

RE: P250153-01 Roof - HM Lot 159

Site Information:

Customer: Clayton PropertiesProject Name: P250153-01Lot/Block: 159Model: Woodbridge - Modern Prairie 3 carAddress: 2708 SW 12th StSubdivision: Highland MeadowsCity: Lee's SummitState: 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 57 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	168479934	A1	9/27/2024	21	168479954	CG4	9/27/2024
2	168479935	A2	9/27/2024	22	168479955	CG5	9/27/2024
3	168479936	A3	9/27/2024	23	168479956	CG6	9/27/2024
4	168479937	A4	9/27/2024	24	168479957	E1	9/27/2024
5	168479938	A5	9/27/2024	25	168479958	H1	9/27/2024
6	168479939	A6	9/27/2024	26	168479959	H2	9/27/2024
7	168479940	A7	9/27/2024	27	168479960	H3	9/27/2024
8	168479941	A8	9/27/2024	28	168479961	H4	9/27/2024
9	168479942	A9	9/27/2024	29	168479962	HG1	9/27/2024
10	168479943	A10	9/27/2024	30	168479963	J1	9/27/2024
11	168479944	A11	9/27/2024	31	168479964	J2	9/27/2024
12	168479945	A12	9/27/2024	32	168479965	J3	9/27/2024
13	168479946	A13	9/27/2024	33	168479966	J4	9/27/2024
14	168479947	A14	9/27/2024	34	168479967	J5	9/27/2024
15	168479948	A15	9/27/2024	35	168479968	J6	9/27/2024
16	168479949	A16	9/27/2024	36	168479969	J7	9/27/2024
17	168479950	B1	9/27/2024	37	168479970	J8	9/27/2024
18	168479951	CG1	9/27/2024	38	168479971	J9	9/27/2024
19	168479952	CG2	9/27/2024	39	168479972	J10	9/27/2024
20	168479953	CG3	9/27/2024	40	168479973	J11	9/27/2024

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: Sevier, Scott

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



Sevier, Scott

September 27, 2024
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/10/2025 4:07:49

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200



RE: P250153-01 - Roof - HM Lot 159

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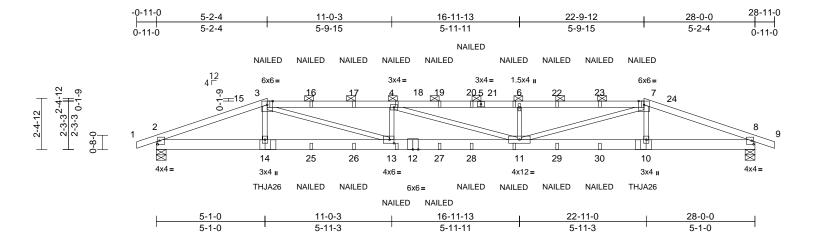
# Site Information:

Project Customer: Clayton Properties	Project Name: P250153-01
Lot/Block: 159	Subdivision: Highland Meadows
Address: 2708 SW 12th St	
City, County: Lee's Summit	State: MO

No.	Seal#	Truss Name	Date
41	168479974	J12	9/27/2024
42	168479975	J13	9/27/2024
43	168479976	J14	9/27/2024
44	168479977	J15	9/27/2024
45	168479978	J16	9/27/2024
46	168479979	J17	9/27/2024
47	168479980	J18	9/27/2024
48	l68479981	J19	9/27/2024
49	168479982	J20	9/27/2024
50	168479983	J21	9/27/2024
51	168479984	LG1	9/27/2024
52	168479985	LG2	9/27/2024
53	168479986	LG4	9/27/2024
54	168479987	LG5	9/27/2024
55	168479988	LG6	9/27/2024
56	168479989	LG7	9/27/2024
57	168479990	TG2	9/27/2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A1	Hip Girder	1	2	Job Reference (optional)	168479934

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:40 ID:3BJX?HGbO3e?9VWstBCFLIzDuRM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.9

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

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.79	Vert(LL)		11-13		240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.97	Vert(CT)	-0.64	11-13	>519	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.57	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 231 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS	1.5E	ot* 3-5,5-7:2x4 SP 16	2) 50F	except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 15) "NAILED" indicates Girder: 3-10d (0.148" x 3") per NDS guidelines.									0.148" x 3") toe-nails
BRACING			3)		roof live loads hav	ve been o	considered for	r	LOAD	CASE(S	) Sta	ndard	
TOP CHORD	Structural wood she 5-1-15 oc purlins, e> 2-0-0 oc purlins (4-4	cept -14 max.): 3-7.	4)	this design.       1)       Dead + Roof Live (balanced): Lumber Increase=1.1         Wind: ASCE 7-16; Vult=115mph (3-second gust)       Plate Increase=1.15         Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;       Uniform Loads (lb/ft)									
3OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.				exterior zone	and C-C Exterior	r(2E) -0-1	1-0 to 4-1-0,		C	Vert: 1-3 Soncentra		3-7=-70, 7-9=-70 ads (lb)	, 2-8=-20
Braining.           REACTIONS (size)         2=0-5-8, 8=0-5-8           Max Horiz         2=-37 (LC 13)           Max Uplift         2=-647 (LC 8), 8=-647 (LC 9)           Max Grav         2=2266 (LC 1), 8=2266 (LC 1)				Interior (1) 4-1-0 to 5-2-4, Exterior(2R) 5-2-4 to 12-3-2, Interior (1) 12-3-2 to 22-9-12, Exterior(2E) 22-9-12 to 28-11-0 zone; cantilever left and right exposed; c-C for members and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber									104 (B), 6=-104 (B), 104 (B), 20=-104 (B), 31 (B), 26=-31 (B),
FORCES	ORCES (Ib) - Maximum Compression/Maximum			DOL=1.60 plate grip DOL=1.60								(B), 30=-31 (B)	
TOP CHORD	Tension 1-2=0/2, 2-3=-5479/ 4-6=-8038/2366, 6-7 7-8=-5490/1592, 8-9	/=-8042/2369,		chord live load nonconcurrent with any other live loads.									
BOT CHORD		3-14=-1409/5015,	8)	capacity of 4 Provide mec	U								
WEBS	3-14=-10/519, 7-10= 3-13=-926/3312, 7-1 4-13=-855/434, 4-11	1=-907/3252,	9) 4/445	joint 2 and 6 This truss is	47 lb uplift at joint designed in accor	8. dance w	ith the 2018					TATE OF M	AISSO
(0.131"x3" Top chord oc. Bottom ch staggered	s to be connected toge ') nails as follows: Is connected as follows ords connected as follows at 0-9-0 oc. lected as follows: 2x3 -	0 11 12	<ul> <li>International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> <li>11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 5-2-10 from the left end to connect truss(es) to back face of bottom chord.</li> <li>12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 22-9-6 from the left end to connect truss(es) to back face of bottom chord.</li> <li>13) Fill all nail holes where hanger is in contact with lumber.</li> </ul>							T M. ER 018807			

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

 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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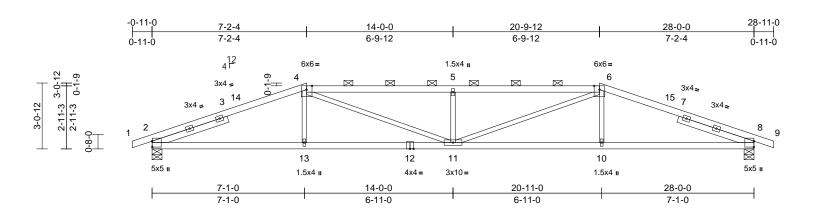
September 27,2024

Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A2	Нір	1	1	Job Reference (optional)	168479935

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries. Inc. Wed Sep 25 12:34:41 ID:amL0vgFTCg9NeGbXq0IxEizDuZ6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# Scale = 1:53.6

Plate Offsets (	(X, Y): [2:0-3-5,0-0-1],	[8:0-3-5,0-0-1]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.85 0.75 0.40	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.25 -0.47 0.12	(loc) 11 11-13 8	l/defl >999 >710 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 116 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2	athing directly applie paper 1-3 max.): 4-6. applied or 7-7-12 or 3=0-5-8 (2 7) C 8), 8=-303 (LC 9) LC 1), 8=1324 (LC 1) pression/Maximum /720, 4-5=-3475/951 -2782/720, 8-9=-40 -13=-581/2531, -10=-585/2537 278/1167, 5-11=-625	6) c 8) LC	This truss ha chord live los All bearings capacity of 5 Provide mec bearing plate joint 2 and 3 This truss is International R802.10.2 a Graphical pu	hanical connection a capable of withs 03 lb uplift at join designed in acco Residential Code nd referenced sta Irlin representatio ation of the purlin d.	I for a 10.0 t with any be SP No. on (by oth standing 3 t 8. ordance w e sections andard AN on does no	o) psf bottom other live loa 2 crushing ers) of truss 03 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1.	ads. to t				5000	
this design 2) Wind: ASG Vasd=91n Ke=1.00; exterior zc Interior (1) 28-0-0, In and right e exposed;0	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 ) 4-1-0 to 7-2-4, Exterio ) 14-0-0 to 20-9-12, Ex terior (1) 28-0-0 to 28- exposed ; end vertical C-C for members and f shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, or(2R) 7-2-4 to 14-0- terior(2R) 20-9-12 to 11-0 zone; cantilever left and right orces & MWFRS for	oe) 0, o r left									STATE OF M SCOT SEVI NUM PE-2001 PE-2001	ER Server

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

September 27,2024

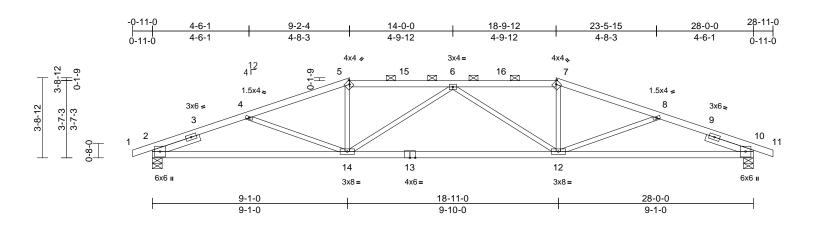
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A3	Нір	1	1	Job Reference (optional)	168479936

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:41 ID:6rJ3G8SVRbA6ZkpcINbht3zDuYs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# Scale = 1:53.7

Plate Offsets (X, Y): [2:0-3-13,0-	-5], [5:0-1-8,0-2-0], [7:0-1	I-8,0-2-0], [	10:0-3-13,0-	1-5]								
Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TI	PI2014	<b>CSI</b> TC BC WB Matrix-S	0.84 0.67 0.45	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.46 0.11	(loc) 12-14 12-14 10	l/defl >999 >728 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 117 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 1650F 1.5 WEBS 2x3 SPF No.2 SLIDER Left 2x4 SP No.2 No.2 2-3-12 BRACING TOP CHORD Structural wood s 2-2-0 oc purlins ( 2-0-0 oc purlins ( BOT CHORD Rigid ceiling direc bracing. REACTIONS (size) 2=0-5- Max Uplift 2=-294 Max Uplift 2=-294 Max Grav 2=132/ FORCES (b) - Maximum C Tension TOP CHORD 1-2=-4/0, 2-4=-27 5-6=-2365/687, 6 7-8=-2530/690, 8 BOT CHORD 2-14=-712/2470, 10-12=-710/2470	E - 2-3-12, Right 2x4 SP heathing directly applied ( xcept -6-6 max.): 5-7. ly applied or 8-5-2 oc , 10=0-5-8 _C 17) (LC 8), 10=-294 (LC 9) (LC 1), 10=1324 (LC 1) mpression/Maximum 35/823, 4-5=-2530/690, 7=-2365/823, 10-11=-4/ 2-14=-680/2669, 2=-50/437, 6-14=-510/20	2) W V K e: In In 2: C C C C C C C C C C C C C C C C C C	Vind: ASCE 7 /asd=91mph (e=1.00; Cat xterior zone nterior (1) 4-3 16-5-10-10, Inte antilever left ight exposed preactions s 00L=1.60 Provide adeq Provide adeq Provide adeq Provide adeq Provide adeq Provide mech earing plate pint 2 and 29 his truss is c nternational f 8202.10.2 an Braphical pur	7-16; Vult=115mp ; TCDL=6.0psf; B III; Exp C; Enclos and C-C Exteriori 3-9 to 9-2-4, Exter -3-2 to 18-9-12, E errior (1) 25-10-10 and right expose ;C-C for members shown; Lumber D uate drainage to p is been designed f d nonconcurrent v re assumed to be 55 psi. tanical connectior capable of withsta 4 lb uplift at joint lesigned in accord Residential Code d referenced stam lin representation tion of the purlin a	CDL=6. (22) -0- (22) -0- (22) -0- (22) -0- (22) -0- (22) -0- (22) -0- (22) -0- (22) -0- (22) -0- (23)	Dpsf; $h=35$ ft; FRS (envelop 1-0 to 4-3-9, 9-2-4 to 16-3 P-2-4 to 16-3 P-2-4 to 16-3 P-2-4 to 16-3 P-2-4 to 16-3 P-2-4	-2, o d SS g. ds. hing o					AISSOL

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



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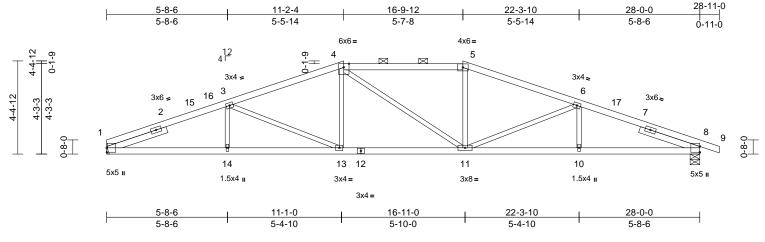
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A4	Нір	1	1	Job Reference (optional)	168479937

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:41 ID:mh5Swt0Mcjya4oKRS1QTImzDuY8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:54.4

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.82	Vert(LL)	-0.17	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.72	Vert(CT)	-0.32	11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.40	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 120 lb	FT = 20%
LUMBER			2	Wind <sup>,</sup> ASCE	7-16; Vult=115m	nh (3-se	cond gust)						
TOP CHORD	2x4 SP No.2		_,		h; TCDL=6.0psf; E								
BOT CHORD	2x4 SP No.2			Ke=1.00; Ca	it. II; Exp C; Enclo	sed; MW	FRS (envelo	pe)					
WEBS	2x3 SPF No.2			exterior zone	e and C-C Exterior	r(2E) 0-0	-0 to 5-0-0,						
SLIDER	Left 2x4 SP No.2 2	2-11-10, Right 2x4 SF	<b>5</b>	Interior (1) 5	-0-0 to 11-2-4, Ext	terior(2E	) 11-2-4 to						
	No.2 2-11-10				erior(2R) 16-9-12			1)					
BRACING					28-11-0 zone; can		0						
TOP CHORD	Structural wood she	athing directly applied	d or		nd vertical left and								
	2-2-0 oc purlins, exc	cept		members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60									
	2-0-0 oc purlins (3-0	)-12 max.): 4-5.											
BOT CHORD	Rigid ceiling directly	applied or 7-1-3 oc	3		quate drainage to			g.					
	bracing.		4)		as been designed ad nonconcurrent			do					
REACTIONS	(size) 1= Mecha	anical, 8=0-5-8	5		a assumed to be: ,								
	Max Horiz 1=77 (LC		5	capacity of 5		, 50111 0 1		iing					
	Max Uplift 1=-240 (L		6		er(s) for truss to tr	russ coni	nections						
	Max Grav 1=1259 (I	LC 1), 8=1325 (LC 1)	7		hanical connectio			0					
FORCES	(lb) - Maximum Corr	npression/Maximum			e capable of withs								
	Tension			joint 1 and 2	83 lb uplift at joint	8.	·						
TOP CHORD	1-3=-2806/783, 3-4=	,	8	This truss is	designed in accor	rdance w	ith the 2018						
	4-5=-2137/719, 5-6=			International	<b>Residential Code</b>	e sections	s R502.11.1 a	ind					
	6-8=-2795/801, 8-9=				nd referenced sta								
BOT CHORD	1-14=-661/2543, 13		9)		Irlin representation			size					
	11-13=-505/2138, 1	0-11=-686/2533,			ation of the purlin	along the	e top and/or						an
WEBS	8-10=-686/2533	170/100 1 10 10/00	~	bottom chore								OF	AL DA
WEBS	,	473/196, 4-13=-10/33	·	OAD CASE(S)	Standard							ALEUTI	USS SCIENCE
	4-11=-206/206, 5-11 6-10=0/212	1=-12/336, 6-11=-463	/194,								A	T.T.	N.S.
	0-10=0/212										A	STATE OF M	TM. CN

NOTES

 Unbalanced roof live loads have been considered for this design.



03/10/2025 4:07:50

SEVIER

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A5	Roof Special Girder	1	1	Job Reference (optional)	168479938

Ř

6x6=

2-7-0

2-7-0

22

HUS26 6-8-0

4-1-0

17

18

Special

7x8=

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:41 ID:4CEWwmk3wf\_lknmwKZU?2wzDuVv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

32-9-8 | | | 0-11-0

10

 $\bigotimes$ 

3x4=

8x8=

31-10-8

6-8-6

September 27,2024

DEVELORMENT: SERVICES LEE'S SUMMIT'S MISSOURI 03/10/2025 4:07:50

TION

12

3x4 II

11

2-8-4 10-6-14 17-0-12 18-8-4 25-2-2 31-10-8 6-6-12 2-8-4 3-10-8 4-0-3 6-5-14 1-7-8 6-5-14 6-8-6 6x6= 4x6= 0 6 7 4x6 = 3x4 **≈** 20 19 NAILED 5 8 3x4 ≈ 412 41 M18AHS 12x18 5x5 = 21 <sub>9</sub> 3x4≈ 0-1-0 3 4  $\bowtie$ T e M ,0-8-0 Π

16-11-8

6-4-10

16

6x6=

10-6-14

3-10-15

15 14

6x6 =

4x8=

18-9-8

1-10-0

13

3x4=

25-2-2

6-4-10

Scale = 1:60.1

5-0-12 0-1-9

4-11-3

1-6-12

5-0-12

3-4-7

-9 -9

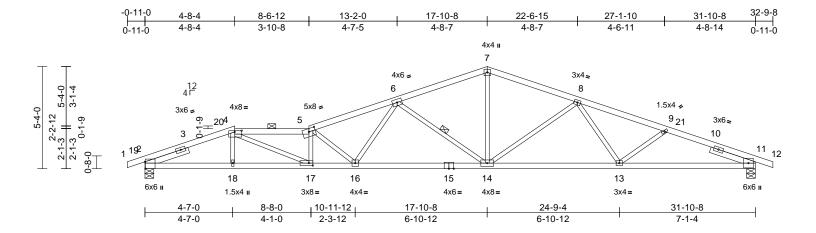
Plate Offsets (	X, Y): [2:Edge,0-3-2],	[4:0-9-0,0-2-0], [10:0-1-9	,0-4-0], [10:E	dge,0-2-2], [16:0-2-8,0-	3-0], [18:0	)-2-8,0-4-4]						
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing2-Plate Grip DOL1.1Lumber DOL1.1Rep Stress IncrNCCodeIR	5 5	CSI TC BC WB Matrix-S	0.89 0.84 0.87	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 16-17 16-17 10	l/defl >921 >515 n/a	L/d 240 180 n/a	PLATES MT20 M18AHS Weight: 156 lb	<b>GRIP</b> 197/144 142/136 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS	1.5E 2x6 SP 2400F 2.0E No.2 2x3 SPF No.2 Right 2x4 SP No.2 Structural wood she 2-8-2 oc purlins, exc 2-0-0 oc purlins (2-4 Rigid ceiling directly bracing.	athing directly applied or ept -0 max.): 3-4, 6-7. applied or 7-3-4 oc	Vasd= Ke=1. exterin Interio 18-8-4 to 32- vertica forces DOL= 3) Provio 4) All pla 5) This tr	ASCE 7-16; Vult=115n 91mph; TCDL=6.0psf; 00; Cat. II; Exp C; Enclor r zone and C-C Exterior r (1) 6-6-12 to 17-0-12, , Exterior(2R) 18-8-4 tc -8 zone; cantilever left I left and right exposed & MWFRS for reaction 1.60 plate grip DOL=1.0 e adequate drainage to tes are MT20 plates un uss has been designed live load nonconcurren	BCDL=6. psed; MW pr(2E) -0- Exterior(2 23-8-4, I and right ;C-C for r s shown; 60 p prevent less other l for a 10.	Dpsf; h=35ft; FRS (envelop 11-0 to 6-6-12 2E) 17-0-12 tt therior (1) 23- exposed ; en nembers and Lumber water ponding wise indicate 0 psf bottom	2, 5 -8-4 id g. d.	of th LOAD ( 1) De Pla Ur Co	he truss CASE(S ead + Ro ate Incre hiform Lo Vert: 1- 2-10=-2 oncentra	are no ) Star oof Live case=1 oads (II 3=-70, 0 ted Lo	nted as front (F) o ndard e (balanced): Lur .15 b/ft) 3-4=-70, 4-6=-70	nber Increase=1.15, 0, 6-7=-70, 7-11=-70,
REACTIONS	(size) 2=0-5-8, 1 Max Horiz 2=-87 (LC Max Uplift 2=-526 (L Max Grav 2=1882 (L (lb) - Maximum Com Tension	: 17) C 8), 10=-314 (LC 9) C 1), 10=1541 (LC 1) pression/Maximum	<ul> <li>6) Bearir crushi crushi</li> <li>7) Provic bearir joint 2</li> <li>8) This ta</li> </ul>	<ul> <li>crushing capacity of 805 psi, Joint 10 SPF No.2 crushing capacity of 425 psi.</li> <li>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 526 lb uplift at joint 2 and 314 lb uplift at joint 10.</li> </ul>								
TOP CHORD BOT CHORD	4-5=-4672/1218, 5-6 6-7=-2569/751, 7-8= 8-10=-3290/816, 10- 2-18=-1130/3920, 13 16-17=-1868/7030, 13-14=-534/2495, 12	-2700/738, 11=0/2 7-18=-1879/7055, 14-16=-1055/4377,	R802. 9) Graph or the bottor 10) Use S Truss	ational Residential Cod 10.2 and referenced statical purlin representation orientation of the purlin o chord. Single Ply Girder) or e	andard AN on does no along the S26 (14-1 quivalent	ISI/TPI 1. of depict the s top and/or 6d Girder, 6-1 at 3-9-12 from	size 16d n			ä	STATE OF I	MISSOLA
WEBS NOTES 1) Unbalance this design	ed roof live loads have	6=-197/1009, 4=-123/580, =-40/334, =0/228, 4-18=-3396/813	chord 11) Fill all 12) "NAIL per Ni 13) Hange provic down design	<ul> <li>the left end to connect truss(es) to back face of bottom chord.</li> <li>11) Fill all nail holes where hanger is in contact with lumber.</li> <li>12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.</li> <li>13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 128 lb up at 2-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</li> </ul>							PE-2001	ER 1018807

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A6	Roof Special	1	1	Job Reference (optional)	168479939

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:42 ID:2mcZvJVm61hI1uHjtts?rjzDuol-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	∧, ı). [2.0-4-3,∟uge], [	[4:0-4-4,0-0-12], [5:0-4	0,0-2-0	J, [11.0-3-13,0	-1-5], [17:0-2-8,0-	1-0]							
<b>Loading</b> TCLL (roof) TCDL BCLL BCDL	10.0	Plate Grip DOL1Lumber DOL1Rep Stress Incr1	-0-0 .15 .15 ES RC2018	8/TPI2014	CSI TC BC WB Matrix-S	1.00 0.91 0.69	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 14-16 14-16 11	l/defl >999 >578 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 138 lb	<b>GRIP</b> 197/144 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS	No.2 2x4 SP 1650F 1.5E *No.2 2x3 SPF No.2 Left 2x4 SP No.2 - 2- 2-5-7 Structural wood shea 1-9-11 oc purlins, exc 2-0-0 oc purlins (2-0- Rigid ceiling directly a bracing. 1 Row at midpt 6 (size) 2=0-5-8, 1' Max Horiz 2=-94 (LC Max Uplift 2=-308 (LC Max Uplift 2=-308 (LC Max Uplift 2=-308 (LC (lb) - Maximum Comp Tension 1-2=-4/0, 2-4=-3306/8 5-6=-4045/1006, 6-7= 7-8=-2444/645, 8-9=- 9-11=-3189/777, 11-1 2-18=-728/3016, 17-1 16-17=-1139/4776, 1 13-14=-594/2752, 11 4-18=0/173, 4-17=-46 7-14=-258/1214, 6-14 6-16=-217/1057, 5-16 8-14=-649/223, 8-13=	3 max.): 4-5. applied or 2-2-0 oc 6-14 1=0-5-8 13) C 8), 11=-277 (LC 9) C 1), 11=1498 (LC 1) oression/Maximum 847, 4-5=-4823/1243, =-2442/653, -3031/720, 12=-4/0 18=-731/3013, 4-16=-705/3214, -13=-654/2886 64/2000, 5-17=-838/22 4=-1182/360, 5=-1260/402, =0/268, 9-13=-114/147	2 r 3) 4) 5) 6) 7) 8) LCC	Vasd=91mph Ke=1.00; Ca exterior zone Interior (1) 4- Interior (1) 8- 22-6-15, Inte left and right exposed;C-C reactions she DOL=1.60 Provide adec This truss ha chord live loa Bearings are crushing cap capacity of 5 Provide mec bearing plate joint 2 and 22 This truss is International R802.10.2 an Graphical pu	hanical connection capable of withst 77 lb uplift at joint designed in accor Residential Code nd referenced star flin representation ation of the purlin t.	CDL=6. sed; MW (2E) -0 rior(2E) ) Exterior(2) 32-9-8 z rtical left d forces a = 1.60 pl prevent 1 for a 10. with any loint 2 SI oint 11 S n (by oth tanding 3 11. dance w sections ndard AM	Dpsf; h=35ft; FRS (envelo 1-0 to 4-1-0, 4-8-4 to 8-6 2R) 17-10-8 t cone; cantilev and right & MWFRS fo ate grip water pondin. D psf bottom other live loa P 1650F 1.5E P No.2 crush ers) of truss 1 08 lb uplift at R502.11.1 at ISI/TPI 1.	12, oo ver g. ads. = hing to t		ç		STATE OF M STATE OF M SCOTT SEVI NUM PE-20010	ER DISSO7

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September 27,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A7	Roof Special	1	1	Job Reference (optional)	168479940

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:42 ID:hLsX\_EryHxLB0L?I4TuoWrzDunr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-2-8

6-8-4 10-6-12 17-10-8 25-1-0 31-10-8 6-8-4 3-10-8 7-3-12 7-2-8 6-9-8 4x8= 6 4<sup>12</sup> -4-0 2-9-3 0-1-9 2-5-4 18 19 3x4 🕿 6x6= 5x8 ≤ 3x4= <u>2</u>-9-32-10-12 7 3x4 o, 4 5 5-4-0 3x4= 17 20 3x4 -3 8 16 0-8-0  $\overline{\mathbf{X}}$ Ø 15 13 12 11 14 6x6 II 6x6 II 1.5x4 🛚 3x6= MT18HS 3x10 1.5x4 🛚 4x8= 6-7-0 10-8-0 17-10-8 25-1-0 31-10-8

#### Scale = 1:59.8

late Offsets (X, Y): [2:0-3-13,0-1-5], [5:0-4-0,0-2-0], [9:0-3-13,0-1-5], [14:0-2-8,0-1-8]													
ading (p	osf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
	5.0	Plate Grip DOL	1.15	тс	0.94	Vert(LL)	-0.31	12-14	>999	240	MT20	197/144	
DL 10	0.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.60	12-14	>634	180	MT18HS	244/190	
CLL C	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.16	9	n/a	n/a			
DL 10	0.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 141 lb	FT = 20%	
IMBER	0.0	Code		Matrix-S E 7-16; Vult=115	5mph (3-sec	ond aust)					Weight: 141 lb	F	

7-2-8

LUMBER TOP CHORD	2x4 SP 1650F 1.5E *Except* 4-5:2x4 SP No.2	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)
BOT CHORD WEBS SLIDER	2x4 SP 1650F 1.5E 2x3 SPF No.2 *Except* 12-5:2x4 SP No.2 Left 2x4 SP No.2 3-5-4, Right 2x4 SP No.2 3-6-9		exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 6-8-4, Exterior(2E) 6-8-4 to 10-6-12, Interior (1) 10-6-12 to 17-10-8, Exterior(2R) 17-10-8 to 22-10-8, Interior (1) 22-10-8 to 32-9-8 zone; cantilever
BRACING			left and right exposed ; end vertical left and right
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-6-11 max.): 4-5.		exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
BOT CHORD	Rigid ceiling directly applied or 7-5-4 oc	3)	Provide adequate drainage to prevent water ponding.
	bracing.	4) 5)	All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
WEBS	1 Row at midpt 5-12, 7-12	0)	chord live load nonconcurrent with any other live loads.
REACTIONS (size		6)	All bearings are assumed to be SP 1650F 1.5E crushing
	Max Horiz 2=-94 (LC 13)		capacity of 565 psi.
	Max Uplift 2=-308 (LC 8), 9=-276 (LC 9) Max Grav 2=1498 (LC 1), 9=1498 (LC 1)	7)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at
FORCES	(lb) - Maximum Compression/Maximum		joint 2 and 276 lb uplift at joint 9.
	Tension	8)	This truss is designed in accordance with the 2018
TOP CHORD	1-2=-4/0, 2-4=-3268/831, 4-5=-4064/1069, 5-6=-2508/664, 6-7=-2499/655,		International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
	7-9=-3250/775, 9-10=-4/0	9)	
BOT CHORD	2-15=-696/2982, 14-15=-699/2977,	0)	or the orientation of the purlin along the top and/or
	12-14=-939/4039, 11-12=-658/2969,		bottom chord.
	9-11=-658/2969	LO	AD CASE(S) Standard
WEBS	4-15=0/205, 4-14=-297/1288, 5-14=-600/232,		
	5-12=-1842/522, 6-12=-164/1020,		
	7-12=-818/270, 7-11=0/273		

6-7-0

4-1-0

this design.

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32-9-8

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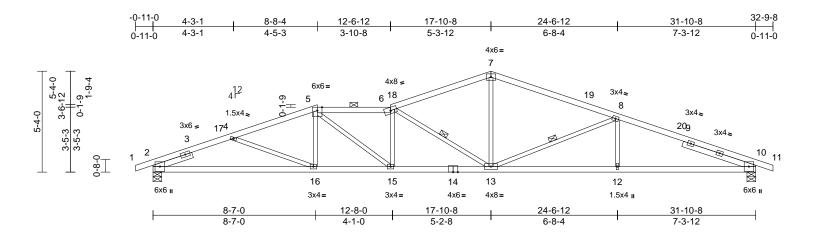
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6-9-8

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A8	Roof Special	1	1	Job Reference (optional)	68479941

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:42 ID:pxF9\_wqmCqYhEohsK\_rolwzDuma-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# Scale = 1:60.9

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PE-2001018

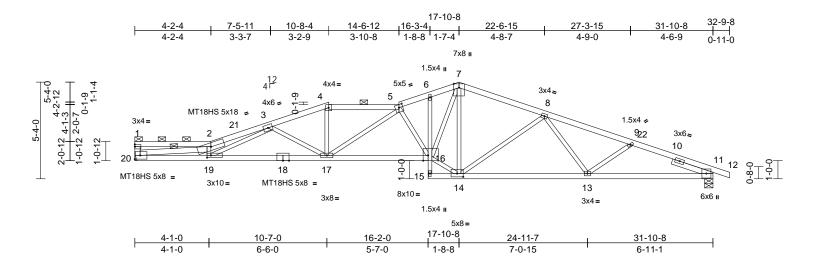
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September 27,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A9	Roof Special	1	1	Job Reference (optional)	168479942

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries. Inc. Wed Sep 25 12:34:42 ID:me3VfLM?\_m2OPA4vPP0nPpzDvCI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:63.5

Loading TCLL (roof)(pst) 25.0 Plate Grip DOLSpacing 1.15 Plate Grip DOL2-0-0 1.15 Lumber DOLCSI TCDEFLin(loc)//deflL/d MPLATES MT18HSGRIP MT18HSBCLL0.0 BCDL10.0Rep Stress Incr CodeYES CodeWB0.87Vert(CT)-0.9417-19>407180 MT20MT20244/190LUMBER TOP CHORD1.00Rep Stress Incr YES CodeIRC2018/TPI2014Matrix-S0.87Matrix-SWeight: 145 lbFT = 20%LUMBER TOP CHORD2x4 SP No.2 *Except* 2-4:2x4 SP 1650F 1.5E1Unbalanced roof live loads have been considered for this design.1Unbalanced roof live loads have been considered for this design.No.2, 15-11:2x4 SP No.2, 15-11:2x4 SP No.2, 3 SPF No.2 *Except* 20-1,20-2:2x4 SP No.21Unbalanced roof live loads have been considered for this design.1Unbalanced roof live loads have been considered for this design.WEBS COP CHORD2x4 SP No.2 *Except* 20-1,20-2:2x4 SP No.21Unbalanced roof live loads have been considered for this design.1Unbalanced roof live loads have been considered for this design.TOP CHORD No.22x4 SP No.2 *Except* 20-1,20-2:2x4 SP No.211Ucb-2-4, Exterior(2E)0-84 to 14-6-12, Interior (1) 22-6-15, Interior (1) 22-6-15 to 32-9-8 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.6010-9-84 cpi provide adequate derinage to prevent water ponding.TOP CHORD No.2Rigid ceilin	Plate Offsets (X,	, Y): [5:0-2-8,0-2-0],	[11:0-3-13,0-1-5], [14	4:0-4-0,0-	2-4], [16:0-3-4	,Edge], [19:0-2-8	,0-1-8]							
TOP CHORD2x4 SP No.2 *Except* 2-4:2x4 SP 1650F 1.5Ethis design.BOT CHORD2x4 SP 2400F 2.0E *Except* 6-15:2x3 SPF No.2, 15-11:2x4 SP No.2, 18-16:2x4 SP 1650F 1.5EWind: ASCE 7-16; Vult=115mph (3-second gust)WEBS2x3 SPF No.2 *Except* 20-1,20-2:2x4 SP No.2Interior (1) 4-2-4 to 10-8-4, Exterior(2E) 0-1-12 to 4-2-4,WEBS2x3 SPF No.2 *Except* 20-1,20-2:2x4 SP No.2Interior (1) 4-2-4 to 10-8-4, Exterior(2E) 10-8-4 to 14-6-12, Interior (1) 14-6-12 to 17-10-8, Exterior(2R)SLIDERRight 2x4 SP No.2 2-4-417-10-8 to 22-6-15, Interior (1) 22-6-15 to 32-9-8 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60BOT CHORDStructural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-8-7 max): 1-2, 4-5.Top CHORDBOT CHORDRigid ceiling directly applied or 6-0-0 oc bracing.3)WEBS1 Row at midpt2-205)The Fabrication Tolerance at joint 16 = 12%WEBS1 Row at midpt2-20	TCLL (roof) TCDL BCLL	25.0 10.0 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 1.15 YES	8/TPI2014	TC BC WB	0.90	Vert(LL) Vert(CT)	-0.51 -0.94	17-19 17-19	>754 >407	240 180	MT18HS MT20	244/190 244/190
<ul> <li>REACTIONS (size) 11-0-5-8, 20= Mechanical Max Horiz 20=-120 (LC 13)</li> <li>Max Horiz 20=-120 (LC 13) (b) - Maximum Compression/Maximum Tension</li> <li>FORCES (b) - Maximum Compression/Maximum Compression/Maximum Tension</li> <li>TOP CHORD 1-20=-222/108, 1-2=-486/135, 2-3=-6419/1604, 3-4=-3799/974, 4-5=-3553/939, 5-6=-3450/927, 6-7=-3347/919, 7-8=-2429/676, 8-9=-3022/741, 9-11=-3172/784, 11-12=-4/0</li> <li>BOT CHORD 1-20=-222/108, 1-12=-4/0</li> <li>BOT CHORD 1-20=-222/108, 1-12=-4/0</li> <li>BOT CHORD 1-20=-222/108, 1-12=-4/0</li> <li>WEBS 2-20=-5560/1348, 4-17=-158/883, 5-16=-57/0, 6-16=-34/137, 14-15=-48/12870</li> <li>WEBS 2-20=-5560/1348, 4-17=-158/883, 5-16=-136/417, 7-16=-600/2536, 7-14=-822/195, 14-16=-47/22509, 8-14=-647/2250, 9-13==-109/148, 5-17=-425/150, 2-19==-1076/349, 3-17=-861/309, 3-19=-466/2007</li> <li>NOTES</li> </ul>	TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD WEBS REACTIONS (S M FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	1.5E 2x4 SP 2400F 2.0E No.2, 15-11:2x4 SP 1650F 1.5E 2x3 SPF No.2 *Exce No.2 Right 2x4 SP No.2 - Structural wood she: except end verticals. (2-8-7 max.): 1-2, 4- Rigid ceiling directly bracing. 1 Row at midpt size) 11=0-5-8, fax Horiz 20=-120 ( fax Uplift 11=-274 ( fax Uplift 11=-274 ( fax Grav 11=1493 ( (lb) - Maximum Com Tension 1-20=-222/108, 1-2= 2-3=-6419/1604, 3-4 4-5=-3553/939, 5-6= 6-7=-3347/919, 7-8= 8-9=-3022/741, 9-11 19-20=-1367/5947, 16-17=-887/3888, 15 6-16=-34/137, 14-15 13-14=-623/2740, 11 2-20=-5560/1348, 4- 5-16=-1356/417, 7-1 7-14=-826/195, 14-18 8-14=-647/223, 8-13 5-17=-425/150, 2-19	*Except* 6-15:2x3 SF No.2, 18-16:2x4 SP vpt* 20-1,20-2:2x4 SP - 2-4-4 athing directly applied, and 2-0-0 oc purlins 5. applied or 6-0-0 oc 2-20 20= Mechanical LC 13) LC 9), 20=-265 (LC 8 (LC 1), 20=1427 (LC pression/Maximum -486/135, =-3799/974, -3450/927, -2429/676, =-3172/784, 11-12=- 17-19=-1009/4340, 5-16=-57/0, =-48/119, 1-13=-667/2870 -17=-158/883, 6=-472/2509, =0/275, 9-13=-109/1: 9=-1076/349,	2) PF d, 5 3) 4) 5) 6) 6) 6) 7) 1) 8) 9) 10 4/0 11 LC	this design. Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zone Interior (1) 4 14-6-12, Intt 17-10-8 to 2 cantilever ler right expose for reactions DOL=1.60 Provide ade All plates are The Fabrica This truss ha chord live lo Bearings are crushing cap Refer to gird Provide med bearing plate joint 20 and 0) This truss is International R802.10.2 a 0) Graphical pu or the orient bottom chord	7-16; Vult=115m h; TCDL=6.0psf; tit. II; Exp C; Encle and C-C Exterio -2-4 to 10-8-4, Ex prior (1) 14-6-12 t tand right expos d;C-C for membe shown; Lumber quate drainage to a MT20 plates un tion Tolerance at as been designed ad nonconcurren tion Tolerance at a been designed ad nonconcurren exacity of 565 psi. er(s) for truss to 1 shanical connectif e capable of withs 274 lb uplift at joi designed in accor Residential Cod nd referenced sta triln representatic ation of the purlin d.	aph (3-sec BCDL=6. Dssed; MW br(2E) 0-1 kterior(2E) 0 17-10-8 1) 22-6-15 ed; end v ers and foi DOL=1.6( p prevent v less other joint 16 = 1 for a 10.1 t with any , Joint 11 truss conr on (by oth standing 2 nt 11. ordance w e sections andard AM on does not	cond gust) Opsf; h=35ft; FRS (envelop -12 to 4-2-4, ) 10-8-4 to , Exterior(2R); to 32-9-8 zoi vertical left an rcces & MWFF ) plate grip water ponding wise indicate 12% D psf bottom other live loa SP No.2 hections. ers) of truss t 665 lb uplift at ith the 2018 c R502.11.1 a SI/TP1 1. ot depict the s	pe) ) ne; nd RS g. d. ds. to t				PE-2001	

September 27,2024

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A10	Roof Special	1	1	Job Reference (optional)	168479943

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries. Inc. Wed Sep 25 12:34:42 ID:bh6mu4tPYAofuO7xD9l5zAzDvAL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

17-10-8 16-6-12 3-2-14 6-2-4 12-8-4 16-3-4 25-7-0 31-10-8 3-2-14 2-11-6 3-7-0 6-3-7 6-6-0 7-8-9 0-3-8 1-3-12 3x4= 4x4 = 4x6 =3x4= 4x8= 7 4<sup>12</sup> 6-1-0-1 8 ဂု 4 65 Ť MT18HS 5x8 = 4-9-3 22 3x4 **≈** 3x4 II MT18HS 5x8 = 21 3x4 **≥** 1<u>-7-5</u> 0-1-7 9 2 \_20 3 ∿ 5-4-0 1 3x4 🕿 ¢ 23 1-7-5 10 10 19 11 12 0-8-0 ę 0-0-17 18 4x8= 15 3x10= 5x10= Ø 13 14 3x4 II 6x6 II 5x8= 1.5x4 **I** 5x10= 6-3-8 16-2-0 12-7-0 19-6-6 25-7-0 31-10-8 3-4-6 6-0-10 6-3-7 6-1-12 6-3-8 3-7-0

Scale = 1:63.5

Plate Offsets (X, Y): [3:0-3-12,Edge	], [7:0-2-0,Edge], [8:0-6-4,	,0-2-0], [11:0-3-13,0	)-1-5], [18:0-2-8,	0-1-8], [19	0-4-8,0-2-0]					-	
coading         (psf)           CLL (roof)         25.0           CDL         10.0           SCLL         0.0           SCDL         10.0	Spacing2-0Plate Grip DOL1.1:Lumber DOL1.1:Rep Stress IncrYE:CodeIRC	5 5	<b>CSI</b> TC BC WB Matrix-S	0.92 0.93 0.98	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 17-18 17-18 11	l/defl >976 >526 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 147 lb	<b>GRIP</b> 244/190 197/144 FT = 20%
No.2, 15-11:2x4 SP           VEBS         2x3 SPF No.2 *Exce           LIDER         Right 2x4 SP No.2 <b>RACING</b> OP CHORD           OP CHORD         Structural wood she           except end verticals (2-3-6 max.): 1-3, 4-           OT CHORD         Rigid ceiling directly bracing.           VEBS         1 Row at midpt <b>EACTIONS</b> (size)         11=0-5-8, Max Horiz           VEBS         1 Row at midpt <b>EACTIONS</b> (b) - Maximum Com Tension           OP CHORD         1-19=-132/70, 1-2=- 3-4=-3266/80, 4-55 5-6=-3209/905, 6-8= 7-8=-204/47, 8-9=-2 9-11=-3235/791, 11-           OT CHORD         18-19=-691/2949, 13 16-17=-710/3223, 14-1 13-14=-674/2946, 11           VEBS         3-18=-871/301, 3-17	*Except* 5-15:2x3 SPF No.2 ppt* 19-1:2x4 SP No.2 - 3-3-6 athing directly applied, , and 2-0-0 oc purlins 8. applied or 2-2-0 oc 3-17 19= Mechanical LC 13) LC 9), 19=-266 (LC 8) (LC 1), 19=1427 (LC 1) npression/Maximum 106/41, 2-3=-5143/1276, e-3125/865, =-3083/932, 6-7=-197/26, 642/727, -12=-4/0 7-18=-1140/5075, 5-16=0/44, 5=-31/123, 1-13=-674/2946 '=-1976/485, =-276/94, 8-14=-410/161, -16=-255/1169, 9=-3090/875, 3=0/249	<ul> <li>Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5 16-6-12, Inte 17-10-8 to 2: cantilever lef right expose for reactions DOL=1.60</li> <li>Provide aded</li> <li>All plates are crushing cap</li> <li>Refer to gird</li> <li>Provide mec bearing plate joint 11 and</li> <li>This truss is International R802.10.2 a</li> <li>Graphical put</li> </ul>	ation of the purlir 1.	BCDL=6.0 osed; MW or(2E) 0-1- Exterior(2E to 17-10-8 1) 22-10-8 sed; end v ers and for DOL=1.60 o prevent v less other d for a 10.0 t with any , Joint 11 truss conr on (by oth standing 2 int 19. ordance w le sections andard AN on does no	opsf; h=35ft; FRS (envelop (12 to 5-1-12, 2) 12-8-4 to Exterior(2R) to 32-9-8 zor ertical left an ces & MWFF oplate grip vater ponding wise indicate op psf bottom other live loa SP No.2 ections. ers) of truss to 71 lb uplift at th the 2018 R502.11.1 a R502.11.1 a th depict the s	ne; d S g. d. ds. o			8	STATE OF M SCOTT SEVI PE-20010 PE-20010	ER Serve D18807

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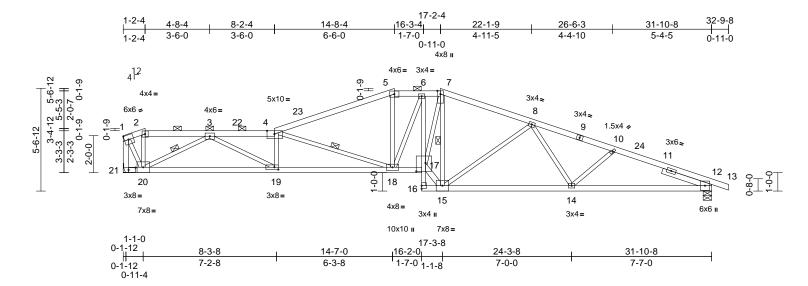
September 27,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A11	Roof Special	1	1	Job Reference (optional)	168479944

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:42 ID:\_uFmmYPVKN7?TVc6zY?6xFzDv74-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.4

Plate Offsets (>	K, Y): [4:0-4-12,Edge]	], [12:0-3-13,0-1-5], [ <sup>-</sup>	17:0-5-8,0	0-6-0], [19:0-2-	8,0-1-8], [21:0-4-	8,0-1-8]							
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		8/TPI2014	CSI TC BC WB Matrix-S	0.85 0.89 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 17-18 18-19 12	l/defl >999 >604 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 151 lb	<b>GRIP</b> 197/144 FT = 20%
BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	No.2 Right 2x4 SP No.2 Structural wood shea 2-2-0 oc purlins, exu 2-0-0 oc purlins (2-7 Rigid ceiling directly bracing. 1 Row at midpt (size) 12=0-5-8, Max Horiz 21=-127 ( Max Uplift 12=-300 ( Max Grav 12=1493 ( (Ib) - Maximum Com Tension 1-2=-744/181, 2-3=- 3-4=-4291/1043, 4-5 5-6=-2733/758, 6-7= 7-8=-2382/662, 8-10 10-12=-3182/785, 12 1-21=-1483/317 20-21=-57/142, 19-2 18-19=-903/4252, 11 16-17=-117/0, 6-17= 15-16=-38/179, 14-1 12-14=-658/2883 2-20=0/102, 4-19=-7 5-18=-55/504, 6-18= 15-17=-645/3320, 7- 15=-376/1703, 3-2	*Except* 6-16:2x3 SF No.2 ppt* 15-17,21-1:2x4 S - 2-9-7 athing directly applied cept end verticals, an -9 max.): 2-4, 5-7. applied or 6-0-0 oc 4-18, 7-15, 3-20 21= Mechanical LC 13) LC 9), 21=-263 (LC 8 (LC 1), 21=1427 (LC pression/Maximum 715/183, 5=-2967/764, 2809/775, b=-290/737, 2-13=-4/0, 20=-591/2795, 7-18=-564/2852, s=-100/2702, 211/274, 4-18=-1576/ 441/91, -17=-510/2511, 10=-312/1447, 20=-2374/659,	1) PF 2) P d or d ( 3) ( 3) ( 3) ( 3) ( 3) ( 3) ( 3) (	this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Exterior (2R) 18-8-4, Exte 21-2-4 to 26 cantilever lef right expose for reactions DOL=1.60 Provide aded This truss ha chord live loa Bearings are crushing cap Refer to gird Provide mec bearing plate joint 12 and This truss is International R802.10.2 a Graphical put		aph (3-sec BCDL=6. Desd; MW or(2E) 4-1 Interior (1 21-2-4, E 26-1-9 to 3 26-1-9 to 3 26-1-	ond gust) ops; h=35ft; FRS (envelo 12 to 5-2-4, 10-2-4 to ixterior(2R) 36-9-8 zone; ertical left ar ces & MWFF plate grip water ponding psf bottom other live loa SP No.2 erections. ers) of truss I 00 lb uplift al ith the 2018 R502.11.1 a ISJ/TPI 1. ot depict the s	pe) nd RS g. ds. to			K	STATE OF I SCOT SEVI OF ESSIONA	
	8-15=-643/220, 8-14	l=-6/296, 10-14=-134	/153									September	

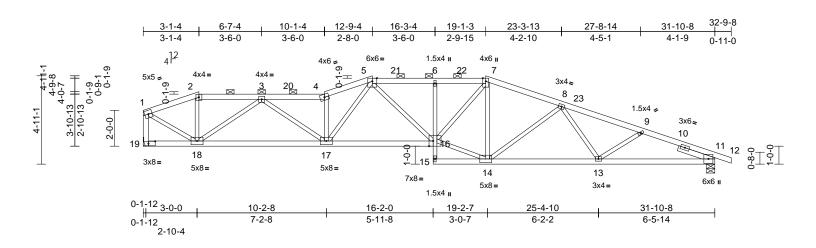
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A12	Roof Special	1	1	Job Reference (optional)	168479945

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:43 ID:6UeOmENJFGKWhyIgD3y5jKzDv5p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# Scale = 1:64.2

# Plate Offsets (X, Y): [11:0-3-13,0-1-5], [16:0-2-12,Edge], [19:0-4-8,0-1-8]

			-										
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	0.99	Vert(LL)	-0.29	16-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.86	Vert(CT)	-0.54	16-17	>707	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.87	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%
BCDL LUMBER TOP CHORD WEBS SLIDER BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	10.0 2x4 SP No.2 2x4 SP No.2 *Excep 2x3 SPF No.2 *Excep 2x3 SPF No.2 *Exce Right 2x4 SP No.2 - Structural wood she except end verticals (2-9-1 max.): 2-4, 5- Rigid ceiling directly bracing. (size) 11=0-5-8, Max Horiz 19=-115 ( Max Uplift 11=-310 ( Max Grav 11=1493 (lb) - Maximum Com Tension 1-2=-1534/400, 2-3= 3-4=-3691/973, 4-5= 5-6=-3242/920, 6-7= 7-8=-2585/738, 8-9= 9-11=-3142/800, 11 18-19=-58/127, 17-1 16-17=-667/3041, 13 6-16=-339/161, 14-1 13-14=-670/2801, 17 2-18=-15/265, 4-17= 14-16=-520/2481, 7- 7-14=-430/117, 1-18 3-17=-215/1081, 3-13 5-17=-216/193, 8-13 5-17=-216/1019, 5-1	Code Code	3) 3) 4) 5) 6) 7) 8) 400 9)	Wind: ASCE Vasd=91mph Ke=1.00; Ca exterior zone Exterior (2R) 16-9-4, Exter to 23-1-3, Ex 28-1-3 to 36- end vertical 1 forces & MW DOL=1.60 pl Provide aded This truss ha chord live loa Bearings are crushing cap Refer to girdd Provide mec bearing plate joint 11 and 2 This truss is International R802.10.2 au Graphical pu	Matrix-S 7-16; Vult=115mp r; TCDL=6.0psf; Bt t. II; Exp C; Enclos and C-C Exterior( 7-1-4 to 12-1-4, In ior(2R) 16-9-4 to 2 terior(2R) 23-1-3 th erior(2R) 23-1-3 th 9-8 zone; cantileve eft and right expos (FRS for reactions ate grip DOL=1.60 quate drainage to p is been designed for ad nonconcurrent v assumed to be: , , acity of 565 psi. er(s) for truss to tru- hanical connection e capable of withsta 276 lb uplift at joint designed in accord Residential Code stan rlin representation ation of the purlin a d.	h (3-sec CDL=6.1 ed; MW (2E) 4-1 terior (1 21-9-4, I o 28-1-3 er left ar ed;C-C shown; bor a 10.0 vith any Joint 11 uss conr (by oth anding 3 19. dance w sections dard AN	cond gust) Dpsf; h=35ft; FRS (envelo -12 to 7-1-4, ) 12-1-4 to nterior (1) 21 a right expos for members Lumber water ponding D psf bottom other live loa SP No.2 mections. ers) of truss i (10 lb uplift al ith the 2018 is R502.11.1 a ISJ/TPI 1. bt depict the s	pe) -9-4 sed ; and g. ds. to t		iud L		Weight: 146 lb	MISSOLUT T.M. ER Source L.E.NGIT

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September 27,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A13	Roof Special	1	1	Job Reference (optional)	168479946

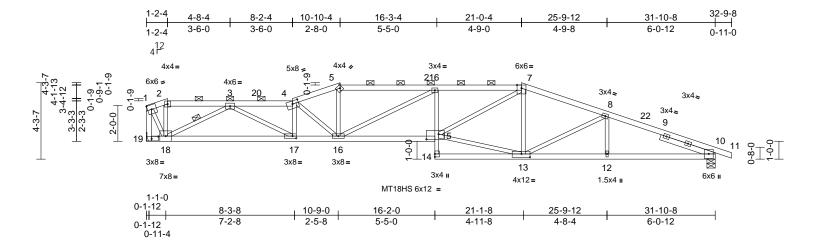
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:43 ID:xj6MIYHkq?f0ZKyuYcHSjxzDv4f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



September 27,2024

DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/10/2025 4:07:50

TION



# Scale = 1:64.6

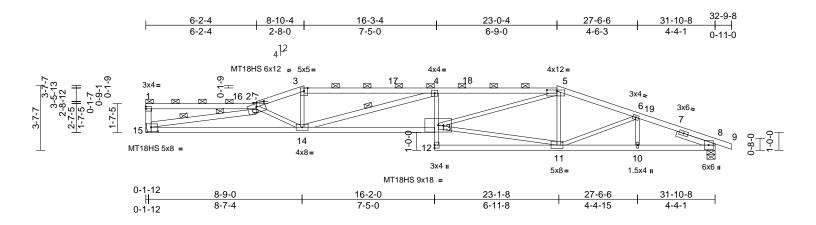
Plate Offsets (	(X, Y): [4:0-4-0,0-2-0],	[5:0-1-8,0-2-0], [10:0	)-3-13,0-1	-5], [13:0-5-12	,0-2-4], [15:0-8-	4,0-3-8], [1	7:0-2-8,0-1-8	], [19:0-4	4-8,0-1-8	3]		-	
<b>.oading</b> TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.88 0.82 0.94	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 15-16 15-16 10	l/defl >986 >534 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 145 lb	<b>GRIP</b> 197/144 197/144 FT = 20%
UMBER OP CHORD OT CHORD /EBS LIDER RACING OP CHORD OT CHORD /EBS EACTIONS	2x4 SP No.2 2x4 SP 1650F 1.5E * No.2, 14-10:2x4 SP 2x3 SPF No.2 *Exce Right 2x4 SP No.2 Structural wood shea 2-2-0 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (2-2 Rigid ceiling directly bracing. 1 Row at midpt	*Except* 6-14:2x3 SI No.2 pt* 19-1:2x4 SP No.2 · 3-2-9 athing directly applie cept end verticals, ar -0 max.): 2-4, 5-7. applied or 7-2-0 oc 3-18 19= Mechanical LC 13) LC 9), 19=-286 (LC 8 (LC 1), 19=1427 (LC pression/Maximum 712/177, i=-3730/947, -4207/1095,	2) PF 2 d or nd 3) 4) 5) 3) 6) 1) 7) 8) 9) •4/0,	Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zone Exterior(2R) 14-10-4, Ext 19-10-4 to 2 Interior (1) 2 right expose for members Lumber DOI Provide ade All plates are this truss ha chord live lo Bearings are crushing cap Refer to gird Provide med bearing plate joint 10 and This truss is International R802.10.2 a	7-16; Vult=115 h; TCDL=6.0psf t. II; Exp C; End and C-C Exter 5-2-4 to 10-2-4 erior(2R) 14-10 5-0-4, Exterior(2 9-9-12 to 36-9-4 d; end vertical l and forces & M =1.60 plate grip quate drainage b MT20 plates u us been designe ad nonconcurre e assumed to be hanical connect e capable of witl 286 lb uplift at ju designed in acc Residential Co nd referenced s rlin representat	; BCDL=6.( closed; MW ior(2E) 4-1; , Interior (1) -4 to 19-10- 2R) 25-0-4 to 3 zone; can left and righ MWFRS for to DOL=1.60 to prevent v inless other ad for a 10.0 int with any s; , Joint 10 o truss conr tion (by oth histanding 3 point 19. cordance wi de sections trandard AN	opsf; h=35ft; FRS (envelo .12 to 5-2-4, 10-2-4 to 4, Interior (1 o 29-9-12, tilever left an t exposed;C vater pondin- wise indicate ) psf bottom other live loa SP No.2 lections. ers) of truss i 23 lb uplift al th the 2018 R502.11.1 a ISI/TPI 1.	) -C own; g. .d. .ds. to t					
OT CHORD VEBS IOTES ) Unbalance this design	18-19=-57/138, 17-1 16-17=-890/4202, 15 14-15=0/91, 6-15=-1 12-13=-673/2924, 10 2-18=0/107, 4-17=-7 5-16=-166/910, 6-16 13-15=-541/2584, 7-7 7-13=-386/134, 8-13 1-18=-307/1443, 3-1 3-18=-2391/686 ed roof live loads have	5-16=-930/4241, 91/139, 13-14=-33/1 )-12=-673/2924 (23/233, 4-16=-862/2 i=-991/245, 15=-417/1806, i=-360/176, 8-12=0/2 7=-336/1633,	30, L <b>(</b> 202, 208,		ation of the purli 1.					,		STATE OF M SCOT SEVI OF HOLE PE-20010 PE-20010	ER 018807

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A14	Roof Special	1	1	Job Reference (optional)	168479947

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:43 ID:kQppWn02wFoarSzZ\_rtDYIzDv2P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:64.5

NOTES

this design.

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	0.98	Vert(LL)	-0.60	13-14	>637	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.10	13-14	>346	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.25	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%

	2.0E
BOT CHORD	2x4 SP 2400F 2.0E *Except* 4-12:2x3 SPF
	No.2, 12-8:2x4 SP No.2
WEBS	2x3 SPF No.2 *Except* 15-1,15-2,14-4:2x4
	SP No.2
SLIDER	Right 2x4 SP No.2 2-3-1
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals, and 2-0-0 oc purlins
	(2-2-0 max.): 1-2, 3-5.
BOT CHORD	Rigid ceiling directly applied or 7-1-14 oc
	bracing.
WEBS	1 Row at midpt 4-14
WEBS	2 Rows at 1/3 pts 2-15
REACTIONS	(size) 8=0-5-8, 15= Mechanical
	Max Horiz 15=-88 (LC 13)
	Max Uplift 8=-334 (LC 9), 15=-294 (LC 8)
	Max Grav 8=1493 (LC 1), 15=1427 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-15=-241/138, 1-2=-216/62,
	2-3=-4375/1048, 3-4=-4064/997,
	4-5=-5587/1396, 5-6=-3025/760,
	6-8=-3165/782, 8-9=-4/0
BOT CHORD	14-15=-1238/5238, 13-14=-1271/5679,
	12-13=0/128, 4-13=-220/168, 11-12=-41/222,
	10-11=-672/2863, 8-10=-672/2863
WEBS	2-15=-5141/1344, 2-14=-1267/429,
	3-14=-176/1106, 4-14=-1837/484,
	11-13=-570/2684, 5-13=-675/2844,
	5-11=-329/155, 6-11=-35/235, 6-10=0/119

1) Unbalanced roof live loads have been considered for

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 8-10-4, Exterior(2R) 8-10-4 to 13-10-4, Interior (1) 13-10-4 to 23-0-4, Exterior(2R) 23-0-4 to 28-0-4, Interior (1) 28-0-4 to 32-9-8 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 Provide adequate drainage to prevent water ponding. 3) 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 6) Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections. 7)

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 8 and 294 lb uplift at joint 15.

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

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

# LOAD CASE(S) Standard



September 27,2024

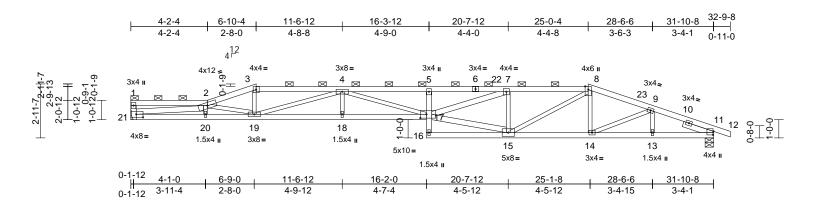
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a trust system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A15	Roof Special	1	2	Job Reference (optional)	168479948

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:43 ID:vHFX2BnPxI7EdVfYLFQPmgzDsf4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# Scale = 1:63

Plate Offsets (	X, Y): [11:0-2-5,0-0-5	], [17:0-4-0,0-2-8], [2	1:0-4-8,0-	-2-0]									
<b>Loading</b> FCLL (roof) FCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.45 0.72 0.45	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 17-18 17-18 11	l/defl >786 >435 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 291 lb	FT = 20%
LUMBER FOP CHORD BOT CHORD WEBS SLIDER BRACING FOP CHORD BOT CHORD	2x4 SP No.2 *Excep 1.5E 2x3 SPF No.2 *Exce 21-1,21-2,17-7,17-11 Right 2x4 SP No.2 Structural wood she 5-3-13 oc purlins, e 2-0-0 oc purlins, (4-2 Rigid ceiling directly	ept* 5:2x4 SP No.2 - 1-8-11 athing directly applie xcept end verticals, a	DF d or 2) ind	(0.131"x3") 1 Top chords o oc. Bottom chor 0-9-0 oc. Web connec 1 row at 0-9: All loads are except if not CASE(S) se provided to o	b be connected nails as follows: connected as fo ds connected as ted as follows: 2 0 oc. considered equed as front (F) c ction. Ply to ply distribute only lo wise indicated.	llows: 2x4 - s follows: 2 2x4 - 1 row ually applied or back (B) f connection	1 row at 0-9 (4 - 1 row at at 0-9-0 oc, 2 d to all plies, ace in the LO s have been	2x3 - DAD	or t	he orien om choi	tation o d.	of the purlin along	s not depict the size the top and/or
	bracing. (size) 11=0-5-8, Max Horiz 21=-74 (L Max Uplift 11=-343 ( Max Grav 11=1493	(LC 9), 21=-301 (LC 8		this design. Wind: ASCE Vasd=91mp	roof live loads h 7-16; Vult=115 h; TCDL=6.0psf it. II; Exp C; Enc	mph (3-sec ; BCDL=6.0	ond gust) )psf; h=35ft;						
ORCES	(lb) - Maximum Com	pression/Maximum			e and C-C Exter			pc)					
FOP CHORD	Tension 1-21=-217/107, 1-2= 2-3=-5102/1228, 3-4 4-5=-7378/1690, 5-7 7-8=-4139/1028, 8-9 9-11=-3037/748, 11-	4=-4799/1175, 7=-7050/1624, 9=-3154/790,		11-6-12, Inte 25-0-4 to 30 cantilever le right expose	-2-4 to 6-10-4, E erior (1) 11-6-12 -0-4, Interior (1) ft and right expo d;C-C for memb shown; Lumbe	to 25-0-4, 30-0-4 to 3 sed ; end v ers and for	Exterior(2R) 2-9-8 zone; ertical left ar ces & MWFF						all the
BOT CHORD	20-21=-1350/5920, 18-19=-1498/6823,	19-20=-1365/5950, 17-18=-1498/6823, 278/132, 15-16=-123/	, 0,	DOL=1.60 Provide ade This truss ha chord live lo	quate drainage as been designe ad nonconcurre	to prevent v d for a 10.0 nt with any	vater ponding ) psf bottom other live loa	•			Å	STATE OF M	MI. YAY
NEBS	2-21=-5548/1347, 2- 3-19=-231/1226, 8-1 4-17=-166/690, 4-19 7-15=-1444/398, 7-1 8-15=-313/1400, 15-	14=-56/107, 9=-2237/503, 4-18=0/ 17=-675/3090,		crushing cap Refer to gird Provide mec bearing plate joint 11 and ) This truss is International	assumed to be pacity of 565 psi er(s) for truss to hanical connect e capable of with 301 lb uplift at ji designed in acc Residential Co nd referenced s	truss conr tion (by oth nstanding 3 pint 21. cordance w de sections	ections. ers) of truss t 43 lb uplift at th the 2018 R502.11.1 a	t				PE-20010	)18807

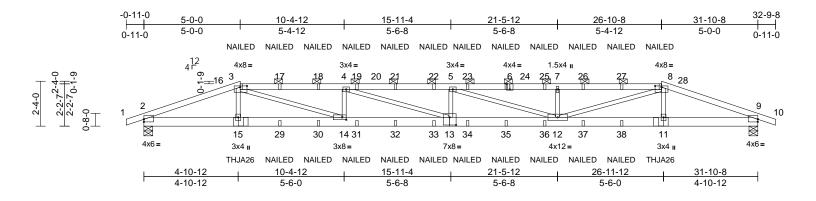
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terres September 27,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	A16	Hip Girder	1	2	Job Reference (optional)	168479949

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:44 ID:rsxYZJtub8KKW?1gn8Gkl9zDucB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



# Scale = 1:59.8

Plate Offsets	(X, Y): [2:Edge,0-1-10	), [3:0-4-4,0-0-12], [	6:0-2-0,Ed	ge], [8:0-4-0,	0-0-12], [9:Edge,0	-1-10], [13	:0-4-0,0-4-12	], [14:0-:	2-8,0-1-8	]						
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		тс	0.77	Vert(LL)	-0.50	12-13	>748	240	MT20	197/144			
FCDL	10.0	Lumber DOL	1.15		BC	0.45	Vert(CT)	-0.90	12-13	>417	180					
BCLL	0.0	Rep Stress Incr	NO		WB	0.70	Horz(CT)	0.08	9	n/a	n/a					
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-						Weight: 300 lb	FT = 20%			
UMBER			2)	All loads a	re considered equ	ally applie	d to all plies,		14) N/A							
OP CHORD	2x4 SP No.2 *Excep	ot* 3-6,6-8:2x4 SP 10	650F		oted as front (F) of			DAD								
	1.5E				ection. Ply to ply o											
BOT CHORD					o distribute only loa	ads noted	as (F) or (B),						0.148" x 3") toe-nai			
VEBS	2x3 SPF No.2				erwise indicated.				•	NDS gu						
RACING			3)		d roof live loads h	ave been o	considered to	r	LOAD							
OP CHORD			ed or 4)	this design		mnh (2 c	and quat)		,			( )	nber Increase=1.15,			
	4-10-7 oc purlins, ex		4)		E 7-16; Vult=115r ph; TCDL=6.0psf;					ate Incre						
	2-0-0 oc purlins (3-1				Cat. II; Exp C; Encl				Uniform Loads (lb/ft)							
BOT CHORD		applied or 10-0-0 o	С		ne and C-C Exteri			96)				-70, 3-8=-70, 8-10=-70, 2-9=-20				
	bracing.				4-1-0 to 5-0-0, Ex		Concentrated Loads (lb) Vert: 3=-97 (F), 6=-97 (F), 15=-286 (F), 11=-286 (F)									
REACTIONS	( )				(2E) 26-10-8											
	Max Horiz 2=-36 (LC				e; cantilever left a							-97 (F), 18=-97 ( 2=-97 (F), 23=-97				
	Max Uplift 2=-709 (L				and right exposed											
	Max Grav 2=2508 (L		,	forces & MWFRS for reactions shown; Lumber						26=-97 (F), 27=-97 (F), 29=-29 (F), 30=-29 (F), 31=-29 (F), 32=-29 (F), 33=-29 (F), 34=-29 (F),						
ORCES	(lb) - Maximum Com	pression/Maximum		DOL=1.60	plate grip DOL=1.	.60						=-29 (F), 37=-29				
	Tension		5)		equate drainage t			g.		00- 20	(1), 00	- 20 (1), 01 - 20	(1), 00-20 (1)			
OP CHORD			30, 6)		has been designe											
	4-5=-10733/3052, 5-		a /a		oad nonconcurrer											
	7-8=-9339/2698, 8-9		=0/2 7)		s are assumed to	be SP 240	0F 2.0E crus	hing								
OT CHORD				capacity of												
	12-14=-2957/10740,	, 11-12=-1568/5636	, 8)		echanical connect											
VEBS	9-11=-1570/5666 3-15=-22/505, 8-11=	26/520			ate capable of with		09 lb uplift at						ADD			
VEDO	3-14=-1132/4086, 8-	,	0		709 lb uplift at joir							OFI	MISSO			
	4-14=-1238/518, 4-1		9)		is designed in acc			ام مر			. 1	Fre	A Scin			
	5-13=-208/224, 5-12	,			al Residential Coc and referenced st			Ind			B	122	N S S			
	7-12=-781/408		1(		ourlin representati			ize			R	SCOT	TM. YEY			
OTES			IV.		ntation of the purli			5120			R	SEV	ER \`Y			
	s to be connected toge	ther with 10d		bottom cho		along the				ſ	720		0 1+			
	") nails as follows:		1.		on Strong-Tie TH	JA26 (THJ	A26 on 2 plv.	Left		•	<b>S</b>	TTO	SOM			
Top chords connected as follows: 2x4 - 1 row at 0-9-0				Hand Hip) or equivalent at 5-0-6 from the left end to												
			connect truss(es) to front face of bottom chord.													
				on Strong-Tie TH						N	ON PE-2001	018807				
staggered at 0-9-0 oc.				d Hip) or equivaler						(V	12	ISA				
							(				× *	NV0	1 CM			

- Web connected as follows: 2x3 1 row at 0-9-0 oc.
- end to connect truss(es) to front face of bottom chord. 13) Fill all nail holes where hanger is in contact with lumber.

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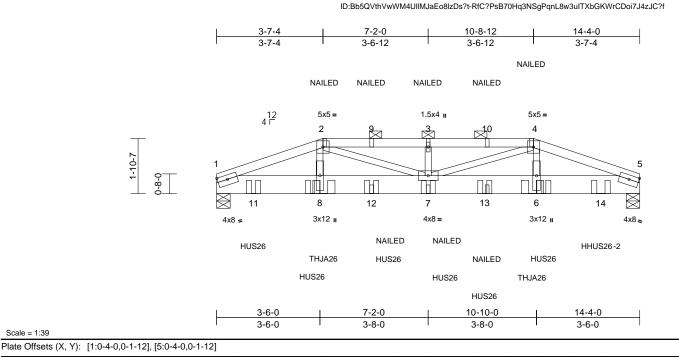
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	B1	Hip Girder	1	3	Job Reference (optional)	168479950

1-10-7

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:44



-		1		1								-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.15	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.27	7	>615	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 193 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SPF No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except
	2-0-0 oc purlins (5-2-0 max.): 2-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 1=0-5-8, 5=0-5-8
	Max Horiz 1=-27 (LC 13)
	Max Uplift 1=-1258 (LC 8), 5=-1307 (LC 9)
	Max Grav 1=5888 (LC 1), 5=5875 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-12212/2846, 2-3=-14096/3350,
	3-4=-14096/3350, 4-5=-12255/2924
BOT CHORD	1-8=-2568/11233, 7-8=-2525/11006,
	6-7=-2593/11044, 5-6=-2640/11273
WEBS	2-8=-583/3093, 4-6=-640/3124,
	4-7=-707/3332, 3-7=-207/206, 2-7=-780/3373
NOTES	

Scale = 1:39

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc. 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), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C 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
- Provide adequate drainage to prevent water ponding. 5)
- This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads. 7) All bearings are assumed to be SPF No.2 crushing
- capacity of 425 psi. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1258 lb uplift at joint 1 and 1307 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 3-7-10 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 10-8-6 from the left end to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 3-10-0 oc max. starting at 1-3-0 from the left end to 11-1-0 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 7-2-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 15) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 13-0-3 from the left end to connect truss(es) to back face of bottom chord.

16) Fill all nail holes where hanger is in contact with lumber. 17) N/A

Page: 1

18) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 1-5=-20 Concentrated Loads (lb)

- Vert: 4=-46 (F), 8=-1601 (F=-194, B=-1407), 6=-1601 (F=-194, B=-1407), 3=-46 (F), 7=-1422 (F=-15, B=-1407), 2=-46 (F), 9=-46 (F), 10=-46 (F),
- 11=-1407 (B), 12=-1422 (F=-15, B=-1407), 13=-1422 (F=-15, B=-1407), 14=-1407 (B)



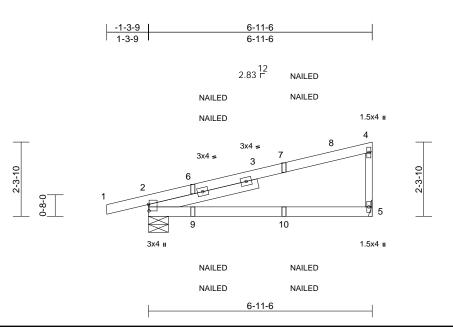


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component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

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	CG1	Diagonal Hip Girder	2	1	Job Reference (optional)	168479951

# Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:44 ID:7F6Nn7n8gozSfFFLify9fuzDuzY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	= 1:35.8	

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

	( , , , , , , , , , , , , , , , , , , ,				_							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.13	2-5	>622	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	2-5	>311	180		
BCLL BCDL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		FT 00%
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	-						Weight: 30 lb	FT = 20%
LUMBER			7) "NAILEI	D" indicates Girder: 3	3-10d (0.14	8" x 3") toe-i	nails					
TOP CHORD	2x4 SP 1650F 1.5E			S guidelines.								
BOT CHORD	2x4 SP No.2			OAD CASE(S) section			face					
WEBS	2x3 SPF No.2			uss are noted as fror	nt (F) or ba	ck (B).						
SLIDER	Left 2x4 SP No.2 3	3-5-12		E(S) Standard								
BRACING			·	Roof Live (balance	d): Lumber	Increase=1.	15,					
TOP CHORD			CUUI	ncrease=1.15								
	6-0-0 oc purlins, ex			n Loads (lb/ft) : 1-4=-70, 2-5=-20								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	•	ntrated Loads (lb)								
REACTIONS	Ū	5= Mechanical		: 6=71 (F=36, B=36).	10=0 (F=	) B=0)						
REACTIONS	Max Horiz 2=89 (LC				,	o, 2 o,						
	Max Uplift 2=-80 (LC											
	Max Grav 2=350 (LC											
FORCES	(lb) - Maximum Com											
	Tension	proceinin										
TOP CHORD		75, 4-5=-216/231										
BOT CHORD	2-5=-41/44											
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)										
	nph; TCDL=6.0psf; BC											
,	Cat. II; Exp C; Enclose	, , ,	pe)									
	one and C-C Corner (3										000	ann
	R) 5-9-5 to 6-10-2 zon										TATE OF	MISC
	osed ; end vertical left a ers and forces & MWF										4 SE	
	OL=1.60 plate grip DO		Jwii,							A	NY CONT	New Your
	has been designed for									4	-,	T THE N
	load nonconcurrent wi		ids.							E.	SEV	
	are assumed to be: Joi									1		
capacity o										W.	F7.	Xan In Yo
	irder(s) for truss to trus								-		2 Min	SHOW A
	nechanical connection (								_	N	O PE-2001	018807
bearing pl	late capable of withstar	nding 67 lb uplift at j	oint							XX	~~~~~~	Nº H

5 bearing plate capable of withstanding 67 lb uplift at joint 5 and 80 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.

SIONAL E September 27,2024

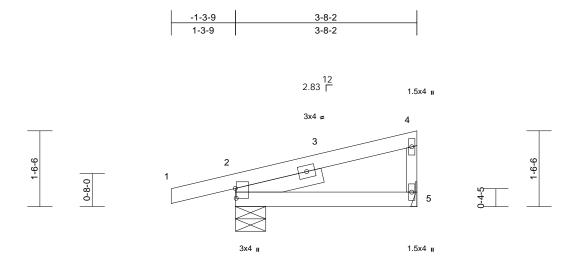
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	CG2	Detail Girder	1	1	Job Reference (optional)	168479952

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:44 ID:fAk7WEjBnZtB6AM4fWA8IWzDulQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f **D** 

Page: 1



3-8-2

Scale = 1:23.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI20	14 Matrix-P							Weight: 17 lb	FT = 20%
LUMBER TOP CHORD 2x BOT CHORD 2x WEBS 2x SLIDER Le BRACING TOP CHORD St BOT CHORD St BOT CHORD Ri br REACTIONS (size Maa Max	4 SP No.2 4 SP No.2 3 SPF No.2 ft 2x4 SP No.2 ructural wood she 8-2 oc purlins, ex gid ceiling directly acing. e) 2=0-7-6, ( Horiz 2=120 (Li ( Uplift 2=-158 (Li ( Grav 2=156 (Li	1-9-9 eathing directly applie cept end verticals. r applied or 10-0-0 or 5= Mechanical C 11) .C 10), 5=-83 (LC 16 C 1), 5=-83 (LC 1)	7) In the of the LOAD CA 1) Deau Plate Unife ed or V Trap c V 3= Ba	LOAD CASE(S) section truss are noted as from SE(S) Standard d + Roof Live (balance) a Increase=1.15 form Loads (lb/ft) ert: 1-2=-70 ezoidal Loads (lb/ft) ert: 2=0 (F=35, B=35)-t ert: 2=0 (F=35, B=35)-t ert: 2=0, B=20)-to-4 =10)-to-5=-18 (F=1, B=	nt (F) or ba d): Lumber co-3=-31 (F =-64 (F=3,	ck (B). Increase=1. =20, B=20),	15,					
Te TOP CHORD 1-2	, ension 2=-5/0, 2-4=-50/24	npression/Maximum 4, 4-5=-60/104										
	5=-25/27											
<ul> <li>Ke=1.00; Cat. exterior zone a and right expose exposed;C-C for reactions show DOL=1.60</li> <li>2) This truss has chord live load</li> <li>3) Bearings are a capacity of 565</li> <li>4) Refer to girder</li> <li>5) Provide mecha bearing plate of 5 and 158 lb up</li> <li>6) This truss is de International R</li> </ul>	TCDL=6.0psf; BC II; Exp C; Enclose sed; end vertical or members and f m; Lumber DOL= been designed fo nonconcurrent w ssumed to be: Jo 5 psi. (s) for truss to tru: nnical connection apable of withsta plift at joint 2.	EDL=6.0psf; h=35ft; d; MWFRS (envelop) ) zone; cantilever lei left and right orcres & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live loa int 2 SP No.2 crushi ss connections. (by others) of truss t nding 83 lb uplift at ju ance with the 2018 ections R502.11.1 a	ft ds. ng o pint								STATE OF J STATE OF J SEV SEV PE-2001 PE-2001	T M. HER 018807

September 27,2024



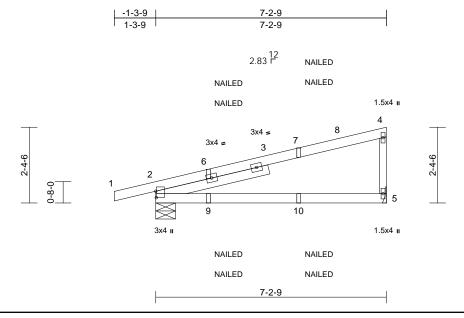
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	CG3	Diagonal Hip Girder	2	1	Job Reference (optional)	168479953

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:45 ID:?1NRHKtWxEcYJa3i?Tdk2YzDuRs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:36

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

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.77	DEFL Vert(LL)	in -0.16	(loc) 2-5	l/defl >535	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	2-5	>267	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a	-	
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P							Weight: 31 lb	FT = 20%
BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP 1650F 1.5E 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2	athing directly applic cept end verticals.	ed or Ver c Ver per ND 8) In the L of the tr LOAD CAS 1) Dead Unifor c Ver Conce	D" indicates Girder: 3- S guidelines. OAD CASE(S) section uss are noted as fron <b>E(S)</b> Standard + Roof Live (balanced ncrease=1.15 m Loads (lb/ft) :: 1-4=-70, 2-5=-20 ntrated Loads (lb) :: 6=62 (F=31, B=31),	n, loads a t (F) or ba d): Lumber	oplied to the ck (B).	face					
N N FORCES	Max Horiz 2=92 (LC Max Uplift 2=-102 (L Max Grav 2=373 (LC (lb) - Maximum Com Tension 1-2=-5/0, 2-4=-183/7	31) C 8), 5=-78 (LC 12) C 1), 5=300 (LC 1) pression/Maximum			- 、	, ,						
	2-5=-42/46	5, 4-5220/255										
NOTES												
<ul> <li>Vasd=91mp Ke=1.00; Ca exterior zon Exterior (2R) exposed; e members ar Lumber DO</li> <li>2) This truss h chord live Ic</li> <li>3) Bearings ar capacity of 4</li> <li>4) Refer to gird</li> <li>5) Provide meet</li> </ul>	E 7-16; Vult=115mph bh; TCDL=6.0psf; BC at. II; Exp C; Enclose te and C-C Corner (3) ) 5-9-5 to 7-1-5 zone; nd vertical left and rig nd forces & MWFRS L=1.60 plate grip DO as been designed for back nonconcurrent wi e assumed to be: Joi 565 psi. der(s) for truss to trus chanical connection ( te capable of withstar	DL=6.0psf; h=35ft; d; MWFRS (envelop -1-3-9 to 5-9-5, cantilever left and r ht exposed;C-C for for reactions shown L=1.60 a 10.0 psf bottom th any other live loa nt 2 SP No.2 crushin s connections. by others) of truss to	right ; ds. ng						4		STATE OF SCOT SEV	ler z

- 2 3
- ۷
- 5
- of withstanding 78 lb uplift at joint 5 and 102 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.

SIONAL E September 27,2024





Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	CG4	Diagonal Hip Girder	1	1	Job Reference (optional)	168479954

5-5-5 5-5-5

NAILED

5-5-5

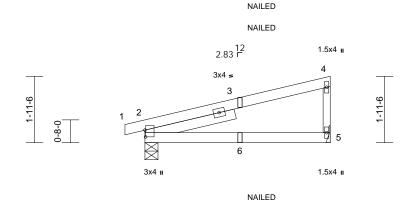
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1 0-7-1

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. Wed Sep 25 12:34:45 ID:ooUezWRZa6vIoaWaKNfvITzZIs?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.9

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

											-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.05	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.10	2-5	>657	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P	-						Weight: 23 lb	FT = 20%
LUMBER				D" indicates Girder: 3	8-10d (0.14	8" x 3") toe-	nails					
TOP CHORE				S guidelines.								
BOT CHORE				OAD CASE(S) section			face					
WEBS	2x3 SPF No.2			uss are noted as from	nt (F) or ba	ск (В).						
SLIDER	Left 2x4 SP No.2 2	2-8-8		E(S) Standard								
BRACING			,	+ Roof Live (balanced	d): Lumbei	Increase=1.	.15,					
TOP CHORE			00.01	ncrease=1.15 m Loads (lb/ft)								
BOT CHORE	5-5-5 oc purlins, ex D Rigid ceiling directly			t: 1-4=-70, 2-5=-20								
BOTCHORL	bracing.	applied of 10-0-0 0										
REACTIONS	U	5= Mechanical										
	Max Horiz 2=69 (LC											
	Max Uplift 2=-76 (LC	,										
	Max Grav 2=284 (L0											
FORCES	(lb) - Maximum Corr	npression/Maximum										
	Tension											
TOP CHORE	D 1-2=-15/0, 2-4=-98/6	60, 4-5=-185/232										
BOT CHORE	0 2-5=-34/36											
NOTES												
1) Wind: AS	SCE 7-16; Vult=115mph	(3-second gust)										
	Imph; TCDL=6.0psf; BC											
	; Cat. II; Exp C; Enclose											
	zone and C-C Corner (3		ft								SIL	ann
	t exposed ; end vertical ;C-C for members and f										F OF	MISSO
	s shown; Lumber DOL=									1	TEOF	-20 M
DOL=1.6		1.00 plate grip								R	641	New M
	s has been designed fo	r a 10.0 psf bottom								A	SCOT	
	e load nonconcurrent w		ds.						~	И.	SEV	
3) Bearings	are assumed to be: Jo	int 2 SP No.2 crushi	ng							N/	-	
	of 565 psi.									XX.	La TTZ	SONALON
	girder(s) for truss to trus									- A	NUM	BER TAN
,	mechanical connection									N	PE-2001	018807
	plate capable of withstan	naing 57 ib uplift at j	oint							N	The second secon	12 A
	b Ib uplift at joint 2. is is designed in accordation	ance with the 2019								۲	C'SSIONA	NO'A
	onal Residential Code s		ind								ONA	LEFA
	2 and referenced stand										Curr	TOS

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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)



September 27,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	CG5	Diagonal Hip Girder	2	1	Job Reference (optional)	168479955

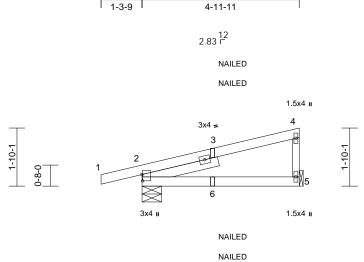
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:45 ID:Bb5QVthVwWM4UIIMJaEo8lzDs?t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





4-11-11

4-11-11	

Scale = 1:36.4

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

					_							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.03	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.07	2-5	>867	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P							Weight: 22 lb	FT = 20%
LUMBER				D" indicates Girder: 3	-10d (0.14	8" x 3") toe-	nails					
TOP CHORD	2x4 SP No.2			S guidelines.								
BOT CHORD	2x4 SP No.2			OAD CASE(S) sectio			face					
WEBS	2x3 SPF No.2			russ are noted as fron	it (F) or ba	ck (B).						
SLIDER	Left 2x4 SP No.2 2	2-5-9		SE(S) Standard								
BRACING				+ Roof Live (balanced	d): Lumber	Increase=1.	15,					
TOP CHORD	Structural wood she	athing directly appli	Cu UI	Increase=1.15								
	4-11-11 oc purlins,			m Loads (lb/ft)								
BOT CHORD	0 0 ,	applied or 10-0-0 o	ic Ve	t: 1-4=-70, 2-5=-20								
	bracing.											
REACTIONS	(size) 2=0-7-6, 5	5= Mechanical										
	Max Horiz 2=68 (LC	11)										
	Max Uplift 2=-111 (L		)									
	Max Grav 2=322 (L0	C 1), 5=207 (LC 1)										
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension											
TOP CHORD	1-2=-5/0, 2-4=-89/56	6, 4-5=-158/206										
BOT CHORD	2-5=-31/34											
NOTES												
	CE 7-16; Vult=115mph	(3-second aust)										
	nph; TCDL=6.0psf; BC											
Ke=1.00;	Cat. II; Exp C; Enclose	d; MWFRS (envelo	pe)									
exterior zo	one and C-C Corner (3	) zone; cantilever le	ft								200	an
	exposed ; end vertical										TATE OF	MIG
	C-C for members and f		r								FE	USS W
	shown; Lumber DOL=	1.60 plate grip								6		N.S.
DOL=1.60										R	SCOT	TM.
	has been designed fo									4	7 SEV	IER \ \
	load nonconcurrent w									0.		1 * 2
<ol> <li>Bearings a capacity o</li> </ol>	are assumed to be: Jo	III 2 3P INU.2 CIUSNI	ing							8 7	1.4	
	jirder(s) for truss to tru	es connections								NA	LTD.	Str Month
	nechanical connection		to								your	DER
	late capable of withsta									N	PE-2001	018807 / 28
	b uplift at joint 2.	nunny 43 ib uplint at j	Unit							(V	1 and	18A
										1	190	10.4

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

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

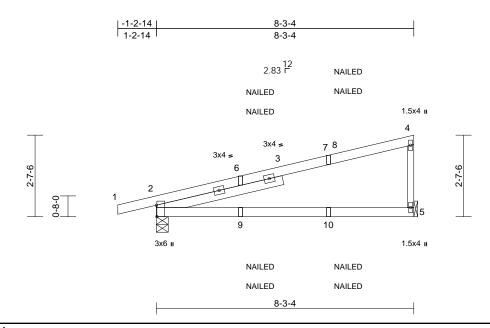


03/10/2025 4:07:51

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	CG6	Diagonal Hip Girder	2	1	Job Reference (optional)	168479956

### Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:45 ID:k9AfVKV5W2NA?5XZIduPXJzBdNB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





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

- 1410 0110010	(,,, i); [2:0 : 0,2ag0]											
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	0.94	Vert(LL)	-0.22	2-5	>454	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	Matrix-P					-		Weight: 35 lb	FT = 20%
LUMBER				D" indicates Girder: 3	-10d (0.14	8" x 3") toe-	nails					
TOP CHORD	2x4 SP 2400F 2.0E			S guidelines.								
BOT CHORD				OAD CASE(S) sectio			face					
WEBS	2x3 SPF No.2			uss are noted as fron	it (F) or ba	ск (В).						
SLIDER	Left 2x4 SP No.2	4-1-15		E(S) Standard								
BRACING				Roof Live (balanced	d): Lumbei	Increase=1.	.15,					
TOP CHORD			CU UI	ncrease=1.15								
	6-0-0 oc purlins, ex			n Loads (lb/ft) :: 1-4=-70, 2-5=-20								
BOT CHORD	<ul> <li>Rigid ceiling directly bracing.</li> </ul>	applied of 10-0-0 0		ntrated Loads (lb)								
REACTIONS	•	5= Mechanical		: 7=-53 (F=-26, B=-2)	6). 10=-19	(F=-10, B=-	10)					
REACTIONS	Max Horiz 2=103 (L				-,,	( , _	,					
	Max Uplift 2=-149 (L		2)									
	Max Grav 2=484 (L		-)									
FORCES	(lb) - Maximum Corr	,, , ,										
TORGES	Tension											
TOP CHORD		82, 4-5=-315/306										
BOT CHORD	2-5=-47/51	,										
NOTES												
	CE 7-16; Vult=115mph	(3-second aust)										
	mph; TCDL=6.0psf; BC											
Ke=1.00;	Cat. II; Exp C; Enclose	ed; MWFRS (envelo	pe)									
	one and C-C Corner (3										000	100
	2R) 5-10-0 to 8-2-0 zon										A OF	MIG
	osed ; end vertical left a										ATE OF	0.0
	pers and forces & MWF		own;							6	AN IN	Nov N
	DOL=1.60 plate grip DC s has been designed fo									B	SCOT	
	e load nonconcurrent w		de							Я.	SEV	IER \ Y
	are assumed to be: Jo											
	capacity of 805 psi.		-								ATTS.	Xa.
4) Refer to g	girder(s) for truss to tru	iss connections.							-		NUM	SIM()
	nechanical connection									17	PE-2001	
	late capable of withsta	nding 115 lb uplift at	t joint							N	ALTE-2001	SB
	9 lb uplift at joint 2.									Y	h tro	IN B
	s is designed in accorda										SSIONA	TENA
Internatio	nal Residential Code s	ections R502.11.1 a	and								QUINE	

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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)

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September 27,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	E1	Half Hip Girder	1	1	Job Reference (optional)	168479957

3-11-4

3-11-4

0-5-0

0-5-0

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

1-11-12

# Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:45 ID:ZKzgfFXahZwAmo77o3pnd9zZIrt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-5-8

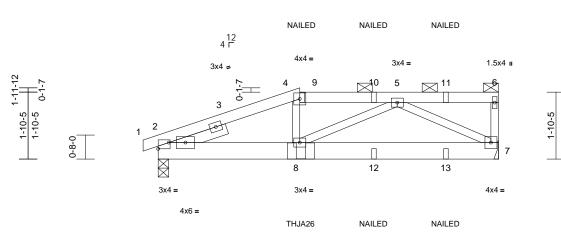
2-9-12

6-7-12

2-8-8

Page: 1







Scale = 1:32 Plate Offsets (X, Y): [2:0-2-9,0-2-0], [2:Edge,0-2-2]

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 IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.34 0.28 0.27	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 7-8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 41 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	5-1-2 oc purlins, ex 2-0-0 oc purlins (5-6 Rigid ceiling directly bracing.	athing directly applie cept end verticals, a 3-0 max.): 4-6. applied or 10-0-0 or 7= Mechanical	nd c 1	<ul> <li>bearing plate joint 7 and 1</li> <li>This truss is International R802.10.2 a</li> <li>Graphical pu or the orient bottom chore</li> <li>Use Simpso Hand Hip) o</li> </ul>		ithstanding 1 pint 2. ccordance w ode sections standard AN ation does no rlin along the HJA26 (THJ 3-11-10 fror	85 lb uplift a ith the 2018 SR502.11.1 a ISI/TPI 1. ot depict the top and/or A26 on 1 ply n the left end	t and size , Left					
this design Wind: ASC Vasd=91n Ke=1.00;	Max Uplift 2=-195 (L Max Grav 2=672 (L0 (lb) - Maximum Com Tension 1-2=-10/0, 2-4=-124 5-6=-46/40, 6-7=-10 2-8=-493/1106, 7-8= 4-8=0/233, 5-8=-28/ ed roof live loads have	C 8), 7=-185 (LC 8) C 1), 7=654 (LC 1) pression/Maximum 5/490, 4-5=-1097/45 9/86 470/870 284, 5-7=-954/503 been considered fo (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	1 98, 1 r	OAD CASE(S) ) Dead + Ro Plate Incre. Uniform Lo Vert: 1-4 Concentrat Vert: 4=-	delines. CASE(S) sec are noted as fr Standard of Live (baland ase=1.15	tion, loads a ont (F) or ba ced): Lumber , 2-7=-20	pplied to the ck (B).	face 15,			ł.	STATE OF	MISSOURT M.

# chord live load nonconcurrent with any other live loads.5) Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi.

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

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

Provide adequate drainage to prevent water ponding.

This truss has been designed for a 10.0 psf bottom

DOL=1.60

3)

4)

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



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PE-2001018807

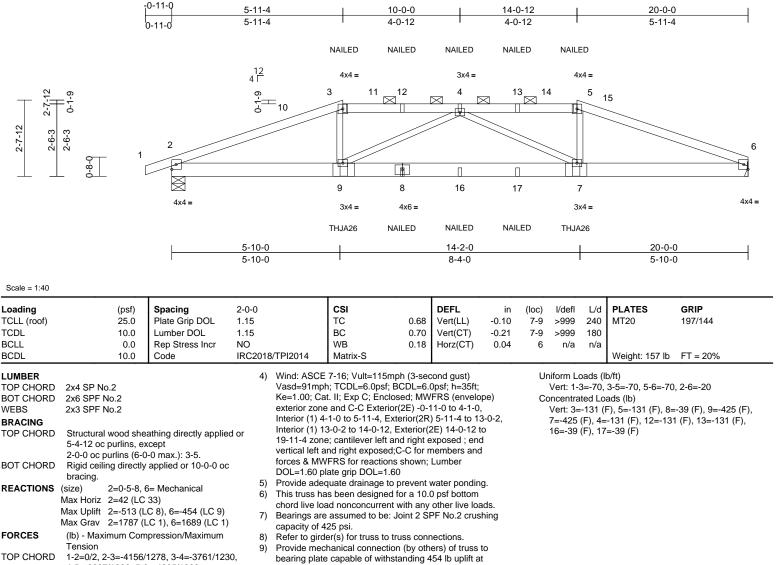
September 27,2024

SIONAL

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	H1	Hip Girder	1	2	Job Reference (optional)	168479958

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:45 ID:AzIpT5WBxvlisrVjqL4vmXzWRWC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-5=-3827/1266, 5-6=-4205/1308 BOT CHORD 2-9=-1112/3805, 7-9=-1471/4467, 6-7=-1147/3870 WEBS 3-9=-179/1044, 5-7=-152/1016. 4-9=-898/425, 4-7=-839/392

NOTES

 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 OC. Bottom chords connected as follows: 2x6 - 2 rows

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

- 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), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- joint 6 and 513 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 14-0-6 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

15) N/A

16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

OFF

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PE-2001018807

September 27,2024

SIONAL

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	H2	Hip Girder	1	1	Job Reference (optional)	168479959

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:45 Page: 1 ID:11996M?pteYLQOAReI70hzzBdMY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-10-8 21-6-8 5-11-4 10-4-0 14-8-12 20-8-0 5-11-4 4-4-12 4-4-12 5-11-4 0-10-8 <u>ს</u>-10-NAILED NAILED NAILED NAILED NAILED NAILED 12 4 Г 6x6 = 1.5x4 u 6x6 = 3 15416 1718 5 <u>ဂ</u>ု 1314 ⊠  $\bowtie$  $\bowtie$ 12 19 6 0-8-0 ┡╎┌ Π Π Г Ø 11 20 10 21922 23 8 5x8 🥃 5x8 🕿 3x6 II 7x8 = 4x8 = 3x6 II NAILED NAILED THJA26 NAILED THJA26 NAILED 5-10-0 10-4-0 14-10-0 20-8-0 5-10-0 4-6-0 4-6-0 5-10-0

- - Uniform Loads (lb/ft) Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20
  - Concentrated Loads (lb)
  - Vert: 3=-131 (F), 5=-131 (F), 11=-420 (F), 8=-420 (F), 14=-131 (F), 15=-131 (F), 16=-131 (F), 17=-131 (F), 20=-39 (F), 21=-39 (F), 22=-39 (F), 23=-39 (F)



September 27,2024



Scale = 1:42.2

2-7-12

2-6-3 2-6-3

# Plate Offsets (X, Y): [2:0-0-13,0-1-8], [6:0-0-13,0-1-8]

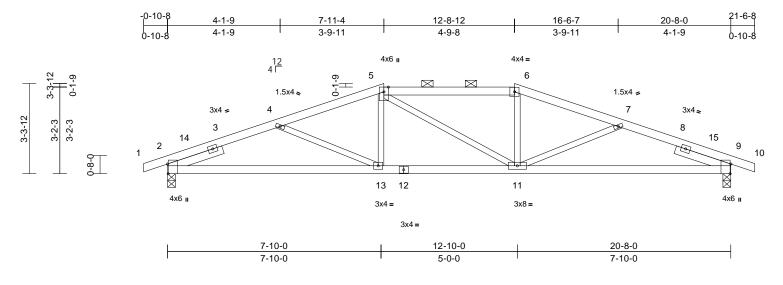
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.92 0.88 0.41	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.41 0.07	(loc) 9 9 6	l/defl >999 >595 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 95 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP 1650F 1.5E 2x8 SPF No.2 2x3 SPF No.2 Structural wood she 2-9-12 oc purlins, ex 2-0-0 oc purlins (2-3			capacity of 4 Provide mec bearing plate joint 2 and 53 This truss is International R802.10.2 and	hanical connectio capable of withsi 38 lb uplift at joint designed in accor Residential Code nd referenced star	n (by oth tanding 5 6. rdance w sections ndard AN	ers) of truss t 38 lb uplift at ith the 2018 R502.11.1 a ISI/TPI 1.	ind					
l	Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=-42 (LC Max Uplift 2=-538 (L Max Grav 2=1879 (L (lb) - Maximum Com	G=0-3-8 13) C 8), 6=-538 (LC 9) .C 1), 6=1879 (LC 1)	8) 9) 10	or the orienta bottom chorc Use Simpsor Hand Hip) or connect truss	rlin representation ation of the purlin strong-Tie THJ/ equivalent at 5-1 s(es) to front face n Strong-Tie THJ/ dip) or equivalent	along the A26 (THJ 1-10 fron of bottor A26 (THJ	top and/or A26 on 1 ply n the left end n chord. A26 on 1 ply,	Left to					
TOP CHORD BOT CHORD	Tension 1-2=0/6, 2-3=-4521/ 4-5=-5121/1653, 5-6 2-11=-1240/4173, 9- 8-9=-1249/4143, 6-8	1411, 3-4=-5121/165; =-4521/1425, 6-7=0/( 11=-1236/4143, =-1253/4173	5		uss(es) to front fa								
this design. 2) Wind: ASC	3-11=-71/606, 5-8=- 5-9=-341/1189, 4-9= d roof live loads have	74/606, 3-9=-340/118 -871/450 been considered for (3-second gust)	13	<ul> <li>per NDS guid</li> <li>In the LOAD</li> <li>of the truss a</li> <li>DAD CASE(S)</li> </ul>	CASE(S) section ire noted as front Standard of Live (balanced)	, loads a (F) or ba	oplied to the t ck (B).	face			Å	STATE OF I	MISSOLUS

- 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 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 14-8-12, Exterior(2E) 14-8-12 to 21-6-8 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
- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	НЗ	Нір	1	1	Job Reference (optional)	168479960

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:HrIGGhx6kIFQ9EZEfP?4JCzBdLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.3

Plate Offsets	(X )	<i>/</i> \·	2.0-4-5	Edgel	[9:0-4-5,Edge]
FIBLE OIISELS	(^,	1).	2.0-4-0	, Luyel,	19.0-4-5, Euger

Plate Offsets (X, Y): [2:0	-4-5,⊏ugej, [s	9.0-4-5,Eugej	_									-	
Loading TCLL (roof) TCDL BCLL BCDL	25.0 F 10.0 L 0.0 F	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	<b>CSI</b> TC BC WB Matrix-S	0.44 0.66 0.12	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.25 0.06	(loc) 2-13 2-13 9	l/defl >999 >978 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 87 lb	<b>GRIP</b> 197/144 FT = 20%
2-1-7 BRACING TOP CHORD Structura 3-8-11 on 2-0-0 oc BOT CHORD Rigid cei bracing. REACTIONS (size) Max Horiz Max Horiz Max Uplift Max Grav FORCES (lb) - Max Tension TOP CHORD 1-2=-5/0, 5-6=-158 7-9=-189 BOT CHORD 2-13=-59 9-11=-60 WEBS 5-13=0/2	Io.2 No.2 SP No.2 2-1 al wood sheath c purlins, exce purlins (4-1-7 ling directly ap 2=0-3-8, 9=1 : 2=54 (LC 12 2=-220 (LC 2=-991 (LC 1 2=-991 (LC 1 2=-10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	7 max.): 5-6. pplied or 7-5-12 oc :0-3-8 2) 8), 9=-220 (LC 9) 1), 9=991 (LC 1) ression/Maximum 89, 4-5=-1690/576, 1691/599, -5/0 3=-431/1580, 2/153, 6-11=0/245, -147/173 een considered for 3-second gust) L=6.0psf; h=35ft; ; MWFRS (envelop) ) -0-10-8 to 3-11-3, ior(2E) 7-11-4 to 9-9-10, Interior (1) left and right t exposed;C-C for r reactions shown;	6) d or 7) 8) LC	This truss ha chord live loa All bearings a capacity of 56 Provide mech bearing plate joint 2 and 22 This truss is c International R802.10.2 ar Graphical put	nanical connection capable of withsta 0 lb uplift at joint 9 designed in accord Residential Code s d referenced stand fin representation tion of the purlin al	or a 10.0 vith any SP No. (by oth anding 2 ance w sections dard AN does no	<ul> <li>psf bottom other live loa</li> <li>crushing</li> <li>ers) of truss t</li> <li>20 lb uplift at</li> <li>th the 2018</li> <li>R502.11.1 a</li> <li>ISI/TPI 1.</li> <li>th depict the s</li> </ul>	ds. o				PE-2001 Septembe	DISSOT

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)

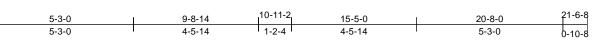


Page: 1

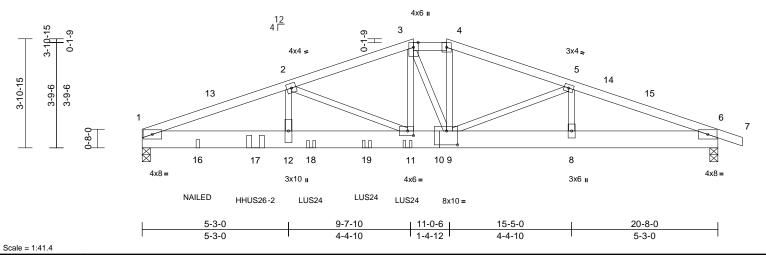
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	H4	Hip Girder	1	2	Job Reference (optional)	168479961

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:91pJOUCQl3LYjBGryx5FKIzWQKQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4x4 =



# Plate Offsets (X, Y): [10:0-4-12,0-6-0], [11:0-2-8,0-2-0]

		3,1 , 1				-							
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.50	Vert(LL)	-0.10	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.91	Vert(CT)	-0.17	11-12	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.37	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-						Weight: 200 lb	FT = 20%
LUMBER			3	) Unbalanced	roof live loads ha	ave been	considered fo	or	U	niform L	oads (I	b/ft)	
TOP CHORD	2x4 SP No.2			this design.						Vert: 1-	3=-70,	3-4=-70, 4-7=-70	, 1-6=-20
BOT CHORD	2x8 SPF No.2		4		7-16; Vult=115m				C	oncentra	ated Lo	ads (lb)	
WEBS	2x3 SPF No.2				h; TCDL=6.0psf;					Vert: 11	=-228	(B), 16=-150 (B),	17=-1669 (B),
BRACING					t. II; Exp C; Enclo			pe)		18=-228	8 (B), 1	9=-228 (B)	
TOP CHORD	Structural wood she	athing directly applie	ed or		and C-C Exterio	· · ·	,						
	4-6-13 oc purlins, ex	cept			-3-0 to 9-8-14, Ex								
	2-0-0 oc purlins (6-0	-0 max.): 3-4.			erior(2R) 10-11-2 -6-8 zone; cantile			and .					
BOT CHORD		applied or 10-0-0 or	<b>b</b>		left and right expo		0 1	,					
	bracing.				FRS for reaction			anu					
REACTIONS	( )				late grip DOL=1.6		Lumber						
	Max Horiz 1=-67 (LC		5		quate drainage to		water pondin	a					
	Max Uplift 1=-678 (L		6		as been designed			9.					
	Max Grav 1=2823 (L	_C 1), 6=1586 (LC 1	)		ad nonconcurrent			ids.					
FORCES	(lb) - Maximum Com	pression/Maximum	7		are assumed to b								
	Tension			capacity of 4	25 psi.		0						
TOP CHORD			8		hanical connection								
	3-4=-3098/973, 4-5=				e capable of with		678 lb uplift a	t					
DOTOUODD	5-6=-3518/1030, 6-7				71 lb uplift at join								
BOT CHORD			9		designed in acco								
	9-11=-828/3270, 8-9 6-8=-905/3224	<i>i=-905/3224</i> ,			Residential Cod			and					
WEBS	3-11=-346/1336, 3-9	629/194	1		nd referenced sta								
WEDO	4-9=-225/815, 2-11=		1		Irlin representation ation of the purlin			size					TO
	5-9=-245/280, 2-12=		/106	bottom chore		along th	e top and/or					S OF M	Alexan
NOTES	2 5 2.0.200, 2 12-				n Strong-Tie HHL	1526-2 (1	4-10d Girder					A SE	10.0 M
	s to be connected toge	ther with 10d	i		) or equivalent at						E	TATE OF M	New
	3") nails as follows:				s(es) to back face						H	S/ BCOIL	
	ds connected as follows	s: 2x4 - 1 row at 0-9-	0 1		n Strong-Tie LUS			)d			R	/ SEVI	ER \ Y
OC.			-		uivalent spaced a							1 - La	
	Bottom chords connected as follows: 2x8 - 2 rows				the left end to 9-6	6-5 to cor	nect truss(es	) to				hTT2	San AL
	staggered at 0-5-0 oc.				bottom chord.					NUMBER AT			
Web con	Web connected as follows: 2x3 - 1 row at 0-9-0 oc.				oles where hange						27		
2) All loads	are considered equally	applied to all plies,	1	14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails							118807 20		

 All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

September 27,2024

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per NDS guidelines.

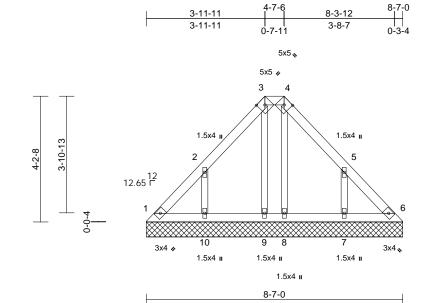
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	HG1	Lay-In Gable	1	1	Job Reference (optional)	168479962

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:Zrbnu0\_B6KQUoFbF51cn9lzBdMZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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Scale = 1:38.5

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

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		TC BC	0.07 0.03	Vert(LL) Vert(TL)	n/a		n/a n/a	999 999	MT20	244/190
BCLL		0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	n/a 0.00	6	n/a	999 n/a		
BCDL		10.0	Code		8/TPI2014	Matrix-P	0.00	110112(112)	0.00	Ŭ	n/a	n/a	Weight: 38 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.3 Structural wc 6-0-0 oc purl 2-0-0 oc purl Bracing. (size) 1= Max Horiz 1= Max Horiz 1= 12 Max Grav 1= (L0	2 bod shea ins, exc directly 8-7-0, 6 8-7-0, 9 110 (LC -32 (LC C 13), 9 ) 98 (LC : C 20), 8	athing directly applie ept 0 max.): 3-4. applied or 10-0-0 oc =8-7-0, 7=8-7-0, =8-7-0, 10=8-7-0	3 ed or 5 6 7 2 8 9 9 9 9 9 9 9 9 8 (LC 1 7 2232	<ul> <li>Truss design only. For stu see Standar, or consult qu</li> <li>Provide adee</li> <li>Gable requin</li> <li>Gable studs</li> <li>This truss ha chord live loa</li> <li>All bearings capacity of 5</li> <li>Provide mec bearing plate</li> <li>1, 10 lb uplift uplift at joint</li> <li>This truss is International R802.10.2 a</li> </ul>	hed for wind loads uds exposed to w d Industry Gable alified building d quate drainage to es continuous bo spaced at 0-0-0 as been designed ad nonconcurrent are assumed to b	ind (norm End Deta ssigner a prevent ttom choroc. for a 10. with any be SP No on (by oth standing 3 uplift at j ft at joint rdance w e sections undard AN	al to the face ils as applica s per ANSI/TI water ponding d bearing. 0 psf bottom other live loa 2 crushing ers) of truss t 32 lb uplift at j oint 10, 14 lb 7. ith the 2018 s R502.11.1 a JSI/TPI 1.	), ble, PI 1. g. dds. dos. oint					
FORCES			pression/Maximum		or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard									
TOP CHORD	4-5=-105/86,	5-6=-96		L	UAD UASE(S)	Glanuaru								(The
BOT CHORD	7-8=-58/90, 6	6-7=-57/	58/90, 8-9=-58/90, 90 -71/29, 4-8=-62/8,										TATE OF	MISSO
	5-7=-233/183		, ,,20, 4 0= 02/0,									E	1221	N N
this design 2) Wind: ASC Vasd=91n Ke=1.00; ( exterior zc and right e exposed;C	n. CE 7-16; Vult=1 nph; TCDL=6.0 Cat. II; Exp C; E one and C-C Ex exposed ; end v C-C for member shown; Lumber	15mph psf; BCI Enclosed tterior(21 vertical le rs and fo	orces & MWFRS for	oe) eft							1		SEV SEV NOM PE-2001 September	IER BER 018807



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J1	Jack-Open	11	1	Job Reference (optional)	168479963

5-11-4

5-11-4

12 4 Г

-0-10-8

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. Wed Sep 25 12:34:46 ID:9RizLT5sxS0XndvBrCTxOMzWRWk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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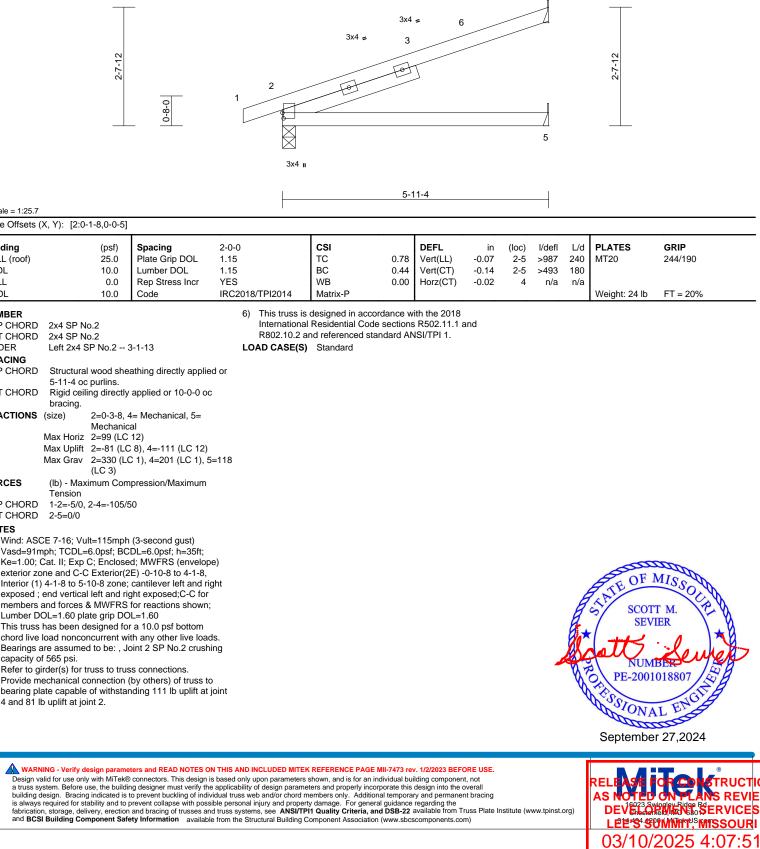


Plate Offsets (X, Y): [2:0-1-8,0-0-5]

BCDL		10.0	Code	IRC2018/TPI2014	Ma
LUMBER TOP CHORD BOT CHORD	2x4 SP N	0.2		6) This truss Internation R802.10.2	hal Res 2 and re
SLIDER	Left 2x4 S	SP No.2 3	3-1-13	LOAD CASE(	<b>S)</b> St
BRACING					
TOP CHORD	Structura 5-11-4 oc		athing directly	applied or	
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-	0-0 oc	
REACTIONS	(size)	2=0-3-8, 4 Mechanic	I= Mechanical, al	5=	
	Max Horiz	2=99 (LC	12)		
	Max Uplift	2=-81 (LC	8), 4=-111 (L0	C 12)	
	Max Grav	2=330 (LC	C 1), 4=201 (LC	C 1), 5=118	

#### FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-5/0, 2-4=-105/50 BOT CHORD 2-5=0/0

#### NOTES

Scale = 1:25.7

Loading

TCDL

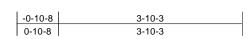
BCLL

TCLL (roof)

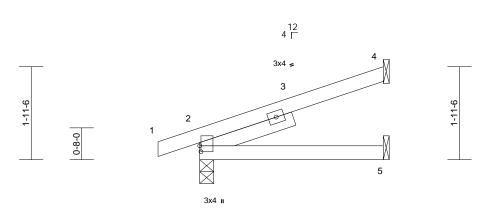
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C 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 2)
- 3) 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 111 lb uplift at joint 4 and 81 lb uplift at joint 2.

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J2	Jack-Open	6	1	Job Reference (optional)	168479964

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:LHLh4Q15McGO3iR1UyMX85zWRWq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







3-10-3

Scale	= 1:24	.2	

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

				_								
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-5	>999	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: 16 lb	FT = 20%
LUMBER			6) This truss is	s designed in acco	ordance w	ith the 2018						
TOP CHORE	2x4 SP No.2		Internationa	al Residential Cod	le sections	s R502.11.1 a	and					
BOT CHORE	D 2x4 SP No.2		R802.10.2	and referenced sta	andard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2 2	2-0-10	LOAD CASE(S	) Standard								
BRACING												
TOP CHORE	D Structural wood she	athing directly appli	ed or									
	3-10-3 oc purlins.											
BOT CHORE	0 0 7	applied or 10-0-0 o	С									
	bracing.											
REACTIONS		4= Mechanical, 5=										
	Mechanic											
	Max Horiz 2=68 (LC	,										
	Max Uplift 2=-67 (LC	, · · · · · · · · · · · · · · · · · · ·										
	Max Grav 2=239 (L0	5 1), 4=125 (LC 1),	5=76									
500050	(LC 3)											
FORCES	(lb) - Maximum Corr Tension	pression/Maximum										
TOP CHORE	0 1-2=-5/0, 2-4=-76/3	1										
BOT CHORE	0 2-5=0/0											
NOTES												
	SCE 7-16; Vult=115mph	(3-second gust)										
Vasd=91	Imph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00;	; Cat. II; Exp C; Enclose	d; MWFRS (envelo	pe)									and a
	zone and C-C Exterior(2		left								TATE OF	MIG
	t exposed ; end vertical										AREUT	ISS A
	;C-C for members and f		r							A		N.S
	s shown; Lumber DOL=	1.60 plate grip								A	SCOT	TM. CN
DOL=1.6		a 10.0 pol hott								a	Z SEV	IER \ X
	s has been designed fo e load nonconcurrent wi		de							12 *	T T	\★₩
										Ø	1 st	. 0 1-4
J Deanings	Bearings are assumed to be: , Joint 2 SP No.2 crushing											An Illa

- 3 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 73 lb uplift at joint 4 and 67 lb uplift at joint 2.

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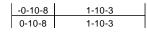
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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 - HM Lot 159	
P250153-01	J3	Jack-Open	6	1	Job Reference (optional)	168479965

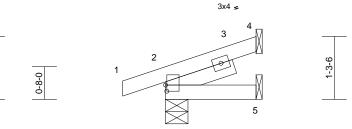
1-3-6

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:LHLh4Q15McGO3iR1UyMX85zWRWq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1









3x4 🛛

1-10-3

Scale = 1:23.5

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

	(,, , ,). [2.0 + 0,0 0 0]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.06 0.04 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a		<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 Structural wood she 1-10-3 oc purlins. Rigid ceiling directly	athing directly applie	Internationa R802.10.2 a LOAD CASE(S	s designed in acco al Residential Cod and referenced sta ) Standard	e sections	s R502.11.1 a	Ind					
REACTIONS	bracing.											
	Max Horiz 2=40 (LC Max Uplift 2=-57 (LC Max Grav 2=158 (LC (LC 3)	12) 2 8), 4=-35 (LC 12)	=37									
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=-5/0, 2-4=-43/16 2-5=0/0											
NOTES												
Vasd=91n Ke=1.00; exterior zc and right e exposed;0	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical c-C for members and f shown; Lumber DOL= )	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever left and right orces & MWFRS for	left								STATE OF	TM. YEY
<ul> <li>chord live</li> <li>Bearings a capacity o</li> <li>Refer to g</li> </ul>	irder(s) for truss to tru	th any other live loa oint 2 SP No.2 crush ss connections.	ning						C •	ß		Bernes
	echanical connection ate capable of withstar									Ø	O PE-2001	101000 / 10 A

2 and 35 lb uplift at joint 4.

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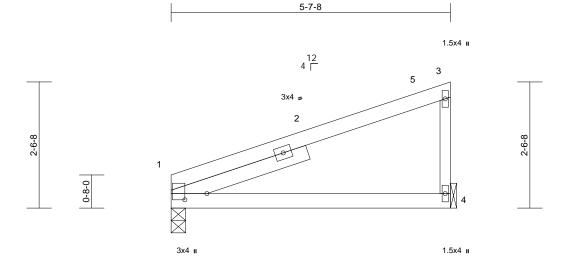
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J4	Jack-Closed	3	1	Job Reference (optional)	168479966

# Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:v0F888O3WtPtKyDp5Xbz8dzZls3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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	0.74	Vert(LL)	-0.06	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.11	1-4	>594	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: 23 lb	FT = 20%

5-7-8

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 2-10-8
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 1=0-3-8, 4= Mechanical
	Max Horiz 1=105 (LC 9)
	Max Uplift 1=-45 (LC 8), 4=-64 (LC 12)
	Max Grav 1=248 (LC 1), 4=248 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-3=-135/83, 3-4=-193/263
BOT CHORD	1-4=-45/49
NOTES	

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 5-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: Joint 1 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 5) bearing plate capable of withstanding 45 lb uplift at joint 1 and 64 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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 - HM Lot 159	
P250153-01	J5	Jack-Open	2	1	Job Reference (optional)	168479967

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID: v0F888O3WtPtKyDp5Xbz8dzZls3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

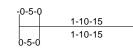
Page: 1



September 27,2024

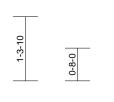
DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/10/2025 4:07:52

UCTION **IEW** 





1-10-15



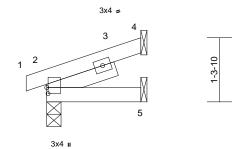


Plate Offsets (X, Y): [2:0-1-8,0-0-5]

	1). [2.0 1 0,0 0 0]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	<b>CSI</b> TC BC WB Matrix-P	0.07 0.04 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 9 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2 BOT CHORD 2 SLIDER L BRACING TOP CHORD 5 BOT CHORD 6 REACTIONS (si	2x4 SP No.2 2x4 SP No.2 eff 2x4 SP No.2 1 Structural wood she I-10-15 oc purlins. Rigid ceiling directly pracing. ize) 2=0-3-8, 4 Mechanic ax Horiz 2=35 (LC ax Uplift 2=-29 (LC	1-5-8 athing directly applie applied or 10-0-0 or 4= Mechanical, 5= al 12)	6) This truss Internatior R802.10.2 LOAD CASE( ed or	is designed in accornal Residential Cod	le sections	R502.11.1 a	and					
TOP CHORD 1 BOT CHORD 2 NOTES 1) Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior zone and right exp exposed;C-C reactions sho DOL=1.60 2) This truss has chord live loa 3) Bearings are capacity of 56 4) Refer to girdd 5) Provide mect	<ul> <li>Ib) - Maximum Com Tension</li> <li>I-2=-14/0, 2-4=-51/1</li> <li>I-2=50/0</li> <li>7-16; Vult=115mph n; TCDL=6.0psf; BC t. II; Exp C; Enclose and C-C Exterior(2 osed; end vertical I for members and fi own; Lumber DOL=7</li> <li>s been designed for d nonconcurrent wi assumed to be: , Jo 65 psi.</li> <li>er(s) for truss to tru- nanical connection ( capable of withstar</li> </ul>	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live loa pint 2 SP No.2 crush	eft ds. ing o							R	STATE OF SCOT SEV DE 2001 PE-2001	T M. IER



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J6	Jack-Open	3	1	Job Reference (optional)	168479968

3-11-4 3-11-4

12 4 Г

3x4 ≠ 3

0-5-0

b-5-0

2

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

1-11-12

0-8-0

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries. Inc. Wed Sep 25 12:34:46 ID:58PIRvWyxFoJ8fZwELHY5xzZIru-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5

1-11-12



3x4 ı 3-11-4 Plate Offsets (X, Y): [2:0-1-8,0-0-5] 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard or =77

OF MISS P SCOTT M. SEVIER PE-2001018807 SIONAL E September 27,2024

 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)

	2.0-1-0,0-0-5]											
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-5	>999	180		
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: 16 lb	FT = 20%

LUMBER									
TOP CHORD	2x4 SP N	0.2							
BOT CHORD	2x4 SP N	0.2							
SLIDER	Left 2x4 S	SP No.2 2-1-3							
BRACING									
TOP CHORD	Structural wood sheathing directly applied								
	3-11-4 oc	purlins.							
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc							
	bracing.								
REACTIONS	(size)	2=0-3-8, 4= Mechanical, 5=							
		Mechanical							
	Max Horiz	2=64 (LC 12)							
	Max Uplift	2=-43 (LC 8), 4=-76 (LC 12)							
	Max Grav	2=205 (LC 1), 4=134 (LC 1), 5=							
		(LC 3)							
FORCES	(lb) - Max	imum Compression/Maximum							
	Tension								
TOP CHORD	1-2=-14/0	, 2-4=-79/33							
BOT CHORD	2-5=0/0								
NOTES									

Scale = 1:24.2

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) 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 76 lb uplift at joint 4 and 43 lb uplift at joint 2.



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J7	Jack-Open	10	1	Job Reference (optional)	168479969

5-2-4

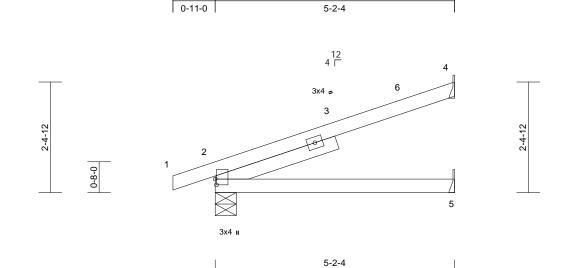
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:46 ID:26Cqk1RxPA4f\_2Jnuv\_layzDuSQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



- 0



Scale = 1:25	
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Plate Offsets (X, Y): [2:0-1-8,0-0-5]

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.04	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.08	2-5	>743	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		<b>FT</b> 000/
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%
LUMBER			<ol><li>This trus</li></ol>	s is designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SP No.2		Internati	onal Residential Cod	e sections	R502.11.1	and					
BOT CHORD	2x4 SP No.2		R802.10	.2 and referenced sta	andard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2 2	2-9-1	LOAD CASE	(S) Standard								
BRACING												
TOP CHORD		athing directly appli	ed or									
BOT CHORD	5-2-4 oc purlins.	opplied or 10.0.0 o	•									
BOICHORD	OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.											
REACTIONS	0	4= Mechanical, 5=										
	Mechanic	,										
	Max Horiz 2=88 (LC	12)										
	Max Uplift 2=-78 (LC	28), 4=-97 (LC 12)										
	Max Grav 2=301 (L0	C 1), 4=174 (LC 1),	5=102									
	(LC 3)											
FORCES	(lb) - Maximum Corr Tension	pression/Maximum										
TOP CHORD		3										
BOT CHORD	,											
NOTES												
	CE 7-16; Vult=115mph	(3-second aust)										
	nph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose		pe)									The second second
	one and C-C Exterior(2										STATE OF I	ALC AL
	) 4-1-0 to 5-1-8 zone; o										A E OF	MISS W
	end vertical left and right						A	A. P.	N.S.			
	and forces & MWFRS		ı;							A	SCOT	TM. PN
Lumber D	OL=1.60 plate grip DC	0 plate grip DOL=1.60									1 ODV	

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 97 lb uplift at joint 4 and 78 lb uplift at joint 2.



September 27,2024

DEVELOPMENT: SERVICES LEE'S'SUMMIT: MISSOURI 03/10/2025 4:07:52

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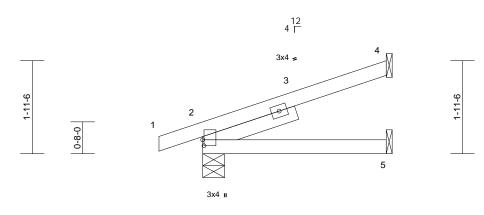


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J8	Jack-Open	1	1	Job Reference (optional)	168479970

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







3-10-3

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

		-		-								
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-5	>999	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: 16 lb	FT = 20%
LUMBER				s designed in acc								
TOP CHORD	2x4 SP No.2			al Residential Co			and					
BOT CHORD	2x4 SP No.2			and referenced s	standard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2	2-0-10	LOAD CASE(S	<ol> <li>Standard</li> </ol>								
BRACING												
TOP CHORD	Structural wood she	eathing directly applie	ed or									
	3-10-3 oc purlins.											
BOT CHORD	Rigid ceiling directly	y applied or 10-0-0 or	2									
	bracing.											
REACTIONS	(size) 2=0-5-8,	4= Mechanical, 5=										
	Mechani	cal										
	Max Horiz 2=69 (LC	2 12)										
	Max Uplift 2=-69 (L	C 8), 4=-72 (LC 12)										
	Max Grav 2=242 (L	C 1), 4=125 (LC 1), 5	5=76									

	Max Grav	2=242 (LC 1), 4=125 (LC 1), 5 (LC 3)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=-4/0,	2-4=-75/31
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 and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 72 lb uplift at joint 4 and 69 lb uplift at joint 2.



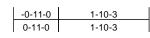




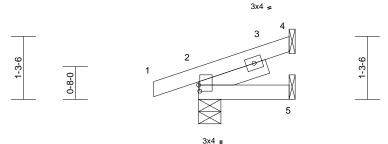
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J9	Jack-Open	1	1	Job Reference (optional)	168479971

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







1-10-3

Scale = 1:23.5 Plate Offsets (X, Y): [2:0-1-8,0-0-5]

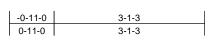
Plate Offsets (	X, Y): [2:0-1-8,0-0-5]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.06 0.04 0.00	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	11012(01)	0.00		n/a	n/u	Weight: 9 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 1 Structural wood she 1-10-3 oc purlins. Rigid ceiling directly bracing.	I-5-8 athing directly applie applied or 10-0-0 or I= Mechanical, 5= al 12) : 8), 4=-35 (LC 12)	6) This truss is Internationa R802.10.2 a LOAD CASE(S) ed or	designed in accord Residential Code s and referenced stanc	ections	R502.11.1 a	and					
FORCES TOP CHORD BOT CHORD	(LC 3) (Ib) - Maximum Com Tension 1-2=-4/0, 2-4=-43/16 2-5=0/0											
NOTES 1) Wind: ASC Vasd=91rr Ke=1.00; C exterior zo 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	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and for shown; Lumber DOL= has been designed for load nonconcurrent wi are assumed to be: , Jo	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l eft and right prces & MWFRS for 1.60 plate grip a 10.0 psf bottom th any other live loa bint 2 SP No.2 crush ss connections. by others) of truss t	left ds. ling								STATE OF SCOT SEV OF PE-2001	T M. IER BER 018807

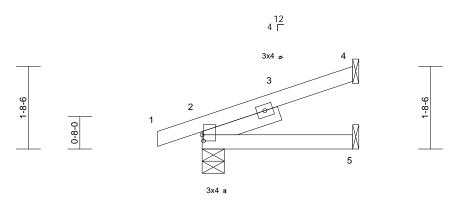
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J10	Jack-Open	4	1	Job Reference (optional)	168479972

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:LS7TCQWKmKyfK7L7otcxMQzDuSJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





3-1-3

Scale = 1:23.7	

Plate Offsets	(X,	Y):	[2:0-1-8,0-0-5]
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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	TC	0.19	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	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: 14 lb	FT = 20%
LUMBER			6) This trus	s is designed in acc	cordance w	ith the 2018						
TOP CHORD	2x4 SP No.2			nal Residential Co			and					
BOT CHORD			R802.10.	2 and referenced s	tandard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2	1-7-14	LOAD CASE	(S) Standard								
BRACING				( )								
OP CHORD	Structural wood sh	eathing directly appli	ied or									
	3-1-3 oc purlins.	5										
BOT CHORD	Rigid ceiling direct	y applied or 10-0-0 c	)C									
	bracing.											
REACTIONS		4= Mechanical, 5=										
	Mechan											
	Max Horiz 2=58 (LC	,										
	Max Uplift 2=-65 (L	<i>// ( / /</i>										
	Max Grav 2=210 (I	_C 1), 4=97 (LC 1), 5	5=61									
	(LC 3)											
ORCES	(ID) - Maximum Co Tension	mpression/Maximum	1									
FOP CHORD	1-2=-4/0, 2-4=-60/2	25										
BOT CHORD	2-5=0/0											
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mp	h (3-second gust)										
Vasd=91n	nph; TCDL=6.0psf; B	CDL=6.0psf; h=35ft;										
	Cat. II; Exp C; Enclos											Th
	one and C-C Exterior		left								OFI	MIG
	exposed ; end vertica										TE OF I	NIS'S
	C-C for members and		r							A	AN SCOT	
reactions :	shown; Lumber DOL:	=1.60 plate grip								H	N/ COT	THE YEAR

reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 2)

- chord live load nonconcurrent with any other live loads.
- 3) 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 58 lb uplift at joint 4 and 65 lb uplift at joint 2.



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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J11	Jack-Open	1	1	Job Reference (optional)	168479973

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

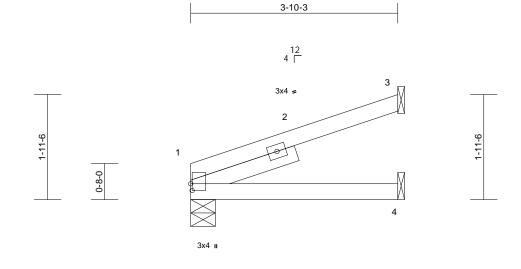


. 49

September 27,2024

DEVELORMENT: SERVICES LEE'S'SUMMIT'SMISSOURI 03/10/2025 4:07:52

RUCTION



3-10-3

Scale =	: 1:21.4	

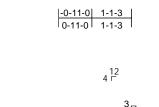
Plate Offsets (X, Y): [1:0-1-8,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.36	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	1-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%
LUMBER			<ol><li>This truss is</li></ol>	designed in accor	dance w	ith the 2018						
TOP CHORD	2x4 SP No.2			I Residential Code			ind					
BOT CHORD	2x4 SP No.2		R802.10.2 a	and referenced star	ndard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2	2-0-10	LOAD CASE(S	Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	3-10-3 oc purlins.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
	bracing.											
REACTIONS	· · · ·	3= Mechanical, 4=										
	Mechanic Max Horiz 1=71 (LC											
	Max Uplift 1=-22 (LC											
	Max Grav 1=170 (L		4=76									
	(LC 3)	0 1), 0 100 (20 1),										
FORCES	(lb) - Maximum Con	npression/Maximum										
	Tension											
TOP CHORD	1-3=-78/33											
BOT CHORD	1-4=0/0											
NOTES	CE 7-16; Vult=115mph	(2 cocord suct)										
	nph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose		ne)									
	one and C-C Exterior(2										an	and the
	exposed ; end vertical										TE OF	MISSO
	C-C for members and f		r							4	T. A.	NO
	shown; Lumber DOL=	1.60 plate grip								A	SCOT	TM.
DOL=1.60										U	SEV	
	has been designed for load nonconcurrent w		de							Ø 🖌		1+1
	are assumed to be: , J									ND	-	
capacity o											A TU	Jonles 7
4) Refer to g	irder(s) for truss to tru								-	Ny 7	NUM	
5) Provide m	echanical connection	(by others) of truss								N.	PE-2001	018807
	ate capable of withsta	nding 22 lb uplift at j	oint							Y	A Po	154
1 and 75 l	b uplift at joint 3.										SIONA	TENS
											C'SSIONA	

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

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J12	Jack-Open	4	1	Job Reference (optional)	168479974

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:WZIdVAfDAiL59phFyhJWJIzDuS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1-0-6

0-8-0



≈ 3x4 =

1	-1-	-3
0-10-1		

6x6 🚅

0-10-1

Scale = 1:31.9

# Plate Offsets (X, Y): [5:0-2-11,0-3-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	CSI TC BC WB 4 Matrix-P	0.09 0.01 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	0.00	c) l/defl 5 >999 5 >999 3 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m Ke=1.00; C vasd=91m Ke=1.00;	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she 1-1-3 oc purlins, exx Rigid ceiling directly bracing. (size) 3= Mecha 5=0-5-8 Max Horiz 5=26 (LC Max Uplift 3=-9 (LC 8) Max Grav 3=14 (LC (LC 1) (lb) - Maximum Com Tension 2-5=-149/176, 1-2=0 4-5=-59/10 2-4=-11/65 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and for shown; Lumber DOL=1 has been designed for load nonconcurrent wi are assumed to be: . Jo	t* 4-2:2x3 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc nical, 4= Mechanical 11) 1), 4=-7 (LC 8), 5=-7 8), 4=19 (LC 3), 5=1: pression/Maximum //24, 2-3=-24/9 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) zone; cantilever le eft and right proces & MWFRS for 1.60 plate grip	6) This tru Interna R802.1 LOAD CAS d or 5 (LC 59 e) eft	4 Matrix-P iss is designed in ac tional Residential Cc 0.2 and referenced s <b>E(S)</b> Standard	ode sections	R502.11.1 and	3			Weight: 6 lb	MISSOLUE T.M. HER.
5) Provide me bearing pla	rider(s) for truss to tru- irder(s) for truss to tru- echanical connection ( ate capable of withstar ft at joint 4 and 9 lb up	by others) of truss to ding 75 lb uplift at jo							<i>W</i>	September	IL ENGLISH

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)

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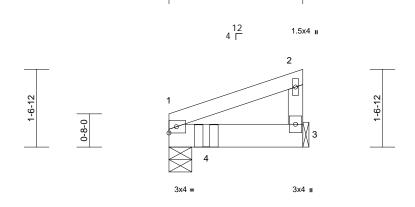
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J13	Jack-Closed Girder	1	1	Job Reference (optional)	168479975

2-8-4

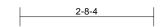
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:IF2X84tDX90jfxwFsa?tDgzDusz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



HUS26



Scale = 1:23.1

00010 = 1.20.1													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-P	0.50 0.32 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 1-3 1-3 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 12 lb	<b>GRIP</b> 244/190 FT = 20%
FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP 2400F 2.0E 2x4 SP No.2 Structural wood she 2-8-4 oc purlins, ex Rigid ceiling directly bracing. (size) 1=0-5-8, 3 Max Horiz 1=54 (LC Max Uplift 1=-210 (L Max Grav 1=1068 (I (Ib) - Maximum Com Tension 1-2=-80/48, 2-3=-81 1-3=-23/25	cept end verticals. applied or 10-0-0 o 3= Mechanical 9) _C 8), 3=-85 (LC 12) _C 1), 3=384 (LC 1) .pression/Maximum	8) ed or 9)	Truss, Singl left end to c chord. ) Fill all nail h ) In the LOAE of the truss OAD CASE(S) ) Dead + Rc Plate Ince Uniform Lc Vert: 1-2 Concentra	of Live (balanced ase=1.15	quivalent o back fac er is in cor n, loads a t (F) or ba	at 0-9-0 from ce of bottom ntact with lum pplied to the ck (B).	n the nber. face					
Vasd=91nr Ke=1.00; ( exterior zo and right e exposed;C reactions s DOL=1.60 2) This truss chord live 3) Bearings a crushing c 4) Refer to gi	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL= has been designed fo load nonconcurrent wi are assumed to be: Joi apacity of 805 psi. irder(s) for truss to tru echanical connection	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live loa int 1 SP 2400F 2.0E ss connections.	ds.									STATE OF J	MISSOUR T M. HER

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 1 and 85 lb uplift at joint 3.
   This truss is designed in accordance with the 2018
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



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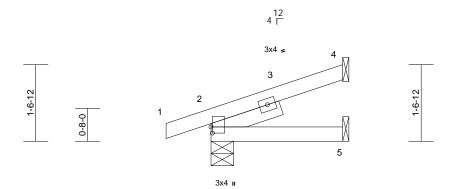
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J14	Jack-Open	1	1	Job Reference (optional)	168479976

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:Evhj8a672?P1RstvU4rKUgzDusg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

 -0-11-0
 2-8-4

 0-11-0
 2-8-4



2-8-4

Scale = 1:23.5			
Plate Offsets (X, Y): [2:0-1-8,0-0-5]			

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	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	CDL 10.0 Code IRC2018/TPI2014 Matrix-P										Weight: 12 lb	FT = 20%
LUMBER				designed in accord								
TOP CHORE	D 2x4 SP No.2			I Residential Code s			and					
BOT CHORE			R802.10.2 a	and referenced stand	dard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2 7	1-5-12	LOAD CASE(S	Standard								
BRACING												
TOP CHORE		athing directly applie	ed or									
	2-8-4 oc purlins.											
BOT CHORE	<ul> <li>Rigid ceiling directly bracing.</li> </ul>	applied or 10-0-0 or	0									
REACTIONS		1= Mechanical, 5=										
REAGINGING	Mechanic											
	Max Horiz 2=52 (LC											
	Max Uplift 2=-63 (LC	,										
	Max Grav 2=193 (L0		=52									
	(LC 3)	,, , , , , , , , , , , , , , , , , , , ,										
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORE	Tension D 1-2=-4/0, 2-4=-54/22	, ,										
BOT CHORE	, .	2										
NOTES												
	SCE 7-16; Vult=115mph	(3-second gust)										
	Imph; TCDL=6.0psf; BC											
	; Cat. II; Exp C; Enclose		be)									
exterior z	zone and C-C Exterior(2	E) zone; cantilever l	eft								O OF 1	ALL OF THE OFFICE
	t exposed ; end vertical l										TATE OF I	VIISS D
	;C-C for members and f									A		1.5
	s shown; Lumber DOL=	1.60 plate grip								A	SCOT	TM. PY
DOL=1.6		a 100 pot bottom								4	SEV	ER \V
	s has been designed for e load nonconcurrent wi		de							10+	1 4 1	
	are assumed to be: , Jo											X
	of 565 psi.											Gunn
	girder(s) for truss to tru	ss connections.								23	NUM	
	mechanical connection (		0							N	O PE-2001	018807

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September 27,2024

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 toulsible 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 - HM Lot 159	
P250153-01	J15	Jack-Open	1	1	Job Reference (optional)	168479977

1

1-10-3

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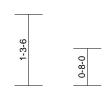
1-10-3

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. Wed Sep 25 12:34:47 ID:NDoWLUOhHBXkx6o?fF6ChrzZls2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





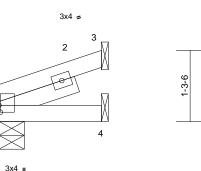


Plate Offsets (X, Y): [1:0-1-8,0-0-5]	Scale = 1:20.8			
	Plate Offsets (X, Y): [1:0-1-8,0-0-5]			

		-		_								
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.07	Vert(LL)	0.00	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P					-		Weight: 8 lb	FT = 20%
LUMBER			6) This truss	s designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SP No.2		Internation	al Residential Coc	de sections	s R502.11.1 a	and					
BOT CHORD	2x4 SP No.2		R802.10.2	and referenced st	andard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2	1-5-8	LOAD CASE(S	<ol> <li>Standard</li> </ol>								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	1-10-3 oc purlins.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS		3= Mechanical, 4=										
	Mechanic											
	Max Horiz 1=43 (LC											
	Max Uplift 1=-7 (LC		07									
	Max Grav 1=83 (LC (LC 3)	1), 3=64 (LC 1), 4=	37									
FORCES	( )											
FURCES	(lb) - Maximum Com Tension	ipression/iviaximum										
TOP CHORD												
BOT CHORD												
NOTES	1 1-0/0											
	CE 7-16; Vult=115mph	(2 second quist)										
	nph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose		ne)									~
	one and C-C Exterior(2										6000	Aller
	exposed ; end vertical										8 A OF	MISC
exposed;C	C-C for members and f	orces & MWFRS for	r							E	7 11	20,00
	shown; Lumber DOL=	1.60 plate grip								B	TATE OF	M XX
DOL=1.60 SCOTT M. SEVIER												
	2) This truss has been designed for a 10.0 psi bottom											
	load nonconcurrent w									20	1	X
	are assumed to be: , J	oint 1 SP No.2 crus	hing							<u>I</u> A a	all's	X-Drule D
capacity o	irder(s) for truss to tru	ss connections							-	87	NUM	IBER /

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 40 lb uplift at joint 3.

> DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/10/2025 4:07:52

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September 27,2024

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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)

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J16	Jack-Open	12	1	Job Reference (optional)	168479978

5-0-0

5-0-0

5-0-0

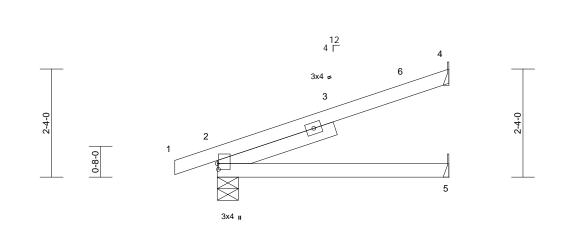
-0-11-0

0-11-0

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. Wed Sep 25 12:34:47 ID:TxNrG0ecV6T9DPK1?8kLAMzDuzk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale	9 = 1:24.9	

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d		GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	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 truss i	s designed in ac	cordance w	ith the 2018						
TOP CHORD	2x4 SP No.2			al Residential Co								
BOT CHORD			R802.10.2	and referenced s	standard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2 2-7-14 LOAD CASE(S) Standard											
BRACING												
TOP CHORD												
	5-0-0 oc purlins.											
BOT CHORD												
	bracing.											
REACTIONS												
	Mechanical											
	Max Horiz 2=86 (LC 12)											
	Max Uplift 2=-77 (LC 8), 4=-94 (LC 12)											
	Max Grav 2=292 (LC 1), 4=167 (LC 1), 5=99											
	(LC 3)											
FORCES	(lb) - Maximum Cor	npression/Maximum										
	Tension											

- TOP CHORD 1-2=-4/0, 2-4=-90/41 BOT CHORD 2-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 94 lb uplift at joint 4 and 77 lb uplift at joint 2.







Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J17	Jack-Open	4	1	Job Reference (optional)	168479979

-0-11-0

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

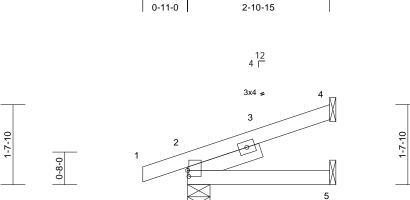
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:7F6Nn7n8gozSfFFLify9fuzDuzY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-10-15

2-10-15

Page: 1

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Plate Offsets (X, Y):	[2:0-1-8,0-0-5]						
Scale = 1:23.6							

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	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 TOP CHORI BOT CHORI SLIDER		 I-6-11	Ínternation	is designed in acco nal Residential Code and referenced sta S) Standard	e sections	R502.11.1 a	and					
BRACING TOP CHORI	D Structural wood she	athing directly appli	·									
IOF CHORE	2-10-15 oc purlins.	auting directly appli										
BOT CHORE		applied or 10-0-0 o	с									
REACTIONS	S (size) 2=0-5-8, 4 Mechanic Max Horiz 2=55 (LC Max Uplift 2=-64 (LC Max Grav 2=203 (LC (LC 3)	12) 8), 4=-55 (LC 12)	=57									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORE	D 1-2=-4/0, 2-4=-57/24	Ļ										
BOT CHORE	D 2-5=0/0											
NOTES												
Vasd=91 Ke=1.00 exterior and right exposed	SCE 7-16; Vult=115mph 1mph; TCDL=6.0psf; BC b; Cat. II; Exp C; Enclose zone and C-C Exterior(2 t exposed ; end vertical I t;C-C for members and for s shown; Lumber DOL= 60	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever eft and right prces & MWFRS for	left							ł.	STATE OF I	
2) This trus	ss has been designed for		40							8.	SEV	IER
3) Bearings	ve load nonconcurrent wi s are assumed to be: , Jo									8 ^	1 +te	
	of 565 psi.	connections								83	Kcoluni	Samerz J

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 64 lb uplift at joint 2.

> www.tpinst.org) RELEASE IOR DISTRUCTION AS NOTED ON TLANS REVIEW DEVERSION OF LANS REVIEW

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September 27,2024

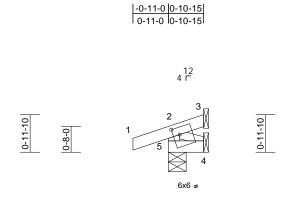
#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before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

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J18	Jack-Open	4	1	Job Reference (optional)	168479980

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RELEASE OR CONTRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT SERVICES LEE'S SUMMIT'S MISSOURI 03/10/2025 4:07:52





Scale = 1:29.8

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

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.09 0.01 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 *Exce Structural wood sh 0-10-15 oc purlins, Rigid ceiling directl bracing.	pt* 4-2:2x3 SPF No.2 eathing directly applie except end verticals y applied or 10-0-0 oc	Internationa R802.10.2 a LOAD CASE(S) d or	designed in accord Residential Code nd referenced star Standard	sections	R502.11.1 a	nd					
REACTIONS	5=0-5-8 Max Horiz 5=25 (LC Max Uplift 3=-26 (L (LC 8)	anical, 4= Mechanica C 11) C 1), 4=-10 (LC 8), 5= C 8), 4=15 (LC 3), 5=1	79									
FORCES TOP CHORD BOT CHORD WEBS	Tension	npression/Maximum 0/24, 2-3=-25/14										
Vasd=91n Ke=1.00; exterior zc and right exposed; reactions DOL=1.60 2) This truss chord live 3) Bearings capacity c 4) Refer to g	has been designed for load nonconcurrent v are assumed to be: , , of 565 psi. jirder(s) for truss to tr	CDL=6.0psf; h=35ft; ed; MWFRS (envelop 2E) zone; cantilever l left and right forces & MWFRS for -1.60 plate grip or a 10.0 psf bottom vith any other live load Joint 5 SP No.2 crush uss connections.	eft ds. ing								STATE OF SCOT SEV PE-2001	T.M. IER 018807
5) Provide m bearing pl	echanical connection late capable of withsta olift at joint 4 and 26 lt	(by others) of truss to anding 79 lb uplift at jo									Septembe	

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J19	Jack-Open	2	1	Job Reference (optional)	168479981

-0-10-8

0-10-8

1-6-3

1-6-3

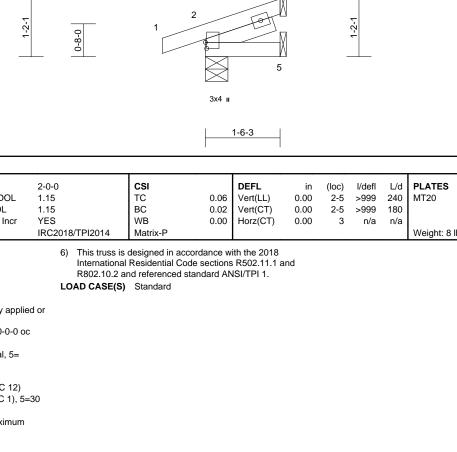
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:47 ID:n0PHtrfddb\_VdH0neRg5W7zDs?w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%
LUMBER			6) This truss	is designed in acco	rdance w	ith the 2018						
TOP CHORD	2x4 SP No.2			al Residential Code			and					
BOT CHORD			R802.10.2	and referenced sta	ndard AN	ISI/TPI 1.						
SLIDER	Left 2x4 SP No.2	1-5-5	LOAD CASE									
BRACING			(	-,								
TOP CHORD	Structural wood she	athing directly appli	ed or									
	1-6-3 oc purlins.	0 , 11										
BOT CHORD	Rigid ceiling directly	/ applied or 10-0-0 o	с									
	bracing.											
REACTIONS	· · · ·	3= Mechanical, 5=										
	Mechanic											
	Max Horiz 2=35 (LC	,										
	Max Uplift 2=-56 (LC	,, , ,										
	Max Grav 2=147 (L (LC 3)	C 1), 3=35 (LC 1), 5	=30									
FORCES	. ,	npression/Maximum										
	Tension											
TOP CHORD	1-2=-5/0, 2-3=-41/2	2, 3-4=0/0										
BOT CHORD	2-5=0/0											
NOTES												
	CE 7-16; Vult=115mph	n (3-second gust)										
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;										
	Cat. II; Exp C; Enclose										200	100
	ne and C-C Exterior(2		left								OF	MISSO
	exposed ; end vertical										BAR	JUSS W
	C-C for members and t									6	174	No. Y
DOL=1.60	shown; Lumber DOL=	1.60 plate grip								8	SCOT	ГТ М. \ΥΥ
	has been designed fo	r a 10.0 nsf hottom								R	/ SEV	TER \
	load nonconcurrent w		ds.									
	are assumed to be: , J											North
capacity of	f 565 psi.		-								NUM	E MAR
	rder(s) for truss to tru									177	PE-2001	
	echanical connection									N	FE-200	101000/29
	ate capable of withsta	nding 56 lb uplift at j	oint							Y	1 Ce	IN B
2 and 28 lt	b uplift at joint 3.										S'SIONA	I EN
											and and	
												07.0004

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J20	Jack-Open	2	1	Job Reference (optional)	168479982

-0-11-0

0-11-0

1-6-3

1-6-3

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Scale = 1:23.4

Loading

TCDL

BCLL

BCDL

LUMBER

SLIDER

BRACING TOP CHORD

TOP CHORD

BOT CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

4)

5)

TOP CHORD

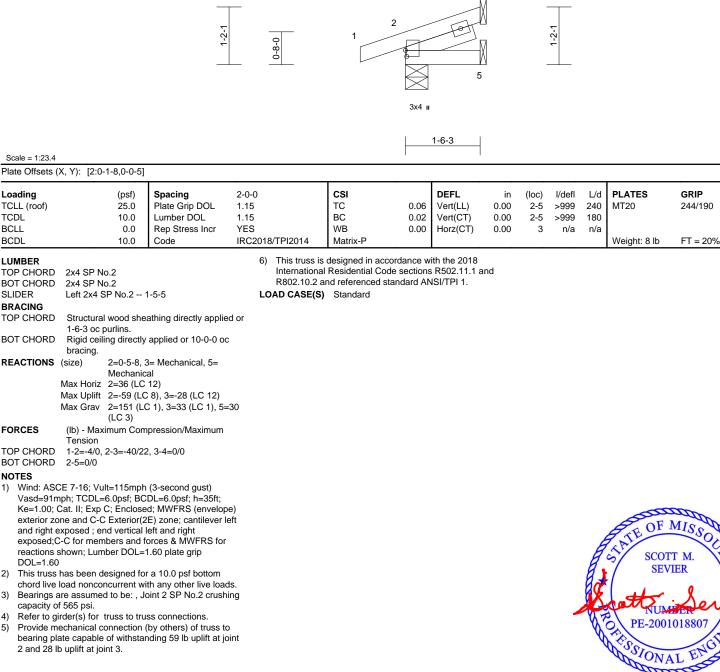
BOT CHORD

DOL=1.60

TCLL (roof)

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Page: 1



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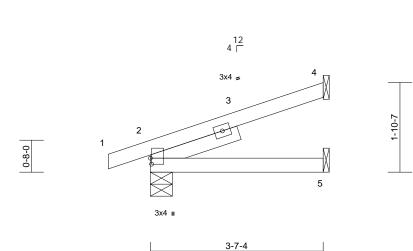


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	J21	Jack-Open	5	1	Job Reference (optional)	168479983

1-10-7

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Scale = 1:24

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	2-5	>999	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: 15 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2		Internatio R802.10.	s is designed in acco nal Residential Code 2 and referenced sta	e sections	R502.11.1	and					
SLIDER	Left 2x4 SP No.2 7	1-11-1	LOAD CASE	(S) Standard								
BRACING TOP CHORD	<ul> <li>Structural wood she 3-7-4 oc purlins.</li> </ul>	athing directly appli	ed or									
BOT CHORD		applied or 10-0-0 o	0C									
REACTIONS	(size) 2=0-5-8, 4 Mechanic Max Horiz 2=65 (LC Max Uplift 2=-65 (LC Max Grav 2=228 (LC (LC 3)	12) 2 8), 4=-68 (LC 12)	5=71									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD BOT CHORD	1-2=-5/0, 2-4=-71/29	Э										
NOTES												
Vasd=91ı Ke=1.00; exterior z and right exposed;	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL=: 0	DL=6.0psf; h=35ft; d; MWFRS (envelo E) zone; cantilever left and right orces & MWFRS fo	left							ł.	STATE OF I	
	s has been designed fo								1	U.	SEV	
	e load nonconcurrent wi									¥ð	1 . 1 2	0
	are assumed to be: , Je	oint 2 SP No.2 crus	hing								hatt?	Server
	of 565 psi.								-		NUM	BER /×
	girder(s) for truss to tru									47	PE-2001	
<ol><li>Frovide n</li></ol>	nechanical connection	(by others) of truss	to							Y Y	V 1 1-2001	VIOU A

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 65 lb uplift at joint 2.

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Page: 1

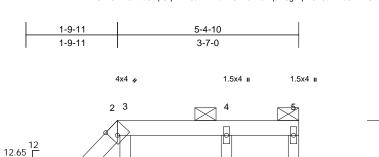
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	LG1	Lay-In Gable	1	1	Job Reference (optional)	168479984

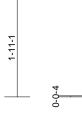
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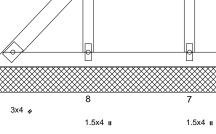
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Page: 1







5-4-10

1-11-1

Scale = 1:22.7

Plate Offsets (X, Y): [2:0-1-7,Edge]

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Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	)/TPI2014	CSI TC BC WB Matrix-S	0.05 0.03 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 20 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>2x3 SPF No.2</li> <li>Structural wood she 5-4-14 oc purlins, e</li> <li>2-0-0 oc purlins: 2-5</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 1=5-4-10, 8=5-4-10</li> <li>Max Horiz 1=69 (LC</li> <li>Max Grav 1=73 (LC</li> </ul>	athing directly applie xcept end verticals, i applied or 10-0-0 oc , 6=5-4-10, 7=5-4-10 9) 8), 6=-11 (LC 9), 7=-	4) 5) 6) 7) ed or 8) and ; 9) , 10] 46	Gable requir Gable studs This truss ha chord live loc All bearings capacity of 5 Provide mec bearing plate 1, 11 lb uplift uplift at joint This truss is International R802.10.2 ai	es continuous bott spaced at 0-0-0 oc s been designed f ad nonconcurrent v are assumed to be 65 psi. hanical connectior o capable of withsta at joint 6, 63 lb up 7. designed in accord Residential Code nd referenced star rlin representation ation of the purlin a t.	c. for a 10.1 with any e SP No. h (by oth anding 2 blift at joi dance w sections ndard AN h does no	D psf bottom other live loac 2 crushing ers) of truss to 1 b uplift at join nt 8 and 46 lb ith the 2018 5 R502.11.1 ar USI/TPI 1. ot depict the si	o ht					
FORCES	(lb) - Maximum Com Tension 1-2=-90/95, 2-3=-35												
BOT CHORD WEBS	4-5=-35/37, 5-6=-34 1-8=-32/36, 7-8=-32 3-8=-182/127, 4-7=-	/36, 6-7=-32/36										CONT	an
Vasd=91 Ke=1.00; exterior z and right exposed; reactions DOL=1.6 2) Truss dee only. For see Standor consul	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose cone and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL= 0 signed for wind loads in r studs exposed to wind dard Industry Gable En t qualified building desi adequate drainage to pr	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip the plane of the trus I (normal to the face) d Details as applicat gner as per ANSI/TF	eft ss , ole, rl 1.									Cotton PE-2001	T.M. HER 018807

September 27,2024



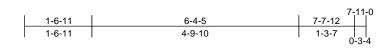
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

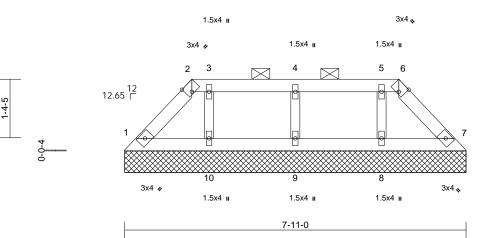
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	LG2	Lay-In Gable	1	1	Job Reference (optional)	168479985

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:48 ID:LHLh4Q15McGO3iR1UyMX85zWRWq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

RELEAS

DEVELOPMENT: SERVICES LEE'S SUMMIT: MISSOURI 03/10/2025 4:07:53





Scale = 1:26.7

Plate Offsets (X, Y): [2:0-1-7,Edge], [6:0-1-7,Edge]

1-7-15

Plate Olisets	(A, f). [2.0-1-7,Euge],	[6.0-1-7,Euge]											
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	0.06 0.03 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x3 SPF No.2</li> <li>Structural wood she 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 1=7-11-0, 9=7-11-0, Max Horiz 1=-39 (LC 8=-36 (LC (LC 9)</li> <li>Max Grav 1=76 (LC</li> </ul>	athing directly applie -0 max.): 2-6. applied or 10-0-0 oc 7=7-11-0, 8=7-11-0 10=7-11-0 2 8) 2 13), 7=-19 (LC 13), 2 8), 9=-47 (LC 8), 10	3) d or 5) 6) 7) 8) 9) 0=-44 10] 67	Truss desigr only. For stu see Standars or consult qu Provide aded Gable requir Gable studs This truss ha chord live loz All bearings capacity of 5 Provide mecc bearing plate 1, 19 lb uplift at joint 9 anc This truss is International R802.10.2 a Graphical pu	hed for wind loads uds exposed to wi d Industry Gable E alified building de quate drainage to es continuous bot spaced at 0-0-0 o as been designed ad nonconcurrent are assumed to bo	nd (norm End Deta ssigner a prevent tom choro c. for a 10. with any e SP No n (by oth tanding 2 plift at jo tt 8. rdance w a sections ndard At n does n	al to the face; ils as applicat s per ANSI/TR water ponding d bearing. 0 psf bottom other live loar 2 crushing ers) of truss t 20 lb uplift at ji int 10, 47 lb up ith the 2018 s R502.11.1 a SI/TPI 1. ot depict the s	), ole, PI 1. J. ds. ds. o pint plift					
FORCES TOP CHORD BOT CHORD	4-5=-52/45, 5-6=-52	/45, 3-4=-52/45, /45, 6-7=-64/29		bottom chore AD CASE(S)								(SIN)	all
this desig 2) Wind: AS Vasd=911 Ke=1.00; exterior z and right exposed;	eed roof live loads have gn. GE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ione and C-C Exterior(2 exposed ; end vertical I C-C for members and f shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le left and right orces & MWFRS for	e)									September	IL ENGLISH

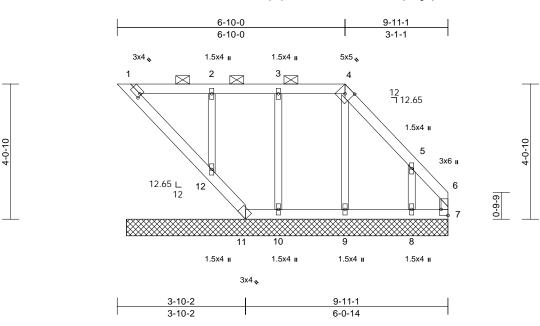


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	LG4	Lay-In Gable	2	1	Job Reference (optional)	168479986

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:48 ID:uxhN?Nmqt3cp7NrGvD0\_3lzDhGv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

1 29



## Scale = 1:34.6 Plate Offsets (X, Y): [1:0-0-10,0-1-8], [4:0-2-7,Edge], [6:Edge,0-2-8]

	X, Y): [1:0-0-10,0-1-8	], [4.0-2-7,∟uge], [0.∟ I	uge,0-2-	oj	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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 43 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exi 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 1-1 (size) 1=9-7-11, 9=9-7-11, 12=9-7-11 Max Horiz 1=-131 (L Max Uplift 1=-30 (LC 10=-46 (L 12=-53 (L Max Grav 1=103 (LC (LC 20), 9 25), 11=2: (lb) - Maximum Com Tension	athing directly applied cept end verticals, an -0 max.): 1-4. applied or 10-0-0 oc 12. 7=9-7-11, 8=9-7-11, 10=9-7-11, 11=9-7-1 C 13) 5 9), 8=-148 (LC 13), C 9), 11=-21 (LC 13), C 9) C 1), 7=49 (LC 22), 8= =163 (LC 1), 10=175 3 (LC 1), 12=237 (Li pression/Maximum	2, d or d 3, 1, 4, 5, 6, 7, -190 8, (LC 9, C 1) 9,	<ul> <li>Wind: ASCE Vasd=91mpl</li> <li>Ke=1.00; Ca</li> <li>exterior zone</li> <li>Interior (1) 5</li> <li>zone; cantile</li> <li>and right exp</li> <li>MWFRS for</li> <li>grip DOL=1.</li> <li>Truss design</li> <li>only. For stt</li> <li>see Standar</li> <li>or consult qu</li> <li>Provide adee</li> <li>Truss to be f</li> <li>braced again</li> <li>Gable studs</li> <li>This truss has</li> <li>chord live loo</li> <li>All bearings</li> <li>capacity of 5</li> <li>Provide mec</li> <li>bearing plate</li> <li>1, 21 Ib uplif</li> </ul>	7-16; Vult=115m, h; TCDL=6.0psf; E ti. II; Exp C; Enclo e and C-C Exteriou -4-1 to 6-10-0, Ex- vor left and right oosed; C-C for mer reactions shown; 60 ned for wind loads uds exposed to wi d Industry Gable E julified building de quate drainage to fully sheathed from the lateral movem spaced at 2-0-0 c as been designed ad nonconcurrent are assumed to b	3CDL=6. seed: MW r(2E) 0-4 terior(2E exposed mbers ar Lumber 1 in the pl nd (norm End Deta esigner a prevent in one fac ent (i.e. c cc. for a 10. with any e SP No n (by oth tanding3 uplift at j	Opsf; h=35ft; (FRS (envelop -1 to 5-4-1, ) 6-10-0 to 9 ; end vertical and forces & DOL=1.60 pla ane of the tru ial to the face ils as applica s per ANSI/TI water pondin (se or securely liagonal web) 0 psf bottom other live loa 2 crushing ers) of truss t 30 lb uplift at j	9-13 left ate ss ), bile, PI 1. g. ds. ooint					
TOP CHORD	1-2=-116/121, 2-3=- 4-5=-127/122, 5-6=- 1-12=-65/65, 11-12=	46/39, 6-7=-37/10	1		designed in accor						4	TATE OF	ISSO STA
	9-10=-29/37, 8-9=-29	9/37, 7-8=-29/37			Residential Code nd referenced sta			ind			A	-,	
WEBS	4-9=-121/23, 3-10=- 5-8=-191/158	139/66, 2-12=-179/79	<sup>,</sup> 1:		Irlin representation ation of the purlin			size			R*	SEV	
NOTES				bottom chore	d.						W	Jule .	
<ol> <li>Unbalance this design</li> </ol>	ed roof live loads have n.	been considered for	L	OAD CASE(S)	Standard					•	A A	PE-2001	018807

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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)

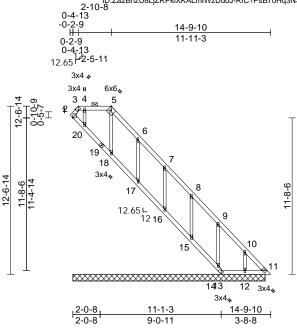
RELEASE OR STRUCTION AS NOTED COMPLANS REVIEW DEVERSION SERVICES LEE'S SUMMIT'S MISSOURI 03/10/2025 4:07:53

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	LG5	Lay-In Gable	1	1	Job Reference (optional)	168479987

ID:Za2BhzU8LjZRPkiXKALmIWzDuoJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-4-13 Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:48



Scale =	1:86.2
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Plate Offsets (X, Y): [3:0-1-7,Edge], [5:0-2-9,Edge], [11:0-2-1,0-1-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.19 0.15 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 75 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	6-0-0 oc purlins, ex 2-0-0 oc purlins (6- Rigid ceiling directl bracing, Except:	0-0 max.): 3-5. y applied or 10-0-0 oc	l d or 1 2	NOTES Unbalanced this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca	7-16; Vult=115 n; TCDL=6.0psf t. II; Exp C; End	7-16=-191 9-14=-192 nave been mph (3-sea ; BCDL=6. losed; MW	/161, /161, considered fo cond gust) 0psf; h=35ft; /FRS (envelop		Inte R80 13) Gra or ti	rnationa 2.10.2 a phical p ne orien com cho	al Resid and ref urlin re tation rd.	erenced standar presentation doe of the purlin alon	tions R502.11.1 and d ANSI/TPI 1. es not depict the size
REACTIONS	13=14-4 16=14-4 20=14-4 Max Horiz 2=-524 ( Max Uplift 2=-141 ( 12=-138 14=-95 ( 16=-138 18=-27 ( Max Grav 2=63 (LC 12=207 14=193) 16=205 (	9, 11=14-4-9, 12=14-4 -9, 14=14-4-9, 15=14- -9, 17=14-4-9, 18=14- -9	4-9, 4-9, 13), 13), 13), 20, 70, 70,	Exterior(2R) 14-8-2 zone; vertical left a forces & MW DOL=1.60 pl 3) Truss design only. For stu see Standard or consult qu 4) Provide adec c) All plates are 5) Gable studs 7) This truss ha	Ids exposed to a d Industry Gable alified building of quate drainage to 1.5x4 MT20 ur spaced at 2-0-0 to been designe ad nonconcurren	5, Interior ( and right ex d;C-C for r ns shown; .60 ds in the pl wind (norm e End Deta designer a to prevent hless other oc. d for a 10. nt with any	1) 10-1-15 to cposed; end nembers and Lumber ane of the tru nal to the face is as applical s per ANSI/TF water ponding wise indicated 0 psf bottom other live loa	ss ), ble, ⊃I 1. g. d.				TATE OF	MISSO
FORCES		mpression/Maximum			int(s) 2, 20 cons			alue			A	ST SCOT	T M.
TOP CHORD	,	-344/399, 6-7=-227/28 -61/42, 9-10=-160/132 20=-279/337,	· 1	designer sho 0) Provide mec bearing plate 11, 141 lb up uplift at joint	e capable of with plift at joint 2, 27 18, 150 lb uplift	city of bear ion (by oth standing 4 5 lb uplift a at joint 20	ing surface. hers) of truss t 44 lb uplift at j at joint 13, 27 , 142 lb uplift	oint Ib at			A A	NUM PE-2001	BER
	15-16=-274/332, 14 13-14=-275/365, 12 11-12=-178/222	4-15=-274/333,	1		Ib uplift at joint joint 14 and 13			15,			Ø	TE-2001	ENGINE

September 27,2024



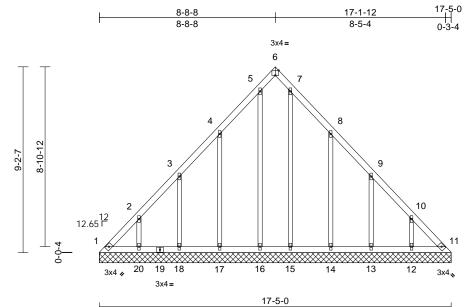
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	LG6	Lay-In Gable	1	1	Job Reference (optional)	168479988

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:48 ID:amL0vgFTCg9NeGbXq0IxEizDuZ6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57

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

				I		· · · ·					-	-
(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
25.0	Plate Grip DOL	1.15		TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
10.0					0.06	Vert(TL)	n/a	-	n/a	999		
0.0	Rep Stress Incr			WB	0.20	Horiz(TL)	0.01	11	n/a	n/a		
10.0	Code	IRC2018	8/TPI2014	Matrix-S					-		Weight: 93 lb	FT = 20%
2x4 SP No.2 2x4 SP No.2		W	-	4-17=-210/180, 5-	16=-125	/44, 7-15=-10	1/12,					
2x3 SPF No.2				10-12=-184/156								
		N	OTES									
Structural wood sh	eathing directly applie	ed or 1)	Unbalanced	roof live loads have	ve been	considered fo	r					
6-0-0 oc purlins.			this design.									
	y applied or 10-0-0 o	c 2)										
bracing.												
							be)					
	, ,	-5-0,					or					
							CI					
		4										
	( ),	<i>,</i> ,	DOL=1.60	,		51						
			Truss desigr	ed for wind loads	in the pl	ane of the tru	SS					
		, <u>,</u>										
		3)	see Standar	d Industry Gable E	End Deta	ils as applical	ble,					
							d.					
						d bearing.						
		19) 6)									- COL	acon
(lb) - Maximum Co	mpression/Maximum	7)									OF.	MICON
Tension							ds.				BIE	0.0
1-2=-394/273, 2-3=	-267/169, 3-4=-139/1	11, <sup>8)</sup>			e SP No	2 crushing				6	N	NSY
4-5=-111/104, 5-6=	-84/75, 6-7=-84/74,	0)			n (hu cth	oro) of truce t	•			B	S/ SCUI	I IVI.
,	20/73, 9-10=-241/169	9)								R	/ SEV	IER \ Y
10-11=-369/273										10+		
										X		Kin with
,	,								_		Jour 1	and the
					, 100 10		0			23	AUM /6	
	2-13=-203/281,	10			rdance w	ith the 2018				N.	OX PE-2001	018807
11-12=-203/281		10					nd			V	The last	158
											13'SIC-	ENUR
		LC									NA	LEI
	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood sh 6-0-0 oc purlins. Rigid ceiling direct bracing. (size) 1=17-5- 16=17-5 16=17-5 20=17-5 Max Horiz 1=-251 ( Max Uplift 1=-108 ( 12=-138 14=-159 17=-156 20=-138 Max Grav 1=273 ( 12=209 14=219 16=159 18=204 (lb) - Maximum Co Tension 1-2=-394/273, 2-3= 4-5=-111/104, 5-6= 7-8=-89/76, 8-9=-1 10-11=-369/273 1-20=-203/281, 18 17-18=-203/281, 11 15-16=-203/281, 11	25.0 Plate Grip DOL 10.0 Lumber DOL Rep Stress Incr Code 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood sheathing directly applied 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 or bracing. (size) 1=17-5-0, 11=17-5-0, 12=17-5 13=17-5-0, 14=17-5-0, 12=17-5 13=17-5-0, 14=17-5-0, 12=17-5 13=17-5-0, 14=17-5-0, 12=17- 20=17-5-0 Max Horiz 1=-251 (LC 8) Max Uplift 1=-108 (LC 10), 11=-80 (LC 1 12=-138 (LC 13), 13=-133 (LC 14=-159 (LC 12), 11=254 (LC 11) 12=209 (LC 20), 13=204 (LC 12) Max Grav 1=273 (LC 12), 11=254 (LC 11) 12=209 (LC 20), 13=204 (LC 12) Max Grav 1=273 (LC 12), 11=254 (LC 11) 12=209 (LC 20), 15=135 (LC 12) Max Grav 1=273 (LC 12), 11=254 (LC 11) 12=-394/273, 2-3=-267/169, 3-4=-139/1 4-5=-111/104, 5-6=-84/75, 6-7=-84/74, 7-8=-89/76, 8-9=-120/73, 9-10=-241/165 10-11=-369/273 1-20=-203/281, 18-20=-203/281, 17-18=-203/281, 18-20=-203/281, 15-16=-203/281, 14-15=-203/281, 15-16=-203/281, 12-13=-203/281, 13-14=-203/281, 12-13=-203/281, 13-14=-203/281, 13-14=-203/281, 13-14=-203/281, 13-	$\begin{array}{c ccccc} & 25.0 \\ & 10.0 \\ & 1.15 \\ & 10.0 \\ & 1.15 \\ & 10.0 \\ & 1.15 \\ & 10.0 \\ & 1.15 \\ & 10.0 \\ & 1.15 \\ & 10.0 \\$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25.0Piate Grip DOL1.15TC10.0Lumber DOL1.15BC0.0Rep Stress IncrYESWB10.0CodeIRC2018/TPI2014Matrix-S2x4 SP No.2 $X4$ SP No.2 $4\cdot17=-210/180, 5\cdot$ $4\cdot17=-210/180, 5\cdot$ 2x4 SP No.2 $2\cdot20=-184/156, 3\cdot$ $4\cdot17=-210/183, 9\cdot$ 2x3 SPF No.2Structural wood sheathing directly applied or 10-0-0 oc bracing.WES $2\cdot20=-184/156, 3\cdot$ Structural wood sheathing directly applied or 10-0-0 oc bracing.1=17-5-0, 11=17-5-0, 12=17-5-0, 13=17-5-0, 14=17-5-0, 15=17-5-0, 16=17-5-0, 17=17-5-0, 18=17-5-0, 20=17-5-0Wind: ASCE 7-16; Vult=115m Vasd=91mph; TCDL=6.0psf; Ke=1.00; Cat. II; Exp C; Enclo exterior zone and C-C Exteriol Interior (1) 5-4-1 to 8-8-12, Exp vasd=91mph; TCDL=6.0psf; Ke=1.00; Cat. II; Exp C; Enclo exterior zone and C-C Exteriol Interior (1) 5-4-1 to 8-8-12, Exp vasd=91mph; TCDL=6.0psf; Ke=1.00; Cat. II; Exp C; Enclo exterior zone and C-C Exteriol Interior (1) 5-4-1 to 8-8-12, Exp vasd=91mph; TCDL=6.0psf; Ke=1.00; Cat. II; Exp C; Cat. Cot. Interior (1) 5-4-1 to 8-8-12, Exp vasd=91mph; TCDL=6.0psf; Ke=1.00; Cat. II; Exp C; Cat. Cot. Interior (1) 5-4-1 to 8-12, Exp vasd=91mph; TCDL=6.0psf; Ke=1.00; Cat. II; Exp C; Cat. Cot. Interior (1) 13-5-12 tot. DOL=1.60Max Upift 1=-208 (LC 10), 11=-80 (LC 11), 12=209 (LC 20), 13=204 (LC 20), 14=219 (LC 20), 13=204 (LC 20), 14=219 (LC 20), 13=204 (LC 20), 14=219 (LC 20), 15=135 (LC 20), 18=204 (LC 19), 20=209 (LC 19), 18=204 (LC 19), 20=203 (LC 19), 18=204 (LC 19)	25.0Piate Grip DOL1.15TC0.0910.0Lumber DOL1.15BC0.090.0Rep Stress IncrYESWB0.2010.0CodeIRC2018/TPI2014Matrix-S2x4 SP No.2 $X3 SPF No.2$ WEBS2-20=-184/156, 3-18=-1852x4 SP No.2 $4.17-210/180, 5-16=-125$ $8.14=-210/183, 9-13=-185$ 2x4 SP No.2 $5.14=-210/183, 9-13=-185$ $10-12=-184/156$ 2x4 SP No.2 $5.14=-210/183, 9-13=-185$ $10-12=-184/156$ 2x4 SP No.2 $5.14=-210/183, 9-13=-185$ $10-12=-184/156$ 2x4 SP No.2 $1=17-5-0, 17=17-5-0, 15=17-5-0, 13=16-20, 128, 13=17-5-0, 13=17$	25.0         Plate Grip DOL         1.15         TC         0.09         Vert(LL)           10.0         Lumber DOL         1.15         BC         0.06         Vert(TL)           0.0         Rep Stress Incr         YES         WB         0.20         Vert(TL)         Horiz(TL)           2x4 SP No.2         X3 SPF No.2         X3 SPF No.2         X4 SP No.2         Structural wood sheathing directly applied or 10-0-0 cc bracing.         8:14=210/183, 9-13=-185/158, 10-12=-184/156         4:17=-210/180, 5-16=-125/44, 7-15=-10           Structural wood sheathing directly applied or 10-0-0 cc bracing.         10-12=-184/156         NOTES         10           (size)         1=17-5-0, 11=17-5-0, 12=17-5-0, 13=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=-203/281, 16=-203 (LC 12), 18=-204 (LC 12), 18=-213 (LC 12), 16=-23 (LC 20), 15=23 (LC 20), 13=204 (LC 20), 14=219 (LS 20), 12=-139/111, 4=59 (LC 12), 20=-203/281, 18-20=-203/281, 18-20=-203/281, 18-20=-203/281, 18-20=-203/281, 18-20=-203/281, 18-20=-203/281, 18-20=-203/281, 18-17=-203/281, 16-17=-203/281, 12=-239/231, 12=-239/231, 12=-239/231, 12=-239/231, 12=-239/231, 12=-230/231, 12=-230/231, 12=-230/231, 12=-230/231, 12=-12=-230/231, 13=-12=-230/231, 14=15=-230/231, 12=-12=-230/23	25.0         Plate Grip DOL         1.15         TC         0.09         Vert(LL)         n/a           10.0         Lumber DOL         1.15         BC         0.06         Vert(TL)         n/a           10.0         Code         IRC2018/TPI2014         Matrix-S         Vert(TL)         n/a           2x4 SP No.2         Structural wood sheathing directly applied or 10-0-0 oc bracing.         Vert         Notes         2-20=-184/156, 3-18=-185/158, 4-17=-210/180, 5-16=-125/44, 7-15=-101/12, 8-14=-210/180, 5-16=-125/44, 7-15=-101/12, 8-14=-210/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-210/180, 5-16=-125/44, 7-15=-101/12, 8-14=-210/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-200/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/44, 7-15=-101/12, 8-14=-100/180, 5-16=-125/180, 9-14=-159/160	25.0         Plate Grip DOL         1.15         TC         0.09         Vert(LL)         n/a         -           0.0         Rep Stress Incr         YES         WB         0.00         Horiz(TL)         n/a         -           10.0         Code         IRC2018/TPI2014         Matrix-S         Horiz(TL)         n/a         -           2x4 SP No.2         Structural wood sheathing directly applied or 10-0-0 oc bracing.         WEBS         2-20=-184/156, 3-18=-185/158, 4-175=-0.101/12, 8-14=-210/183, 9-13=-185/158, 4-175=-0.114-175=0, 12=-175=0.0         NOTES         NOTES           Structural wood sheathing directly applied or 10-0-0 oc bracing.         10-12=-184/156         NOTES         NOTES           Max Horiz 1=-251 (LC 8)         WEBS         2-20=-160, Structural WPRS (envelope)	25.0         Plate Grip DOL         1.15         TC         0.09         Vert(LL)         n/a         n/a           0.0         Rep Stress Incr         YES         WB         0.00         Vert(LL)         n/a         n/a           10.0         Code         IRC2018/TPI2014         Matrix-S         WB         0.01         Init m/a         n/a           2x4 SP No.2         Zx4 SP No.2         Structural wood sheathing directly applied or 10-0-0 corbracing.         8:14=-210/183, 9-13=-185/158, 4-17=-50/17=7.50, 14=17-50, 15=17-50, 16=17-5-0, 17=17-50, 15=17-50, 16=17-5-0, 17=17-50, 16=17-5-0, 17=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 16=17-5-0, 17=17-5-0, 18=17-5-0, 16=117-5-0, 16=17-5-0	25.0         Piate Crip DOL Lumber DOL         1.15         TC         0.06         Vert(LL)         n/a         -         n/a         999           10.0         Reg Stress Incr         VES         BC         0.06         Vert(LL)         n/a         -         n/a         999           10.0         Code         IRC2018/TPI2014         Matrix-S         Vert(LL)         n/a         -         n/a         999           2v4 SP No.2         Exception         Intervention         Notes         -         -         n/a         999           2v4 SP No.2         Exception         Notes         -         -         -         -         n/a         n/a         n/a           2v4 SP No.2         Exception         Notes         -	25.0         Plate Grip DOL         1.15         TC         0.00         Vert(TL)         n/a          n/a         999         MT20           0.0         Rep Stress Incr         YES         WB         0.00         Vert(TL)         n/a          n/a         999         Mt20           10.0         Code         IRC2018/TPI2014         Matrix-S         Vert(TL)         n/a          n/a         999         Mt20           2x4 SP No.2         Zx4 SP No.2         Zx4 SP No.2         Vert(TL)         n/a          n/a         n/a         Mt20           Structural wood sheathing directly applied or 10-0-0 coracing:

September 27,2024

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/10/2025 4:07:53

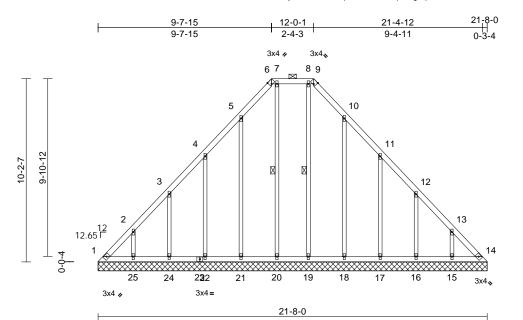
CTION **IEW** 



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	LG7	Lay-In Gable	1	1	Job Reference (optional)	168479989

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:48 ID:eH40YuMhUzCf3ojUfMRsA7zDv5q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	_	1:64.1
Juaie	_	1.04.1

Plate Offsets (X, Y): [6:0-1-7,Edge], [9:0-1-7,Edge]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI20	BC 0. WB 0.	DEFL Vert(LL) Vert(TL) 26 Horiz(TL)	in n/a n/a 0.01	(loc) - - 14	l/defl n/a n/a n/a	999	PLATES MT20 Weight: 122 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exo 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 1=21-8-0, 16=21-8-( 19=21-8-0 22=21-8-( 22=21-8-( Max Horiz 1=-281 (L Max Uplift 1=-135 (L 15=-138 ( 22=-24 (L 22=-144 ( 25=-138 ( 15=209 (L 15=209 (L 15=209 (L 19=159 (L 21=208 (L	<ul> <li>-0 max.): 6-9. applied or 10-0-0 oc</li> <li>7-20, 8-19</li> <li>14=21-8-0, 15=21-8-0</li> <li>0, 17=21-8-0, 21=21-8-0</li> <li>0, 20=21-8-0, 21=21-8-0</li> <li>0, 24=21-8-0, 25=21-8-C</li> <li>8)</li> <li>2, 4=21-8-0, 25=21-8-C</li> <li>10, 14=-84 (LC 11)</li> <li>LC 13), 16=-134 (LC 1</li> <li>LC 13), 16=-134 (LC 1</li> <li>LC 13), 18=-115 (LC 12</li> <li>LC 12), 24=-134 (LC 13)</li> <li>LC 12), 14=228 (LC 13)</li> <li>LC 20), 18=203 (LC 20)</li> <li>LC 21), 20=182 (LC 22)</li> <li>C 19), 22=207 (LC 19)</li> <li>C 19), 25=209 (LC 19)</li> </ul>	WEBS , NOTES 0, 1) Unba 10, 1) Unba 10, 2) Wind: 13), exteri 13), exteri 13), Exteri 13), Exteri 14, 22, vertic 15, 21-4- 15, 21-4-	22-24=-159/256, 21-22 20-21=-159/256, 19-20 18-19=-159/256, 19-20 18-19=-159/256, 15-16 14-15=-159/256 2-25=-179/155, 3-24=- 4-22=-192/168, 5-21=- 7-20=-145/61, 8-19=-12 10-18=-162/140, 11-17 12-16=-182/160, 13-15 lanced roof live loads have be esign. ASCE 7-16; Vult=115mph (3 =91mph; TCDL=6.0psf; BCDL .00; Cat. II; Exp C; Enclosed; or zone and C-C Exterior(2E) or (1) 5-4-1 to 9-8-2, Exterior(2 ior(2R) 12-0-5 to 19-1-3, Interi 6 zone; cantilever left and righ al left and right exposed;C-C f s & MWFRS for reactions shot -1.60 plate grip DOL=1.60 designed for wind loads in th For studs exposed to wind (n tandard Industry Gable End D sult qualified building designed de adequate drainage to prev	=-159/256, =-159/256, =-159/256, =-159/256, =-159/256, 182/160, 167/144, 22/43, =-172/169, =-122/169, =-	5, 5, ss , ble, Pl 1.	bea joint lb u joint 146 uplit 11) This Inte R80 12) Gra or th	ring pla t 1, 84 l plift at j t 21, 24 i lb uplif ft at joir s truss i rnation 02.10.2 phical p he orier com chc	ate capa lb uplift joint 24 I b uplift It at join fnt 15. is desig al Resi and rei purlin re ntation ord. <b>5)</b> Sta	able of withstandi at joint 14, 138 lk , 144 lb uplift at jo ft at joint 20, 115 it 17, 134 lb uplift ned in accordanc dential Code sect ferenced standar epresentation doe of the purlin along	tions R502.11.1 and d ANSI/TPI 1. es not depict the size g the top and/or MISSOL T M.
TOP CHORD	4-5=-153/164, 5-6=-		6) Gable 7) Gable 1, 8) This t 2) All be	ates are 1.5x4 MT20 unless of requires continuous bottom of a studs spaced at 0-0-0 oc. russ has been designed for a live load nonconcurrent with a arings are assumed to be SP bity of 565 psi.	chord bearing. 10.0 psf bottom any other live load			-		PE-2001	018807 E

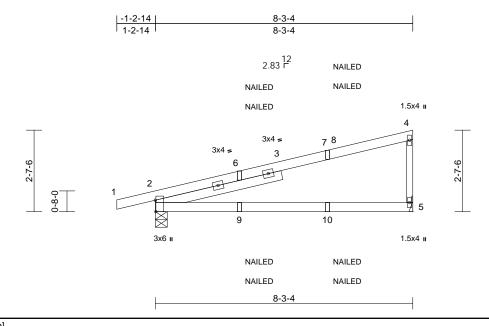
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

RELEASE ICROMETRUCTION AS NOTED ON FLANS REVIEW DEVELORMENT: SERVICES LEE'S'SUMMIT, MISSOURI 03/10/2025 4:07:53

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 159	
P250153-01	TG2	Diagonal Hip Girder	2	1	Job Reference (optional)	168479990

## Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Sep 25 12:34:48 ID:9RizLT5sxS0XndvBrCTxOMzWRWk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scal	e = 1:37	

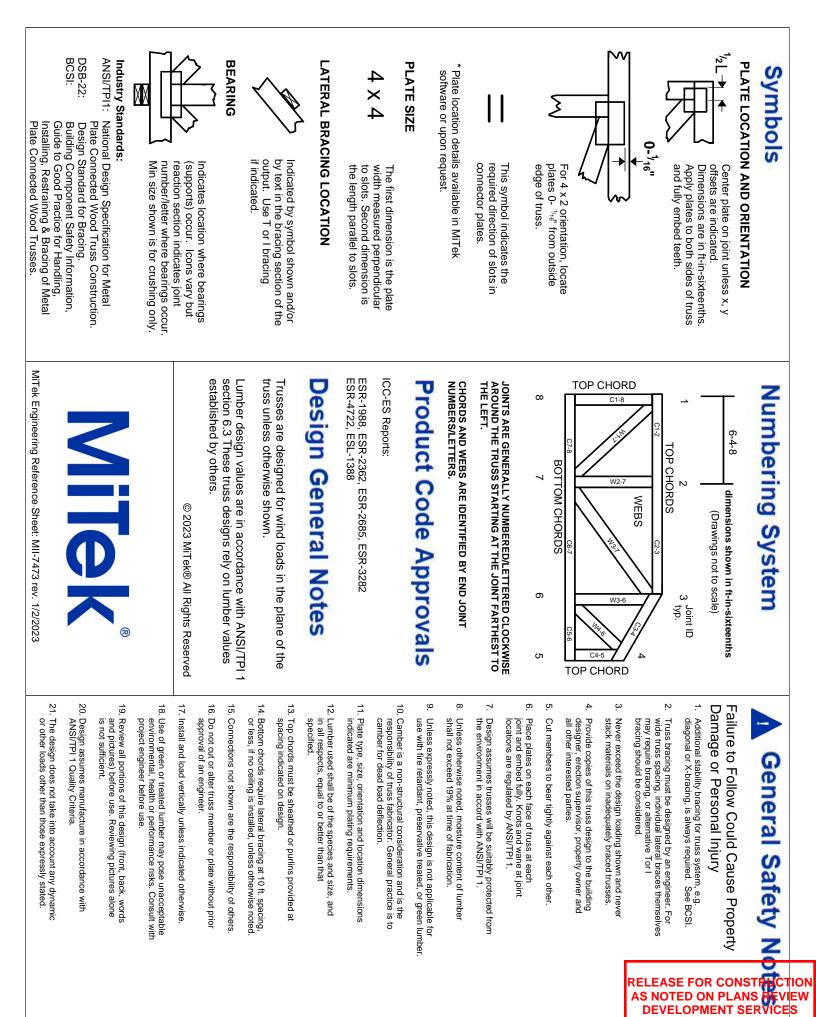
# Plate Offsets (X, Y): [2:0-4-6,Edge]

	(X, I): [2:0 I 0,20g0]											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.96	DEFL Vert(LL)	in -0.22	(loc) 2-5	l/defl >454	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL BCDL	0.0 10.0	Rep Stress Incr Code	NO IRC2018/TPI201	WB 4 Matrix-P	0.00	Horz(CT)	0.00	5	n/a	n/a	Weight: 35 lb	FT = 20%
	10.0	Code	11(02010/111201	4 Widuix-i							Weight. 55 lb	11 = 2070
LUMBER				D" indicates Girder: 3	-10d (0.14	8" x 3") toe-	nails					
TOP CHORD				S guidelines.								
BOT CHORD				OAD CASE(S) sectio russ are noted as fron			face					
WEBS SLIDER	2x3 SPF No.2 Left 2x4 SP No.2	4 1 15		SE(S) Standard	it (F) 01 ba	ск (В).						
BRACING	Len 2x4 OF NO.2	+-1-15		+ Roof Live (balanced	d). Lumber	Increase=1	15					
TOP CHORD	Structural wood she	athing directly applie	, <u> </u>	Increase=1.15		11010000-11	,					
	6-0-0 oc purlins, ex			rm Loads (lb/ft)								
BOT CHORD			•	rt: 1-4=-70, 2-5=-20								
	bracing.			entrated Loads (lb)								
REACTIONS		5= Mechanical	Ve	rt: 7=-60 (F=-34, B=-20	6), 10=-19	(F=-10, B=-	10)					
	Max Horiz 2=103 (L		2									
	Max Uplift 2=-150 (L Max Grav 2=486 (L		2)									
FORCES	(lb) - Maximum Con	,. ,										
FURGES	Tension	ipression/maximum										
TOP CHORD		32, 4-5=-320/305										
BOT CHORD	2-5=-47/51											
NOTES												
	CE 7-16; Vult=115mph											
	mph; TCDL=6.0psf; BC											
	Cat. II; Exp C; Enclose one and C-C Corner (3		pe)									
	2R) 5-10-0 to 8-2-0 zon		4								and a	Jon
	osed ; end vertical left a										ATE OF	MISS
	ers and forces & MWF		own;							A		N.S.
	DOL=1.60 plate grip DC									A	SCOT	TM.
	s has been designed fo		da							4	SEV	IER \ Y
	e load nonconcurrent w are assumed to be: Jo											· · · · ·
	capacity of 805 psi.	Int 2 01 24001 2.0E							_		1 the	Jour 17
	girder(s) for truss to trus	ss connections.							<b>ر</b> _	Strate	NUM	BER
	nechanical connection									17	PE-2001	
	late capable of withsta	nding 117 lb uplift at	joint							N		12 A
	D lb uplift at joint 2. s is designed in accordations and a secord a secor	anco with the 2019								Y	1080	G A
	nal Residential Code s		ind								SSIONA	LEFA
Doop 40											ALL.	

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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)





ASE FOR CONST **OTED ON PLANS** VELOPMENT SER LEE'S SUMMIT, MISSOURI 03/10/2025 4:07:53