

LUMBER		
TOP CHORD	2x4 SP No.	2
BOT CHORD	2x4 SP No.	2
WEBS	2x3 SPF No	o.2
SLIDER	Left 2x4 SP	No.2 2-5-11, Right 2x4 SP
	No.2 2-5-	·11
BRACING		
TOP CHORD	Structural v	vood sheathing directly applied or
	6-0-0 oc pu	Irlins.
BOT CHORD	Rigid ceiling	g directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size) 2	2=0-5-8, 8=0-5-8
	Max Horiz 2	2=-186 (LC 10)
	Max Uplift 2	2=-118 (LC 12), 8=-118 (LC 13)
	Max Grav 2	2=781 (LC 1), 8=781 (LC 1)
FORCES	(lb) - Maxim	num Compression/Maximum
	Tension	
TOP CHORD		2-4=-896/197, 4-5=-688/190,

10.0

Code

5-6=-688/190, 6-8=-895/197, 8-9=0/21 2-10=-145/681, 8-10=-69/643 BOT CHORD WEBS 5-10=-98/441, 4-10=-245/201, 6-10=-246/201

## NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-11-0, Interior (1) 3-11-0 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 16-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 2 and 118 lb uplift at joint 8.

Matrix-S

This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

IRC2018/TPI2014



Weight: 78 lb

FT = 20%

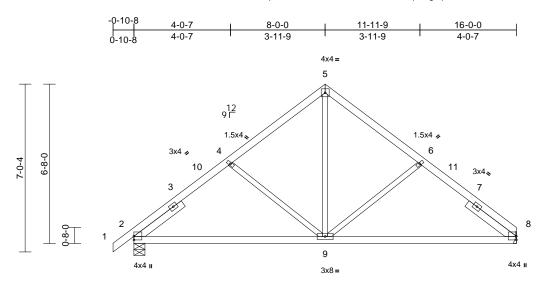
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component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



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	E3	Common	2	1	Job Reference (optional)	166862703

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:HY28PNq7N0R8tSE4HnNes3zxFCa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



			L	8-0-0		1		16-0-0				
				8-0-0		1		8-0-0				
Scale = 1:48.2											-	
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	0.22	Vert(LL)	-0.08	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%

### LUMBER

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF	No.2
SLIDER	Left 2x4 S	SP No.2 2-5-11, Right 2x4 SP
	No.2 2-	
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	6-0-0 oc j	ourlins.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-5-8, 8= Mechanical
	Max Horiz	2=183 (LC 9)
	Max Uplift	2=-119 (LC 12), 8=-96 (LC 13)
	Max Grav	2=783 (LC 1), 8=718 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	•
	1 2 0/21	2 4 900/109 4 E 601/101

- TOP CHORD 1-2=0/21, 2-4=-899/198, 4-5=-691/191, 5-6=-691/192, 6-8=-900/201 BOT CHORD 2-9=-151/678, 8-9=-83/650
- WEBS 5-9=-101/446, 4-9=-245/201, 6-9=-251/205 NOTES
- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-11-0, Interior (1) 3-11-0 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 8 and 119 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.

LOAD CASE(S) Standard



**DEVELOPMENT SERVICES** LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:55

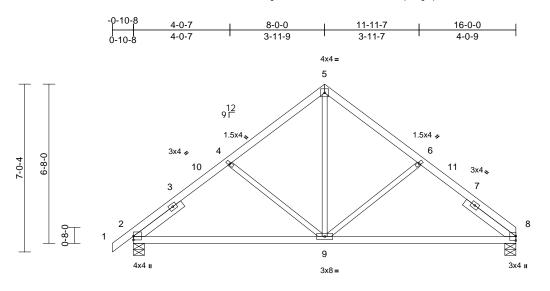
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual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

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	E4	Common	4	1	Job Reference (optional)	166862704

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:wlbY\_10\_gexrEDTRTkrEAlzxFQX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



				8-0-0 8-0-0		+		<u>16-0-0</u> 8-0-0				
Scale = 1:48.2				8-0-0				8-0-0				
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	TC	0.22	Vert(LL)	-0.08	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%

Lι	JN	ΛB	E	R

LUWBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF I	No.2
SLIDER	Left 2x4 S	P No.2 2-5-11, Right 2x4 SP
	No.2 2-	6-15
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-5-8, 8=0-5-8
	Max Horiz	2=183 (LC 9)
	Max Uplift	2=-119 (LC 12), 8=-96 (LC 13)
	Max Grav	2=783 (LC 1), 8=718 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum

- Tension TOP CHORD 1-2=0/21, 2-4=-899/198, 4-5=-691/191, 5-6=-691/193, 6-8=-899/201 2-9=-151/678, 8-9=-83/650 BOT CHORD
- WEBS 5-9=-101/446, 4-9=-245/201, 6-9=-251/204 NOTES
- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-11-0, Interior (1) 3-11-0 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 8 and 119 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.

LOAD CASE(S) Standard



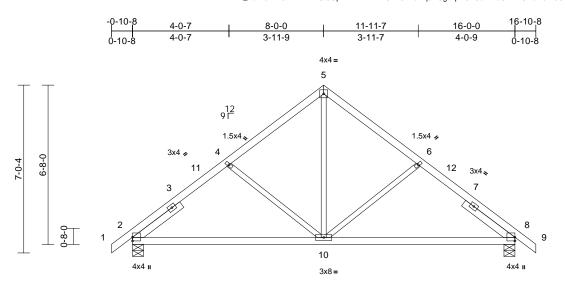
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component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



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	E5	Common	5	1	Job Reference (optional)	166862705

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:\_YuWsvNk9MFNN4wGt6OpXZzxFRM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



				8-0-0			1	6-0-0				
			I	8-0-0	I		8	3-0-0			I	
Scale = 1:48.2												
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	0.21	Vert(LL)	-0.08	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%

LUMBER

LUIVIDER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF I	No.2
SLIDER	Left 2x4 S	SP No.2 2-5-11, Right 2x4 SP
	No.2 2-	6-15
BRACING		
TOP CHORD	Structural 6-0-0 oc p	I wood sheathing directly applied opurlins.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
REACTIONS	(size)	2=0-5-8, 8=0-5-8
	Max Horiz	2=186 (LC 11)
	Max Uplift	2=-118 (LC 12), 8=-118 (LC 13)
	Max Grav	2=781 (LC 1), 8=781 (LC 1)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	··· ,	2-4=-896/197, 4-5=-688/190, /190, 6-8=-895/197, 8-9=0/21

2-10=-145/681, 8-10=-68/643 BOT CHORD WEBS 5-10=-98/442, 4-10=-245/201, 6-10=-245/201 NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-11-0, Interior (1) 3-11-0 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 16-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing 4) capacity of 565 psi.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 2 and 118 lb uplift at joint 8.

This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

or



**DEVELOPMENT SERVICES** LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:55

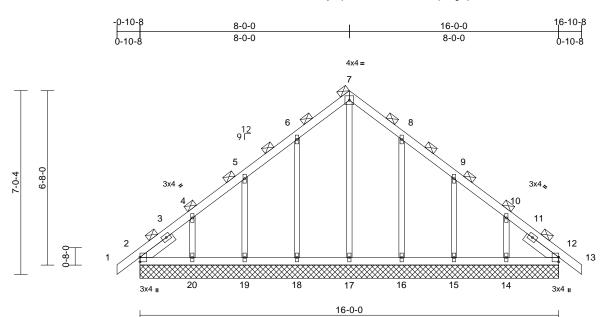
TION

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

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	E6	Common Supported Gable	1	1	Job Reference (optional)	166862706

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:zTnobfY4ATh0DdjBuqAsmEzxFSQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Lumber DOL	4-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.14 0.09 0.31	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 82 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 1-6-2 2-0-0 oc purlins (6-0 (Switched from shee Rigid ceiling directly bracing. (size) 2=16-0-0, 15=16-0-0 (Max Horiz 2=372 (LC Max Uplift 2=-372 (LC 14=-235 ( 16=-176 ( 19=-170 ( Max Grav 2=387 (LC 14=-399 (LC)	ted: Spacing > 2-8-0) applied or 10-0-0 oc 12=16-0-0, 14=16-0-1 1, 16=16-0-0, 17=16-0 1, 19=16-0-0, 20=16-0 1, 19=16-0-0, 20=16-0 1, 19=16-0-0, 20=16-0 1, 10=10 1, 10=10 1	2) 5.2	this design. Wind: ASCE Vasd=91mpl Ke=1.00; Cat exterior zone Exterior(2N) Exterior(2N) Exterior(2N) ight exposed for members Lumber DOL Truss design only. For stu see Standarc or consult qu All plates are Gable requirr Gable studs This truss ha chord live loa All bearings a capacity of 5 Provide mecl bearing plate	roof live loads have 7-16; Vult=115mp ; TCDL=6.0psf; B t. II; Exp C; Enclos and C-C Corner(C 4-0-0 to 8-0-0, Cor 13-0-0 to 16-10-8 ; d; end vertical left and forces & MWI =1.60 plate grip D hed for wind loads ds exposed to wind lindustry Gable Er alified building des 1.5x4 MT20 unles es continuous botto spaced at 2-0-0 oc s been designed for dn onconcurrent v are assumed to be 65 psi. hanical connection o capable of withsta at joint 12, 181 lb	h (3-sec CDL=6. CDL=6. CDL=6. CDL=6. (3R) Zone; cc and righ FRS for OL=1.60 in the p d (norm nd Deta signer as so other or a 10.0 vith any SP No.	ond gust) opsf; h=35ft; FRS (envelop -8 to 4-0-0, 8-0-0 to 13-( intilever left a: t exposed; C- reactions sho ane of the tru al to the face b as applica b per ANSI/TI vise indicated d bearing. ) psf bottom other live loa 2 crushing ers) of truss t 6 lb uplift at j	pe) D-0, and -C own; Jss ble, PI 1. d. d. ds.					
FORCES	(lb) - Maximum Com Tension 1-2=0/42, 2-4=-357/2 5-6=-235/229, 6-7=- 8-9=-157/231, 9-10=	272, 4-5=-265/186, 236/415, 7-8=-236/41;	5, 1C	uplift at joint joint 16, 174 14. )) This truss is	19, 249 lb uplift at lb uplift at joint 15 designed in accord	joint 20, and 235 lance w	176 lb uplift lb uplift at jo th the 2018	at int			Å	TATE OF I	MISSOLU
BOT CHORD	10-12=-291/152, 12- 2-20=-131/364, 19-2 18-19=-131/364, 17- 16-17=-131/364, 15- 14-15=-131/364, 12-	-13=0/42 20=-131/364, -18=-131/364, -16=-131/364, -14=-131/364		R802.10.2 ar ) Graphical pu		dard AN does no	SI/TPI 1. ot depict the s			,	K	S NATHA FO	X
WEBS NOTES	7-17=-319/80, 6-18= 5-19=-299/303, 4-20 8-16=-318/264, 9-15 10-14=-312/376	)=-326/380,		(-)							A.	PE-2022	ENGIL

July 16,2024



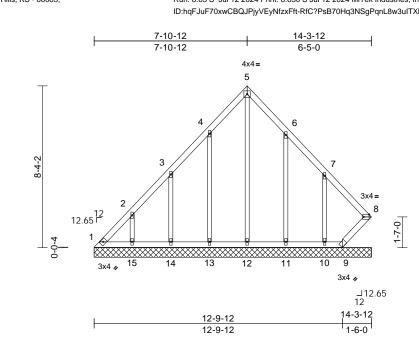
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use,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

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	LAY2	Lay-In Gable	1	1	Job Reference (optional)	166862707

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:hqFJuF70xwCBQJPjyVEyNfzxFft-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

TION **IEW** 



Scale = 1:59.5

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

				_										
Loading	(n	sf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		5.0	Plate Grip DOL	1.15		TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		0.0	Lumber DOL	1.15		BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL		).0	Rep Stress Incr	YES		WB	0.19	Horiz(TL)	0.00	8	n/a	n/a		
BCDL		0.0	Code		18/TPI2014	Matrix-S	0.10	110112(112)	0.00	Ũ	n/a	n/a	Weight: 75 lb	FT = 20%
BCDL		0.0	Code	IKCZ	10/1112014	Wattix-S							weight. 75 ib	F T = 2076
LUMBER TOP CHORD BOT CHORD OTHERS					Vasd=91mp Ke=1.00; Ca	7-16; Vult=115m h; TCDL=6.0psf; E at. II; Exp C; Enclo e and C-C Exterio	BCDL=6. sed; MW	0psf; h=35ft; /FRS (envelop	be)					
BRACING					Interior (1) 5	-4-1 to 7-11-0, Ex	terior(2R	) 7-11-0 to						
TOP CHORD	Structural woo	d cho	athing directly applied	tor	12-11-0, Inte	erior (1) 12-11-0 to	o 14-1-9 :	zone; cantilev	er					
	6-0-0 oc purlins		at my unectly applied	101	left and right	exposed ; end ve	ertical left	and right						
BOT CHORD			applied or 10-0-0 oc		exposed;C-0	C for members and	d forces	& MWFRS for						
	bracing.	lectry				own; Lumber DOL	L=1.60 pl	ate grip						
REACTIONS	0	1-3-12	2, 8=14-3-12, 9=14-3-	12.	DOL=1.60									
	. ,		12, 11=14-3-12,	,		ned for wind load								
			12, 13=14-3-12,			uds exposed to wi								
	14=1	14-3-1	12, 15=14-3-12			d Industry Gable I								
	Max Horiz 1=22	21 (LC	C 9)			ualified building de e 1.5x4 MT20 unle								
	Max Uplift 1=-8	6 (LC	10), 8=-115 (LC 11),		/				1.					
	. 9=-1	86 (L	C 13), 10=-165 (LC 1	31		es continuous bot spaced at 0-0-0 c		d bearing.						
	11=-	130 (	LC 13), 13=-134 (LC			as been designed		0 pof bottom						
	14=-	139 (	LC 12), 15=-137 (LC	12)		ad nonconcurrent			40					
	Max Grav 1=2	16 (LC	C 12), 8=302 (LC 13),			are assumed to b			us.					
	9=11	16 (LC	C 11), 10=219 (LC 20)	),	capacity of 5		UC OF NU	2 crushing						
	11=2	211 (L	_C 20), 12=153 (LC 22	2),		chanical connectio	n (hy oth	ore) of truce t	<u> </u>					
			_C 19), 14=206 (LC 19 _C 19)	9),	bearing plate	e capable of withs	tanding 8	36 lb uplift at j	oint					
FORCES		``	pression/Maximum			lift at joint 8, 186 lt								an
IONOLO	Tension	Com	pression/maximum			15, 139 lb uplift a							TATE OF	MIG
TOP CHORD		2-3	190/132, 3-4=-137/87	,		Ib uplift at joint 11	1 and 16	5 lb uplift at jo	int				ARE	UTIS'S
			147/133, 6-7=-114/54		10.							4		N.S.
	7-8=-187/119	0 0-	111/100, 07-111/01	,		te or shim required		de full bearing	9			A	S NATHA	NIEL YEN
BOT CHORD		14-1	5=-107/168			truss chord at joir						И	/ AFO	
Bot officite	13-14=-107/16					designed in accord						RL	a f	" A THEY
	11-12=-107/16	'	,			Residential Code			na			ar		
	9-10=-107/168					nd referenced sta	indard Al	NSI/TPT1.				W.	la lhais	K TEN
WEBS	2-15=-187/154				LOAD CASE(S)	Standard						VX H	NY YANN	BER JARY
	4-13=-186/157											N	PE-2022	042259 184
	6-11=-184/154	·	,									X	PE-2022	SB
NOTES		,0										Y	100	1 AB
	od roof live leade	hove	been considered for										SIONA	TENS
this design		nave	Deen considered for										UNA A	
uns desig													all a	
													July	y 16,2024
														-

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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) DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 06/17/2025 10:43:55

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	A3	Common	1	1	Job Reference (optional)	166862708

Loading

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

FORCES

WEBS

NOTES 1)

2)

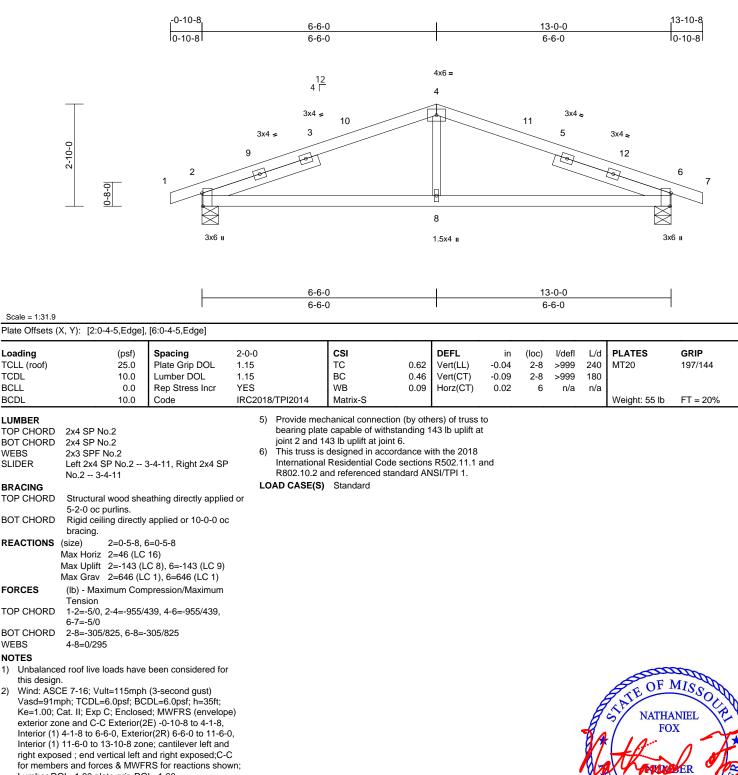
LUMBER

TCLL (roof)

Run: 8.63 S. Jul 12 2024 Print: 8.630 S. Jul 12 2024 MiTek Industries. Inc. Mon. Jul 15 11:15:43 ID:JzmRssdE8qanYFwthS?tLWzxFhp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



13-10-8



This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 4) capacity of 565 psi.

Lumber DOL=1.60 plate grip DOL=1.60

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



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July 16,2024

PE-2022042259

SSIONAL

Job		Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392	2-01	A2	Hip	1	1	Job Reference (optional)	166862709

5-0-0

5-0-0

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

-0-10-8

0-10-8

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:42 ID:BTUW8PT4CqydUFQNQEGqJmzxFi0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

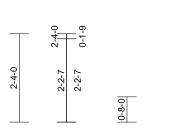


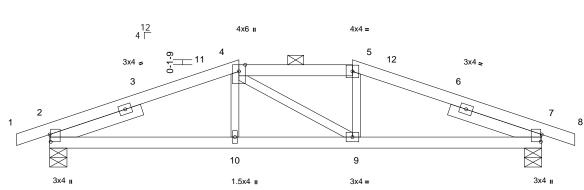
13-0-0

5-0-0

13-10-8

0-10-8





8-0-0

3-0-0

4-10-12	8-1-4	13-0-0
4-10-12	3-2-8	4-10-12

Scale = 1:30.4 Plate Offsets (X, Y): [2:0-2-5,0-0-5], [7:0-2-5,0-0-5]												
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	2-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	2-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%

BCDL	10.0 Code	IRC2018/1P	12014	Matrix-S		Weight: 56 lb	FI = 20
LUMBER TOP CHORD BOT CHORD WEBS SLIDER		ca 6) Pr be 5.2 joi 7) Th	pacity of 56 ovide mech aring plate nt 2 and 15 iis truss is o	nanical connection (by oth capable of withstanding 1 4 lb uplift at joint 7. designed in accordance wi	ers) of truss to 154 lb uplift at ith the 2018		
BRACING				Residential Code sections			
TOP CHORD	5-9-11 oc purlins, except 2-0-0 oc purlins (5-11-7 max.): 4-5.	or 8) Gr or	aphical pur	d referenced standard AN lin representation does no tion of the purlin along the	ot depict the size		
BOT CHORD	Rigid ceiling directly applied or 9-2-5 oc bracing.		CASE(S)				
REACTIONS	(size) 2=0-5-8, 7=0-5-8 Max Horiz 2=36 (LC 12) Max Uplift 2=-154 (LC 8), 7=-154 (LC 9) Max Grav 2=646 (LC 1), 7=646 (LC 1)						
FORCES	(lb) - Maximum Compression/Maximum Tension						
TOP CHORD	1-2=-5/0, 2-4=-1053/527, 4-5=-923/551, 5-7=-1053/535, 7-8=-5/0						
BOT CHORD		927					
WEBS	4-10=0/161, 4-9=-119/120, 5-9=0/161						
NOTES							

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-0-0, Exterior(2E) 5-0-0 to 13-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
  4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

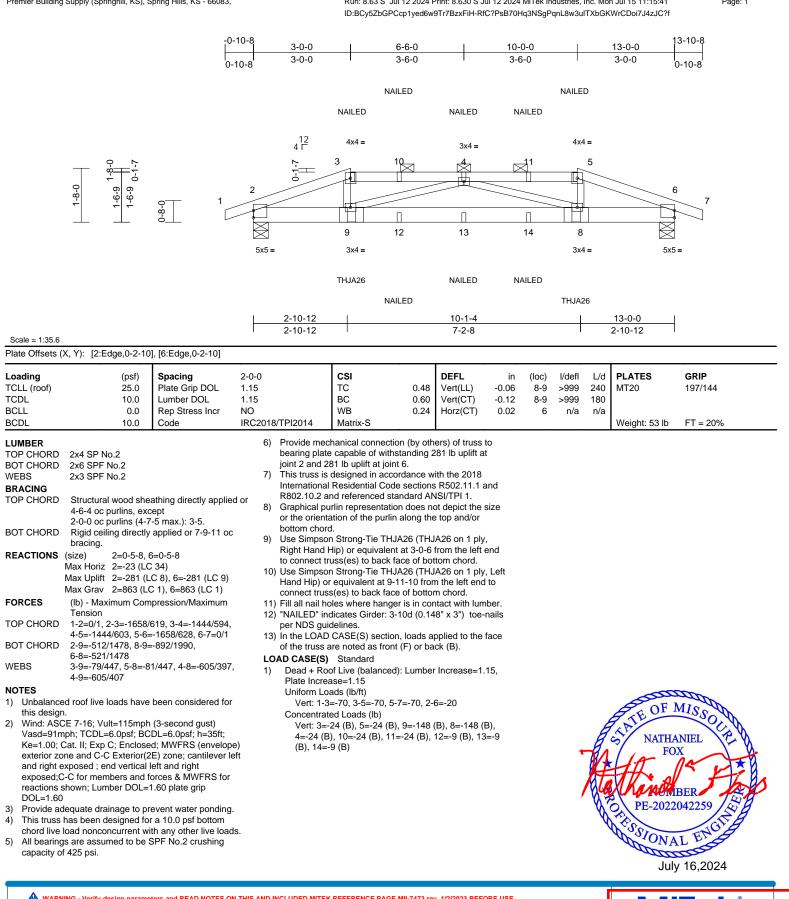


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Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	A1	Hip Girder	1	1	Job Reference (optional)	166862710

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:41

Page: 1



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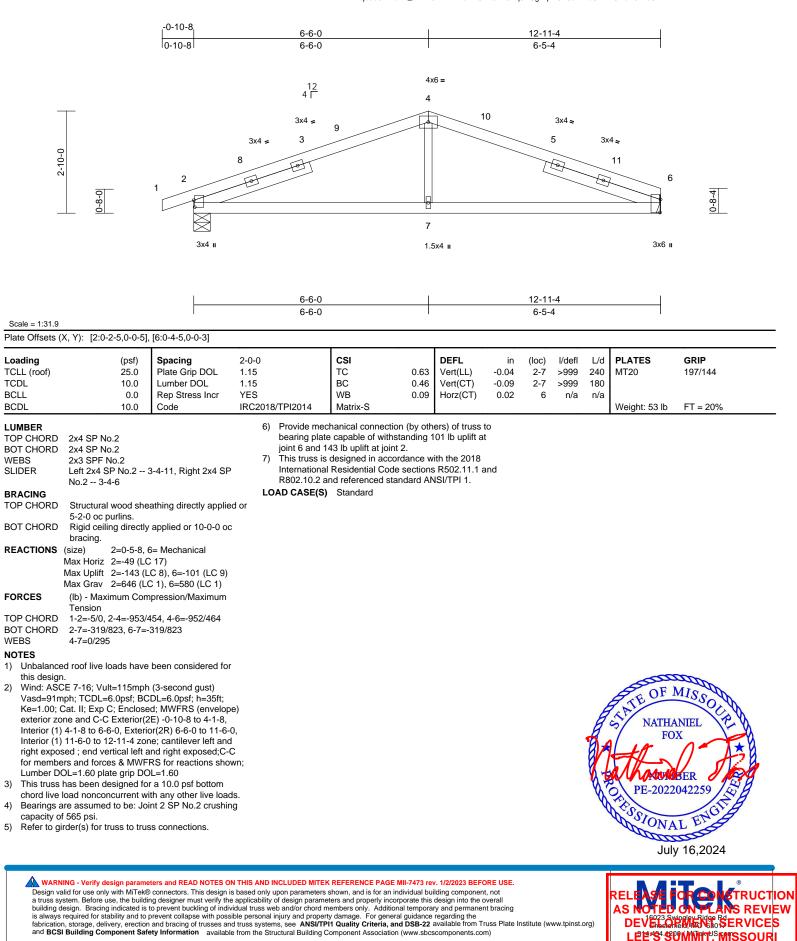


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	A4	Common	3	1	Job Reference (optional)	166862711

Run: 8.63 S. Jul 12 2024 Print: 8.630 S. Jul 12 2024 MiTek Industries. Inc. Mon. Jul 15 11:15:43 ID:vfcjoeo0r7LoEP\_aVPF9wTzxFhb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

**DEVELOPMEN** SERVICES LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:56

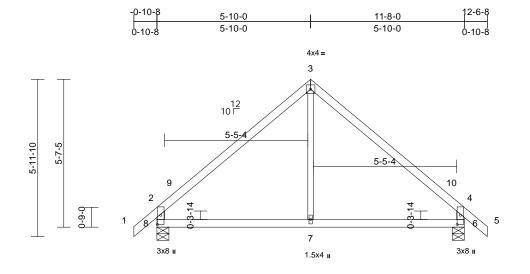


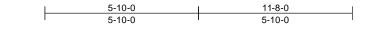
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	G2	Common	2	1	Job Reference (optional)	166862712

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:KybgmexPJUHvfiEQCBTNemzxF7G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1





## Plate Offsets (X, Y): [6:0-4-4,0-1-8], [8:0-4-4,0-1-8]

Scale = 1:43.7

													-
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.47	Vert(LL)	0.03	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.30	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.08	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R							Weight: 49 lb	FT = 20%
LUMBER			5)	Provide mod	hanical connection	on (by oth	ere) of truce	to					
TOP CHORD	2x4 SP No.2		5)		e capable of withs								
BOT CHORD				01	uplift at joint 6.	stantaning o	o io upint at	John					
WEBS	2x4 SP No.2 *Excep	+* 7 2.2v2 CDE No 2	6)		designed in acco	rdance w	ith the 2018						
BRACING	ZX4 OF NU.Z EXCEP	1 7-3.2X3 3FF NU.2			Residential Code			and					
TOP CHORD	Chruchtural was all also	مغامنهم والمومغان ومحاله	بم ام ب		nd referenced sta								
TOP CHORD	Structural wood she 6-0-0 oc purlins, exe		L	DAD CASE(S)	Standard								
BOT CHORD					etandara								
BOTCHORD	bracing.	applied of 10-0-0 of											
REACTIONS	(size) 6=0-5-8, 8	8-0-5-8											
	Max Horiz 8=178 (LC												
	Max Uplift 6=-89 (LC	,											
	Max Grav 6=583 (LC												
FORCES	(	,, ( ,											
FURCES	(lb) - Maximum Com Tension	pression/waximum											
TOP CHORD	1-2=0/46, 2-3=-531/	180 3-4-531/170											
	,	, ,											
BOT CHORD													
	0.0,200												
	od roof live loade have	boon considered for											
,		been considered for											
		(3-second qust)										~	The second se
												A	and
			e)									B.F. OF I	MISS W
	one and C-C Exterior(2		-,								E	7.51	N'SON
	) 4-1-8 to 5-10-0, Exter										8	NATHA	NIET XX
10-10-0, lr	nterior (1) 10-10-0 to 1	2-6-8 zone; cantileve	ər								R		
BOT CHORD WEBS <b>NOTES</b> 1) Unbalance this design 2) Wind: ASC Vasd=91m Ke=1.00; ( exterior zo Interior (1)	4-5=0/46, 2-8=-537/ 7-8=0/331, 6-7=0/33 3-7=0/253 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 ) 4-1-8 to 5-10-0, Exter	252, 4-6=-537/252 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-10-8 to 4-1-8, ior(2R) 5-10-0 to	pe)									STATE OF M	MISSOLRI NIEL

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. All bearings are assumed to be SP No.2 crushing 4) capacity of 565 psi.



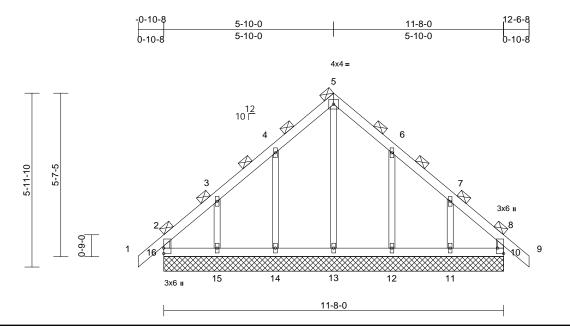
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only 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 - BY Lot 1320	
P250392-01	G1	Common Supported Gable	1	1	Job Reference (optional)	166862713

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:RNmtDqGvFaLiZFXrU8\_Uw9zxF87-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.5

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

	( , , [3-,]												
Loading	(psf)	Spacing	4-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.31	Vert(LL)	n/a	(.00)	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO		WB	0.31	Horz(CT)	0.00	10	n/a	n/a	1	
BCDL	10.0	Code		3/TPI2014	Matrix-R	0.01		0.00				Weight: 57 lb	FT = 20%
DODE	10.0	Oute	11(02010	5/1112014	Matrix IX							Weight. 57 lb	11 = 2070
LUMBER			2)	Wind: ASCE	7-16; Vult=115m	ph (3-sec	cond gust)						
TOP CHORD	2x4 SP No.2			Vasd=91mp	h; TCDL=6.0psf; I	BCDL=6.	0psf; h=35ft;						
BOT CHORD	2x4 SP No.2				it. II; Exp C; Enclo								
WEBS	2x3 SPF No.2				e and C-C Corner								
OTHERS	2x3 SPF No.2				3-10-0 to 5-10-0,								
BRACING					erior(2N) 10-10-0			ever					
TOP CHORD	2-0-0 oc purlins (6-0	)-0 max.), except end	b		exposed ; end ve								
	verticals				c for members an								
	(Switched from shee	eted: Spacing > 2-8-0	)).		own; Lumber DOI	∟=1.60 pl	ate grip						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	3)	DOL=1.60	ned for wind load	o in the -	long of the tr	100					
	bracing.		3)		ids exposed to wi								
REACTIONS	(size) 10=11-8-0	0, 11=11-8-0, 12=11-	8-0,		d Industry Gable								
		0, 14=11-8-0, 15=11-	8-0,		alified building de								
	16=11-8-0		4)		e 1.5x4 MT20 unle								
	Max Horiz 16=353 (I		5)		tion Tolerance at								
	Max Uplift 10=-75 (L		3), 6)		es continuous bo			,,,,					
		(LC 13), 14=-190 (LC	· /)		ully sheathed from								
		(LC 12), 16=-115 (LC			nst lateral movem								
	Max Grav 10=319 (I				spaced at 2-0-0 d		0 ,						
		LC 20), 13=378 (LC 2		This truss ha	as been designed	for a 10.	0 psf bottom						
	14=409 (I 16=349 (I	LC 19), 15=398 (LC 1	19),	chord live loa	ad nonconcurrent	with any	other live loa	ds.					
	,	,	10	) All bearings	are assumed to b	e SP No.	2 crushing						
ORCES	(lb) - Maximum Com	npression/Maximum		capacity of 5									(The
TOP CHORD	Tension 2-16=-294/206, 1-2=	0/00 2 2 220/202	11		hanical connection							O OF	ALL OL
		=0/88, 2-3=-229/202, ·262/522, 5-6=-261/5	0E		e capable of withs							TATE OF	WIISS OF
	6-7=-139/267, 7-8=-	,	20,		ift at joint 10, 190						4		NUS
	8-10=-286/212	103/143, 0-3=0/00,			15, 191 lb uplift a	at joint 12	and 253 lb up	olift			d	S NATH	ANIEL YEN
BOT CHORD		-15=-155/260	10	at joint 11.							И	FO	
	13-14=-155/260, 12		12		designed in acco						R.		
	11-12=-155/260, 10	,			Residential Code			nd			ar		1 4 8
NEBS	5-13=-467/114, 4-14		10		nd referenced sta						W	alhan	1 Into
	3-15=-298/414, 6-12		13		Irlin representatio ation of the purlin			size			2		BER
	7-11=-298/413	,		bottom chore		along the	top anu/or				N.	O PE-2022	042259
NOTES											N	The source of the second	124
	ed roof live loads have	heen considered for		DAD CASE(S)	Siandard						Y	A CP	JON B
this design												SSIONA	TENA
												CONF	
													v 16 2024

July 16,2024

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:56

TION 'IEW



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	G3	Common Girder	1	2	Job Reference (optional)	166862714

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID: 2QFI?hT?x?pfxTbtnRFiQ1zxF6a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fficture and the second statement of the second st

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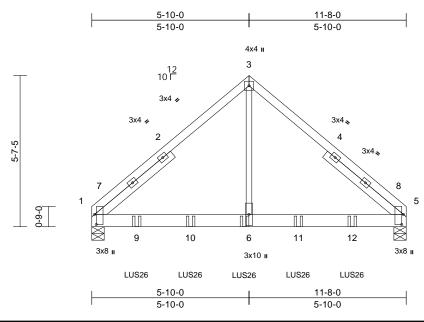


Plate Offsets (X, Y):	[1:0-4-8,0-0-12], [5:0-4-8,0-0-12]
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Loading       (psf)       Spacing       2-0-0       CSI       DEFL       in       (loc)       Udd       Lud       PLATES       GRIP         TCLL       0.0       Rep Stress Incr       NO       EC       0.0       For Units       11:5       TC       0.25       VertUL       -0.04       5-6       >999       160         BCLL       0.0       Rep Stress Incr       NO       Code       INC2018TTPI2014       Matrix-S       PLATES       GRIP         LUMBER       10.0       Code       IRC2018TTPI2014       Matrix-S       Matrix-S       PLATES       GRIP         S0T CHORD       2x4 SP No.2       Structural wood sheathing directly applied of 10-0-0 cote       Interior (1) 5-21 to 5-10.2       Structural wood sheathing directly applied or 10-0-0 cote       10-10-0.1 to 11-54 to 52-12 to 5-10.0 to 10-10-0.1 to 10-160 plats grip       FOP CHORD       Structural wood sheathing directly applied or 10-0-0 cote       10-10-0.1 to 10-160 plats grip       FOD CHORD       Rigid celling directly applied or 10-0-0 cote       10-10-160 plats grip       FOD CHORD       Structural wood sheathing directly applied or 10-0-0 cote       For No 10-160 plats grip       FOD CHORD       Structural wood sheathing directly applied or 10-0-0 cote       For No 10-160 plats grip       For No		[0.0 . 0,0 0]									
SLIDER Left 2x4 SP No.2 - 3-7-15, Right 2x4 SP No.2 - 3-7-	TCLL (roof)         25.0         F           TCDL         10.0         L           BCLL         0.0         F           BCDL         10.0         C           LUMBER         TOP CHORD         2x4 SP No.2	Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr NC	15 15 0 C2018/TPI2014 4) Wind: ASCE Vasd=91mph Ke=1.00; Cat	TC         0.25           BC         0.65           WB         0.41           Matrix-S           7-16; Vult=115mph (3-see ; TCDL=6.0psf; BCDL=6           II; Exp C; Enclosed; MV	Vert(LL) Vert(CT) Horz(CT) cond gust) .0psf; h=35ft; VFRS (envelop	-0.04 -0.07 0.01	5-6 5-6	>999 >999	240 180	MT20	197/144
<ul> <li>Structural wood sheathing directly applied or 6-0-0 co purlins.</li> <li>BOT CHORD Rigid celling directly applied or 10-0-0 co bracing.</li> <li>REACTIONS (size) 1=0-5-8, 5=0-5-8 Max Horiz 1=-145 (LC 31) Max Grav 1=2292 (LC 1), 5=2209 (LC 1) Max Uplift 1=:-336 (LC 12), 5=-323 (LC 13) Max Grav 1=2292 (LC 1), 5=2209 (LC 1) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 1 and 323 lb uplift at joint 5.</li> <li>This truss is designed in accordance with the 2018 International Residential Code sections RS02.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>WEBS 3-6=-347/2410</li> <li>Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d (0.131'x3') nails as follows: 2x4 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x4 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-9-0 cc.</li> <li>All loads are considered equally applied to all plies, except if noted as follows: 2x3 - 1 row at 0-</li></ul>	SLIDER Left 2x4 SP No.2 3-7	7-15, Right 2x4 SP	Interior (1) 5-2 10-10-0, Inter	2-12 to 5-10-0, Exterior(2 rior (1) 10-10-0 to 11-5-4	R) 5-10-0 to zone; cantileve						
<ul> <li>REACTIONS (size) 1=0-5-8, 5=0-5-8 Max Horiz 1=-145 (LC 31) Max Uplit 1=-336 (LC 12), 5=-323 (LC 13) Max Grav 1=2292 (LC 1), 5=-239 (LC 13) Max Grav 1=2292 (LC 1), 5=-239 (LC 13) Max Grav 1=2292 (LC 1), 5=-209 (LC 1)</li> <li>FORCES (lb) - Maximum Compression/Maximum Tension</li> <li>TOP CHORD 1-3=-2237/451, 3-5=-2237/451</li> <li>BOT CHORD 1-6=-202/1566, 5-6202/1566</li> <li>MOTES</li> <li>NOTES</li> <li>NOTES</li> <li>NOTES</li> <li>10 2-ply truss to be connected as follows: 2x4 - 1 row at 0-9-0 o.</li> <li>2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD, CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unlose of theoretics indirected.</li> <li>and the true for the true of the</li></ul>	TOP CHORD Structural wood sheath 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly ap		exposed;C-C reactions sho DOL=1.60	for members and forces wn; Lumber DOL=1.60 p	& MWFRS for late grip						
3) Unbalanced roof live loads have been considered for PE-2022042259 / 20 PE-202204259 / 20 PE-20205	<ul> <li>REACTIONS (size) 1=0-5-8, 5=0 Max Horiz 1=-145 (LC 3 Max Uplift 1=-336 (LC 4 Max Grav 1=2292 (LC</li> <li>FORCES (lb) - Maximum Compre- Tension</li> <li>TOP CHORD 1-3=-2237/451, 3-5=-22</li> <li>BOT CHORD 1-6=-202/1566, 5-6=-20</li> <li>WEBS 3-6=-347/2410</li> <li>NOTES</li> <li>1) 2-ply truss to be connected togethe (0.131*x3") nails as follows: Top chords connected as follows: 2 oc.</li> <li>Bottom chords connected as follows: 2 oc.</li> <li>Bottom chords connected as follows: 2x3 - 1</li> <li>2) All loads are considered equally ap except if noted as front (F) or back CASE(5) section. Ply to ply connec provided to distribute only loads not unless otherwise indicated.</li> </ul>	31) 12), 5=-323 (LC 13) 1), 5=2209 (LC 1) ression/Maximum 1237/451 102/1566 er with 10d 124 - 1 row at 0-9-0 vs: 2x6 - 2 rows row at 0-9-0 oc. oplied to all plies, (B) face in the LOAD ctions have been ted as (F) or (B),	<ul> <li>chord live loa</li> <li>All bearings a capacity of 42</li> <li>Provide mech bearing plate joint 1 and 32</li> <li>This truss is of International R802.10.2 an</li> <li>Use Simpson Truss, Single oc max. starti connect truss</li> <li>Fill all nail holi</li> <li>LOAD CASE(S)</li> <li>Dead + Roo Plate Increa Uniform Loa Vert: 1-3= Concentrate Vert: 6=-6</li> </ul>	d nonconcurrent with any are assumed to be SPF N anaical connection (by oti capable of withstanding 23 lb uplift at joint 5. designed in accordance v Residential Code section di referenced standard A a Strong-Tie LUS26 (4-10 Ply Girder) or equivalent ing at 1-8-0 from the left (ces) to back face of botto les where hanger is in oto Standard of Live (balanced): Lumbe (se=1.15 ads (lb/ft) =-70, 3-5=-70, 1-5=-20 ad Loads (lb) 598 (B), 9=-698 (B), 10=-	v other live load lo.2 crushing mers) of truss to 336 lb uplift at vith the 2018 s R502.11.1 ar NSI/TPI 1. d Girder, 4-100 spaced at 2-0 end to 9-8-0 to m chord. ntact with lumb r Increase=1.1	o d -0 ber. 5,				SY NATHA	SER 200

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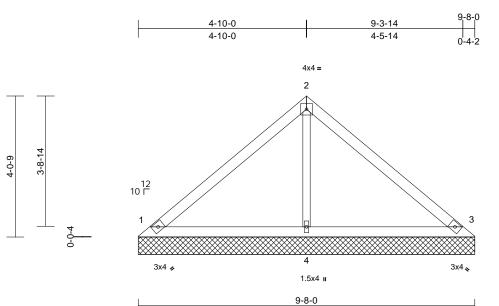
TION **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:56

anne July 16,2024

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	V4	Valley	1	1	Job Reference (optional)	166862715

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:dGP0ZTpd5VN4LEpd6Yg6o1zxF?h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:33.1

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING			7) 8)	capacity of 5 Provide med bearing plate 1, 56 lb uplif	chanical connection capable of with t at joint 3 and 16	on (by oth standing 4 3 lb uplift a	ers) of truss t 4 lb uplift at j t joint 4.						
TOP CHORD	Structural wood she 6-0-0 oc purlins.	athing directly appli	ed or <sup>9)</sup>	International	designed in acco Residential Cod nd referenced sta	e sections	R502.11.1 a	and					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C LO	DAD CASE(S)		andard AN	151/1911.						
REACTIONS	()	3=9-8-0, 4=9-8-0											
	Max Horiz 1=104 (LC	,											
	Max Uplift 1=-44 (LC		),										
	4=-16 (LC Max Grav 1=223 (LC (LC 1)	; 12) C 1), 3=223 (LC 1),	4=355										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-187/91, 2-3=-1	84/101											
BOT CHORD	1-4=-24/88, 3-4=-24	/88											
WEBS	2-4=-218/106												
NOTES													

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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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 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)



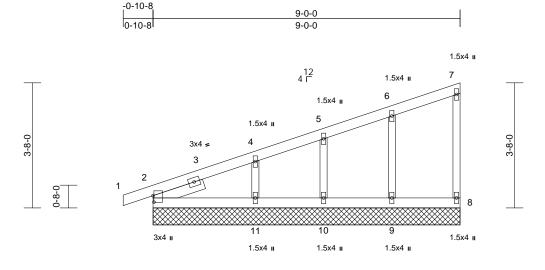
# **FRUCTION** /IFW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:56

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	D3	Monopitch Supported Gable	1	1	Job Reference (optional)	166862716

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:R6HKgN9OyKXimYirSO47xGzxFSx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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9-0-0

Scale = 1:33.8	

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

	(,,, ,). [2:0 2 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	3/TPI2014	CSI TC BC WB Matrix-S	0.18 0.07 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a n/a	(loc) - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 38 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>2x4 SP No.2</li> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>Left 2x4 SP No.2</li> <li>Structural wood she</li> <li>6-0-0 oc purlins, ex</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 2=9-0-0, 8</li> <li>10=9-0-0, Max Horiz 2=143 (LC Max Uplift 2=-16 (LC (LC 12), 1 12)</li> <li>Max Grav 2=185 (LC</li> </ul>	athing directly applie cept end verticals. applied or 10-0-0 or 8=9-0-0, 9=9-0-0, 11=9-0-0 C 12) C 8), 8=-18 (LC 8), 9= 10=-38 (LC 8), 11=-9	55 9) 2 (LC 9)	only. For stt see Standard or consult qu All plates are Gable requir Gable studs This truss ha chord live loo All bearings capacity of 5 Provide mec bearing plate 8, 16 lb upliff at joint 10 ar This truss is International	hanical connectio e capable of withs t at joint 2, 55 lb u ad 92 lb uplift at jo designed in accor Residential Code nd referenced sta	ind (norm End Deta assigner as ass other ttom choro oc. for a 10.0 with any as SP No. on (by oth tanding 1 uplift at joi int 11. rdance w	al to the face) ils as applicats s per ANSI/TP wise indicated d bearing. 0 psf bottom other live loac 2 crushing ers) of truss to 8 lb uplift at jo nt 9, 38 lb upli ith the 2018 : R502.11.1 ar	, le, l 1. ls. bint ft					
FORCES	1) (Ib) - Maximum Com Tension		,										
Vasd=91 Ke=1.00; exterior z Exterior(2 exposed;	5-6=-98/33, 6-7=-28 2-11=0/0, 10-11=0/0 6-9=-155/198, 5-10= CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner(3I 2N) 4-1-8 to 8-10-12 zo0 C-C for members and fi shown; Lumber DOL='	/12, 7-8=-52/65 ), 9-10=0/0, 8-9=0/0 -122/138, 4-11=-19- (3-second gust) DL=6.0psf; h=35ft; id; MWFRS (envelop E) -0-10-8 to 4-1-8, ne; end vertical left orces & MWFRS for	be)									OF STONA	BER 2042259

July 16,2024

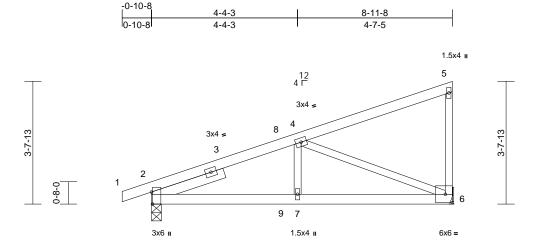
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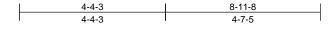
RELEASE ICROMETRUCTION AS NOTED ON LANS REVIEW DEVELORMENT: SERVICES LEE'S SUMMIT'S MISSOURI 06/17/2025 10:43:56

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	D1	Monopitch	5	1	Job Reference (optional)	166862717

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:\_sXE6HoZjjAnaEAfModiLMzxFYZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







## Scale = 1:34.3 Plate Offsets (X, Y): [2:0-4-5,Edge]

	(,,, ,); [ <u>_</u> ;e ; e, <u>_</u> age]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.07	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	0.05	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P							Weight: 40 lb	FT = 20%
LUMBER			6) This tr	uss is designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SP No.2		Interna	ational Residential Cod	le sections	s R502.11.1 a	and					
BOT CHORD	2x4 SP No.2		R802.	10.2 and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CA	SE(S) Standard								
SLIDER	Left 2x4 SP No.2	2-3-2										
BRACING												
TOP CHORD			ied or									
BOT CHORD	6-0-0 oc purlins, ex Rigid ceiling directly											
BUICHURD	bracing.	applied or 5-5-8 oc	;									
REACTIONS	· · · ·	6= Mechanical										
	Max Horiz 2=142 (Le											
	Max Uplift 2=-194 (L		)									
	Max Grav 2=463 (L	, , , ,										
FORCES	(lb) - Maximum Con	npression/Maximum										
	Tension											
TOP CHORD	1-2=-5/0, 2-4=-662/3 5-6=-133/160	886, 4-5=-68/32,										
BOT CHORD		.005/557										
WEBS	4-6=-600/1073, 4-7=											
NOTES	10-000/1010, 11-	- 102/210										
	CE 7-16; Vult=115mph	(3-second qust)										
	mph; TCDL=6.0psf; BC											m
	Cat. II; Exp C; Enclose		pe)								TATE OF	MICH
exterior zo	one and C-C Exterior(2	2E) -0-10-8 to 4-4-3,	,							G	ALEUT	MISS OF
	) 4-4-3 to 8-10-4 zone;		right							A	7 AM	N.S.
	; end vertical left expos									R	S NATH	ANIEL Y
	C-C for members and f shown; Lumber DOL=		r							R	FO	X
DOL=1.60		1.00 plate grip									1 1.4	A TAN
	s has been designed fo	r a 10.0 psf bottom								WI	KII_~	VARA
	load nonconcurrent w		ads.							N to	MKAAN	DER J DOG
	are assumed to be: Jo									NY	PE-2022	
capacity c										N	PE-2022	042239
	girder(s) for truss to true									Y	A Con	1 ON B
	nechanical connection										S'SIONA	TENA
	late capable of withsta d 194 lb uplift at joint 2		ι								Car	
juint 6 and	u 194 in upilit at joint 2											40.0004

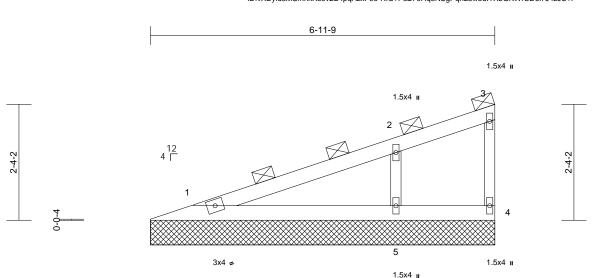
July 16,2024

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

TION **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT, MISSOURI 06/17/2025 10:43:56

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	V2	Valley	1	1	Job Reference (optional)	166862718

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:vXDyld3MSmhkXsev2E4pqAzxF0e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Loading TCLL (roof) TCDL BCLL BCDL

WEBS

NOTES

1)

2)

3) 4)

5)

(psf)	Spacing	3-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
0.0	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	4	n/a	n/a		
10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

6-11-9

2x4 SP N 2x4 SP N 2x3 SPF I 2x3 SPF I	o.2 No.2				
	ourlins (6-0-0 max.), except end				
verticals (Switcheo	I from sheeted: Spacing > 2-8-0).				
Rigid ceiling directly applied or 10-0-0 oc bracing.					
(size)	1=6-11-9, 4=6-11-9, 5=6-11-9				
Max Horiz	1=143 (LC 9)				
Max Uplift	1=-29 (LC 8), 4=-11 (LC 11), 5=-154 (LC 12)				
Max Grav	1=224 (LC 1), 4=18 (LC 1), 5=565 (LC 1)				
	imum Compression/Maximum				
	(151, 2-3=-85/81, 3-4=-31/33				
	3, 4-5=-62/83				
	2x4 SP N 2x3 SPF 1 2x3 SPF 1 2-0-0 oc p verticals (Switcheo Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=-270/				

2-5=-439/589

Lumber DOL=1.60 plate grip DOL=1.60

Gable studs spaced at 2-0-0 oc.

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) 0-11-5 to 5-11-5, Exterior(2N) 5-11-5 to 6-11-1 zone; cantilever left and

right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face),

see Standard Industry Gable End Details as applicable,

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

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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint

1, 11 lb uplift at joint 4 and 154 lb uplift at joint 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.

 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



July 16,2024

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Job	Truss	Truss Type		Ply	Roof - BY Lot 1320				
P250392-01	J3	Jack-Closed Girder	1	1	Job Reference (optional)	166862719			

6-11-6

6-11-6

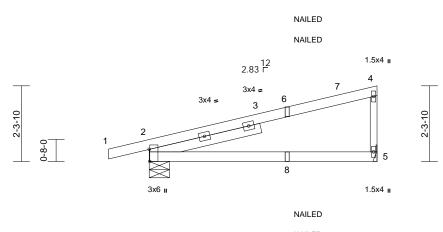
-1-2-14

1-2-14

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

# Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:90ph5b8eiEK22SzvVDIBvtzxFfs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



NAILED

6-11-6

Scale = 1:35.1

# Plate Offsets (X, Y): [2:0-4-6,Edge]

Loading TCLL (roof)         (psf)         Spacing 25.0         2-0-0         CSI         DEFL         in         (loc)         I/deft         L/d MT20         MT20         197/144           TCDL         10.0         Lumber DOL         1.15         BC         0.68         Vert(LL)         -0.13         2-5         >622         240         MT20         197/144           BCL         0.0         Rep Stress Incr         NO         WB         0.00         Matrix-P         Vert(CT)         -0.26         2-5         >311         180           BCDL         10.0         Code         IRC2018/TPI2014         Matrix-P         Vert(CT)         -0.26         2-5         >311         180           BCDL         10.0         Code         IRC2018/TPI2014         Matrix-P         Vert(CT)         -0.00         5         n/a         n/a           LUMBER         TOP CHORD         2x4 SP 1650F 1.5E         5         NO         Matrix-P         No         Vert(L)         -0.148''x 3'') toe-nails         Vert(T)         -0.26         2.5         >311         180         Veright: 29 lb         FT = 20%           LUMBER         TOP CHORD         2x4 SP 1650F 1.5E         5         In the LOAD CASE(S) Section, loads applied to the face	
TCDL       10.0       Lumber DOL       1.15       BC       0.68       Vert(CT)       -0.26       2-5       >311       180         BCDL       10.0       Code       IRC2018/TPI2014       Matrix-P       Horz(CT)       0.00       5       n/a       n/a         LUMBER       10.0       Code       IRC2018/TPI2014       Matrix-P       Vert(CT)       0.00       5       n/a       n/a         TOP CHORD       2x4 SP 1650F 1.5E       Sold Processor       FT = 20%       NO       Sold Processor       NO       Sold Processor       NO       Sold Processor       Vert(CT)       0.00       5       n/a       n/a         TOP CHORD       2x4 SP 1650F 1.5E       Sold Processor       NO       Sold Processor       NO       Sold Processor       NO       Sold Processor       NO       Sold Processor       Sold Processor       NO       NO       Sold Processor       NO       NO       Sold Processor       NO       Sold Procesor       NO <th></th>	
BCLL       0.0       Rep Stress Incr       NO       WB       0.00       Horz(CT)       0.00       5       n/a       n/a         BCDL       10.0       Code       IRC2018/TPI2014       Matrix-P       Weight: 29 lb       FT = 20%         LUMBER       TOP CHORD       2x4 SP 1650F 1.5E       FT = 20%       NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.       8)       In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).       5       10.0       COAD CASE(S) Section, loads applied to the face of the truss are noted as front (F) or back (B).       5       10.0       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=1.15       10.0       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=1.15       Vert: 1-4=-70, 2-5=-20         BOT CHORD       Sigid ceiling directly applied or 10-0-0 oc bracing.       Vert: 1-4=-70, 2-5=-20       Concentrated Loads (lb)       Vert: 8=0 (F=0, B=0)         Max Horiz       2=89 (LC 9)       Max Horiz       2=89 (LC 9)       Max Uplift       2=130 (LC 8), 5==81 (LC 12)       Vert: 8=0 (F=0, B=0)	
BCDL       10.0       Code       IRC2018/TP12014       Matrix-P       Weight: 29 lb       FT = 20%         LUMBER TOP CHORD       2x4 SP 1650F 1.5E BOT CHORD       7)       "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.       7)       "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.         BOT CHORD       2x4 SP No.2       8)       In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).       IOAD CASE(S)         SLIDER       Left 2x4 SP No.2 3-5-12       LOAD CASE(S)       Standard         BRACING TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       IDead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15       Uniform Loads (lb/ft)         BOT CHORD       (size)       2=0-7-6, 5= Mechanical Max Horiz       Vert: 1-4=-70, 2-5=-20       Concentrated Loads (lb)         Wert: 8=0 (F=0, B=0)       Vert: 8=0 (F=0, B=0)       Vert: 8=0 (F=0, B=0)       Vert: 8=0 (F=0, B=0)	
LUMBER       7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails         TOP CHORD       2x4 SP 1650F 1.5E         BOT CHORD       2x4 SP No.2         SLIDER       Left 2x4 SP No.2         SLIDER       Left 2x4 SP No.2 3-5-12         BRACING       TOP CHORD         TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.         BOT CHORD       Structural wood sheathing directly applied or 10-0-0 oc bracing.         REACTIONS       (size)       2=0-7-6, 5= Mechanical Max Horiz         Max Horiz       2=89 (LC 9)         Max Uplift       2=-130 (LC 8), 5=-81 (LC 12)	
TOP CHORD       2x4 SP 1650F 1.5E       per NDS guidelines.         BOT CHORD       2x4 SP No.2       8)       In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).         SLIDER       Left 2x4 SP No.2 3-5-12       LOAD CASE(S) Standard         BRACING       1)       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15         TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       Vert: 1-4=-70, 2-5=-20         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       Vert: 1-4=-70, 2-5=-20         Concentrated Loads (lb)       Vert: 8=0 (F=0, B=0)         Max Horiz       2=89 (LC 9)         Max Uplift       2=-130 (LC 8), 5=-81 (LC 12)	
BOT CHORD       2x4 SP No.2       8)       In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).         SLIDER       Left 2x4 SP No.2 3-5-12       LOAD CASE(S) Standard         BRACING       1)       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15         TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       Vert: 1-4=-70, 2-5=-20         REACTIONS       (size)       2=0-7-6, 5= Mechanical Max Horiz       Vert: 8=0 (F=0, B=0)         Max Horiz       2=89 (LC 9) Max Uplift       2=-130 (LC 8), 5=-81 (LC 12)       Vert: 8=0	
WEBS       2x3 SPF No.2       of the truss are noted as front (F) or back (B).         SLIDER       Left 2x4 SP No.2 - 3-5-12       LOAD CASE(S) Standard         BRACING       1)       Dead + Roof Live (balanced): Lumber Increase=1.15,         TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       1)       Dead + Roof Live (balanced): Lumber Increase=1.15,         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       Vert: 1-4=-70, 2-5=-20       Concentrated Loads (lb)         REACTIONS       (size)       2=0-7-6, 5= Mechanical Max Horiz       Vert: 8=0 (F=0, B=0)         Max Horiz       2=89 (LC 9)       Vert: 8=0 (F=0, B=0)         Max Uplift       2=-130 (LC 8), 5=-81 (LC 12)       Vert: 8=0 (F=0, B=0)	
SLIDER       Left 2x4 SP No.2 3-5-12       LOAD CASE(S)       Standard         BRACING       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15         TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       Uniform Loads (lb/ft)         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       Vert: 1-4=-70, 2-5=-20       Concentrated Loads (lb)         REACTIONS       (size)       2=0-7-6, 5= Mechanical Max Horiz       Vert: 8=0 (F=0, B=0)         Max Uplift       2=-130 (LC 8), 5=-81 (LC 12)       Vert: 8=0 (F=0, B=0)	
BRACING TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       1)       Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       1)       Dead + Roof Live (balanced): Lumber Increase=1.15, Uniform Loads (lb/ft)         REACTIONS       (size)       2=0-7-6, 5= Mechanical Max Horiz       Vert: 1-4=-70, 2-5=-20 Concentrated Loads (lb)         Max Horiz       2=89 (LC 9) Max Uplift       Vert: 8=0 (F=0, B=0)	
TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       Plate Increase=1.15 Uniform Loads (lb/ft)         BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.       Vert: 1-4=-70, 2-5=-20 Concentrated Loads (lb)         REACTIONS       (size)       2=0-7-6, 5= Mechanical Max Horiz       Vert: 8=0 (F=0, B=0)         Max Uplift       2=-30 (LC 8), 5=-81 (LC 12)       Vert: 8=0 (F=0, B=0)	
For oncode of wood should introduce and y depleted in the second of the second introduced introduced in the second integration of the second integrated integration of the second integration of th	
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc Vert: 1-4=-70, 2-5=-20 bracing. Concentrated Loads (lb) REACTIONS (size) 2=0-7-6, 5= Mechanical Vert: 8=0 (F=0, B=0) Max Horiz 2=89 (LC 9) Max Uplift 2=-130 (LC 8), 5=-81 (LC 12)	
REACTIONS     (size)     2=0-7-6, 5=     Mechanical     Concentrated Loads (lb)       Max Horiz     2=89 (LC 9)     Vert: 8=0 (F=0, B=0)       Max Uplift     2=-130 (LC 8), 5=-81 (LC 12)	
REACTIONS         (size)         2=0-7-6, 5= Mechanical         Vert: 8=0 (F=0, B=0)           Max Horiz         2=89 (LC 9)         Nax Uplift         2=-130 (LC 8), 5=-81 (LC 12)	
Max Horiz 2=89 (LC 9) Max Uplift 2=-130 (LC 8), 5=-81 (LC 12)	
Max Uplift 2=-130 (LC 8), 5=-81 (LC 12)	
Max Grav 2=402 (LC 1), 5=300 (LC 1)	
FORCES (Ib) - Maximum Compression/Maximum	
Tension	
TOP CHORD 1-2=-6/0, 2-4=-116/67, 4-5=-232/274	
BOT CHORD 2-5=-41/44	
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 (2R) 5-10-0 to 6-10-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
right exposed ; end vertical left and right exposed;C-C	5
for members and forces & MWFRS for reactions shown;	N
Lumber DOL=1.60 plate grip DOL=1.60	N.S
2) This truss has been designed for a 10.0 psf bottom	r V
chord live load nonconcurrent with any other live loads.	THE P
3) Bearings are assumed to be: Joint 2 SP No.2 crushing	1 2
capacity of 565 psi.	
4) Refer to girder(s) for truss to truss connections.	Dall.

- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 81 lb uplift at joint 5 and 130 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

PE-2022042259

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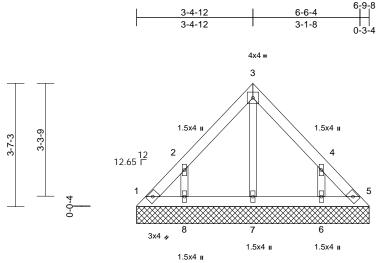
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July 16,2024

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	LAY1	Lay-In Gable	1	1	Job Reference (optional)	166862720

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:j?OjMFFnRIhAKU2wMSycbzzxFil-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





6-9-8

Scale = 1:	:33.6
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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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%
	Over CD No. 2		5)		spaced at 0-0-0 s been designed		) pot bottom						
TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2		6)		ad nonconcurren			de					
OTHERS	2x3 SPF No.2		7)		are assumed to I			103.					
BRACING	283 011 10.2		.,	capacity of 5			2 or dorning						
TOP CHORD	Structural wood she 6-0-0 oc purlins.	athing directly applie	d or 8)	Provide mec bearing plate	hanical connection capable of with	standing 3	3 lb uplift at j	joint					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc		uplift at joint		. ,		2 lb					
REACTIONS	7=6-9-8,		9)	International	designed in acco Residential Cod nd referenced sta	e sections	s R502.11.1 a	and					
	Max Horiz 1=-92 (LC Max Uplift 1=-33 (LC 6142 (L	,		DAD CASE(S)	Standard								
	Max Grav 1=79 (LC (LC 20), 7		=204										
500050	19) (III.) Maximum Oan												
FORCES	(lb) - Maximum Corr Tension	ipression/iviaximum											
TOP CHORD	1-2=-111/77, 2-3=-1 4-5=-99/69	01/66, 3-4=-95/62,											
BOT CHORD	1-8=-48/78, 7-8=-49 5-6=-48/78	/78, 6-7=-49/78,											
WEBS	2-8=-213/162, 3-7=-	66/0, 4-6=-213/162											
NOTES												and	an
<ol> <li>Unbalance this design</li> </ol>	ed roof live loads have	been considered for										FOF	MISS
2) Wind: ASC	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC										A	STATE OF	ANIEL

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 Orbit experience excitonee better the the end the state.

4) Gable requires continuous bottom chord bearing.

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)



July 16,2024

PE-2022042259

SSIONAL EN

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	V5	Valley	1	1	Job Reference (optional)	166862721

3-0-6

3-0-6

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

2-2-14

2-6-9

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:hyOzP2c1YnhjGNsJ\_PsbUyzxF\_f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 4x4 = 2

9

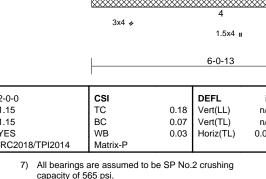
5-8-11

2-8-4

3

3x4 💊





12 10 Г

Scale = 1:27

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%
LUMBER			7	) All bearings	are assumed to	be SP No.	2 crushing						
TOP CHORD	2x4 SP No.2			capacity of 5	65 psi.		0						
BOT CHORD													
OTHERS	1 and 11 lb unlift at joint 0												
BRACING	BRACING 1 and 41 lb uplift at joint 3.												
TOP CHORD	0) This trues is designed in second page with the 2019												
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	· .		nd referenced s	standard AN	ISI/TPI 1.						
	bracing.		L	OAD CASE(S)	Standard								
REACTIONS													
	Max Horiz 1=-62 (LC	,											
	Max Uplift 1=-34 (LC	,, , , ,	1 100										
	Max Grav 1=144 (L0 (LC 1)	5 T), 3=144 (LC T), 4	+=190										
FORCES	(lb) - Maximum Corr	nression/Maximum											
1 ONOLO	Tension	procolori/maximum											
TOP CHORD	1-2=-102/65, 2-3=-9	6/71											
BOT CHORD	1-4=-14/49, 3-4=-14	/49											
WEBS	2-4=-123/77												
NOTES													
,	ed roof live loads have	been considered for	r										
this design		( <b>A</b> )											
	CE 7-16; Vult=115mph												
	nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose											000	ADD
	one and C-C Exterior/2											S. OF I	MIG. D

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) Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)

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

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

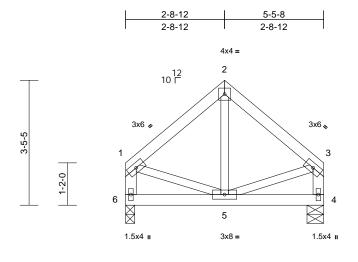
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with 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 - BY Lot 1320	
P250392-01	C2	Common	4	1	Job Reference (optional)	166862722

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:uXOjrqmBI5?cQPKNWVcIXwzxFbB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



2-8-12	5-5-8
2-8-12	2-8-12

Sca	le =	1:31	1.8
Sca	ie =	1:3	0.1

Scale = 1:31.8	}											
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.20	Vert(LL)	0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%
LUMBER			6) This truss	is designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SP No.2			al Residential Cod			and					
BOT CHORD	2x4 SP No.2		R802.10.2	and referenced sta	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2 *Exce	pt* 6-1,4-3:2x4 SP	No.2 LOAD CASE(	<ol> <li>Standard</li> </ol>								
BRACING												
TOP CHORD			ed or									
	5-5-8 oc purlins, ex											
BOT CHORD		applied or 10-0-0 o	С									
	bracing.											
REACTIONS	(,											
	Max Horiz 6=99 (LC											
	Max Uplift 4=-29 (LC Max Grav 4=233 (LC	,, ( )										
FORCES	(lb) - Maximum Com											
FURGES	Tension	pression/waximum										
TOP CHORD		178/264 1-6=-212/	273									
	3-4=-212/287	110/201, 10-212/	210,									
BOT CHORD	5-6=-94/91, 4-5=-20	/21										
WEBS	2-5=-171/72, 3-5=-1	47/108, 1-5=-134/1	08									
NOTES												
1) Unbalanc	ed roof live loads have	been considered for	r									
this desig												
	CE 7-16; Vult=115mph											
	mph; TCDL=6.0psf; BC											an
	Cat. II; Exp C; Enclose one and C-C Exterior(2										STATE OF	MIG
	exposed ; end vertical l									6	BAE	JUSS W
	and right exposed;C-C		<i>,</i>							6	AN	NSY
	MWFRS for reactions s									B	S/ NATH	ANIEL YE YA
	0 plate grip DOL=1.60								-	R	FC	X
	s has been designed for									12 *	1 1	1 - FAN
	e load nonconcurrent wi		ids.							<i>Va</i> -	TH.	11 Azk
<ol><li>All bearin</li></ol>	gs are assumed to be \$	SP No.2 crushing									NKA	

4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5) 6 and 29 lb uplift at joint 4.



July 16,2024

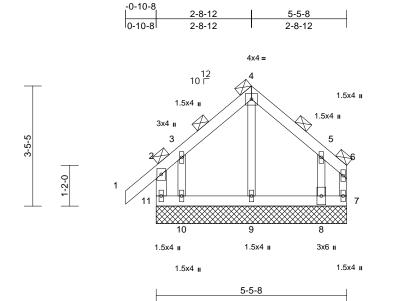
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	C1	Common Supported Gable	1	1	Job Reference (optional)	166862723

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:qNSd8uN6qGz9aVuDen1oEAzxFbh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33

Scale = 1.55													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	4-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-R	0.29 0.11 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.2 *Excep 2x3 SPF No.2 2-0-0 oc purlins, exi (Switched from shee Rigid ceiling directly bracing. (size) 7=5-5-8, 8 10=5-5-8, Max Horiz 11=229 (L Max Uplift 7=-145 (L 10=-276 ( Max Grav 7=130 (LC	cept end verticals ted: Spacing > 2-8-( applied or 6-0-0 oc 3=5-5-8, 9=5-5-8, 11=5-5-8 .C 9) C 11), 8=-210 (LC 1 LC 9), 11=-250 (LC 2 10), 8=426 (LC 20) C 10, 10=392 (LC 10)	4) 5). 6) 7) 8) 9) 3), 8)	only. For sti see Standar or consult qu Gable requir Truss to be l braced again Gable studs This truss ha chord live lo All bearings capacity of 5 Provide mec bearing platu joint 11, 145 and 210 lb u	ned for wind load uds exposed to wi d Industry Gable   ualified building da tes continuous bo fully sheathed from st lateral movem spaced at 2-0-0 of as been designed ad nonconcurrent are assumed to b 165 psi. thanical connectic to capable of withs lb uplift at joint 7, plift at joint 8. designed in accoo Residential Code nd referenced sta	ind (norm End Deta esigner a: ttom chor m one fac ent (i.e. d oc. for a 10.0; with any be SP No. on (by oth standing 2 , 276 lb up redance we	al to the face ils as applica s per ANS//TI d bearing. e or securely iagonal web) ) psf bottom other live loa 2 crushing ers) of truss t 50 lb uplift at jolift at joint 10 ith the 2018 R502.11.1 a	), ble, PI 1. ds. 0					
FORCES	(lb) - Maximum Com Tension			) Graphical pu or the orient	urlin representatio ation of the purlin	n does no	ot depict the s	size					
TOP CHORD	2-11=-265/345, 1-2= 3-4=-160/346, 4-5=- 6-7=-83/85	, ,	1	bottom chore DAD CASE(S)									
BOT CHORD	10-11=-90/77, 9-10= 7-8=-90/77	-90/77, 8-9=-90/77,											m
WEBS	4-9=-263/0, 3-10=-3	10/284, 5-8=-317/43	5									G OF	MISS
this design 2) Wind: ASC Vasd=91m Ke=1.00; 0	ed roof live loads have CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner(3E	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	e)									STATE OF	NIEL REAL

Corner(3 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

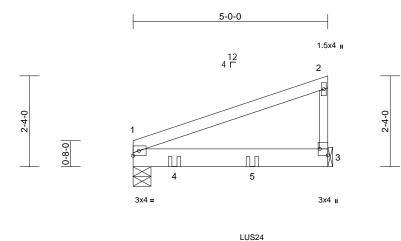
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# TION IEW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/17/2025 10:43:57

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	J6	Jack-Closed Girder	1	1	Job Reference (optional)	166862724

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:90ph5b8eiEK22SzvVDIBvtzxFfs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



LUS24

5-0-0

Scale = 1:29.6 Plate Offsets (X, Y): [3:Edge,0-2-8]

Plate Offsets (	X, Y): [3: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 NO IRC2018/TPI201	CSI TC BC WB 4 Matrix-P	0.65 0.92 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.11 0.00	(loc) 1-3 1-3 3	l/defl >955 >512 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 18 lb	<b>GRIP</b> 197/144 FT = 20%
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91rr Ke=1.00; ( exterior zc and right e exposed;(C reactions s DOL=1.60 2) This truss chord live 3) Bearings a capacity o 4) Refer to gi 5) Provide m bearing pla joint 1 and 6) This truss Internation	2x6 SPF No.2 2x3 SPF No.2 Structural wood she 5-0-0 cc purlins, ex Rigid ceiling directly bracing. (size) 1=0-5-8, 3 Max Horiz 1=91 (LC Max QPIift 1=-174 (L Max Grav 1=892 (LC (lb) - Maximum Com Tension 1-2=-131/79, 2-3=-1 1-3=-39/43 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical 1 -C for members and f shown; Lumber DOL= <sup>-1</sup> has been designed for load nonconcurrent wi are assumed to be: Joi	cept end verticals. applied or 6-1-2 oc 3= Mechanical 9) C 8), 3=-143 (LC 12 C 1), 3=650 (LC 1) pression/Maximum 63/229 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live loaint 1 SPF No.2 crust ss connections. (by others) of truss to hding 174 lb uplift at ance with the 2018 ections R502.11.1 a	SD921 at 2-0- 3-0-12 8) Fill all of the t <b>LOAD CAS</b> 1) Dead Plate Unito 2) Ve Conc Ve 2) Ve Conc Ve ds. ning	mpson Strong-Tie LUS 2 Truss, Single Ply Gi 0 oc max. starting at 1 to connect truss(es) to hail holes where hang (.OAD CASE(S) sectio russ are noted as fron SE(S) Standard + Roof Live (balanced Increase=1.15 m Loads (lb/ft) t: 1-2=-70, 1-3=-20 entrated Loads (lb) t: 4=-562 (F), 5=-560	rder) or ec -0-12 from o front face er is in cor n, loads a it (F) or ba	uivalent space the left end to e of bottom ch ntact with lumb pplied to the fa ck (B).	ed o lord. oer. ace				STATE OF J STATE OF J NATHA FO PE-2022	ANDE ANDE O42259
											hub	16 2024

July 16,2024





Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	J5	Jack-Open	4	1	Job Reference (optional)	166862725

5-0-0

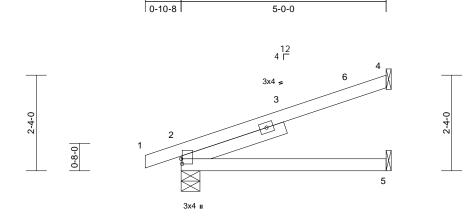
-0-10-8

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

### Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:hqFJuF70xwCBQJPjyVEyNfzxFft-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





5-0-0	1

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

Scale = 1:28.1

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.04	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-5	>831	180		
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							Weight: 21 lb	FT = 20%
LUMBER			6) This trus	s is designed in acco	ordance w	ith the 2018						
TOP CHORE	D 2x4 SP No.2			nal Residential Cod			and					
BOT CHORE			R802.10.	2 and referenced sta	andard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2 :	2-7-14	LOAD CASE	(S) Standard								
BRACING				(-,								
TOP CHORE	O Structural wood she	athing directly appli	ed or									
	5-0-0 oc purlins.	• • • •										
BOT CHORE	D Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS	( )	4= Mechanical, 5=										
	Mechanic											
	Max Horiz 2=85 (LC	,										
	Max Uplift 2=-75 (LC	// // /										
	Max Grav 2=289 (L0 (LC 3)	C 1), 4=167 (LC 1),	5=99									
FORCES	(lb) - Maximum Com	npression/Maximum										
TODOUODE	Tension	2										
TOP CHORE BOT CHORE		2										
	J 2-5=0/0											
NOTES		(0,										
	SCE 7-16; Vult=115mph											
	1mph; TCDL=6.0psf; BC v; Cat. II; Exp C; Enclose		no)									
	zone and C-C Exterior(2		pe)								and	1000
	1) 4-1-8 to 4-11-4 zone;		iaht								A OF	MISC
	; end vertical left and ri									1	950	W.O.
	s and forces & MWFRS									B	STATE OF D	NIET XP.V
	DOL=1.60 plate grip DC								_	R		ALLER /Y /
	s has been designed fo									Var.	FO	
chord live	e load nonconcurrent w	ith any other live loa	ıds.							М 🖪		

- 3) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections. 4)
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 94 lb uplift at joint 4 and 75 lb uplift at joint 2.



LEE'S'SUMMIT'S MISSOURI 06/17/2025 10:43:57

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 touls be 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)

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	J1	Jack-Closed	2	1	Job Reference (optional)	166862726

<u>-1-2-14</u> 1-2-14

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:j?OjMFFnRIhAKU2wMSycbzzxFil-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

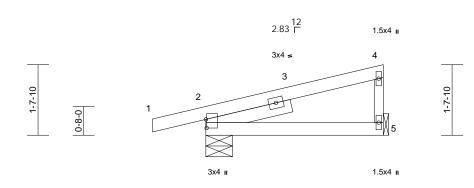
4-1-7

4-1-7

1 1 7



гa



		-	+-1-/		
Scale = 1:26.7					
Plate Offsets (X, Y	<pre>'): [2:0-2-6,0-0-3]</pre>				
-					

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	0.29	Vert(LL)	-0.02	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

BOT CHORD	2x4 SP No	5.2
WEBS	2x3 SPF N	No.2
SLIDER	Left 2x4 S	P No.2 2-0-5
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	4-1-7 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-7-6, 5= Mechanical
	Max Horiz	2=55 (LC 12)
	Max Uplift	2=-96 (LC 8), 5=-44 (LC 12)
	Max Grav	2=281 (LC 1), 5=167 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-6/0,	2-4=-61/23, 4-5=-127/169
BOT CHORD	2-5=0/0	
201 0110112		

# NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 5 and 96 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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)



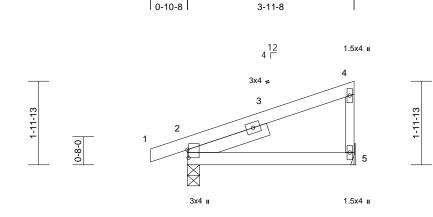
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	D2	Monopitch	5	1	Job Reference (optional)	166862727

3-11-8

-0-10-8

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:44 ID:78C7o6q0croABosuZ?dZ0HzxFUe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.4           Plate Offsets (X, Y): [2:0-2-5,0-0-5]		( )	 		 	 	-
	Plate Offsets (X	(, Y): [2:0-2-5,0-0-5]					
3-11-8	Scale = 1:27.4						
				3-11-8			

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF I	No.2
SLIDER	Left 2x4 S	SP No.2 2-0-0
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	4-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-3-8, 5= Mechanical
	Max Horiz	2=69 (LC 12)
	Max Uplift	2=-67 (LC 8), 5=-51 (LC 12)
	Max Grav	2=242 (LC 1), 5=166 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-5/0,	2-4=-75/32, 4-5=-128/190
BOT CHORD	2-5=0/0	

#### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 5 and 67 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 16,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	V3	Valley	1	1	Job Reference (optional)	166862728

Scale = 1

WEBS BRACING TOP CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

4)

5)

6)

7)

TOP CHORD

BOT CHORD

DOL=1.60

REACTIONS (size)

2x3 SPF No.2

Max Horiz 1=43 (LC 9)

1-2=-60/37, 2-3=-93/121

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

Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint

bracing.

Tension

1-3=-18/20

Gable studs spaced at 4-0-0 oc.

capacity of 565 psi.

1 and 29 lb uplift at joint 3.

Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals.

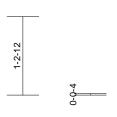
Rigid ceiling directly applied or 10-0-0 oc

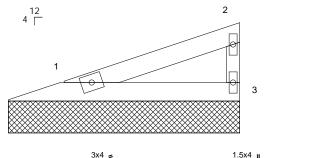
1=3-7-9, 3=3-7-9

Max Uplift 1=-23 (LC 8), 3=-29 (LC 12) Max Grav 1=119 (LC 1), 3=119 (LC 1)

(lb) - Maximum Compression/Maximum

### Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:ZN?LPLdDduUD2x9lkvvbhtzxF?w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3-7-9

1-2-12

1.5x4 u

1.5x4 u

					3-7	-9						
1:18.1												
<b>g</b> oof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.14	<b>DEFL</b> Vert(LL)	in n/a	(loc) -	l/defl n/a		PLATES MT20	<b>GRI</b> 244/
	10.0	Lumber DOI	1 15	D D C	0.00	Vort/TL)	n/o		2/2	000		

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	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: 10 lb	FT = 20%
	2x4 SP No.2 2x4 SP No.2	•	Ínternational	designed in ac Residential Co nd referenced s	ode sections	R502.11.1 a	nd					

LOAD CASE(S) Standard

STATE OF MISSOL	Ø
FOX FOX PE-2022042259	
SIONAL ENGINE	9

July 16,2024



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

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	J2	Jack-Open	5	1	Job Reference (optional)	166862729

3-0-0

3-0-0

12 4 Г

3x4 🚅

3

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3-0-0

-0-10-8

0-10-8

2

3x4 🛚

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

1-8-0

0-8-0

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:j?OjMFFnRIhAKU2wMSycbzzxFil-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4



1-8-0 5

Scale = 1:26.9	
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	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB	0.18 0.10 0.00	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2018/1PI2014	Matrix-P							Weight: 13 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 1 Structural wood shea		Internationa R802.10.2 a LOAD CASE(S	designed in accor Residential Code and referenced star Standard	sections	R502.11.1 a	and					
BOT CHORD	3-0-0 oc purlins. Rigid ceiling directly	applied or 10-0-0 or										
	Mechanica Max Horiz 2=56 (LC Max Uplift 2=-62 (LC Max Grav 2=203 (LC	12) 8), 4=-57 (LC 12)	-59									
FORCES	(LC 3) (Ib) - Maximum Com	pression/Maximum										
TOP CHORD BOT CHORD	Tension 1-2=-5/0, 2-4=-58/25 2-5=0/0	i										
Vasd=91m Ke=1.00; ( exterior 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	has been designed for load nonconcurrent wit are assumed to be: , Jo	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l eft and right orces & MWFRS for .60 plate grip a 10.0 psf bottom th any other live loav bint 2 SP No.2 crush ss connections. by others) of truss to	eft ds. ing						-			ANIEL DX AUR 2042259 S S S S S S S S S S S S S S S S S S S

July 16,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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 - BY Lot 1320	
P250392-01	J4	Jack-Open	2	1	Job Reference (optional)	166862730

2-10-15

2-10-15

12 4 Г

3x4 = 3

Ð

-0-10-8

0-10-8

2

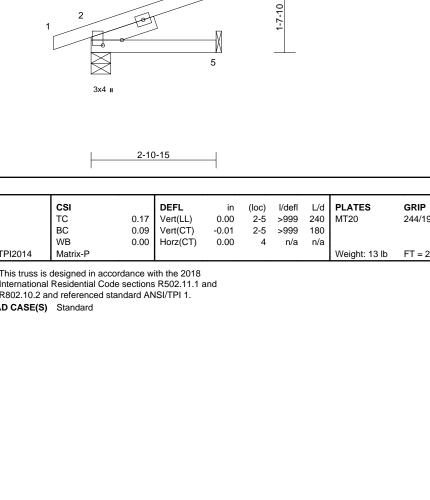
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

1-7-10

0-8-0

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:45 ID:hqFJuF70xwCBQJPjyVEyNfzxFft-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.8 Plate Offsets (X, Y): [2:0-1-8,0-5-5]

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 с	0.17	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC (	0.09	Vert(CT)	-0.01	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: 13 lb	FT = 20%
LUMBER			6) This truss is	designed in accordan	nce wi	ith the 2018						
TOP CHORD	2x4 SP No.2			I Residential Code sec			nd					
BOT CHORD				and referenced standa								
SLIDER	Left 2x4 SP No.2	1-6-11	LOAD CASE(S									
BRACING												
TOP CHORD	Structural wood she	athing directly applie	d or									
	2-10-15 oc purlins.	at my aroony appro										
BOT CHORD		applied or 10-0-0 oc	:									
	bracing.											
REACTIONS	(size) 2=0-5-8,	4= Mechanical, 5=										
	Mechanic											
	Max Horiz 2=55 (LC	,										
	Max Uplift 2=-61 (LC	,, , ,										
	Max Grav 2=199 (L	C 1), 4=90 (LC 1), 5=	:57									
	(LC 3)											
FORCES	(lb) - Maximum Con	npression/Maximum										
TOP CHORD	Tension 1-2=-5/0, 2-4=-57/24	4										
BOT CHORD	,	4										
	2-3=0/0											
NOTES		(a. 1)										
	CE 7-16; Vult=115mph											
	nph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose one and C-C Exterior(2										Sun	alle
	exposed ; end vertical		en								THE OF I	MISSIN
	C-C for members and f									9	4 TE	
	shown; Lumber DOL=									A	N	New
DOL=1.60		nee plate grip								U	S NATHA	
	has been designed fo	r a 10.0 psf bottom								H.	FO	X
	load nonconcurrent w		ds.								H	1at to 1
3) Bearings	are assumed to be: , J	oint 2 SP No.2 crush	ing							8		
capacity c										14	X/MAA	KER & KER
	irder(s) for truss to tru									NY	PE-2022	042250 788
	echanical connection									N	PE-2022	SA SA
	late capable of withsta	nding 55 lb uplift at jo	bint							Y		1 ON B
4 and 61 l	lb uplift at joint 2.										SIONA	TENA
											CONA	
												16 2024

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



July 16,2024

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 1320	
P250392-01	V1	Valley	1	1	Job Reference (optional)	166862731

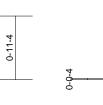
2-8-15

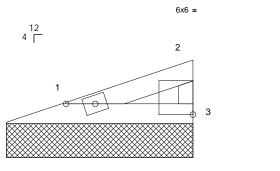
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

### Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:46 ID:90ph5b8eiEK22SzvVDIBvtzxFfs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







3x4 =



2-8-15

Scale = 1:16.9

# Plate Offsets (X, Y): [2:Edge,0-1-14]

	ge,0-1-14]											
Loading TCLL (roof) TCDL BCLL BCDL	10.0 Lumbe	Grip DOL per DOL Stress Incr	2-0-0 1.15 1.15 YES RC2018/TPI2014	CSI TC BC WB Matrix-P	0.06 0.03 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 7 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No BOT CHORD 2x4 SP No BOT CHORD 2x4 SP No WEBS 2x3 SPF N BRACING TOP CHORD Structural 2-9-11 oc BOT CHORD Rigid ceilin bracing. REACTIONS (size) Max Horiz Max Uplift Max Grav FORCES (lb) - Maxin TOP CHORD 1-2=-40/25 BOT CHORD 1-3=-12/13 NOTES 1) Wind: ASCE 7-16; Vult Vasd=91mph; TCDL=6 Ke=1.00; Cat. II; Exp C exterior zone and C-C and right exposed ; en exposed;C-C for memi reactions shown; Lumb DOL=1.60 2) Truss designed for wi only. For studs exposed see Standard Industry or consult qualified bui 3) Gable requires continu 4) Gable studs spaced at 5) This truss has been de chord live load noncon	.2 .2 io.2 wood sheathing d purlins, except en ng directly applied 1=2-8-15, 3=2-8-1 1=29 (LC 9) 1=-15 (LC 8), 3=-2 1=79 (LC 1), 3=75 mum Compression 5, 2-3=-62/81 3 ==115mph (3-seco 5, psf; BCDL=6.0p 5; Enclosed; MWF Exterior(2E) zone d vertical left and io bers and forces & ber DOL=1.60 plat nd loads in the plat ed to wind (normal Gable End Details Iding designer as ous bottom chord 4-0-0 oc. signed for a 10.0 current with any o	directly applied of end verticals. d or 10-0-0 oc -15 -20 (LC 12) 79 (LC 1) por/Maximum ond gust) psf; h=35ft; FRS (envelope) e; cantilever left l right & MWFRS for ate grip ane of the truss al to the face), Is as applicable, s per ANSI/TPI 1 d bearing.	<ul> <li>7) Provide mec bearing plate</li> <li>1 and 20 lb t</li> <li>8) This truss is International</li> <li>R802.10.2 a</li> <li>LOAD CASE(S)</li> </ul>	hanical connection capable of withsta uplift at joint 3. designed in accord Residential Code s nd referenced stan	inding 1 lance wi	5 lb uplift at jo th the 2018 R502.11.1 at	oint				STATE OF M NATHA FO PE-2022	MISSOLUT NIEL X 042259
<ul><li>6) All bearings are assum capacity of 565 psi.</li></ul>										Ø	FRSSIONA	L ENGINE

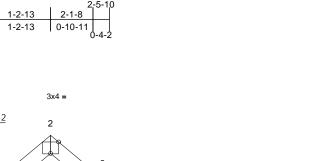
July 16,2024

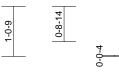


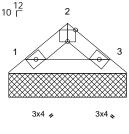


Job	Truss	Truss Type	Qty Ply Roof - BY Lot 1320			
P250392-01	V6	Valley	1	1	Job Reference (optional)	166862732

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Mon Jul 15 11:15:47 ID:TmPQfbvifSrAmDG7y9oS\_DzxF\_G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







2-5-10

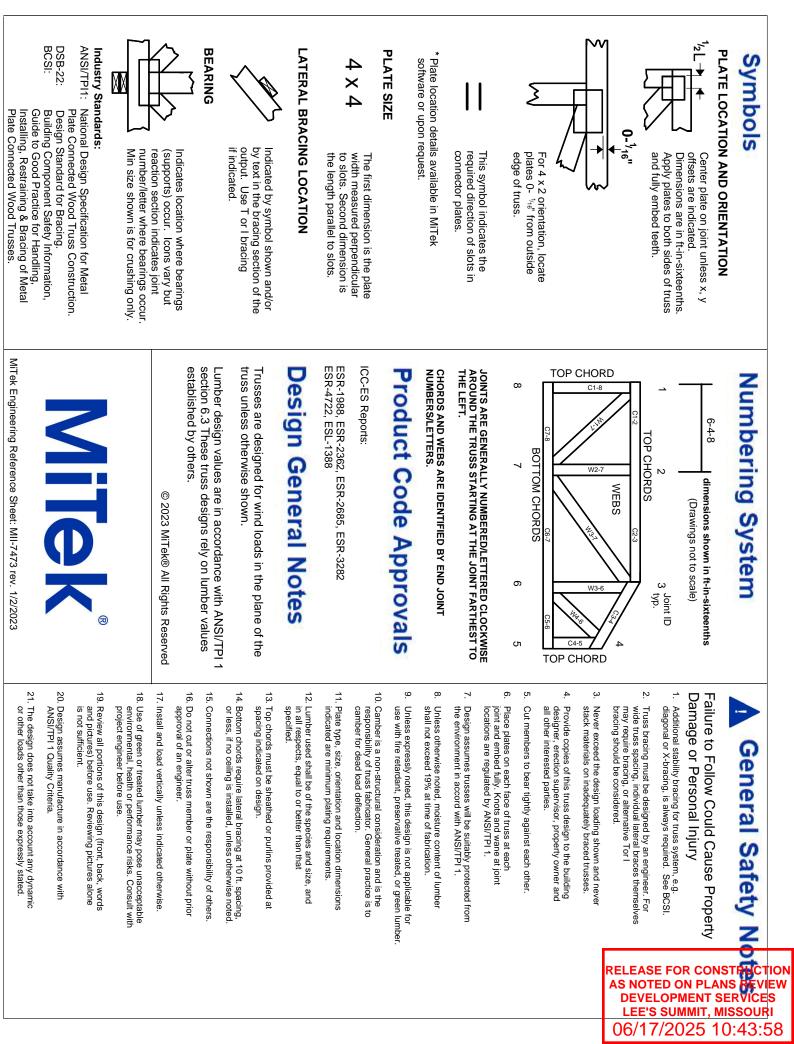
Scale = 1:24.2

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

	.9-1										
Loading (p TCLL (roof) 22 TCDL 11 BCLL (0 BCDL 10	0 Plate Grip DOL 0 Lumber DOL 0 Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.03 0.03 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 7 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING TOP CHORD Structural woo 2-6-3 oc purlin BOT CHORD Rigid ceiling di bracing. REACTIONS (size) 1=2: Max Horiz 1=-2 Max Uplift 1=-1 Max Grav 1=7	sheathing directly appli ectly applied or 10-0-0 or 5-10, 3=2-5-10 0 (LC 8) 0 (LC 12), 3=-10 (LC 13) (LC 1), 3=77 (LC 1) Compression/Maximum =-62/51 have been considered for mph (3-second gust) ; BCDL=6.0psf; h=35ft; closed; MWFRS (envelo ior(2E) zone; cantilever ical left and right ind forces & MWFRS fo DL=1.60 plate grip ids in the plane of the tri wind (normal to the face a End Details as applica designer as per ANSI/T ottom chord bearing. ) oc.	8) Provide n bearing p 1 and 10 9) This truss Internatio R802.10. bc LOAD CASE	echanical connectit late capable of withs lb uplift at joint 3. is designed in acco nal Residential Code 2 and referenced sta (S) Standard	standing 1 ordance w e sections	0 lb uplift at j ith the 2018 s R502.11.1 a	joint				PE-2022	MISSOLP ANIEL DX BER 2042259

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)





Failure to Follow Could Cause Property

LEE'S SUMMIT, MISSOURI

06/17/2025

- Additional stability bracing for truss system, e.g diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at
- . Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.