

RE: P250279-01 Roof - HM Lot 181

Site Information:

Customer:Clayton PropertiesProject Name:P250279-01Lot/Block:181Model:Carolina - Modern Prairie 3 CarAddress:2761 SW 11th 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 47 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	165760522	A6	5/22/2024	21	165760542	CG1	5/22/2024
2	165760523	A7	5/22/2024	22	165760543	CG2	5/22/2024
3	165760524	A8	5/22/2024	23	165760544	CG3	5/22/2024
4	165760525	A9	5/22/2024	24	165760545	D1	5/22/2024
5	165760526	A10	5/22/2024	25	165760546	E1	5/22/2024
6	165760527	A11	5/22/2024	26	165760547	E2	5/22/2024
7	165760528	A12	5/22/2024	27	165760548	J1	5/22/2024
8	165760529	A13	5/22/2024	28	165760549	J2	5/22/2024
9	165760530	A14	5/22/2024	29	165760550	J3	5/22/2024
10	165760531	A15	5/22/2024	30	165760551	J4	5/22/2024
11	165760532	A16	5/22/2024	31	165760552	J6	5/22/2024
12	165760533	A17	5/22/2024	32	165760553	J7	5/22/2024
13	165760534	A18	5/22/2024	33	165760554	J8	5/22/2024
14	165760535	B1	5/22/2024	34	165760555	LG1	5/22/2024
15	165760536	B2	5/22/2024	35	165760556	LG2	5/22/2024
16	165760537	B3	5/22/2024	36	165760557	LG3	5/22/2024
17	165760538	B4	5/22/2024	37	165760558	LG4	5/22/2024
18	165760539	C1	5/22/2024	38	165760559	M1	5/22/2024
19	165760540	C2	5/22/2024	39	165760560	M2	5/22/2024
20	165760541	C3	5/22/2024	40	165760561	M3	5/22/2024

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by . Truss Design Engineer's Name: Nathan Fox My license renewal date for the state of Missouri is Dece

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

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



Nathan Fox

May 22, 2024 RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/04/2025 5:02:36

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



RE: P250279-01 - Roof - HM Lot 181

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

### Site Information:

Project Customer: Clayton PropertiesProject Name: P250279-01Lot/Block: 181Subdivision: Highland MeadowsAddress: 2761 SW 11th StState: MO

No.	Seal#	Truss Name	Date
41	165760562	M4	5/22/2024
42	165760563	M5	5/22/2024
43	165760564	M6	5/22/2024
44	165760565	M7	5/22/2024
45	165760566	M8	5/22/2024
46	165760567	V1	5/22/2024
47	165760568	V2	5/22/2024

Job	Truss	Truss Type		Ply	Roof - HM Lot 181	
P250279-01	A6	Common	2	1	Job Reference (optional)	165760522

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:46:59 ID:gssx3aRENmQB7mKwARHJKMzbfHA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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QB7mKwARHJKMzbfHA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

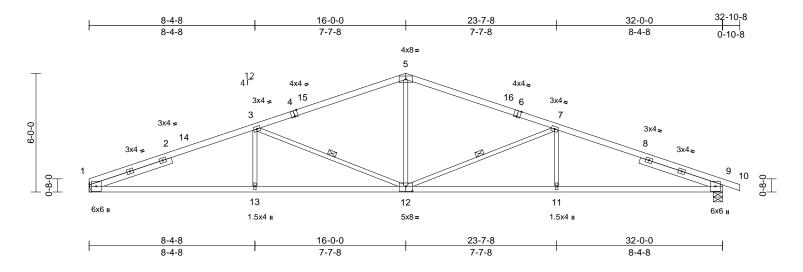


Plate Offsets (	(X, Y): [1:0-3-13,0-1-5	i], [4:0-2-0,Edge], [6:	0-2-0,Edg	e], [9:0-3-13,0-	1-5], [12:0-4-0,0-3	3-0]							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES	8/TPI2014	CSI TC BC WB Matrix-S	0.95 0.96 0.64	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 11-12 11-12 9	l/defl >999 >911 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 135 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP 1650F 1.5E No.2 2x4 SP No.2 Left 2x4 SP No.2 Left 2x4 SP No.2	*Except* 6-10:2x4 S 4-4-9, Right 2x4 SP athing directly applie applied or 2-2-0 oc 7-12, 3-12 anical, 9=0-5-8 C 12) C 8), 9=-293 (LC 9) LC 1), 9=1502 (LC 1) pression/Maximum =-2272/595, =-3198/727, 9-10=-5, -13=-612/2929, 2=-987/306, 7-11=0/3	3) 4) No.2 6) Pd. 7) L( )	<ul> <li>This truss ha chord live loo</li> <li>Bearings are capacity of 5</li> <li>Refer to gird</li> <li>Provide mec bearing plate joint 1 and 2</li> <li>This truss is International</li> </ul>	as been designed ad nonconcurrent assumed to be: 365 psi. ler(s) for truss to t chanical connectic e capable of withs 93 lb uplift at joint designed in acco Residential Code nd referenced sta	with any , Joint 9 S russ conr on (by othe tanding 2 : 9. rdance with sections	other live loa SP No.2 crust nections. ers) of truss 52 lb uplift a th the 2018 R502.11.1 a	hing to t					
this design Wind: ASC Vasd=91n Ke=1.00; ( exterior zc Interior (1) 21-0-0, Int	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 ) 5-0-0 to 16-0-0, Exter terior (1) 21-0-0 to 32- exposed ; end vertical	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-0-0 to 5-0-0, rior(2R) 16-0-0 to 10-8 zone; cantilevel	be)									STE OF M NATHA FO. PE-2022	A FOR

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

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

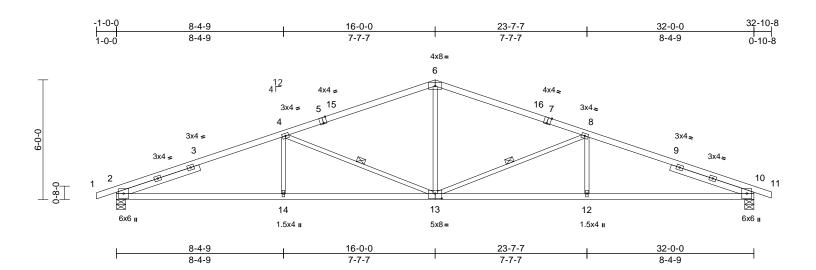


May 22,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181		
P250279-01	A7	Common	1	1	Job Reference (optional)	165760523	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:00 ID:gssx3aRENmQB7mKwARHJKMzbfHA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Plate Offsets	Plate Offsets (X, Y): [2:0-3-13,0-1-5], [5:0-2-0,Edge], [7:0-2-0,Edge], [10:0-3-13,0-1-5], [13:0-4-0,0-3-0]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.95 0.95 0.63	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)		(loc) 13-14 13-14 10	l/defl >999 >907 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 136 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	No.2 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 4 No.2 4-4-10 Structural wood she Rigid ceiling directly bracing. 1 Row at midpt	4-4-10, Right 2x4 SP athing directly applie applied or 2-2-0 oc 8-13, 4-13 10=0-5-8 C 12) C 8), 10=-293 (LC 9)	4 SP 4) 5) d. L(	chord live loa All bearings capacity of 5 Provide mec bearing plate joint 2 and 2 This truss is International	Is been designe ad nonconcurrei are assumed to 65 psi. hanical connect capable of with 93 lb uplift at joi designed in acc Residential Coo nd referenced s	nt with any be SP No. ion (by oth nstanding 2 nt 10. cordance wi de sections	other live loa 2 crushing ers) of truss 99 lb uplift a ith the 2018 R502.11.1 a	to t					
FORCES	(lb) - Maximum Com Tension												
TOP CHORD	6-8=-2269/586, 8-10	)=-3194/724, 10-11=	,										
WEBS	10-12=-593/2918 6-13=-121/858, 8-13 4-13=-985/305, 4-14	3=-987/306, 8-12=0/3	333,										- The
this desig 2) Wind: AS Vasd=91I Ke=1.00; exterior (1 21-0-0, In and right exposed;	ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 ) 4-0-0 to 16-0-0, Exter terior (1) 21-0-0 to 32- exposed ; end vertical c-C for members and f shown; Lumber DOL=	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -1-0-0 to 4-0-0, ior(2R) 16-0-0 to 10-8 zone; cantilever left and right orces & MWFRS for	e)									PE-20220	ARR JUST

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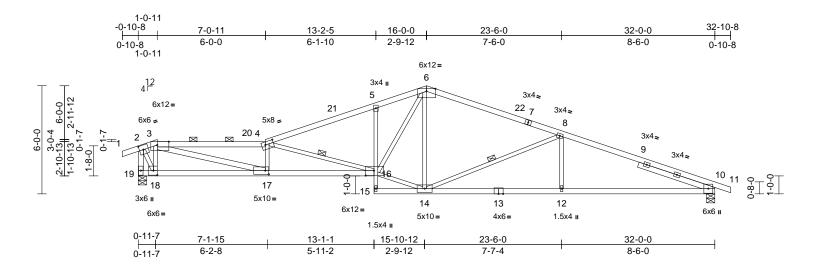
May 22,2024

Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A8	Roof Special	1	1	Job Reference (optional)	165760524

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:00 ID:5i3VGQhngvxLXrsmLee?8azbfGs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:63.9

Plate Offsets (X, Y): [2:0-2-11,0-3-0], [3:0-7-12,Edge], [4:0-5-8,0-2-0], [10:0-3-13,0-1-5], [16:0-5-8,0-3-4], [17:0-2-4,0-2-8], [18:0-2-8,0-3-0]													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.97	Vert(LL)	-0.39	16-17	>992	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.72	16-17	>528	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.97	Horz(CT)	0.16	10	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-						Weight: 149 lb	FT = 20%
BCDL LUMBER TOP CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS TOP CHORD BOT CHORD BOT CHORD WEBS NOTES	10.0 2x4 SP 1650F 1.5E * No.2 2x4 SP No.2 *Excep 1.5E, 5-15:2x3 SPF 1 2x3 SPF No.2 *Exce No.2 Right 2x4 SP No.2 * Structural wood shea 2-2-0 oc purlins, exc 2-0 oc purlins, (2-2 Rigid ceiling directly bracing. 1 Row at midpt (size) 10=0-5-8, Max Horiz 19=-128 (I Max Uplift 10=-291 (I Max Grav 10=1494 (I (Ib) - Maximum Com 1-2=0/23, 2-3=-836/2 4-5=-3216/775, 5-6 6-8=-2228/582, 8-10 2-19=-1604/418 18-19=-31/139, 17-1 16-17=-971/4659, 15 5-16=-339/200, 14-1 12-14=-596/2898, 11 3-18=-1166/389, 3-1 4-17=-963/335, 4-16 6-16=-445/1806, 2-1 6-14=-260/112, 14-1 8-12=0/344, 8-14=-9 ed roof live loads have	Code *Except* 1-3,7-11:2) * 19-16:2x4 SP 165 No.2 pt* 17-3,19-2:2x4 SP 4-5-6 athing directly applie cept end verticals, ar -0 max.): 3-4. applied or 2-2-0 oc 4-16, 8-14 19=0-5-8 LC 3), 19=-301 (LC (LC 1), 19=1505 (LC pression/Maximum 200, 3-4=-4719/1117 -3141/838, =-3172/724, 10-11= 8=-140/897, 5-16=-1/4, 5=-35/50, D-12=-596/2898 7=-916/3962, =-1737/431, 8=-370/1576, 6=-331/2106, 92/301	IRC201:         2)         (4 SP         60F         P         8d or         3)         4)         5)         6)         8)         :1)         7,         8)         -5/0,         LC	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 6 21-0-0, Inter and right exp exposed;C-C reactions shu DOL=1.60 Provide adeet This truss ha chord live loa Bearings are crushing cap capacity of 5 Provide mec bearing plate joint 19 and This truss is International R802.10.2 a Graphical put	Matrix-S 7-16; Vult=115m h; TCDL=6.0psf; I. II; Exp C; Enclo a and C-C Exterio -0-11 to 16-0-0, E ior (1) 21-0-0 to 3 oosed ; end vertic C for members an own; Lumber DOI quate drainage to as been designed ad nonconcurrent e assumed to be: acity of 565 psi, shanical connectic e capable of withs 291 lb uplift at joi designed in acco Residential Code nd referenced sta urlin representatio ation of the purlin d.	ph (3-sec BCDL=6, issed; MW r(2E) -0- 2-10-8 zc al left and d forces a L=1.60 pl prevent for a 10.4 with any Joint 19 S Joint 10 S on (by oth standing 3 int 10. rdance w e sections indard AN n does no	xond gust) Dpsf; h=35ft; FRS (envelop 10-8 to 6-0-11 R) 16-0-0 to one; cantileve d right & MWFRS for ate grip water ponding 0 psf bottom other live loa SP 1650F 1.5 IP No.2 crush ers) of truss t 801 lb uplift at ith the 2018 s R502.11.1 a ISI/TPI 1.	pe) r left ds. E ing o		iva			MISSOLUTION NIEL X 042259
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May 22,2024

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)

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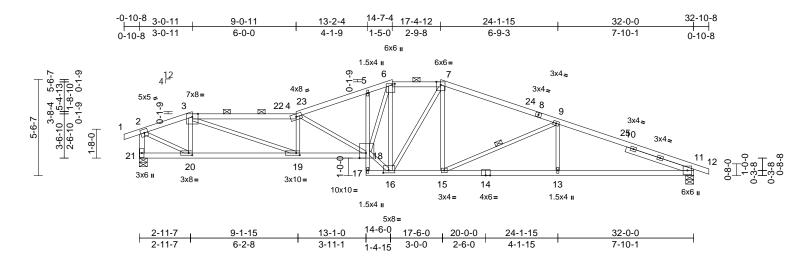
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A9	Roof Special	1	1	Job Reference (optional)	165760525

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:dWV724g9vbpUvhHanx7mcMzbfGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



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Plate Offsets (X, Y): [6:0-0-12,0-1-1	2], [11:0-3-13,0-1-5], [16:0	-3-12,0-1-12], [18:	0-4-8,Edge], [19:	0-2-8,0-1-	8], [20:0-2-8,	0-1-8]					
Loading         (psf)           ICLL (roof)         25.0           ICDL         10.0           3CLL         0.0           3CDL         10.0	Spacing         2-0           Plate Grip DOL         1.11           Lumber DOL         1.12           Rep Stress Incr         YES           Code         IRC	5	CSI TC BC WB Matrix-S	0.90 0.90 0.96	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 18-19 18-19 11	l/defl >999 >669 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 151 lb	<b>GRIP</b> 197/144 FT = 20%
1.5E         30T CHORD       2x4 SP No.2 *Exception         1.5E, 5-17:2x3 SPF         WEBS       2x3 SPF No.2 *Exception         SLIDER       Right 2x4 SP No.2 *Exception         SCORE       Structural wood sheption         2-11-8 oc purlins, epidemic 2-00 oc purlins, (2-200 oc purling directly bracing.         WEBS       1 Row at midpt         REACTIONS       (size)       11=0-5-8         Max Horiz       21=-118         Max Grav       11=1494         FORCES       (lb) - Maximum Contrension         TOP CHORD       1-2=0/23, 2-3=-1766         4-5=-3149/856, 5-6       6-7=-2194/678, 7-9:         9-11=-3194/794, 11       15-18=-44/98, 16-17:         18-19=-898/3976, 15-68       4-58=-3149/856, 5-66         6-7=-2194/678, 7-9:       9-11=-3194/794, 11         30T CHORD       20-21=-44/129, 19-5         18-19=-898/3976, 15-16       5-18=-44/98, 16-17:         15-16=-465/2219, 1       11-13=-667/2917         WEBS       3-20=-704/272, 3-19         11-13=-672917       14-19=-786/294, 4-14         16-18=-519/2560, 6       6-16=-1434/324, 7-14	ept* 21-2:2x4 SP No.2 - 4-1-3 eathing directly applied or except end verticals, and 2-0 max.): 3-4, 6-7. y applied or 6-0-0 oc 9-15 , 21=0-5-8 (LC 13) (LC 9), 21=-311 (LC 8) (LC 1), 21=1505 (LC 1) npression/Maximum 4/473, 3-4=-4011/1062, =-3037/871, =-2417/685, -12=-5/0, 2-21=-1497/476 20=-335/1692, 7-18=-10/13, =-33/130, 3-15=-667/2917, 9=-617/2481, 8=-1204/322, -18=-545/2297, 16=-241/170, =-806/261, 9-13=0/311,	<ul> <li>Vasd=91mp Ke=1.00; Ca</li> <li>exterior zon</li> <li>Exterior zon</li> <li>Exterior(2R)</li> <li>14-7-4, Exterior(2R)</li> <li>14-7, 14-2, 14-2, 14-2, 14-2, 14-2, 14-2, 14-2, 14</li></ul>	chanical connection e capable of withs Ib uplift at joint 11 designed in accco I Residential Cod und referenced staurlin representation ation of the purlind d.	BCDL=6. Ssed; MW br(2E) -0-1 Interior ( 17-4-12, ) 22-4-12 ed; end v rs and for DOL=1.6C prevent v for a 10.0 t with any Joint 21 S Joint 11 S bon (by oth standing 3 - rd rd rd rd rd rd rd rd rd rd	Dipsf; $h=35ft$ ; FRS (envelo 0-8 to 3-0-11 1) 8-0-11 to Exterior(2R) to 32-10-8 z ertical left ar ces & MWFF 0 plate grip vater ponding 0 psf bottom other live loa SP 1650F 1.5 P No.2 crush ers) of truss t 11 lb uplift at th the 2018 R502.11.1 a SI/TP1 1.	i, one; id RS g. ds. E sing to to to to to			D	STATE OF M NATHA FO PE-20220	BER 042259

anno May 22,2024

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 04/04/2025 5:02:37

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A10	Roof Special	1	1	Job Reference (optional)	165760526

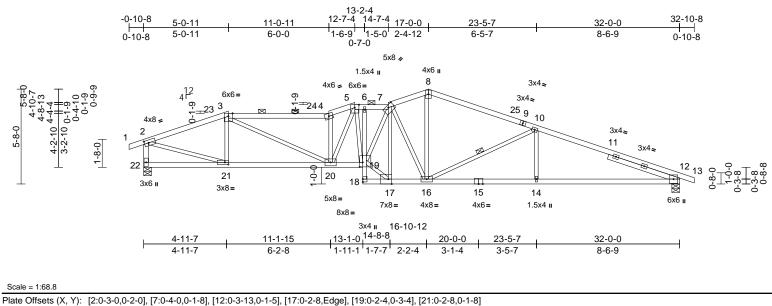
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:8JxkrkfW8IhdHXiODDcX39zbfGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 04/04/2025 5:02:37

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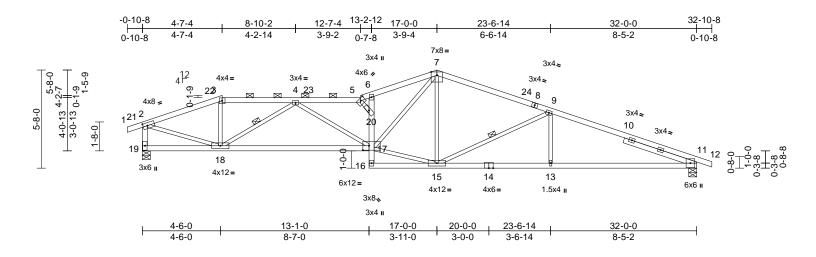
Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.82 0.96	DEFL Vert(LL) Vert(CT)	-0.49	(loc) 19-20 19-20	l/defl >999 >784	L/d 240 180	PLATES MT20	<b>GRIP</b> 197/144
3CLL 0.0	Rep Stress Incr	YES		WB	0.99	Horz(CT)	0.14	12	n/a	n/a		<b>FT</b> 000/
3CDL 10.0	Code	IRC2018	8/TPI2014	Matrix-S							Weight: 155 lb	FI = 20%
SLIDER         Right 2x4 SP No.2           BRACING         Structural wood sheat           COP CHORD         Structural wood sheat           2-2-0 oc purlins, exc         2-0-0 oc purlins, exc           BOT CHORD         Rigid ceiling directly           bracing.         Reactions           REACTIONS         (size)         12–0-5-8,           Max Horiz         22–122 (I           Max Uplift         12=2-77 (I           Max Grav         12=1494 (           FORCES         (lb) - Maximum Com           TOP CHORD         1-2=0/23, 2-3=-2172           4-5=-3605/1013, 5-6         6-7=-3145/896, 7-8=           8-10=-2325/666, 10-         12-13=-5/0, 2-22=-14           30T CHORD         21-22=-32/164, 20-2	t* 6-18:2x3 SPF No.2 pt* 22-2:2x4 SP No.2 4-5-11 athing directly applied cept end verticals, and -10 max.): 3-4, 5-7. applied or 2-2-0 oc 10-16 22=0-5-8 LC 13) LC 9), 22=-308 (LC 8 LC 1), 22=1505 (LC - pression/Maximum /594, 3-4=-3482/969, =-3154/896, -2295/693, 12=-3154/779, 459/498 1=-424/2032, 3-19=0/35, 6-19=0/44 7=-553/2511, 2-14=-648/2878 =-408/1614, 19=-640/2877, 7=-1540/355, 6=-267/1137, 4=0/332, 0=-212/765,	l or d 3) 4) 5) 1) 6) 7) 8)	Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 4 10-0-11, Inte 12-7-4 to 14 (2R) 17-0-0 ti zone; cantile and right exp MWFRS for grip DOL=1.1. Provide aded This truss ha chord live loa All bearings capacity of 5 Provide mec bearing plate joint 22 and 3 This truss is International R802.10.2 au Graphical put	quate drainage to is been designed ad nonconcurren are assumed to b 65 psi. hanical connection capable of withs 277 lb uplift at join designed in acco Residential Cod nd referenced star fin representation ation of the purlin b.	BCDL=6. MW wr(2E) -0-1 terrior(2R) terrior(2R) 4-7-4 to 1 (1) 22-0- exposed mbers an Lumber I prevent v for a 10.0 with any be SP No. on (by oth tstanding 3 nt 12. wrdance w e sections andard AN n does no	opsf; h=35ft; FRS (envelop 0-8 to 4-1-8, 5-0-11 to Exterior(2E) 7-0-0, Exterio 1 to 32-10-8 end vertical d forces & DOL=1.60 pla vater ponding p sf bottom other live loa 2 crushing ers) of truss t 08 lb uplift at th the 2018 R502.11.1 a SI/TPI 1.	or left te J. ds. o			2	PE-2022	ALLE AND ALL

 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 181	
P250279-01	A11	Roof Special	1	1	Job Reference (optional)	165760527

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:8JxkrkfW8IhdHXiODDcX39zbfGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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#### Scale - 1:66 5

	X, Y): [2:0-3-0,0-2-0],	[0.0 0 0,0 1 0], [11.0	5 5 10,0	0], [17.0 + +,0									
oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
LL (roof)	25.0	Plate Grip DOL	1.15		тс	0.95	Vert(LL)	-0.30	20	>999	240	MT20	197/144
DL	10.0	Lumber DOL	1.15		BC	0.96	Vert(CT)		17-18	>640	180		
LL	0.0	Rep Stress Incr	YES		WB	0.69	Horz(CT)	0.15	11	n/a	n/a		
DL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 148 lb	FT = 20%
<b>IBER</b>			2		7-16; Vult=115								
P CHORD	2x4 SP No.2				n; TCDL=6.0ps								
T CHORD	2x4 SP 1650F 1.5E	*Except* 16-14,14-1	1:2x4		t. II; Exp C; En								
	SP No.2		_		and C-C Exte	( )	,						
BS	2x3 SPF No.2 *Exce		2		-1-8 to 4-7-4, E			4,					
DER	Right 2x4 SP No.2	- 4-4-14			·7-4 to 17-0-0, or (1) 22-0-0 to			r loft					
ACING				,	losed ; end ver		,						
P CHORD		athing directly applie	,		for members			r					
		, and 2-0-0 oc purlins	5		own; Lumber D								
	(2-4-7 max.): 3-5.			DOL=1.60	Juni, Lumber D	02-1.00 pi	are grip						
T CHORD	Rigid ceiling directly	applied or 2-2-0 oc	3	<ol> <li>Provide adequate drainage to prevent water ponding.</li> </ol>									
<b>D</b> O	bracing.	4 4 9 9 4 5		<ul> <li>4) This truss has been designed for a 10.0 psf bottom</li> </ul>									
BS		4-18, 9-15			ad nonconcurre			ids.					
	(size) 11=0-5-8,		5		assumed to b								
	Max Horiz 19=-122 (	,		crushing cap	acity of 565 ps	i, Joint 11 S	P No.2 crush	ning					
	Max Uplift 11=-278 ( Max Grav 11=1494			capacity of 5	65 psi. hanical connec	tion (by oth	ore) of truce t						
RCES	(lb) - Maximum Com	pression/Maximum	<i>,</i> 0		capable of wit		,						
	Tension			joint 19 and 2	278 lb uplift at j	oint 11.							
P CHORD	1-2=0/23, 2-3=-2106	,	', 7		designed in ac								
	4-5=-3876/974, 5-6=				Residential Co			and					
	6-7=-3693/971, 7-9=	,			nd referenced								
		-12=-5/0, 2-19=-1478	8/468 8		rlin representa			size					Th
T CHORD	18-19=-36/148, 17-1				ation of the pur	lin along the	top and/or					S OF M	ALC A
	16-17=0/61, 17-20=-			bottom chore							C	ALEUT	N SCIL
	6-20=-238/157, 15-1 13-15=-618/2887, 1		L	OAD CASE(S)	Standard						A	TATE OF M	NSY
BS	3-18=-16/388, 7-17=										A	NATHA	NIEL RY
55	2-18=-423/1962. 7-1										- U	FO	
	2-16=-423/1962, 7-1 15-17=-273/1784, 4-	,									RA		
		3=0/325, 9-15=-884/2	71								<b>7</b>	Alt	1 .
	5-20=-1428/364	-0,020, 0 10- 004/2	,								MI	VIAnta	
TES	0 20- 1720/004										1 WA	V V WWWW	BER 🖉 💋
	d as of Para lands have	been considered for									N2	PE-2022	042259 154

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

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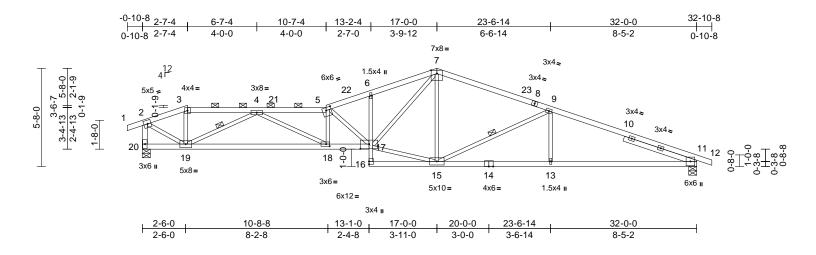
May 22,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A12	Roof Special	1	1	Job Reference (optional)	165760528

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:g7OMdOeuN\_ZmfO7BfW5IXxzbfGv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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#### Scale = 1:66.5

oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.93	Vert(LL)		17-18	>999	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.96	Vert(CT)	-0.62	17-18	>616	180		
CLL	0.0	Rep Stress Incr	YES		WB	0.72	Horz(CT)	0.17	11	n/a	n/a		
CDL	10.0	Code		8/TPI2014	Matrix-S		- (- )					Weight: 146 lb	FT = 20%
JMBER OP CHORD DT CHORD EBS IDER RACING OP CHORD DT CHORD EBS EACTIONS	2x4 SP No.2 2x4 SP No.2 *Excep 1.5E, 6-16:2x3 SPF 2x3 SPF No.2 *Exce Right 2x4 SP No.2 Structural wood she: except end verticals, (2-2-0 max.): 3-5. Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-5-8,	No.2 pt* 20-2:2x4 SP No. 4-4-14 athing directly applie and 2-0-0 oc purlins applied or 2-2-0 oc 4-19, 9-15	, 0F 2 d,	Vasd=91mpl Ke=1.00; Ca exterior zone Exterior(2R) Exterior(2R) 32-10-8 zonv vertical left a forces & MW DOL=1.60 p Provide adee This truss ha chord live log Bearings are	7-16; Vult=115m ; TCDL=6.0psf; I t. II; Exp C; Enclo and C-C Exterio 2-7-4 to 7-7-4, In 7-0-0 to 22-0-0, and right exposed FRS for reactions ate grip DOL=1.6 yate drainage to s been designed d nonconcurrent assumed to be:	CDL=6. Sed; MW r(2E) -0- terior (1) Interior ( nd right e C-C for r s shown; 0 prevent for a 10. with any Joint 20 s	Dpsf; h=35ft; FRS (envelo 10-8 to 2-7-4, 7-7-4 to 17-0 1) 22-0-0 to :xposed ; enc nembers and Lumber water pondin. D psf bottom other live loa SP 1650F 1.5	, , , , , , , , , , , , , , , , , , ,					
	Max Horiz 20=-122 ( Max Uplift 11=-280 ( Max Grav 11=1494 ( (lb) - Maximum Com	LC 9), 20=-308 (LC 8 (LC 1), 20=1505 (LC		capacity of 5 Provide mec bearing plate	hanical connection capable of withs	n (by oth tanding 3	ers) of truss	to					
JILOLO	Tension	pression/maximum	7)		280 lb uplift at joir designed in acco		ith the 2018						
OP CHORD	1-2=0/23, 2-3=-1599 4-5=-4666/1088, 5-6 6-7=-3737/973, 7-9= 9-11=-3162/730, 11-	=-3781/926, -2340/614, 12=-5/0, 2-20=-1517	2, 8)	International R802.10.2 a Graphical pu or the orienta	Residential Code nd referenced sta rlin representatio ation of the purlin	e sections ndard AN n does no	R502.11.1 a ISI/TPI 1. ot depict the s						The
OT CHORD	19-20=-48/127, 18-1 17-18=-935/4641, 16 6-17=-161/126, 15-1 13-15=-603/2886, 1	6=-19/152,	L	bottom choro DAD CASE(S)							A	TATE OF M	1 CAN
EBS DTES	3-19=-14/285, 5-18= 5-17=-1437/301, 7-1 2-19=-368/1728, 7-1 15-17=-377/2062, 4- 4-19=-2233/609, 9-1 d roof live loads have	7=-517/2091, 5=-148/113, 18=-230/1337, 3=0/325, 9-15=-881,									K	PE-20220	BER FR

Unbalanced roof live loads have been considered for this design.

May 22,2024

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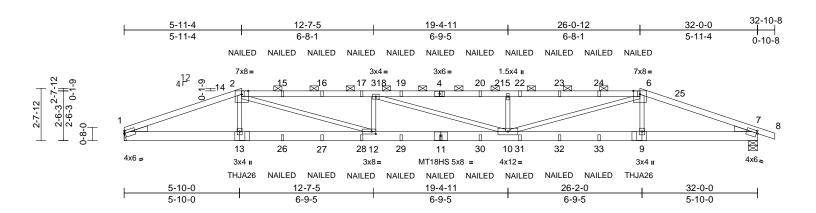
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A13	Hip Girder	1	2	Job Reference (optional)	165760529

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:02 ID:5WIMACiUD2Mhm3xCiduR6AzEAIj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:58.2

#### Plate Offsets (X, Y): [1:0-0-11,0-1-8], [7:0-0-11,0-1-8], [12:0-2-8,0-1-8]

	, , , <b>,</b> , , , , , , , , , , , , , , ,	3) E = = - 3) E	/ -														
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	0.97 0.50 0.71	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 10-12 10-12 7		L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 300 lb	<b>GRIP</b> 244/190 244/190 FT = 20%				
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	TOP CHORD         2x4 SP No.2 *Except* 2-4,4-6:2x4 SP 2400F           2.0E         2.0E           BOT CHORD         2x6 SP 2400F 2.0E           WEBS         2x3 SPF No.2           NEDGE         Left: 2x4 SP No.3           Right: 2x4 SP No.3         3           BRACING         5           TOP CHORD         Structural wood sheathing directly applied or 3-11-4 oc purlins, except 2-0-0 oc purlins (4-2-2 max.): 2-6.				considered equa ed as front (F) or l ction. Ply to ply co distribute only load wise indicated. roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; [ t. II; Exp C; Enclo a and C-C Exterio	back (B) connection ds noted we been oph (3-see BCDL=6. osed; MW	face in the LC is have been as (F) or (B), considered fo cond gust) 0psf; h=35ft; /FRS (envelo	pr pe)	<ul> <li>15) Fill all nail holes where hanger is in contact with lumber of "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-naper NDS guidelines.</li> <li>LOAD CASE(S) Standard</li> <li>1) Dead + Roof Live (balanced): Lumber Increase=1.15 Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-6=-70, 6-8=-70, 1-7=-20 Concentrated Loads (lb) Vert: 2=-131 (F), 4=-131 (F), 11=-39 (F), 13=-420 (F), 6=-131 (F), 9=-420 (F), 15=-131 (F), 16=-131</li> </ul>								
BOT CHORD					Interior (1) 5-0-12 to 5-11-4, Exterior(2R) 5-11-4 to       (F), 6=-131 (F), 9=-420 (F), 15=-131 (F), 16=-131 (F), 20=-131 (F), 20=-39 (F), 20=-39 (F), 20=-39 (F), 31=-39 (F), 32=-39 (F), 33=-39 (F)         Lumber DOL=1.60 plate grip DOL=1.60       20=-39 (F), 33=-39 (F)							20=-131 (F), 22=-131 26=-39 (F), 27=-39					
FORCES	Max Grav 1=2734 (L (lb) - Maximum Com	<i>.</i>	) 5) 6)		quate drainage to MT20 plates unl												
TOP CHORD	Tension 1-2=-7218/2111, 2-3 3-5=-10383/3013, 5- 6-7=-7107/2041, 7-8	, 5-6=-10388/3016,		6=-10388/3016,		=-10388/3016, 0/1	388/3016, 8)	chord live loa Bearings are	as been designed ad nonconcurrent a assumed to be: , pacity of 805 psi.	with any	other live loa						
BOT CHORD	1-13=-1902/6697, 12 10-12=-2965/10495, 7-9=-1831/6566		,	Refer to gird	er(s) for truss to the trunk to the trunk of	on (by oth	ers) of truss t					OF	ALS AL				
WEBS	2-13=-24/685, 2-12= 3-12=-1048/532, 3-1 5-10=-1049/544, 6-1 6-9=-41/699	0=-176/76,	11	<ul> <li>bearing plate capable of withstanding 745 lb uplift at joint 1 and 801 lb uplift at joint 7.</li> <li>11) 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.</li> </ul>					THE NATH A MICH								
NOTES 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:				<ol> <li>Graphical pu or the orienta bottom chore</li> <li>Use Simpson Hand Hip) or</li> </ol>	Irlin representation ation of the purlin	n does no along the A26 (THJ I1-10 fror	ot depict the s top and/or A26 on 2 ply n the left end	, Left			K	PE-2022	BER				

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.

- connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 26-0-6 from the left end to connect truss(es) to front face of bottom chord.

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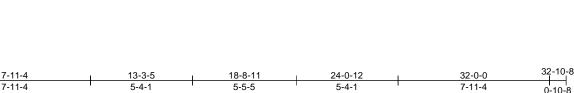
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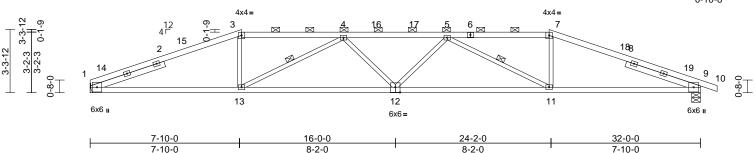
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A14	Нір	1	1	Job Reference (optional)	165760530

7-11-4

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:02 ID:oANjipc5suUgR\_vsnfGoJhzEAIq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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#### Scale = 1:60.4

#### Plate Offsets (X, Y): [1:0-3-0,0-1-5], [9:0-3-13,0-1-5], [12:0-3-0,0-3-4] Loading 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) Spacing (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 тс 0.81 Vert(LL) -0.32 12 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.74 Vert(CT) -0.61 11-12 >629 180 BCLL 0.0 Rep Stress Incr YES WB 0.48 Horz(CT) 0.17 9 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 130 lb FT = 20% LUMBER 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) TOP CHORD Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 2x4 SP 2400F 2.0E \*Except\* 3-6,6-7:2x4 SP Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) No.2 exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, BOT CHORD 2x4 SP 1650F 1.5E Interior (1) 5-0-0 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, 2x3 SPF No 2 WFBS Interior (1) 15-0-2 to 24-0-12, Exterior(2R) 24-0-12 to SLIDER Left 2x4 SP No.2 -- 4-1-2, Right 2x4 SP No.2 31-1-10, Interior (1) 31-1-10 to 32-10-8 zone; cantilever -- 4-1-2 BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins, except						
	2-0-0 oc purlins (2-5-10 max.): 3-7.						
BOT CHORD	Rigid ceiling directly applied or 7-4-5 oc						
	bracing.						
WEBS	1 Row at midpt 4-13, 5-11						
REACTIONS	(size) 1= Mechanical, 9=0-5-8						
	Max Horiz 1=57 (LC 16)						
	Max Uplift 1=-299 (LC 8), 9=-340 (LC 9)						
	Max Grav 1=1439 (LC 1), 9=1502 (LC 1)						
FORCES	(lb) - Maximum Compression/Maximum						
	Tension						
TOP CHORD	1-3=-3244/833, 3-4=-2945/826,						
	4-5=-3980/1026, 5-7=-2938/801,						
	7-9=-3240/810, 9-10=-5/0						
BOT CHORD	1-13=-682/2967, 11-13=-951/3908,						
	9-11=-664/2962						
WEBS	3-13=-51/733, 7-11=-53/735, 4-12=0/225,						
	4-13=-1225/322, 5-12=0/219,						
	5-11=-1235/325						

#### NOTES

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

left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

- 4) All plates are 3x4 MT20 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 9 SP 1650F 1.5E 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 299 lb uplift at joint 1 and 340 lb uplift at joint 9.

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

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

LOAD CASE(S) Standard



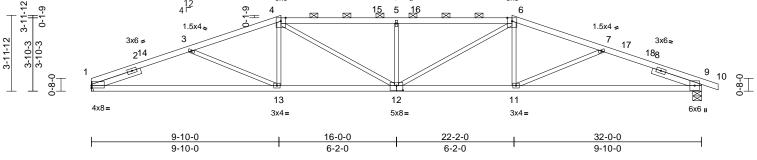
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a trust system. Before use, 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 181	
P250279-01	A15	Нір	1	1	Job Reference (optional)	165760531

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:02 ID:oANjipc5suUgR\_vsnfGoJhzEAIq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

32-10-8 5-2-15 9-11-4 16-0-0 22-0-12 26-9-1 32-0-0 5-2-15 4-8-5 6-0-12 6-0-12 4-8-5 5-2-15 0-10-8 1.5x4 u 6x6= 6x6= 412 4



#### Scale = 1:60.4

Leading TCLL (roof)         (psf) 25.0 End CDL         Spacing 12.0 (participation)         20-0 1.15         CSI TC         0.07         Ver(TL) Ver(TL)         0.02.7         112 12         >999         240 MT20         244/190           BCLL         0.0         Lumber DOL         1.15         BC         0.72         Ver(TC)         0.57         1.13         999         240         MT20         244/190           BCDL         10.0         Code         IRC2018/TPI2014         Matrix-S         BER         0.14         9         n/a         n/a         Weight: 134 lb         FT = 20%           LUMBER TOP CHORD         2x4 SP 1650F 1.5E MESS         2.3 SPF No.2         2.5 SPF No.2         2.0 SPF No.2         2.0 SPF No.2         2.0 SPF No.2         2.0 SPF No.2         1.16 in fight exposed : end verical left and right exposed C-C Dir merbers and Dices & MWFRS for reaction shown: Lumber DOL=1.60 plate grip DOL=1.60         1.3 SPF No.2         2.9 -1.10, Interior (1) 2.9 -1.01 to 21.160 plate grip DOL=1.60         1.5 SE         Second guit a dright exposed for threaber and right exposed C-C Dir merbers and Dices & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60         1.4 Mechanical, 9-0-5-8         1.15 SE         Second guit a dright exposed for threaber and right exposed C-C Dir merbers and Dices & AMVFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60         1.5 SE         Searin fight exposed for threaber and right exposed for th	Plate Offsets (2	X, Y): [1:Edge,0-1-8],	, [9:0-3-13,0-1-5], [12:	0-4-0,0-3	-0]	-								
TOP CHORD2x4 SP No.2 *Except* 1-4:2x4 SP 1650F 1.5EVasd=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(2R) 9-11-4 to 17-0-2, Interior (1) 5-0-9 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 5-0-9 to 9-11-4, Exterior(2R) 22-0-12 to 2-2-8-8BRACING TOP CHORDStructural wood sheathing directly applied, except 2-0-0 oc purtins (2-2-0 max.): 4-6.Interior (1) 7-0-2 to 22-0-12, Exterior(2R) 22-0-12 to 29-1-10, Interior (1) 29-1-10 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60BOT CHORDStructural wood sheathing directly applied, except 2-0-0 oc purtins (2-2-0 max.): 4-6.OL-1.60BOT CHORDStructural wood sheathing directly applied, except 2-0-0 oc purtins (2-2-0 max.): 4-6.OL-1.60BOT CHORDStructural wood sheathing directly applied, except 2-0-0 oc purtins (2-2-0 max.): 4-6.OL-1.60BOT CHORD13-8-0306/966, 6-7-3206//91, 7-9-3198/925, 9-10=-5/0Refer to girdef(s) for trusts to trusts connections.FORCES(b) - Maximum Compression/Maximum Tension1-13-8/98/925, 9-10=-5/0TOP CHORD1-3-8-3206/923, 3-4-2970/801, 4-5-3306/966, 6-7-3-2960/791, 7-9-3198/925, 9-10=-5/0Nit runs is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	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	0.72	Vert(LL) Vert(CT)	-0.27 -0.57	12 1-13	>999 >674	240 180	MT20	
FORCES       (lb) - Maximum Compression/Maximum Tension       bearing plate capable of withstanding 290 lb uplift at joint 1 and 331 lb uplift at joint 9.         TOP CHORD       1-3=-3205/923, 3-4=-2970/801, 4-5=-3306/966, 5-6=-3306/966, 6-7=-2966/791, 7-9=-3198/925, 9-10=-5/0       8)       This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.         ROT CHORD       1-13=-802/9010.11-13=-618/2790       0)	TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	1.5E 2x4 SP 1650F 1.5E 2x3 SPF No.2 Left 2x4 SP No.2 	2-8-8, Right 2x4 SP N athing directly applied 2-0 max.): 4-6. • applied or 7-10-7 oc anical, 9=0-5-8 16) .C 8), 9=-331 (LC 9)	1, 3) 4) 5) 6)	Vasd=91mpł Ke=1.00; Ca exterior zone Interior (1) 5- Interior (1) 1: 29-1-10, Inte left and right exposed;C-C reactions sho DOL=1.60 Provide adec This truss ha chord live loa Bearings are crushing cap Refer to gird	n; TCDL=6.0p; t. II; Exp C; Er and C-C Exte -0-9 to 9-11-4, -7-0-2 to 22-0 rior (1) 29-1-1 exposed ; end C for members pown; Lumber I quate drainage is been design ad nonconcurr assumed to b accity of 565 p; er(s) for truss	sf; BCDL=6. hclosed; MW prior(2E) 0-0- Exterior(2R) 12, Exterior(2 0 to 32-10-8 d vertical left and forces & DOL=1.60 pla e to prevent viel hed for a 10.0 ent with any vie: , Joint 9 S si.	Dpsf; h=35ft; FRS (envelc -0 to 5-0-9, ) 9-11-4 to 1' Zone; cantill and right & MWFRS fc ate grip water pondin 0 psf bottom other live log SP 1650F 1.5 nections.	ope) 7-0-2, to ever or ng. ads. 5E					
TOP CHORD         1-3=-3205/923, 3-4=-2970/801, 4-5=-3306/966, 5-6=-3306/966, 6-7=-2966/791, 7=-3198/925, 9-10=-5/0         8)         This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R602.10.2 and referenced standard ANSI/TPI 1.           BOT CHORD         1+13=-802/2010         11±13=-618/2790         0	FORCES		pression/Maximum	.,	bearing plate	capable of w	ithstanding 2							
9-11=-800/2502         or the orientation of the purlin along the top and/or           WEBS         4-13=0/344, 4-12=-224/752, 5-12=-533/261, 6-12=-225/755, 6-11=0/343, 3-13=-154/232, 7-11=-149/229         or the orientation of the purlin along the top and/or           bottom chord.         bottom chord.         bottom chord.         bottom chord.		4-5=-3306/966, 5-6= 6-7=-2966/791, 7-9= 1-13=-802/2910, 11	=-3306/966, =-3198/925, 9-10=-5/0	-,	This truss is International R802.10.2 ar Graphical pu	designed in a Residential C nd referenced rlin representa	ccordance wi ode sections standard AN ation does no	R502.11.1 a ISI/TPI 1. ot depict the						m
NOTES Des		4-13=0/344, 4-12=-2 6-12=-225/755, 6-11		ົ	bottom chord	i	rlin along the	e top and/or				A	STATE OF M	MISSOUR

 Unbalanced roof live loads have been considered for this design. NATHANIEL FOX PE-2022042259 Fe-SSIONAL ENGINE May 22,2024

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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A16	Нір	1	1	Job Reference (optional)	165760532

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:02 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

32-10-8 6-0-14 11-11-4 16-0-0 20-0-12 25-11-2 32-0-0 6-0-14 5-10-6 4-0-12 4-0-12 5-10-6 6-0-14 0-10-8 4x6= 3x4= 4x6= 412 4 17 ⊠18 0-1-9 4-7-12 4 5 6 ၐ æ 3x4 = 3x4 -3x4 = 3 7 4-7-12 3x4 **≠** 16 <sup>19</sup> 20 3x4 🕿 4-6-3 4-6-3 2 8 3x4 🚽 10 9 0-8-0 Ð 10 0-8-0 П ₿ 15 14 13 12 11 6x6 II 6x6 II 1.5x4 🛚 3x8= 4x6= 3x8= 1.5x4 🛛 6-0-14 11-10-0 20-2-0 25-11-2 32-0-0 6-0-14 5-9-2 8-4-0 5-9-2 6-0-14

#### Scale = 1:60.5

	, 1). [1.0-3-0,0-1-3],	[9.0-5-13,0-1-5]					-						
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	0.68	- ( )	-0.23	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.87	Vert(CT)	-0.51	12-14	>757	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.47	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%
LUMBER			2	) Wind: ASCE	7-16; Vult=115m	ph (3-se	cond aust)						
TOP CHORD	2x4 SP 1650F 1.5E	*Except* 4-6:2x4 SP		Vasd=91mp	h; TCDL=6.0psf; E	BCDL=6.	0psf; h=35ft;						
	No.2				it. II; Exp C; Enclo			pe)					
BOT CHORD	2x4 SP No.2				and C-C Exterio								
WEBS	2x3 SPF No.2				-0-0 to 11-11-4, E ior (1) 19-0-2 to 2								
SLIDER	Left 2x4 SP No.2 3 3-2-0	3-2-0, Right 2x4 SP I	No.2		7-1-10, Interior (1)			one:					
BRACING	3-2-0				ft and right expose								
TOP CHORD	Structural wood she	athing directly applie	dor		d;C-C for member								
	2-10-9 oc purlins, ex		u ui		shown; Lumber [	DOL=1.6	) plate grip						
	2-0-0 oc purlins (3-6			DOL=1.60									
BOT CHORD	Rigid ceiling directly		3		quate drainage to			g.					
	bracing.		4		as been designed			de					
REACTIONS	(size) 1= Mecha	anical, 9=0-5-8	5		ad nonconcurrent assumed to be:								
	Max Horiz 1=82 (LC		5	capacity of 5		, 50111 5 1	51 110.2 Clusi	illing					
	Max Uplift 1=-279 (L	,, , , ,	6		er(s) for truss to t	russ coni	nections.						
	Max Grav 1=1439 (I	,, , , ,	7		hanical connectio			to					
FORCES	(Ib) - Maximum Com	pression/Maximum			e capable of withs		279 lb uplift at	t					
	Tension	0750/700			20 lb uplift at joint								
TOP CHORD	1-3=-3281/886, 3-4= 4-5=-2559/778, 5-6=		8		designed in acco								
	6-7=-2745/790, 7-9=		0		Residential Code nd referenced sta			and					
BOT CHORD	1-15=-768/2983, 14	,	9		Ind representation			size					
	12-14=-665/2722, 1		3		ation of the purlin			5126				and	TOP
	9-11=-771/2974			bottom chore								A OF I	MIS.
WEBS	,	490/221, 4-14=-88/49	· L	OAD CASE(S)	Standard						1	950	W.Oo
		-482/219, 7-11=0/20	)8,	( )							8	STATE OF M	NIET X
	5-12=-407/153, 5-14	1=-405/152									B		
NOTES											R.		
,	ed roof live loads have	been considered for									2		1 428
this desigr	1.											h / Kanada	160
											3	KX 4 MINUM	BER V



May 22,2024

PE-2022042259

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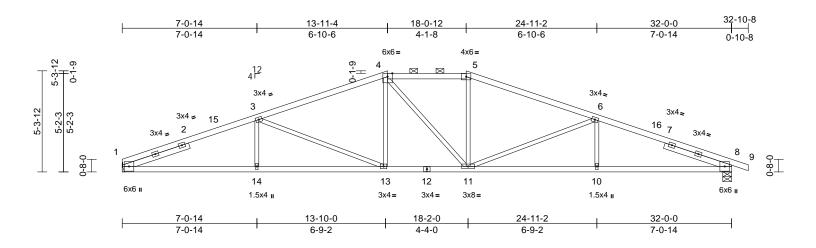
Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A17	Нір	1	1	Job Reference (optional)	165760533

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:02 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:60.5

Plate Offsets (X, Y): [1:0-3-0,0-1-5], [8:0-3-13,0-1-5]

						-							
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	0.79	Vert(LL)	-0.22		>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.86	Vert(CT)	-0.44	13-14	>881	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.99	Horz(CT)	0.15	8	n/a	n/a		FT 000/
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-						Weight: 138 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	No.2 2x4 SP No.2	*Except* 4-5:2x4 SP	2)	Vasd=91mp Ke=1.00; Ca exterior zone	7-16; Vult=115m h; TCDL=6.0psf; I tt. II; Exp C; Enclo and C-C Exterio -0-0 to 13-11-4, E	BCDL=6. osed; MW or(2E) 0-0	0psf; h=35ft; FRS (envelo -0 to 5-0-0,	, ,					
WEBS SLIDER	2x3 SPF No.2 Left 2x4 SP No.2 3-8-5	3-8-5, Right 2x4 SP N	lo.2	18-0-12, Éxt 24-11-2 to 3	erior(2R) 18-0-12 2-10-8 zone; cant	to 24-11 tilever left	2, Interior (1) and right	)					
BRACING					nd vertical left and								
TOP CHORD	2-2-0 oc purlins, exc 2-0-0 oc purlins (3-7 Rigid ceiling directly		d or 3) 4) 5)	Lumber DOI Provide ade All plates are	Id forces & MWFF _=1.60 plate grip I quate drainage to a 3x4 MT20 unles as been designed	DOL=1.60 prevent ss otherwi	) water ponding se indicated.						
	bracing.		0)		ad nonconcurrent			ids.					
REACTIONS	(size) 1= Mecha Max Horiz 1=95 (LC	nical, 8=0-5-8	6)		e assumed to be:								
	Max Holiz 1=95 (LC Max Uplift 1=-267 (L Max Grav 1=1439 (L	C 8), 8=-308 (LC 9)	7) 8)		65 psi. ler(s) for truss to t chanical connectio			-					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	0)	bearing plate	e capable of withs 08 lb uplift at joint	standing 2							
TOP CHORD	1-3=-3263/851, 3-4= 4-5=-2323/745, 5-6= 6-8=-3256/862, 8-9=	-2525/739,	9)	This truss is International	designed in acco Residential Code nd referenced sta	ordance w e sections	R502.11.1 a	and					
BOT CHORD	1-14=-718/2986, 13 11-13=-498/2322, 10 8-10=-737/2978		10	0) Graphical pu	urlin representatio ation of the purlin	on does no	ot depict the	size				OF N	Also
WEBS	3-14=0/292, 3-13=-7	754/257, 4-13=-34/39 =-46/386, 6-11=-746	· L	OAD CASE(S)							A	STATE OF M	NIEL
NOTES											-a .	FO	x

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



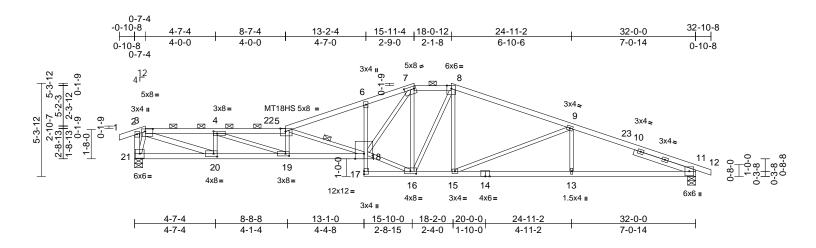
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	A18	Roof Special	1	1	Job Reference (optional)	165760534

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:03 ID:kZUT7VeLOWkOgI3Fv4IGP6zEAIo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:65.7

late Offsets ()	K, Y): [3:0-5-4,0-1-12	2], [4:0-2-8,0-1-8], [5:	:0-3-8,0-2-	0], [7:0-6-12,0-	·1-12], [11:0-3-1:	3,0-1-5], [1	6:0-4-0,0-1-1	2], [19:0	-2-8,0-1	-8], [20:0	0-2-8,0	-2-0]	
oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.76	Vert(LL)		18-19	>853	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.85	Vert(CT)		18-19	>468	180	MT18HS	197/144
CLL	0.0	Rep Stress Incr	YES		WB	1.00	Horz(CT)	0.17	11	n/a	n/a		<b>FT</b> 000/
CDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%
JMBER			1)		roof live loads h	ave been o	considered fo	or					
OP CHORD	2x4 SP No.2 *Excep	ot* 3-5,8-12:2x4 SP	2)	this design.	7-16; Vult=115	mph (2 cor	and quet)						
OT CHORD	1650F 1.5E 2x4 SP No.2 *Excep	+* 21 10·2v1 CD 21	,		h; TCDL=6.0psf								
ST CHORD	2.0E, 6-17:2x3 SPF		501		at. II; Exp C; Enc			pe)					
'EBS	2x3 SPF No.2 *Exce		50F		e and C-C Exter			, ,					
	1.5E, 20-3:2x4 SP N				-8-2 to 15-11-4,								
IDER	Right 2x4 SP No.2 -	- 3-8-5			erior(2R) 18-0-1			)					
RACING					2-10-8 zone; ca		0						
OP CHORD	Structural wood she				nd vertical left ar nd forces & MWF								
	2-2-0 oc purlins, ex		ind		_=1.60 plate grip			',					
OT CHORD	2-0-0 oc purlins (2-5		. 3)		quate drainage f			a.					
	Rigid ceiling directly bracing.	applied of 6-11-2 0	4)		e MT20 plates u								
EBS	1 Row at midpt	5-18	5)		as been designe								
		, 21=0-5-8			ad nonconcurre								
	Max Horiz 21=-114 (		6)		e assumed to be								
	Max Uplift 11=-291 (		8)	crushing cap capacity of 5	pacity of 805 psi	, Joint 11 S	P No.2 crush	ning					
	Max Grav 11=1494	(LC 1), 21=1505 (LC	C1) 7)		chanical connect	ion (by oth	ere) of truss t	'n					
ORCES	(lb) - Maximum Com	npression/Maximum	')		e capable of with								
	Tension				316 lb uplift at jo								
OP CHORD	1-2=0/23, 2-3=-90/5		8)		designed in acc								
	4-5=-5859/1522, 5-6 6-7=-3763/1061, 7-8	,			Residential Co			and				000	The
	8-9=-2506/712, 9-11		=-5/0, 9)		nd referenced s							S. OF M	ALC. D
	2-21=-159/112	1= 020+/007, 11 12-	- 5/0, 9)		urlin representati ation of the purli			size				BIE	N.O.Sem
OT CHORD	20-21=-70/466, 19-2	20=-921/3827,		bottom chor		in along the	top and/or				6	TATE OF M	NS
	18-19=-1382/5809,		1.0	DAD CASE(S)							B	S/ NATHA	NIEL / C> Y
	6-18=-192/164, 16-1	17=-31/104,	_	0/10 0/102(0)	otandara					_	R	FO	X V
	15-16=-495/2305, 1	3-15=-714/2957,									an		1 a T
	11-13=-714/2957	0004/040									XI		
EBS	5-19=-683/257, 5-18										/WA	NU WRALL	ER SVD
	16-18=-482/2332, 7 7-16=-816/216, 8-16									· · · · · ·	VY 7	PE-2022	
	8-15=-30/395, 9-15=		88.								N	-2022	223728
	4-19=-562/2151, 4-2		,								Y	1000	JON B
	3-20=-973/3591, 3-2											C'SSIONA	LETA
DTES												A ANA	- CO

#### May 22,2024

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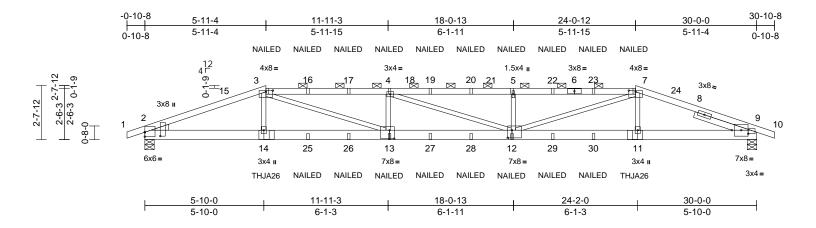
ION DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 04/04/2025 5:02:37



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	B1	Hip Girder	1	2	Job Reference (optional)	165760535

Run: 8,63 S Apr 26 2024 Print: 8,630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:03 ID:kZUT7VeLOWkOgI3Fv4IGP6zEAIo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:56.5

Plate Offsets (	(X, Y): [2:Edge,0-2-10	1 [2:0-2-5 0-9-1] [3:	0-4-0 0-0	12] [7:0-4-0.0	-0-12] [9:0-1-9.0	-3-8] [9:0-	9-10 0-2-21 [	12.0-2-8	0-4-81	[13:0-2-	12 0-5-	-01	
	(/(, 1): [2:2090,0 2 10	], [2.0 2 0,0 0 1], [0.		12], [1.0 1 0,0	1	0 0], [0:0	0 10,0 2 2j, [	12.0 2 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[10.0 2	12,0 0	0]	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.93	Vert(LL)		12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.97	Vert(CT)		12-13	>584	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.63	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S	-						Weight: 264 lb	FT = 20%
LUMBER			2	) All loads ar	e considered equ	allv applie	d to all plies.		14) "NA	AILED" ir	ndicate	s Girder: 3-10d	(0.148" x 3") toe-nail:
TOP CHORD	2x4 SP 2400F 2.0E				ted as front (F) o			DAD		NDS gu			· · · ·
BOT CHORD		ept* 13-12:2x6 SP 24	100F	CASE(S) se	ection. Ply to ply o	connection	s have been		LOAD	CASE(S	) Sta	ndard	
	2.0E			provided to	distribute only loa	ads noted	as (F) or (B),						mber Increase=1.15,
WEBS	2x3 SPF No.2				rwise indicated.					ate Incre			
WEDGE	Left: 2x4 SP No.2		3		I roof live loads h	ave been	considered fo	r	U	niform Lo	oads (I	b/ft)	
SLIDER	Right 2x4 SP No.2 -	- 2-10-6		this design.						Vert: 1-	3=-70,	3-7=-70, 7-10=-	70, 2-9=-20
BRACING			4		E 7-16; Vult=115r				C	oncentra	ted Lo	ads (lb)	
TOP CHORD	Structural wood she	athing directly applie	ed or		h; TCDL=6.0psf;					Vert: 3=	-131 (	B), 14=-420 (B),	11=-420 (B), 7=-131
	5-0-13 oc purlins, ex	kcept			at. II; Exp C; Encl			be)					=-131 (B), 5=-131 (B),
	2-0-0 oc purlins (4-1	-1 max.): 3-7.			e and C-C Exteri			0.2			· //	( ),	-131 (B), 20=-131 (B)
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	<b>b</b>	Interior (1) 4-1-8 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 24-0-12, Exterior(2E) 24-0-12 to 22=-131 (B), 23=-131 (B), 25=-39 (B), 26=-39									
	bracing.			30-10-8 zone; cantilever left and right exposed ; end 27=-39 (B), 28=-39 (B), 29=-39 (B), 30=-39 (B)									
REACTIONS					and right exposed								
	Max Horiz 2=-42 (LC	,			VFRS for reaction								
	Max Uplift 2=-749 (L				late grip DOL=1.								
	Max Grav 2=2637 (I	LC 1), 9=2637 (LC 1	) 5		quate drainage to		water ponding	J.					
FORCES	(lb) - Maximum Corr	pression/Maximum	6	) This truss h	as been designed	d for a 10.	) psf bottom	, ,					
	Tension			chord live lo	ad nonconcurrer	nt with any	other live loa	ds.					
TOP CHORD	,	,	08, 7	) All bearings	are assumed to	be SPF N	o.2 crushing						
	4-5=-9201/2689, 5-7			capacity of									
	7-9=-6378/1849, 9-1		8		chanical connecti								
BOT CHORD		1-14=-2571/9158,			e capable of with		'49 lb uplift at						an
	9-11=-1654/5916	0/550 0 40 000/0			749 lb uplift at joir							6 OF	MIG
WEBS	3-14=-34/652, 7-11=		464, g		designed in acc							ALEUT	MISSO
	7-12=-1015/3644, 4	,			I Residential Coc			nd			A	ATE OF	N.S.
	4-12=-41/103, 5-12=	=-1021/516			and referenced st						A	S NATH	ANIEL P.V.
NOTES			I		urlin representation of the purlir			size		5	-U.	FC	
	s to be connected toge	ther with 10d		bottom cho		r along the	lop and/or				<b>WA</b>	A	
	") nails as follows: is connected as follows		0 1		on Strong-Tie TH	IA26 (TH	A26 on 2 ply				KF	The .	
	as connected as 10110W	0 1		Hip) or equivaler						M.	VINAN	N SIL	
oc. Bottom chords connected as follows: 2x6 - 2 rows					ect truss(es) to b					/	W.	y will	CER C
staggered at 0-9-0 oc.					on Strong-Tie TH.						N	ON PE-2022	2042259
	nected as follows: 2x3 -	1 row at 0-9-0 oc									N	The second	124
WED COUL	iecieu as iuliuws. 283 ·	- 1 10W at 0-9-0 0C.		Hand Hip) or equivalent at 24-0-6 from the left end to							Y	100	IN A

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



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May 22,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	B2	Нір	1	1	Job Reference (optional)	165760536

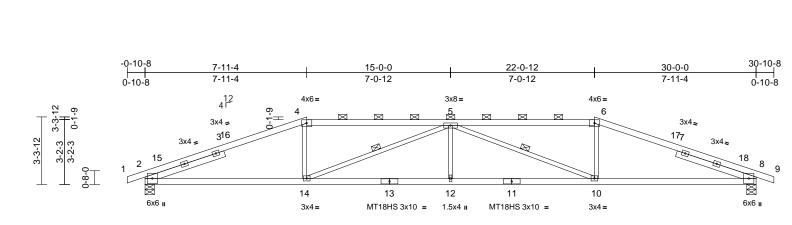
7-10-0

7-10-0

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:03 ID:DI2rKrez9psFISeRTnqVxKzEAIn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

22-2-0

7-2-0



15-0-0

7-2-0

Scale = 1:56.6

Plate Offsets (2	X, Y): [2:0-3-13,0-1-5	], [8:0-3-13,0-1-5]										
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	0.99	Vert(LL)	-0.27	12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.51	12-14	>708	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER												
BRACING			0	left and right exposed ; end vertical left and right								

TOP CHORD	Structural wood sheathing directly applied, except
	2-0-0 oc purlins (3-5-2 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc
BOT CHOILD	bracing.
WEBS	1 Row at midpt 5-14, 5-10
REACTIONS	(size) 2=0-5-8, 8=0-5-8
	Max Horiz 2=-54 (LC 17)
	Max Uplift 2=-319 (LC 8), 8=-319 (LC 9)
	Max Grav 2=1411 (LC 1), 8=1411 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-5/0, 2-4=-2989/766, 4-5=-2711/762,
	5-6=-2711/762, 6-8=-2989/766, 8-9=-5/0
BOT CHORD	2-14=-617/2727, 12-14=-858/3631,
	10-12=-858/3631, 8-10=-624/2727
WEBS	4-14=-12/586, 5-14=-1170/284, 5-12=0/269

NOTES

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

5-10=-1170/283, 6-10=-12/586

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.

- 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) All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.

Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 319 lb uplift at joint 2 and 319 lb uplift at joint 8.

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

Graphical purlin representation does not depict the size 9) or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

3)



30-0-0

7-10-0

Page: 1

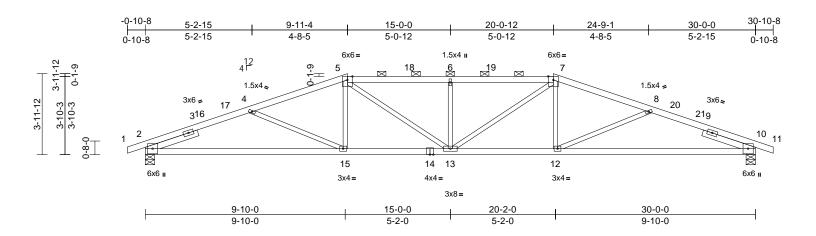
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	B3	Нір	1	1	Job Reference (optional)	165760537

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:03 ID:DI2rKrez9psFISeRTnqVxKzEAIn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.6

ading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
LL (roof)	25.0	Plate Grip DOL	1.15		тс	0.85	Vert(LL)	-0.25	2-15	>999	240	MT20	197/144
DL	10.0	Lumber DOL	1.15		BC	0.69	Vert(CT)	-0.54	2-15	>661	180		
LL	0.0	Rep Stress Incr	YES		WB	0.20	Horz(CT)	0.12	10	n/a	n/a		
DL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%
MBER			2)	Wind: ASCE	7-16; Vult=115r	nph (3-sec	ond gust)						
P CHORD	2x4 SP No.2		,	Vasd=91mpl	n; TCDL=6.0psf;	BCDL=6.0	)psf; h=35ft;						
T CHORD	2x4 SP 1650F 1.5E			Ke=1.00; Ca	t. II; Exp C; Enc	losed; MW	FRS (envelo	pe)					
BS	2x3 SPF No.2			exterior zone	and C-C Exteri	or(2E) -0-1	0-8 to 4-1-8,						
IDER	Left 2x4 SP No.2 2	2-8-8, Right 2x4 SP	No.2		-1-8 to 9-11-4, E								
	2-8-8				7-0-2 to 20-0-12								
ACING				,	rior (1) 27-1-10		,	ever					
P CHORD	Structural wood shea	athing directly applie	ed or	left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for									
	2-2-0 oc purlins, exc	ept						r					
	2-0-0 oc purlins (3-1	-0 max.): 5-7.			own; Lumber DC	DL=1.60 pla	ate grip						
T CHORD	Rigid ceiling directly	applied or 8-0-15 or	с <sub>о</sub>	DOL=1.60		4 -		-					
	bracing.		3)		quate drainage t			g.					
ACTIONS	(size) 2=0-5-8, 1	0=0-5-8	4)		is been designe			da					
1	Max Horiz 2=-67 (LC	: 17)	5)		ad nonconcurrer are assumed to								
1	Max Uplift 2=-310 (L	C 8), 10=-310 (LC 9	) 5)	capacity of 5		De SF 100	OF 1.5E CIUS	sning					
1	Max Grav 2=1411 (L	C 1), 10=1411 (LC	1) 6)		hanical connecti	ion (by oth	are) of truce	to					
RCES	(lb) - Maximum Com	pression/Maximum	, U)		capable of with								
	Tension				10 lb uplift at joir								
P CHORD	1-2=-5/0, 2-4=-2965/	/876. 4-5=-2701/736	j. 7)		designed in acc		th the 2018						
	5-6=-2880/867, 6-7=		, ,		Residential Coc			and					
	7-8=-2701/736, 8-10		-5/0		nd referenced st								
T CHORD	2-15=-759/2687, 13-		8)		rlin representati			size					
	12-13=-564/2532, 10		0)		ation of the purli								
BS	5-15=0/351, 5-13=-1		227,	bottom chore								and	alle
	7-13=-188/570, 7-12	=0/351, 4-15=-194/2	230, 10	DAD CASE(S)								THE OF M	Alson
	8-12=-194/231		_									1 60	

#### NOTES

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

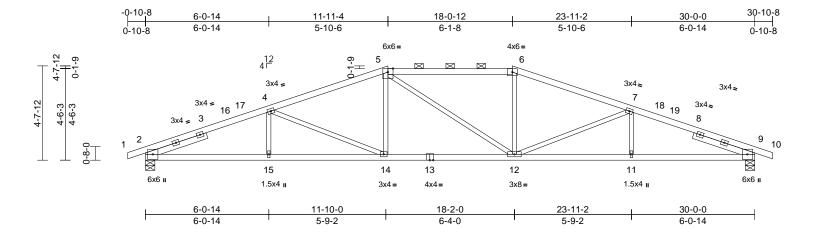


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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	B4	Нір	1	1	Job Reference (optional)	165760538

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:04 ID:hxcEYAfbw7\_6vcDd0VLkUXzEAIm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:56.7

Plate Offsets	(X. Y	'):	[2:0-3-13,0-1-5],	[9:0-3-13.0-1-5]

		1					-						
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.95	Vert(LL)	-0.20	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.78	Vert(CT)	-0.38	12-14	>945	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.50	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%
LUMBER			2	Wind: ASCE	7-16; Vult=115m	nh (3-sec	cond aust)						
TOP CHORD	2x4 SP No.2		-		h; TCDL=6.0psf; E								
BOT CHORD	2x4 SP No.2				at. II; Exp C; Enclo			be)					
WEBS	2x3 SPF No.2				e and C-C Exterio			- /					
SLIDER	Left 2x4 SP No.2 3	3-2-0 Right 2x4 SP	No 2		-1-8 to 11-11-4, E								
02.02.1	3-2-0	5 2 0, Hight 2x1 0		18-0-12, Éxt	erior(2R) 18-0-12	to 25-1-1	0, Interior (1)						
BRACING				25-1-10 to 3	0-10-8 zone; cant	ilever left	and right						
TOP CHORD	Structural wood she	athing directly applie	he		nd vertical left and								
	except	at mig anoony applie	, a,	members ar	nd forces & MWFR	RS for rea	ctions shown	;					
	2-0-0 oc purlins (2-2	-0 max ): 5-6		Lumber DOI	_=1.60 plate grip [	DOL=1.6	)						
BOT CHORD	Rigid ceiling directly		3		quate drainage to			J.					
	bracing.		4		as been designed								
REACTIONS	(size) 2=0-5-8, 9	9=0-5-8			ad nonconcurrent			ds.					
	Max Horiz 2=79 (LC		5		are assumed to b	e SP No.	2 crushing						
	Max Uplift 2=-298 (L	,	_	capacity of 5									
	Max Grav 2=1411 (L		6		chanical connectio								
FORCES	(lb) - Maximum Com	,, (	/		e capable of withs		98 ib uplift at						
FUNCES	Tension	ipression/maximum	7		98 lb uplift at joint		:+h +h = 0010						
TOP CHORD	1-2=-5/0, 2-4=-3028	/823 4-52489/736	. /		designed in account Residential Code			nd					
	5-6=-2306/761, 6-7=		',		ind referenced sta			nu					
	7-9=-3027/850, 9-10		8		urlin representation			ize					
BOT CHORD	2-15=-709/2752, 14		0		ation of the purlin			120					
	12-14=-535/2305, 1	,		bottom chor		along the							
	9-11=-731/2752			OAD CASE(S)								2000	alle
WEBS	4-15=0/228, 4-14=-5	517/211, 5-14=-9/36	5, <b>∟</b>		Stanuaru							A OF M	Alson
	5-12=-221/222, 6-12	,										4 SE	N.0°
	7-12=-517/212, 7-11	=0/227									A	STATE OF M	Nes /
NOTES											H	S/ NATHA	NIEL / C V
	<b></b>	h									a	FO:	X \

 Unbalanced roof live loads have been considered for this design.



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Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	C1	Hip Girder	1	1	Job Reference (optional)	165760539

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

1)

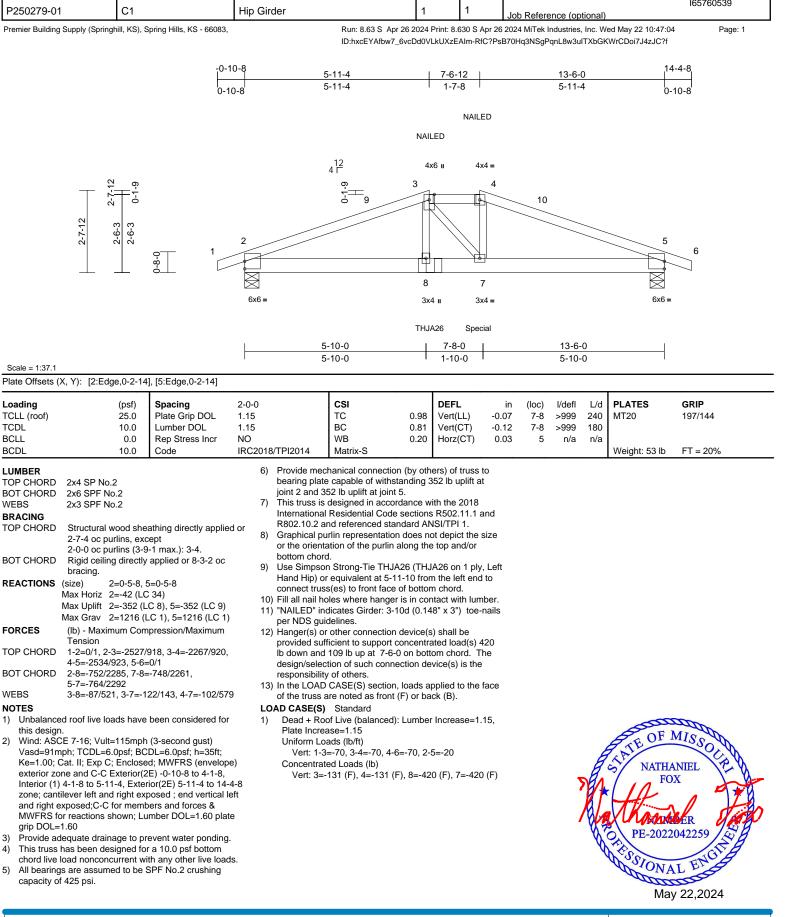
2)

3)

4)

5)

NOTES



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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	C2	Common	1	1	Job Reference (optional)	165760540

1)

2)

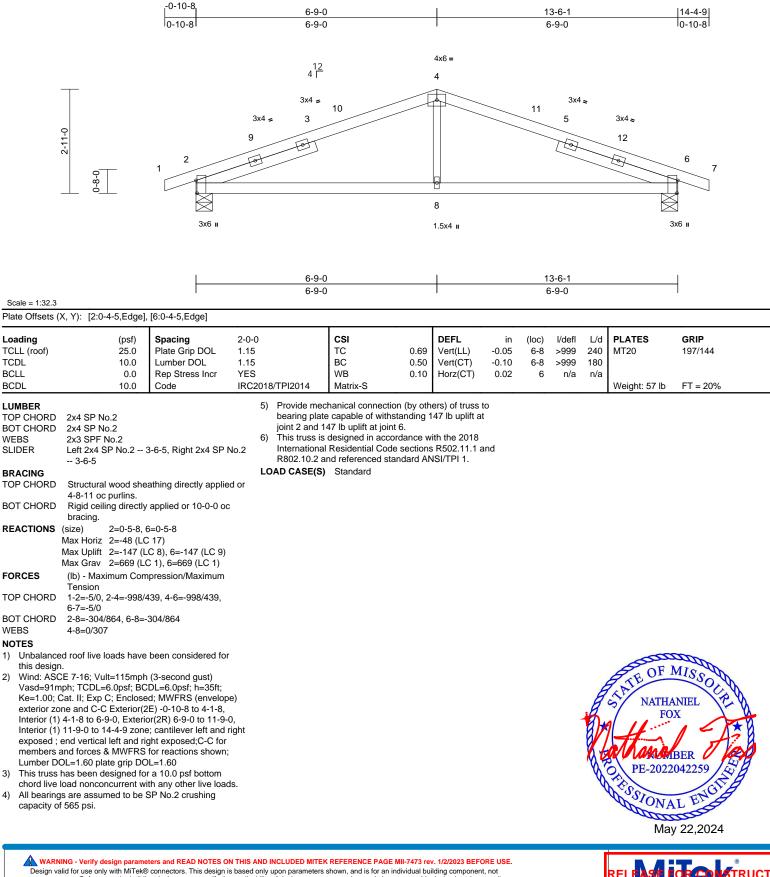
3)

4)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 ID:CgIZsEQccSIKVdlkckm4o8zbfHB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



**DEVELOPMEN** SERVICES LEE'S'SUMMIT'SMISSOURI 04/04/2025 5:02:38

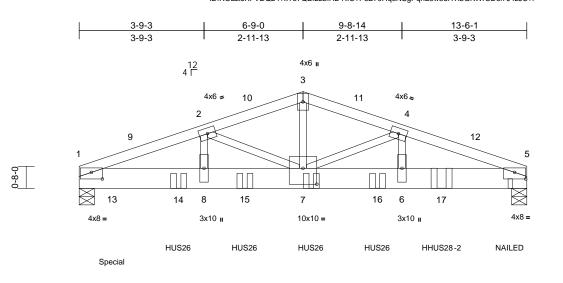


and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	C3	Common Girder	1	2	Job Reference (optional)	165760541

2-11-0

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:04 ID:ROLzIJXFVDQ24?xTe7QBf2zbfH2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	3-9-3	6-9-0	9-8-14	13-6-1
	3-9-3	2-11-13	2-11-13	3-9-3
Scale = 1:34.8				

#### Plate Offsets (X, Y): [1:0-4-0,0-2-6], [5:0-4-0,0-2-6], [7:0-5-0,0-5-12]

	(), [;;	[0:0 : 0;0 = 0]; [::0		-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 IRC20 <sup>7</sup>	18/TPI2014	CSI TC BC WB Matrix-S	0.69 0.58 0.84	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.19 0.03	(loc) 6-7 6-7 5	l/defl >999 >813 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 142 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	<ul> <li>2x8 SP 2400F 2.0E 2x3 SPF No.2</li> <li>Structural wood she 3-2-4 oc purlins.</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 1=0-5-8, 9 Max Horiz 1=46 (LC Max Uplift 1=-1142 ( Max Grav 1=5604 (I (Ib) - Maximum Corr Tension</li> <li>1-2=-9784/2388, 2-5 3-4=-8188/2090, 4-5</li> </ul>	applied or 10-0-0 or 5=0-5-8 16) LC 8), 5=-1294 (LC C 1), 5=5540 (LC 1 pression/Maximum 3=-8189/2091, 5=-10475/2729 3=-2149/8997, 3=-2466/9634 s-1431/345,	5 9) 6 ) 7 8	Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5 Interior (1) 1 exposed ; er members an Lumber DOL This truss ha chord live loa All bearings capacity of 8 Provide mec bearing plate joint 1 and 1: This truss is International R802.10.2 a Use Simpson Truss, Single oc max. star	hanical connection e capable of withs 294 lb uplift at join designed in accoor Residential Code nd referenced stat n Strong-Tie HUS e Ply Girder) or et ting at 3-0-0 from	BCDL=6. bsed; MW r(2E) 0-2 cterior(2R one; cantil d right exp RS for rea DOL=1.6 for a 10. with any be SP 240 on (by oth standing 1 nt 5. rdance w e sections andard AN S26 (14-1) quivalent the left e	0psf; h=35ft; (FRS (envelo -12 to 5-2-12) ) 6-9-0 to 11- lever left and bosed;C-C fo cotions showr 0 psf bottom other live loz 00F 2.0E crus ers) of truss 1142 lb uplift ith the 2018 \$ R502.11.1 a USI/TPI 1. 0d Girder, 6- spaced at 2- nd to 9-0-0 to	pe) , 9-0, 1 right r r tr ads. shing to at and 10d 0-0	pro lb c lb u of s oth LOAD ( 1) De Pl U	vided su lown an- ip at 13 such cor- ers. <b>CASE(S</b> ead + Re ate Incre- niform L Vert: 1- poncentra Vert: 5=	ufficient d 262 ll -3-5 or inection of Live ease=1 oads (l 3=-70, ated Lo =-158 (l 19 (B),	b up at 1-0-0, an bottom chord. T n device(s) is the ndard e (balanced): Lun .15 b/ft) 3-5=-70, 1-5=-20	entrated load(s) 1421 d 158 lb down and 30 The design/selection responsibility of her Increase=1.15, 13=-1421 (B),
<ul> <li>(0.131"x3 Top chord oc.</li> <li>Bottom cl staggeree Web com</li> <li>All loads :</li> <li>except if in CASE(S) provided unless otl</li> </ul>	4-0544/2214 as to be connected toge ") nails as follows: ds connected as follows: hords connected as follows: hords connected as follows: 2x3 - are considered equally noted as front (F) or ba section. Ply to ply conr to distribute only loads herwise indicated. red roof live loads bave	0 1 PAD 1	<ol> <li>Use Simpsoi 4-16d Truss) connect trus;</li> <li>WARNING: but fail due t face at 3-0-0 5-0-0 from th from the left left end, HHI end.</li> </ol>	s(es) to back face n Strong-Tie HHL ) or equivalent at s(es) to back face The following har o geometric cons ) from the left end he left end, HUS26 end, HUS26 on b JS28-2 on back f dicates Girder: 3- delines.	JS28-2 (2 10-11-3 f e of botton ngers are iderations I, HUS26 6 on back back face ace at 10	2-16d Girder rom the left e m chord. manually app s: HUS26 on on back face < face at 7-0- at 9-0-0 from -11-3 from th	end to blied back at 0 the e left			D	STATE OF M NATHA FO. PE-2022	BER FR	

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

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May 22,2024

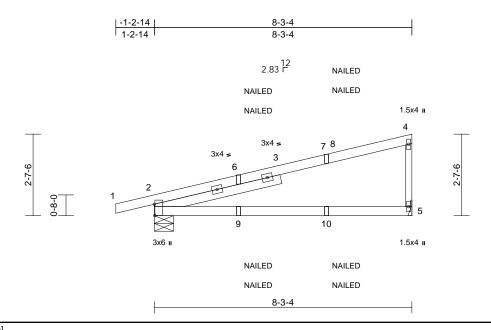
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	CG1	Diagonal Hip Girder	6	1	Job Reference (optional)	165760542

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:04 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

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

	X, 1): [2:0 + 0,Euge]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI TC BC WB	0.94 0.53 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.22 -0.43 0.00	(loc) 2-5 2-5 5	l/defl >454 >227 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		- (- )					Weight: 35 lb	FT = 20%
	2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E 2x3 SPF No.2 Left 2x4 SP No.2	athing directly appli cept end verticals. applied or 10-0-0 o 5= Mechanical C 28) C 8), 5=-115 (LC 12	ed or Ver	D" indicates Girder: 3 S guidelines. OAD CASE(S) section uss are noted as from <b>E(S)</b> Standard + Roof Live (balanced ncrease=1.15 n Loads (lb/ft) : 1-4=-70, 2-5=-20 ntrated Loads (lb) : 7=-53 (F=-26, B=-26)	n, loads a <sub>l</sub> t (F) or ba d): Lumber	oplied to the ck (B). Increase=1.	face 15,					
FORCES	(lb) - Maximum Com Tension 1-2=-6/0, 2-4=-140/8	pression/Maximum										
BOT CHORD	2-5=-47/51											
Vasd=91m Ke=1.00; C exterior zo Exterior(2F right expos for membe	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 R) 5-10-0 to 8-2-0 zon- sed; end vertical left a ers and forces & MWF DL=1.60 plate grip DC	DL=6.0psf; h=35ft; d; MWFRS (envelop ) -1-2-14 to 5-10-0, e; cantilever left and nd right exposed;C- RS for reactions sho	-C							A	N	MISSOLUS
<ol> <li>2) This truss chord live l</li> <li>3) Bearings a crushing ca</li> <li>4) Refer to gi</li> <li>5) Provide me bearing pla</li> </ol>	has been designed fo load nonconcurrent wi are assumed to be: Joi apacity of 805 psi. rder(s) for truss to trus echanical connection ate capable of withstar	r a 10.0 psf bottom th any other live loa nt 2 SP 2400F 2.0E ss connections. (by others) of truss t	to								PE-2022	web ins
	Ib uplift at joint 2. is designed in accorda	ance with the 2018								Y	1883	ENGL

6) esigned in accordance with I his truss is 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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May 22,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	CG2	Diagonal Hip Girder	2	1	Job Reference (optional)	165760543

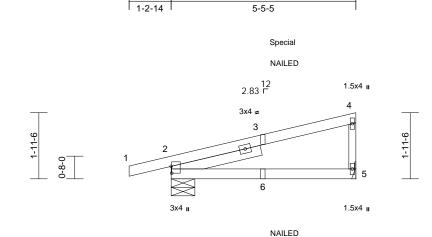
5-5-5

-1-2-14

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:04 ID:BkAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Special

5-5-5

Scale =	1:33.9
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#### 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	0.68	DEFL Vert(LL)	in -0.05	(loc) 2-5	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 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/TPI2014	Matrix-P	-						Weight: 24 lb	FT = 20%
	Max Horiz 2=73 (LC	athing directly appli cept end verticals. applied or 10-0-0 o 5= Mechanical 9)	ed or ed	" indicates Girder: 3 guidelines. DAD CASE(S) sections are noted as from <b>E(S)</b> Standard Roof Live (balanced increase=1.15 in Loads (lb/ft) 1-4=-70, 2-5=-20	on, loads a nt (F) or ba	pplied to the t ck (B).	face					
	Max Uplift 2=-111 (L Max Grav 2=337 (L0		)									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD BOT CHORD	1-2=-6/0, 2-4=-95/60 2-5=-34/36	), 4-5=-177/225										
NOTES												
Vasd=91m Ke=1.00; C exterior zoi and right e exposed;C	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Corner (3 xposed ; end vertical -C for members and f shown; Lumber DOL=	DL=6.0psf; h=35ft; d; MWFRS (envelop ) zone; cantilever le left and right orces & MWFRS for	ft							A	AN	MISSOLA
	has been designed fo	r a 10.0 psf bottom								4		
chord live l	load nonconcurrent wa	ith any other live loa								PA	In-FO	
<ol> <li>Bearings a capacity of</li> </ol>		III 2 OF NO.2 CIUSII	ing							XĨ	1 That	1 Fah
<ol><li>Refer to gir</li></ol>	rder(s) for truss to trus									12-6	a much	BER CHAR
,	echanical connection	· · ·								87	PE-2022	042259
	ate capable of withstan	nding 54 lb uplift at j	oint							N	The second	12A

## N

- 2
- 3 4
- 5
- 5 and 111 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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May 22,2024

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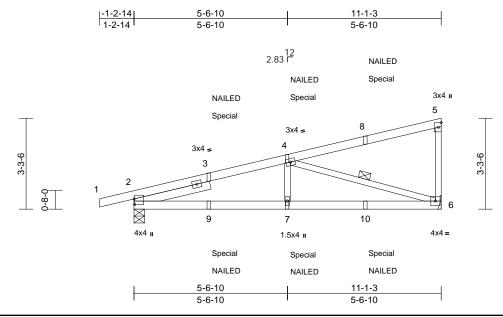
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	CG3	Diagonal Hip Girder	2	1	Job Reference (optional)	165760544

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 ID:BkAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:41.6

#### 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	0.77	Vert(LL)	-0.06	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.14	6-7	>953	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-S							Weight: 47 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP 1650F 1.5E 2x4 SP No.2 2x3 SPF No.2		Ínterna R802.1	ss is designed in acc ional Residential Coc 0.2 and referenced st D" indicates Girder: 3	de sections andard AN	s R502.11.1 a ISI/TPI 1.						
WEBS SLIDER	Left 2x4 SP No.2 2	2-0-12		S quidelines.	100 (0.14		nano					
BRACING	Len 2X4 SF N0.2 2	2-9-12		OAD CASE(S) section	n, loads a	pplied to the	face					
TOP CHORD	Structural wood she	athing directly applic	of the	uss are noted as fror								
TOF CHORD	5-11-14 oc purlins,			E(S) Standard	. ,							
BOT CHORD	Rigid ceiling directly bracing.		c 1) Dead	+ Roof Live (balanced ncrease=1.15	d): Lumbei	Increase=1.	.15,					
WEBS		4-6	Unifo	m Loads (lb/ft)								
REACTIONS	(size) 2=0-4-9, 6	6= Mechanical		t: 1-5=-70, 2-6=-20								
	Max Horiz 2=134 (LC	C 11)		entrated Loads (lb)								
	Max Uplift 2=-205 (L Max Grav 2=684 (L0	<i>,,</i>		t: 4=-53 (F=-26, B=-2 198 (F=-99, B=-99), 1			0),					
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=-6/0, 2-4=-1363 5-6=-260/176	/504, 4-5=-131/73,										
BOT CHORD WEBS	2-7=-594/1268, 6-7= 4-7=0/353, 4-6=-127											
NOTES												
Vasd=91n Ke=1.00; ( exterior zc Exterior(2) right expos for membe	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 R) 5-6-10 to 10-11-15 sed; end vertical left a ers and forces & MWFI OL=1.60 plate grip DC	DL=6.0psf; h=35ft; d; MWFRS (envelop ) -1-2-14 to 5-6-10, zone; cantilever left nd right exposed;C- RS for reactions sho	and C						•		STATE OF DATE	MISSOURI NIEL X

- This truss has been designed for a 10.0 psf bottom 2)
- chord live load nonconcurrent with any other live loads. Bearings are assumed to be: Joint 2 SP No.2 crushing 3)
- 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 209 lb uplift at joint 6 and 205 lb uplift at joint 2.

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	D1	Hip Girder	1	2	Job Reference (optional)	165760545

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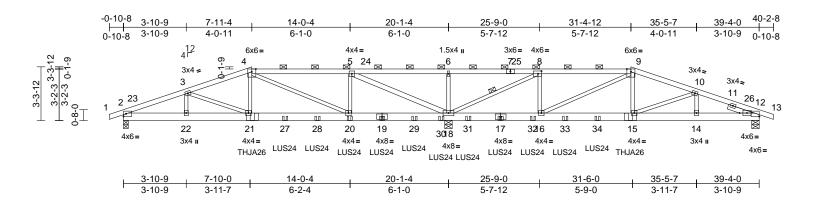
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May 22,2024

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Scale = 1:71.3

#### Plate Offsets (X, Y); [8:0-2-8.0-2-0], [12:0-2-9.0-2-0], [12:Edge.0-2-10]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	(psi) 25.0	Plate Grip DOL	1.15		TC	0.65	Vert(LL)		20-21	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.69	Vert(CT)	-0.17		>999	180	1	101/111
BCLL	0.0	Rep Stress Incr	NO		WB	0.91	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-S							Weight: 358 lb	FT = 20%
LUMBER			1)		be connected to	gether wi	th 10d						es not depict the size
TOP CHORD					ails as follows:							of the purlin alor	ng the top and/or
BOT CHORD					connected as follo	ows: 2x4 ·	- 1 row at 0-9-	-0		om chor			(TILLACC on Cinty Left
WEBS		ept* 5-18:2x4 SP No.2	2	0C. Rottom chor	ds connected as	followe: 2	x6 2 rows						(THJA26 on 2 ply, Left 0 from the left end to
SLIDER	Right 2x4 SP No.2	- 1-8-2		staggered at		10110115. 2	x0 - 2 10w5					to front face of b	
BRACING					ted as follows: 2>	3 - 1 row	at 0-9-0 oc, 2	2x4 -					4-10d Girder, 2-10d
TOP CHORD	6-0-0 oc purlins, exc	athing directly applied	u or	1 row at 0-9-			,						alent spaced at 2-0-0
	2-0-0 oc purlins, exc 2-0-0 oc purlins (6-0		2)		considered equa								e left end to 29-4-0 to
BOT CHORD		applied or 10-0-0 oc			ed as front (F) or			DAD				to front face of b	
	bracing.				ction. Ply to ply c								(THJA26 on 2 ply,
WEBS	1 Row at midpt	8-18			listribute only loa wise indicated.	as noted	as (F) or (B),						31-4-6 from the left end of bottom chord.
REACTIONS	(size) 2=0-3-8, 7	12=0-5-8, 18=0-5-8	3)		roof live loads ha	ve heen i	considered for	r	10 0	Unnect	luss(e	is) to mont lace t	
	Max Horiz 2=54 (LC	,	,	this design.									
	Max Uplift 2=-481 (L		, 4)		7-16; Vult=115m	ph (3-sec	cond gust)						
	18=-1669		20)		n; TCDL=6.0psf;								
	Max Grav 2=1698 (L 18=6079		20),		t. II; Exp C; Enclo								
FORCES	(lb) - Maximum Com	( )			and C-C Exterio			),					
ONOLO	Tension	pression/maximum			-10-9 to 7-11-4, E ior (1) 15-0-2 to 3								
TOP CHORD		1049, 3-4=-3794/114	1,		3-5-10, Interior (1			ne:					
	4-5=-2199/693, 5-6=	-707/2580,			t and right expos								
	6-8=-707/2580, 8-9=			right expose	d;C-C for membe	rs and for	rces & MWFR	S				~	m
	9-10=-3355/1016, 10	0-12=-3108/899,			shown; Lumber	DOL=1.60	) plate grip					ATE OF	A Min
	12-13=0/1	22-025/2214	-	DOL=1.60								FE OF	MISS
BOT CHORD	2-22=-925/3314, 21- 20-21=-951/3525, 18		5)		quate drainage to			<b>j</b> .			F		1.5
	16-18=-412/1693, 1		6)		is been designed ad nonconcurrent			do			A	S NATH	ANIEL
	14-15=-781/2829, 12	,	7)		are assumed to b			us.			4		ox X
WEBS	4-21=-385/1445, 9-1		''	capacity of 4			0.2 crushing				67		- 11+1
	6-18=-445/192, 9-16		8)		hanical connection	on (by oth	ers) of truss to	0			8/	AL	THA
	8-16=-421/1688, 8-1	,			e capable of withs						V -	VA VAN	All S DE
	5-18=-5194/1539, 4				o uplift at joint 12	and 1669	Ib uplift at joi	int			27		2042259
	5-20=-422/1720, 3-2 10-15=-233/558, 10-	,	<b>C</b> )	18. This trues is	deelaned in c		ith the 2010				N		
	3-22=-107/95		9)		designed in acco Residential Code			nd			Y	1 tec	IS B
NOTES					nd referenced sta			nu				FESSIONI	AL EN
				1.502.10.2 a								and and	
													22 2024

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. 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 181	
P250279-01	D1	Hip Girder	1	2	Job Reference (optional)	165760545

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:05 ID:BkAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft)
  - Vert: 1-4=-70, 4-9=-70, 9-13=-70, 2-12=-20

Concentrated Loads (lb)

- Vert: 19=-329 (F), 21=-1023 (F), 15=-1023 (F), 17=-329 (F), 20=-329 (F), 27=-329 (F), 28=-329 (F),
- 29=-329 (F), 30=-329 (F), 31=-329 (F), 32=-329 (F), 33=-329 (F), 34=-329 (F)

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)

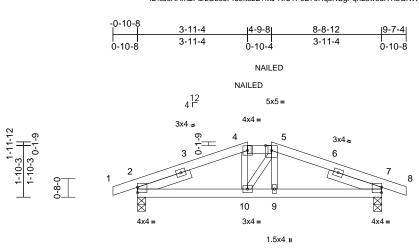


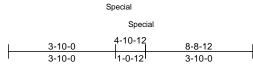
Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	E1	Hip Girder	1	1	Job Reference (optional)	165760546

1-11-12

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:05 ID:cJsRAmBFdrzObsoPfu6lt3zE?MJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:41.2

#### Plate Offsets (X, Y): [2:0-0-1,0-2-5], [7:0-0-1,0-2-5]

	s (X, 1). [2.0-0-1,0-2-3],	[1.0-0-1,0-2-0]											
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.69	Vert(LL)	-0.03	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.41	Vert(CT)	-0.06	9	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.10	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2	)18/TPI2014	Matrix-P							Weight: 39 lb	FT = 20%
LUMBER				5) All bearings	are assumed to be	e SP No	2 crushina						
TOP CHORE	D 2x4 SP No.2			capacity of s			5						
BOT CHORE				6) Provide med	chanical connectio	n (by oth	ers) of truss	to					
WEBS	2x3 SPF No.2			bearing plat	e capable of withs	tanding 2	220 lb uplift a	t					
SLIDER	Left 2x4 SP No.2 7	1-11-13, Right 2x4 S			20 lb uplift at joint								
	No.2 1-11-13				designed in accor								
BRACING					Residential Code			and					
TOP CHORE	O Structural wood she	athing directly applie	ed or		and referenced star								
	4-1-3 oc purlins, exc				urlin representation			size					
	2-0-0 oc purlins (5-5			bottom chor	ation of the purlin	along the	e top and/or						
BOT CHORE		applied or 9-3-0 oc			u. Idicates Girder: 3-1	10d (0 1/	8" x 3") too-	naile					
	bracing.			per NDS qu		100 (0.1-	io x 0 / 10e-	TIGIIS					
REACTIONS					r other connection	device(s	s) shall be						
	Max Horiz 2=29 (LC			, , ,	fficient to support of	· ·	,	221					
	Max Uplift 2=-220 (L	,, , , , ,	)		60 lb up at 3-11-								
	Max Grav 2=733 (L0	C 1), 7=733 (LC 1)			-12 on bottom cho								
FORCES	(lb) - Maximum Com	pression/Maximum		of such con	nection device(s) is	s the res	ponsibility of						
	Tension			others.									
TOP CHORE			5,		CASE(S) section			face					
DOT OUOD	5-7=-1329/530, 7-8=				are noted as front	(F) or ba	ck (B).						
BOT CHORI	,	10=-406/1168,		LOAD CASE(S)	Standard								
WEBS	7-9=-408/1185 4-10=-40/302, 5-10=	10/50 50 00/070	0		of Live (balanced)	: Lumbe	Increase=1.	.15,					
	4-10=-40/302, 5-10=	=-42/53, 5-9=-20/270	0	Plate Incre								000	all
NOTES				Uniform Lo	· · ·							TATE OF	MICON
,	ced roof live loads have	been considered to	or		4=-70, 4-5=-70, 5-8	3=-70, 2-	7=-20				9	BIE	0.00
this desi	gn. SCE 7-16; Vult=115mph	(2 accord quat)			ted Loads (lb)		(=) 0 004				E	AN I	N N
	1mph; TCDL=6.0psf; BC			Vert: 4=	-59 (F), 5=-59 (F),	10=-221	(F), 9=-221	(⊢)			B		
	; Cat. II; Exp C; Enclose								B	A A FO	X		
	zone and C-C Exterior(2									D		1 5 134	
	and right exposed ; end vertical left and right										8	Thomas	
	exposed;C-C for members and forces & MWFRS for										N L	NIKANN	
											V V	XYT WOR	BER U

- 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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May 22,2024

PE-202204225

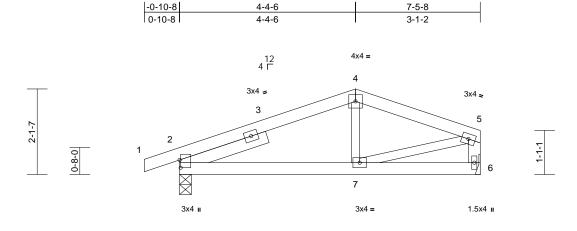
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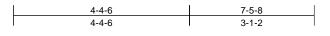
Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	E2	Common	1	1	Job Reference (optional)	165760547

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:05 ID:Dgu00kllKKflbcSRl41v?AzXS?3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





#### Scale = 1:28.6

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

			-									
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	0.39	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	2-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P					-		Weight: 32 lb	FT = 20%
LUMBER			6) Provide	mechanical connecti	ion (by oth	ers) of truss t	to					
TOP CHORD	2x4 SP No.2			plate capable of with		03 lb uplift at	t					
BOT CHORD	2x4 SP No.2			nd 53 lb uplift at joint								
WEBS	2x3 SPF No.2 *Exce			s is designed in acco								
SLIDER	Left 2x4 SP No.2 2	2-3-3		onal Residential Cod ).2 and referenced st			and					
BRACING					andard Ar	151/TPLT.						
TOP CHORD			ed or LOAD CAS	E(S) Standard								
	6-0-0 oc purlins, ex											
BOT CHORD	0 0 ,	applied or 10-0-0 o	С									
DEACTIONS	bracing.	Machanical										
REACTIONS	( )	6= Mechanical										
	Max Horiz 2=34 (LC Max Uplift 2=-103 (L	,										
	Max Grav 2=394 (L											
FORCES	(lb) - Maximum Corr	,, ( )										
FURCES	Tension	ipression/maximum										
TOP CHORD		254. 4-5=-374/275.										
	5-6=-307/263	- , ,										
BOT CHORD	2-7=-238/330, 6-7=-	17/19										
WEBS	4-7=-2/118, 5-7=-23	5/343										
NOTES												
1) Unbalanc	ced roof live loads have	been considered fo	r									
this desig												an
	SCE 7-16; Vult=115mph										ATE OF	MIG
	mph; TCDL=6.0psf; BC									5	BIE	W. OSC
	Cat. II; Exp C; Enclose									6	AT	N N
	cone and C-C Exterior(2 exposed ; end vertical		IEIT							B	S NATH	
	C-C for members and f		r								EO	X L
	shown; Lumber DOL=											15171
DOL=1.6		piero gup									NTT >	~// H-2
	s has been designed fo	r a 10.0 psf bottom								N to	allam	at Ing
, chord live	load popeopeurropt wi	ith any other live lea	de							- VI 🖌	DY PRICES	BLIN 18

- 3) 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 4)
- capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

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## May 22,2024 TION DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI

04/04/2025 5:02:39

PE-2022042259

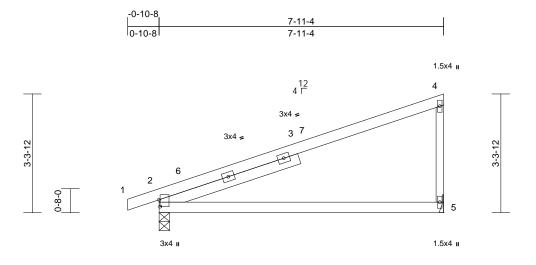
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J1	Jack-Closed	13	1	Job Reference (optional)	165760548

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:05 ID:n9UAvj6V2?CFtxKFJd?udozE?MP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



					7-11-	-4							
Scale = 1:32.1									I				
Plate Offsets (X, Y):	[2:0-2-5,0-0-5]												
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	0.99	Vert(LL)	-0.23	2-5	>416	240	MT20	197/144	
	10.0		1 15	I PC	0 92	Vort(CT)	0.45	25	~ 209	100			

LUMBER			LOAD CASE(S)	Standard								
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.45	2-5	>208	180		
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.23	2-5	>416	240	MT20	197/144

LOWIDER	
TOP CHORD	2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 4-1-2
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-10-2 oc
	bracing.
REACTIONS	(size) 2=0-3-8, 5= Mechanical
	Max Horiz 2=140 (LC 9)
	Max Uplift 2=-108 (LC 8), 5=-88 (LC 12)
	Max Grav 2=417 (LC 1), 5=349 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-5/0, 2-4=-173/108, 4-5=-271/327

#### BOT CHORD 2-5=-61/67 NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-10-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
  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 88 lb uplift at joint 5 and 108 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.



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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J2	Jack-Open	4	1	Job Reference (optional)	165760549

5-10-3

5-10-3

-0-10-8

0-10-8

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

Scale = 1:28.9

Loading

TCDL

BCLL

BCDL

LUMBER

SLIDER BRACING TOP CHORD

TOP CHORD

BOT CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

5)

capacity of 565 psi.

4 and 80 lb uplift at joint 2.

TOP CHORD

BOT CHORD

**REACTIONS** (size)

TCLL (roof)

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

2x4 SP No.2

2x4 SP No.2

bracing.

Tension

2-5=0/0

5-10-3 oc purlins.

(LC 3)

(psf)

25.0

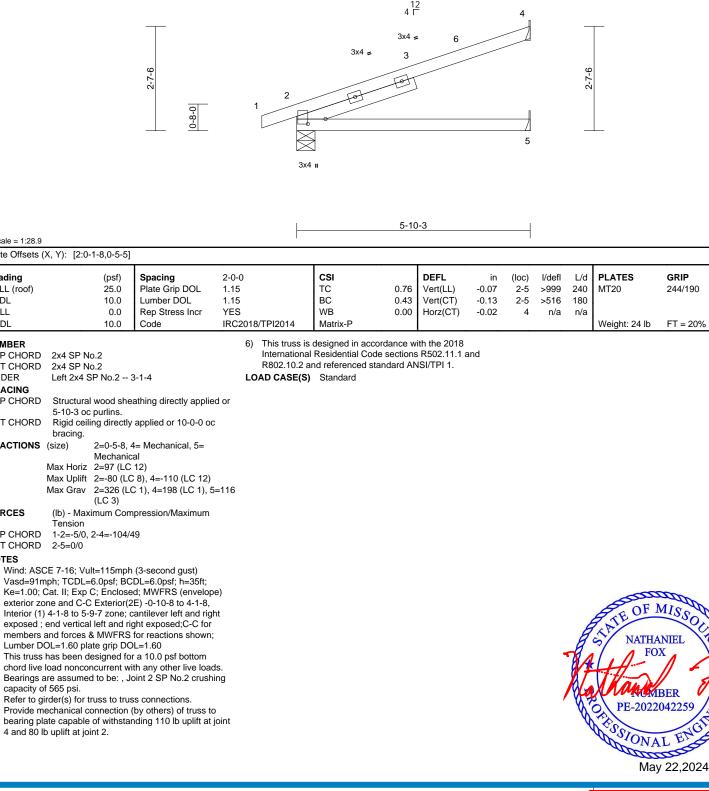
10.0

10.0

0.0

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:05 ID:n9UAvj6V2?CFtxKFJd?udozE?MP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J3	Jack-Open	15	1	Job Reference (optional)	165760550

3-10-3

3-10-3

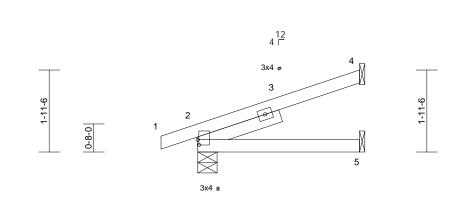
-0-10-8

0-10-8

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:05 ID: XgLdgMJb9VhkPZo1PqP1dSzbfea-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fficture and the second statement of the second st





1	3-10-3
ſ	

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

	S (X, T). [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	тс	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 TOP CHORE BOT CHORE SLIDER BRACING TOP CHORE BOT CHORE	<ul> <li>2x4 SP No.2 Left 2x4 SP No.2 2</li> <li>Structural wood she 3-10-3 oc purlins.</li> <li>Rigid ceiling directly</li> </ul>	athing directly applie	Internationa R802.10.2 a LOAD CASE(S) ed or	e designed in accor Il Residential Code and referenced star ) Standard	sections	s R502.11.1 a	and					
REACTIONS	Mechanic Max Horiz 2=68 (LC Max Uplift 2=-67 (LC Max Grav 2=239 (LC	12) 2 8), 4=-73 (LC 12)	5=76									
FORCES	(LC 3) (Ib) - Maximum Com Tension	pression/Maximum										
TOP CHORE BOT CHORE		l										
NOTES												
1) Wind: AS Vasd=91 Ke=1.00 exterior z and right exposed	SCE 7-16; Vult=115mph Imph; TCDL=6.0psf; BC ; Cat. II; Exp C; Enclose zone and C-C Exterior(2 t exposed ; end vertical I ;C-C for members and f s shown; Lumber DOL=' so	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l left and right orces & MWFRS for	left							H	STATE OF	No. N
	s has been designed for	r a 10.0 psf hottom							5	R	FO	X \
	e load nonconcurrent wi		ds.						•	XA		1 THE
<ol><li>Bearings</li></ol>	of 565 psi.								/	N/A	Kasan	the trace
	girder(s) for truss to tru									K Y		
	mechanical connection ( plate capable of withstar									V	PE-2022	1042259 10 4

4 5 4 and 67 lb uplift at joint 2.



DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 04/04/2025 5:02:39

TION

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J4	Jack-Open	2	1	Job Reference (optional)	165760551

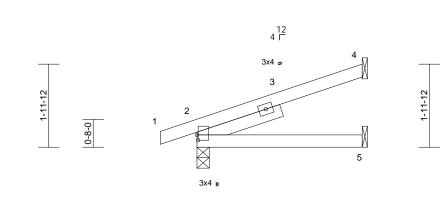
3-11-4 3-11-4

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:gwkhl49?5DjhMYe0YT3qnezE?ML-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





-0-10-8 0-10-8

3-11-4	

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

Scale = 1:27.5

	(X, T): [2:0-1-0;0-0-5]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI20	CSI TC BC WB Matrix-P	0.34 0.18 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.03 -0.01	(loc) 2-5 2-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	<b>GRIP</b> 244/190 FT = 20%
BCDL	10.0	Code	IRC2018/19120	Matrix-P							weight: 17 lb	F1 = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING	2x4 SP No.2 Left 2x4 SP No.2 2		Intern R802 LOAD C	russ is designed in acco national Residential Cod .10.2 and referenced sta ASE(S) Standard	e sections	R502.11.1 a	and					
TOP CHORD	Structural wood she 3-11-4 oc purlins.	athing directly applie	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
	(3126) Mechanic Mechanic Max Horiz 2=70 (LC Max Uplift 2=-68 (LC Max Grav 2=243 (LC (LC 3)	12) 8), 4=-74 (LC 12)	5=78									
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD BOT CHORD	Tension 1-2=-5/0, 2-4=-76/32 2-5=0/0	2										
<ul> <li>Vasd=91m Ke=1.00; ( exterior zoo and right e exposed;C reactions s DOL=1.60</li> <li>2) This truss chord live</li> <li>3) Bearings a capacity oi</li> <li>4) Refer to gi</li> <li>5) Provide m bearing pla</li> </ul>	has been designed for load nonconcurrent wi are assumed to be: , Jo	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever 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. ning o								PE-2022	ANIEL CARACTER STATES

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



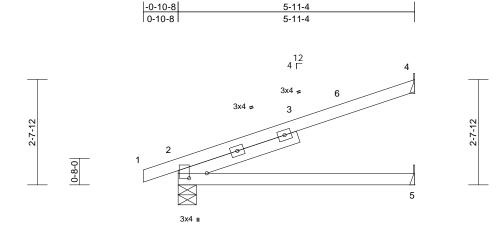
VONAL E annes May 22,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J6	Jack-Open	23	1	Job Reference (optional)	165760552

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





	5-11-4	
Scale = 1:28.9		
Plate Offsets (X, Y): [2:0-1-8,0-5-5]		

Plate Offsets (2	X, Y): [2:0-1-8,0-5-5]											
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	0.78 0.44 0.00	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.14 -0.02	(loc) 2-5 2-5 4	l/defl >987 >493 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%
UMBER OP CHORD OT CHORD SLIDER BRACING OP CHORD SOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.2 : Structural wood she 5-11-4 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 4	athing directly applie	Internationa R802.10.2 a LOAD CASE(S	: designed in acc I Residential Co and referenced s ) Standard	de sections	R502.11.1	and					
	Max Horiz 2=99 (LC Max Uplift 2=-81 (LC Max Grav 2=330 (LC (LC 3) (lb) - Maximum Corr	12) 2 8), 4=-111 (LC 12) 2 1), 4=201 (LC 1), 5	5=118									
OP CHORD	Tension 1-2=-5/0, 2-4=-105/5 2-5=0/0	50										
Vasd=91m Ke=1.00; ( exterior zoo Interior (1) exposed; members a Lumber DO 2) This truss chord live i Bearings a capacity of b) Refer to gi p) 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 4-1-8 to 5-10-8 zone; end vertical left and ri, and forces & MWFRS OL=1.60 plate grip DC has been designed fo load nonconcurrent wi are assumed to be: , Ju f 565 psi. irder(s) for truss to trus echanical connection ate capable of withstar b uplift at joint 2.	DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-10-8 to 4-1-8, cantilever left and ri ght exposed;C-C for for reactions shown pL=1.60 r a 10.0 psf bottom th any other live loa pint 2 SP No.2 crush as connections. (by others) of truss t	ight ; ds. ning o								OF SSIONA	AR DALES

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



May 22,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J7	Jack-Open	20	1	Job Reference (optional)	165760553

-0-10-8

0-10-8

0-8-0

1-10-3

1-10-3

12 4 Г

3x4 u

3x4 🚽 3

5

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

Scale = 1:26.8

Loading

TCDL

BCLL

BCDL

LUMBER

SLIDER BRACING TOP CHORD

TOP CHORD

BOT CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

TOP CHORD

BOT CHORD

DOL=1.60

**REACTIONS** (size)

bracing.

Tension

2-5=0/0

TCLL (roof)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-10-3 Plate Offsets (X, Y): [2:0-1-8,0-5-5] (psf) Spacing 2-0-0 CSI DEFL in l/defl L/d (loc) 25.0 Plate Grip DOL 1.15 тс 0.06 Vert(LL) 0.00 2-5 >999 240 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) 0.00 2-5 >999 180 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 4 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-P 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 2x4 SP No.2 R802.10.2 and referenced standard ANSI/TPI 1. 2x4 SP No.2 Left 2x4 SP No.2 -- 1-5-8 LOAD CASE(S) Standard Structural wood sheathing directly applied or 1-10-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc 2=0-5-8, 4= Mechanical, 5= Mechanical Max Horiz 2=40 (LC 12) Max Uplift 2=-57 (LC 8), 4=-35 (LC 12) Max Grav 2=158 (LC 1), 4=50 (LC 1), 5=37 (LC 3) (lb) - Maximum Compression/Maximum 1-2=-5/0, 2-4=-43/16 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 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. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 57 lb uplift at joint 2 and 35 lb uplift at joint 4.



PLATES

Weight: 9 lb

MT20

GRIP

244/190

FT = 20%

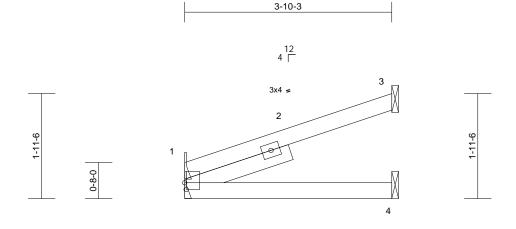
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only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

RELEASE FOR CONSTRUCT	ION
AS NOTED ON PLANS REVIE DEVELORMENT SERVICES	
LEE'S'SUMNIT'SMISSOUR	
04/04/2025 5:02:39	9

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	J8	Jack-Open	1	1	Job Reference (optional)	165760554

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



3-10-3

3x4 u

Scale = 1:21.4		

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

	(X, 1). [1.0-1-0,0-0-3]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI:	CSI TC BC WB 2014 Matrix-P	0.36 0.17 0.00	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 -0.01	(loc) 1-4 1-4 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 15 lb	<b>GRIP</b> 244/190 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 Structural wood she 3-10-3 oc purlins. Rigid ceiling directly bracing. (size) 1= Mechanic Max Horiz 1=71 (LC Max Uplift 1=-22 (LC Max Grav 1=170 (LI	2-0-10 eathing directly applie v applied or 10-0-0 o anical, 3= Mechanica sal 8) 2 8), 3=-75 (LC 8)	7) This Inte R8( 8) Gag diag ed or LOAD ( c al, 4=	a truss is designed in a rnational Residential C 12.10.2 and referenced between inside of top jonal or vertical web st CASE(S) Standard	Code sections I standard AN o chord bearir	R502.11.1 ( ISI/TPI 1. ng and first						
Vasd=91n Ke=1.00; exterior zc and right e exposed; reactions : DOL=1.60 2) This truss chord live 3) Refer to g 5) Provide m bearing pl	1-4=0/0 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical 2-C for members and f shown; Lumber DOL=	h (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop 2E) zone; cantilever left and right forces & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live loa ss connections. lss connections. (by others) of truss t	left ds.								S NATHA	X DER 042259

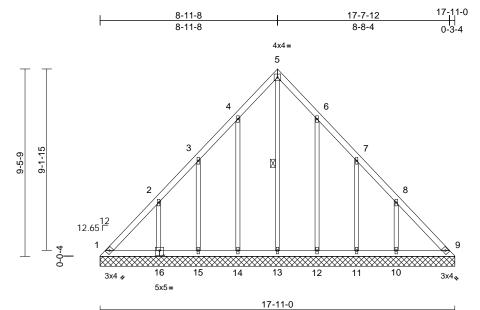
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

burne May 22,2024



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	LG1	Lay-In Gable	1	1	Job Reference (optional)	165760555

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:Obha4naCZz56aXAH6Xj5i3zEAIt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



		1	7

## Scale = 1:58.2

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

Loading TCLL (roof) TCDL	(psf) 25.0 10.0		2-0-0 1.15 1.15		CSI TC BC	0.12 0.07	<b>DEFL</b> Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 10.0	Rep Stress Incr Code	YES IRC2018	8/TPI2014	WB Matrix-S	0.22	Horiz(TL)	0.01	9	n/a	n/a	Weight: 94 lb	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. Rigid ceiling directly bracing. 1 Row at midpt (size) 1=17-11- (size) 1=17-11- 15=17-11 Max Horiz 1=-258 (L Max Uplift 1=-75 (LC 10=-186 ( 12=-135 ( 15=-125 ( Max Grav 1=218 (LC 10=284 (L 12=219 (L	: 10), 9=-39 (LC 11), LC 13), 11=-126 (LC LC 13), 14=-137 (LC LC 12), 16=-183 (LC C 21), 9=198 (LC 22), C 20), 11=182 (LC 20 LC 20), 13=204 (LC 15 LC 19), 15=179 (LC 15	2) or 1-0, 3) 13), 12), 5) 12), 5) 12) 7) )), 8)	this design. Wind: ASCE Vasd=91mph Ke=1.00; Car exterior zone Interior (1) 5- 13-11-12, Int left and right exposed;C-C reactions sho DOL=1.60 Truss desigr only. For stu see Standard or consult qu All plates are Gable require Gable studs This truss ha chord live loa All bearings a capacity of 5 Provide med	roof live loads have 7-16; Vult=115mpl b; TCDL=6.0psf; BC 1; I; Exp C; Enclos and C-C Exterior( 4-1 to 8-11-12, Exi erior (1) 13-11-12; te exposed; end vert for members and wm; Lumber DOL= hed for wind loads ds exposed to wind loads ds exposed to wind a Industry Gable Er alified building des 1.5x4 MT20 unless as continuous botts spaced at 2-0-0 oc s been designed for d nonconcurrent w are assumed to be 55 psi. nanical connection capable of withsta	h (3-sec CDL=6. CDL=6. ed; MW 2E) 0-4 terior(2I to 17-7- tical left forces 4 =1.60 pl =1.60 pl =1.60 pl =1.60 pl in the p d (norm nd Deta igner a: so ther or a 10. vith any SP No. (by oth	cond gust) opsf; h=35ft; FRS (envelop FRS (envelop 1 to 5-4-1, 8) 8-11-12 to 7 zone; cantil and right & MWFRS for ate grip ane of the tru at to the face ils as applica s per ANSI/TI wise indicated d bearing. ) psf bottom other live loa 2 crushing ers) of truss t	be) ever , sss ), ble, Pl 1. J. ds. 0				5000	200
FORCES TOP CHORD	,	pression/Maximum 178/135, 3-4=-145/11 177/167, 6-7=-104/74	,	1, 39 lb uplift uplift at joint joint 12, 126	at joint 9, 137 lb u 15, 183 lb uplift at j lb uplift at joint 11	plift at jo joint 16,	pint 14, 125 li 135 lb uplift	o at			Å	STATE OF I	MISSOLA
BOT CHORD	7-8=-145/83, 8-9=-2	95/203 5=-168/251, -13=-168/251,	, 10)	International	designed in accord Residential Code s nd referenced stan Standard	sections	R502.11.1 a	nd			Ŕ	FO	
WEBS	5-10=-160/251 5-13=-180/126, 4-14 3-15=-174/150, 2-16 6-12=-185/158, 7-11 8-10=-244/206	S=-241/204,									AN A	PE-2022	042259 2 B

May 22,2024

Page: 1

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TION 'IEW DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 04/04/2025 5:02:40

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	LG2	Lay-In Gable	1	1	Job Reference (optional)	165760556

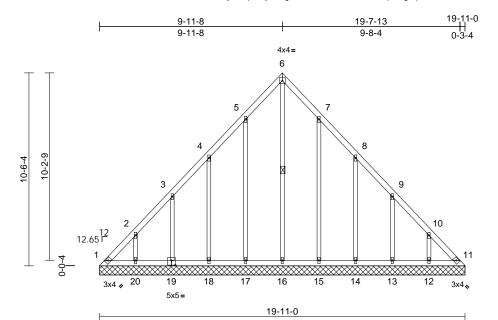
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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May 22,2024

TION /IEW



Scale = 1:62.8

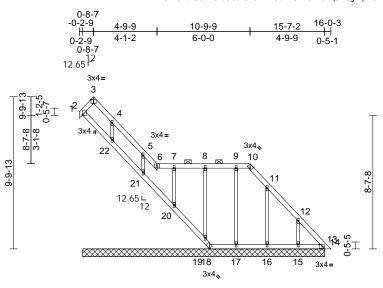
Plate Offsets (X, Y): [19:0-2-8,0-3-0]

	7, 1). [10.0 2 0,0 0 0	L.											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 <sup>2</sup>	18/TPI2014	CSI TC BC WB Matrix-S	0.08 0.06 0.28	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	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: 110 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 cc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 1=19-11-( 12=19-11 14=19-11 16=19-11 18=19-11 20=19-11 Max Horiz 1=288 (LC Max Uplift 1=-132 (L 12=-138 ( 14=-143 ( 19=-136 (L) 14=207 (L) 16=231 (L)	C 9) C 10), 11=-88 (LC 11 (LC 13), 13=-135 (LC (LC 12), 18=-141 (LC (LC 12), 18=-141 (LC (LC 12), 20=-139 (LC C 12), 11=255 (LC 13 LC 20), 13=206 (LC 2 LC 20), 15=212 (LC 2 LC 13), 17=215 (LC 1 LC 19), 19=208 (LC 1	d or V N 1 13), 12), 12), 12), 0), 30), 9), 9), 4	VEBS OUTES ) Unbalanced this design. ) Wind: ASCI Vasd=91mg Ke=1.00; C: exterior zon Interior (1) § 14-11-12, Ir left and righ exposed;C- reactions sf DOL=1.60 ) Truss desig only. For st see Standa or consult q ) All plates ar	E 7-16; Vult=115mp bh; TCDL=6.0psf; Br at. II; Exp C; Enclos e and C-C Exterior( 5-4-1 to 9-11-12, Ex hterior (1) 14-11-12 t exposed ; end ver C for members and hown; Lumber DOL= gned for wind loads tuds exposed to win rd Industry Gable Ei jualified building des re 1.5x4 MT20 unles	6-17=-1 4-15=-1 2-13=-1 7=-176 9=-186 5=-176 3=-185 e been h (3-see CDL=6. ed; MW 2E) 0-4 terior(2 to 19-7- tical left forces =1.60 pl in the p d (norm nd Deta signer a signer as sother	87/282, 87/282, 87/282, 87/282, 87/282, 87/282, 155, 162, 152, 160, 155, 160, 165,	ever ss , ple, Pl 1.	bea join lb u join 135 10) This Inte	ring pla t 1, 88 ll plift at jo t 20, 12 lb uplift s truss is rnationa 02.10.2	te capa o uplift bint 18,8 lb up a at join s desig al Resia and ref ) Sta	able of withstandi at joint 11, 131 lk , 136 lb uplift at jo lift at joint 15, 143 it 13 and 138 lb u ned in accordand dential Code sect ferenced standard ndard	with the 2018 ions R502.11.1 and d ANSI/TPI 1.
FORCES	(lb) - Maximum Compression/Maximum Tension			<ul> <li>Gable studs</li> <li>This truss h chord live lo</li> <li>All bearings</li> </ul>	Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing capacity of 565 psi.							BER FIGS	

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 181	
P250279-01	LG3	Lay-In Gable	1	1	Job Reference (optional)	165760557

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:wk3hL3Kb73S07OfuGUaQwOzEDSc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	8-2-3	15-7-2
	8-2-3	7-4-15
Scale = 1:74.3		-
Plate Offsets (X, Y): [3:Edge,0-3-0], [10:0-1-7,Edge], [13:0-2-7,0-1-8]		

<b>.oading</b> CLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.14	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
CDL		10.0	Lumber DOL	1.15		BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.10	Horz(CT)	0.01	13	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%
UMBER				v	VEBS	8-19=-136/67, 7			/144,					es not depict the size
OP CHORD	2x4 SP No	.2				4-22=-122/38, 9							of the purlin alon	g the top and/or
BOT CHORD	2x4 SP No					11-16=-202/182	, 12-15=-19	92/162			tom cho			
DTHERS	2x3 SPF N	0.2			IOTES					LOAD	CASE(S	) Sta	ndard	
BRACING				1	,	d roof live loads h	nave been o	considered fo	r					
OP CHORD			athing directly applie		this design									
	6-0-0 oc pı			2		E 7-16; Vult=115								
			-0 max.): 6-10.			ph; TCDL=6.0psf			,					
BOT CHORD	0	g directly	applied or 10-0-0 or	С		Cat. II; Exp C; End ne and C-C Corn			pe)					
	bracing.	. 45 7 0	40 45 70 45 45	7.0		I) 5-0-2 to 11-0-2								
REACTIONS	· /	,	13=15-7-2, 15=15-7 , 17=15-7-2, 18=15	,		e; cantilever left a								
			, 17=15-7-2, 18=15 , 20=15-7-2, 21=15	,		and right expose								
		22=15-7-2		-1-2,		WFRS for reactio								
	Max Horiz				DOL=1.60	plate grip DOL=1	.60							
			11), 13=-57 (LC 11	), 3		igned for wind loa								
			LC 13), 16=-155 (LC			studs exposed to								
		17=-98 (LÌ	C 13), 18=-339 (LC	13),		ard Industry Gable								
			C 9), 20=-39 (LC 9),			qualified building								
		21=-130 (L		-		equate drainage								
			: 13), 13=250 (LC 1			ire 1.5x4 MT20 ui			J.					
			C 20), 16=201 (LC	20), _		ires continuous b s spaced at 2-0-0		d bearing.						
			C 26), 18=129 (LC	,,		has been designe		) nef bottom						~
			C 1), 20=190 (LC 1 C 20), 22=163 (LC	,, -		oad nonconcurre			eh				A	and
ORCES			pression/Maximum	') g		s are assumed to							B.F. OF	MISSO
ORCES	(ID) - Maxir Tension	num Com	pression/waximum		capacity of							6	THE OF	N'S
OP CHORD		3=-57/46	3-4=-113/115,	1	0) Provide me	echanical connect	tion (by oth	ers) of truss t	0			H	S NATHA	NIEL CR
			50, 6-7=-49/31,			te capable of with						B	FO	
			31, 9-10=-49/31,			plift at joint 18, 57						79 4	IN	
	10-11=-90/					nt 19, 39 lb uplift a						an	HI.	1 4 8
	12-13=-363	3/292, 13-	14=0/2			b lb uplift at joint 1	7, 155 lb uj	plift at joint 16	ò			V.L	A hannin	
BOT CHORD	2-22=-311/	389, 21-22	2=-336/425,			uplift at joint 15.		مأمر فبالله ممتأس	~			NO	AXU WARK	BER VISE
			20=-331/420,	1		ate or shim requir			y			N	O PE-2022	042259 / 5 8
			18=-218/282,	1		h truss chord at jo is designed in acc						S	The second	18A
	16-17219	3/282 15-	16=-218/282,	1	,	0						X	¢'SSIONA	1 CM
	13-15=-218				Internation	al Residential Co	da santione	R502 11 1 a	ind					- NOB

May 22,2024

Page: 1

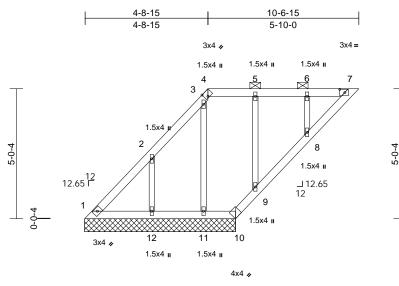
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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 181	
P250279-01	LG4	Lay-In Gable	1	1	Job Reference (optional)	165760558

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:dvGYZiveSrIFFIk2FuacAUzbfN0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-9-12 10-6-15 5-9-12 4-9-3

Plate Offsets (X, Y): [4:0-1-7,Edge], [7:0-2-5,0-1-8]

Scale = 1:44.5

Plate Offsets (	(X, Y): [4:0-1-7,Edge]	, [7:0-2-5,0-1-8]			-								
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 IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.27 0.26 0.15	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 46 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 8-7-12 oc purlins, e: 2-0-0 oc purlins (10 Rigid ceiling directly bracing. (size) 1=5-10-0 12=5-10-1 Max Horiz 1=215 (LI Max Uplift 1=-132 (L 11=-81 (L Max Grav 1=217 (LI	eathing directly applie xcept -0-0 max.): 4-7. y applied or 6-0-0 oc , 10=5-10-0, 11=5-10 0 C 9) .C 26), 10=-274 (LC C 9), 12=-175 (LC 1 C 9), 12=560 (LC 26) LC 1), 12=257 (LC 1	3) ed or 5) 6) 7) 8) 0-0, 9) 9), 2) 10 ), 11	Truss desig only. For stu see Standar or consult qu Provide aded All plates are Gable studs This truss ha chord live loa All bearings capacity of 5 Provide mec bearing plate joint 1, 274 ll 175 lb uplift a N/A ) This truss is International	hed for wind loads ids exposed to wiid a Industry Gable E alified building de quate drainage to 1.5x4 MT20 unle spaced at 2-0-0 o s been designed ad nonconcurrent are assumed to be 65 psi. hanical connection c capable of withst o uplift at joint 10,	nd (norm End Deta signer a prevent ess other c. for a 10. with any e SP No. n (by oth tanding 1 81 lb up dance w sections	al to the face ils as applical s per ANSI/TF water ponding wise indicated 0 psf bottom other live loa 2 crushing ers) of truss t 32 lb uplift at ift at joint 11 i ith the 2018 s R502.11.1 a	), ble, Pl 1. g. d. ds. ds.					
TOP CHORD	4-5=-162/160, 5-6=-	-331/295, 3-4=-84/58 -163/161, 6-7=-162/1	l, '	) Graphical pu	rlin representation ation of the purlin	n does ne	ot depict the s	size					
BOT CHORD	10-11=-167/35, 9-10 7-8=-223/179 6-8=-94/58, 5-9=-23	2=-167/35, D=-431/192, 8-9=-242 32/144, 3-11=-309/28	2/98,	AD CASE(S)	Standard							TE OF	MISSO
this design 2) Wind: ASC Vasd=91n Ke=1.00; exterior zc Exterior(2 zone; can and right e	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 R) 4-9-3 to 9-9-3, Inter tilever left and right ex exposed;C-C for memi or reactions shown; Lu	n (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop 2E) 0-4-1 to 4-9-3, rior (1) 9-9-3 to 10-3- posed; end vertical I bers and forces &	oe) 2 left								A REAL PROPERTY AND A REAL	NATHA FO PE-2022	NIEL 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 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 181	
P250279-01	M1	Half Hip	1	1	Job Reference (optional)	165760559

-0-10-9

0-10-9

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:2WuDn3TsUZ8mtlEISN0jjZzbevu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

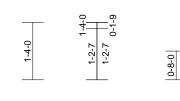
3-5-8

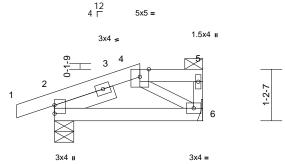
1-5-9

1-11-15

1-11-15

Page: 1





3-5-8

Scale = 1:26.9

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

Plate Offsets	(X, Y): [2:Edge,0-0-0]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TP	912014	<b>CSI</b> TC BC WB Matrix-P	0.06 0.14 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 2-6 2-6 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 16 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 Structural wood she 3-5-9 oc purlins, ex 2-0-0 oc purlins: 4-5 Rigid ceiling directly bracing.	athing directly applie cept end verticals, a applied or 10-0-0 or S= Mechanical 9)	be 6 a 8) Th Int Ra ed or 9) Gr or nd or or	earing plate and 76 lb u his truss is o ternational 302.10.2 ar raphical pu		tanding 3 rdance w sections indard AN n does no	0 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	joint and					
FORCES TOP CHORD BOT CHORD	Max Grav 2=221 (LC (Ib) - Maximum Com Tension 1-2=-5/0, 2-4=-139/1 5-6=-48/59	C 1), 6=143 (LC 1) pression/Maximum											
WEBS NOTES	4-6=-106/150												
<ul> <li>this desig</li> <li>Wind: AS</li> <li>Vasd=91r</li> <li>Ke=1.00;</li> <li>exterior zr</li> <li>and right</li> <li>exposed;</li> <li>reactions</li> <li>DOL=1.60</li> <li>Provide a</li> <li>This truss</li> <li>chord live</li> <li>Bearings</li> <li>capacity of</li> </ul>	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one 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 I eft and right prces & MWFRS for I.60 plate grip event water ponding = a 10.0 psf bottom th any other live loa nt 2 SP No.2 crushin	pe) eft J.							,		PE-2022	ANIEL P X MER 042259

CTION DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI

**IEW** 

04/04/2025 5:02:40

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 181	
P250279-01	M2	Monopitch	4	1	Job Reference (optional)	165760560

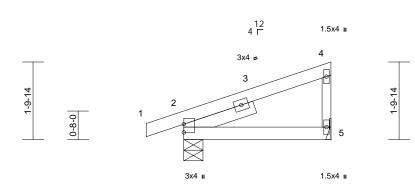
<u>3-5-8</u> 3-5-8

-0-10-9 0-10-9

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

04/04/2025 5:02:40



		3-5	5-8	4	
Scale = 1:27.1					
Plate Offsets (X, Y): [2:Edge,0-0-0]					

Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI           TC         0.2           BC         0.1           WB         0.0           Matrix-P         0.1	3 Vert(CT)	in -0.01 -0.02 0.00	(loc) 2-5 2-5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 16 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2 SLIDER Left 2x4 SP No.2 BRACING TOP CHORD Structural wood she 3-5-9 oc purlins, ex BOT CHORD Rigid ceiling directly bracing.	1-8-12 athing directly applie cept end verticals. applied or 10-00 oc 5= Mechanical 9) 2 8), 5=-37 (LC 12) C 1), 5=143 (LC 1) pression/Maximum 4, 4-5=-109/175 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop (E) zone; cantilever le left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load in t 2 SP No.2 crushin ss connections. (by others) of truss to adding 37 lb uplift at jo ance with the 2018 ections R502.11.1 ar	LOAD CASE(S)							STATE OF M STATE OF M NATHA FO PE-2022	MISSOLIA NIEL X 042259
WARNING - Verify design parame Design valid for use only with MiTek® a truss system. Before use, the build building design. Bracing indicated is is always required for stability and to fabrication, storage, delivery, erection and BCSI Building Component Safe	connectors. This design i ng designer must verify the to prevent buckling of indiv prevent collapse with poss and bracing of trusses an	s based only upon parameters s e applicability of design paramet vidual truss web and/or chord m ible personal injury and propert d truss systems, see <b>ANSI/TPI</b>	shown, and is for an individual ters and properly incorporate t embers only. Additional temp y damage. For general guidar 1 Quality Criteria, and DSB-	building component his design into the prary and permanent the regarding the 22 available from T	nt, not overall nt bracing russ Plate Ir	istitute (wi	ww.tpinst.c	org)		MENTS SERVICES

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	М3	Half Hip	1	1	Job Reference (optional)	165760561

3x6 🛛

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

## Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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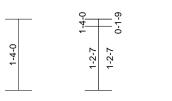


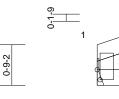


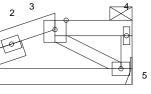
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3x4 =









3-2-0

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Plate Offsets (X, Y): [1:0-2-4,0-0-10]

- 1010 0110010 (	7, 1). [1.0-2-4,0-0-10	.1		-								
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.05 0.11	DEFL Vert(LL) Vert(CT)	in -0.01 -0.01	(loc) 1-5 1-5	l/defl >999 >999	L/d 240 180	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB Matrix-P	0.04	Horz(CT)	0.00	5	n/a	n/a	Woight: 12 lb	FT = 20%
BCDL	10.0	Code	IRC2018/1PI2014	Matrix-P							Weight: 13 lb	F1 = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2	athing directly applic cept end verticals, a	Internation R802.10.2 8) Graphical p or the orien bottom cho ad or LOAD CASE(S		le sections andard AN on does no	R502.11.1 a SI/TPI 1. ot depict the						
	bracing.											
REACTIONS	(size) 1= Mecha Max Horiz 1=42 (LC Max Uplift 1=-27 (LC Max Grav 1=138 (LC	C 8), 5=-33 (LC 8)	1									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD BOT CHORD WEBS NOTES	1-3=-125/126, 3-4=- 1-5=-132/87 3-5=-103/147	20/24, 4-5=-47/58										
	ed roof live loads have	been considered for	•									
Vasd=91rr Ke=1.00; ( exterior zo and right e exposed;C reactions s DOL=1.60	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical -C for members and f shown; Lumber DOL=	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip	eft								STE OF	ANIEL X
<ol> <li>This truss chord live</li> <li>Refer to gi</li> <li>Provide m bearing pla</li> </ol>	has been designed fo load nonconcurrent wi irder(s) for truss to trus echanical connection i ate capable of withstar b uplift at joint 5.	r a 10.0 psf bottom ith any other live load ss connections. (by others) of truss to	ds.								PE-2022	LENGI

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) RELEASE ICROMOTRUCTION AS NOTED ON LANS REVIEW DEVERSION OF LANS REVIEW LEE'S SUMMIT'S MISSOURI 04/04/2025 5:02:40

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	M4	Roof Special	1	1	Job Reference (optional)	165760562

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4zJC?f

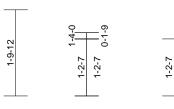


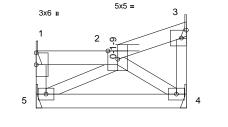


12 4 Г



3x4 =







0-10-15

3x4 =



Scale	

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	0.05	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%
			6)		designed in g		ith the 2010						
TOP CHORD BOT CHORD			7)		designed in accor Residential Code			and					
WEBS	2x4 SP No.2 2x3 SPF No.2				nd referenced star			anu					
BRACING	2X3 3FF N0.2		8)		rlin representation			size					
TOP CHORD	Structural wood abo	othing directly onnly	- /		ation of the purlin			0.20					
TOP CHORD	Structural wood she 3-2-0 oc purlins, ex			bottom chore		Ū	•						
	2-0-0 oc purlins: 1-2		9)	Gap betwee	n inside of top cho	ord bearir	ng and first						
BOT CHORD			с	•	vertical web shall r	not excee	ed 0.500in.						
	bracing.		LC	DAD CASE(S)	Standard								
REACTIONS	(size) 1= Mecha	anical, 3= Mechanica	al, 4=										
		al, 5= Mechanical											
	Max Horiz 1=35 (LC	<i>/</i> ·· ( <i>/</i>											
	Max Uplift 1=-25 (LC		=-10										
	(LC 8), 5=	( )	~~										
	Max Grav 1=56 (LC (LC 1), 5=	1), 3=47 (LC 1), 4= =81 (LC 1)	82										
FORCES	(lb) - Maximum Corr	pression/Maximum											
	Tension												
TOP CHORD		, 2-3=-51/38, 3-4=0/	0										
BOT CHORD		~~ // ~~											
WEBS	2-5=-100/104, 2-4=-	89/109											
NOTES													
	CE 7-16; Vult=115mph												The second se
	mph; TCDL=6.0psf; BC		\									TATE OF	A Price
	Cat. II; Exp C; Enclose one and C-C Exterior(2		pe)								c	FE OF I	NISS D
	) 1-8-10 to 3-0-12 zone										A		1.5
	osed ; end vertical left a										A	S NATHA	NIEL CAN
	ers and forces & MWF										de	FO	
	OL=1.60 plate grip DC		,								1	1 An	1
2) Provide a	dequate drainage to pr	event water ponding	g.								X T	1 The	I File
<ol><li>This truss</li></ol>	s has been designed for	r a 10 0 psf bottom										<b>//  / //</b> , /	

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
   Refer to girder(s) for truss to truss connections.
- Frovide to gliability for table to table connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5, 25 lb uplift at joint 1, 20 lb uplift at joint 3 and 10 lb uplift at joint 4.

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May 22,2024

NUMBER

PE-2022042259

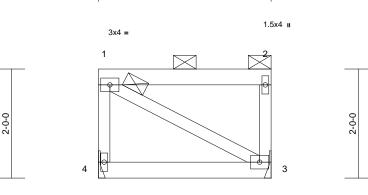
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	M5	Monopitch	1	1	Job Reference (optional)	165760563

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Page: 1



3-2-0

1.5x4 🛚



3-2-0	

					3-2-0							
Scale = 1:21.1												
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.21 0.10 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 3-4 3-4 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/TPI201					-			Weight: 14 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x3 SPF No.2 2-0-0 oc purlins: 1-2 Rigid ceiling directly		ıls.	SE(S) Standard								
	bracing. (size) 3= Mecha Max Horiz 4=-70 (LC Max Uplift 3=-49 (LC Max Grav 3=133 (LC	2 9), 4=-49 (LC 8)	al .									
FORCES	(lb) - Maximum Corr	,, , ,										
TOP CHORD BOT CHORD WEBS	Tension 1-4=-103/193, 1-2=- 3-4=-98/101 1-3=-72/72	35/38, 2-3=-103/157	,									
NOTES												
Vasd=91m Ke=1.00; C exterior zo and right e exposed;C	CE 7-16; Vult=115mph pph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 exposed ; end vertical C-C for members and f shown; Lumber DOL=	DL=6.0psf; h=35ft; ed; MWFRS (envelop ) zone; cantilever lef left and right orces & MWFRS for	ť								G R OF	MISSOL
	lequate drainage to pr has been designed fo		J.							A		
	load nonconcurrent w		ds.							A	S NATHA	
5) Provide me bearing pla	rder(s) for truss to trus echanical connection ate capable of withstar o uplift at joint 3.	(by others) of truss to									athank	A
<ul> <li>6) This truss</li> <li>Internation</li> <li>R802.10.2</li> <li>7) Graphical  </li> </ul>	is designed in accorda al Residential Code s and referenced stand purlin representation of ntation of the purlin al	ections R502.11.1 a lard ANSI/TPI 1. does not depict the s								SA SA	PE-2022	042259
	Jiu.										May	y 22,2024

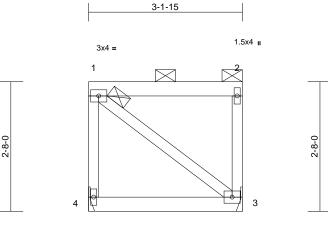
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	M6	Monopitch	1	1	Job Reference (optional)	165760564

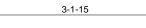
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1.5x4 🛚





Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	3-4	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	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
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	2-0-0 oc p	ourlins: 1-2, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	3= Mechanical, 4= Mechanical
	Max Horiz	4=97 (LC 9)
	Max Uplift	3=-68 (LC 9), 4=-68 (LC 8)
	Max Grav	3=133 (LC 1), 4=133 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-4=-124/	227, 1-2=-49/53, 2-3=-103/157
BOT CHORD	3-4=-136/	/140
WEBS	1-3=-112/	/112
NOTES		
1) Wind: AS	CE 7-16; Vu	It=115mph (3-second gust)
Vasd=91n	nph; TCDL=	6.0psf; BCDL=6.0psf; h=35ft;
Ke=1.00;	Cat. II; Exp	C; Enclosed; MWFRS (envelope)

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 68 lb uplift at joint 3.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

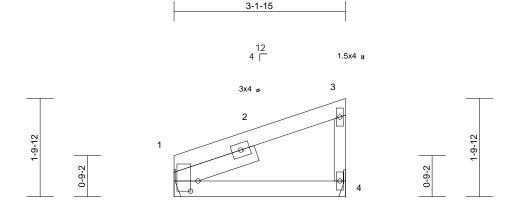


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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	M7	Monopitch	1	1	Job Reference (optional)	165760565

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







1.5x4 🛚



Scale = 1:21.3

Plate Offsets (X, Y): [1:0-2-4,0-1-10]

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	0.24	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	1-4	>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

LUWIDER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x3 SPF No.2	
SLIDER	Left 2x4 SP No.2 1-7-5	
BRACING		
TOP CHORD	Structural wood sheathing directly applie	ed or
	3-1-15 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 or	)
	bracing.	
REACTIONS	(size) 1= Mechanical, 4= Mechanica	ıl
	Max Horiz 1=70 (LC 9)	
	Max Uplift 1=-23 (LC 8), 4=-38 (LC 12)	
	Max Grav 1=138 (LC 1), 4=138 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum	
	Tension	
TOP CHORD	1-3=-85/52, 3-4=-107/162	
BOT CHORD	1-4=-30/33	
NOTES		
1) Mind AC	E 7 16: Vult 11Emph (2 accord quat)	
,	CE 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.
- 3) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 4) bearing plate capable of withstanding 23 lb uplift at joint 1 and 38 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 5) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



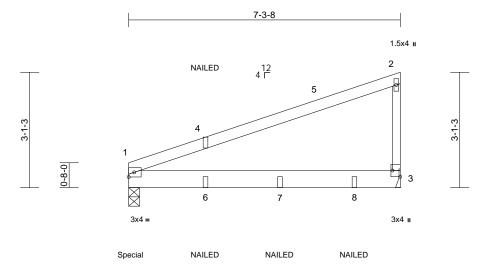
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only 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 181	
P250279-01	M8	Monopitch Girder	1	1	Job Reference (optional)	165760566

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Page: 1



7-3-8

Special

Scale = 1:30.9

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

	1). [0:Eugo,o E o]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI	T E V	CSI FC BC WB Matrix-P	0.63 0.67 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.07 -0.13 0.00	(loc) 1-3 1-3 3	l/defl >999 >661 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 197/144 FT = 20%
BOT CHORD 2 WEBS 2 BRACING TOP CHORD 5 BOT CHORD 5 BOT CHORD 6 BOT CHORD 6 BOT CHORD 7 BOT CHORD 7 FORCES (1 FORCES (1 BOT CHORD 1 BOT CHORD 1 BOT CHORD 1 BOT CHORD 1 BOT CHORD 1 BOT CHORD 1 NOTES 1) Wind: ASCE 7 Vasd=91mph Ke=1.00; Cat exterior zone Interior (1) 5- exposed ; end members and Lumber DOL 2) This truss has chord live Ioa 3) Bearings are capacity of 42 4) Refer to girde 5) Provide mech bearing plate joint 1 and 21 6) This truss is of International	-0-0 oc purlins, ex Rigid ceiling directly rracing. ze) 1=0-3-8, 2 ax Horiz 1=128 (L0 ax Uplift 1=-143 (L0 ax Grav 1=558 (L0 b) - Maximum Com rension -2=-183/102, 2-3=- -3=-55/60 7-16; Vult=115mph ; TCDL=6.0psf; BC . II; Exp C; Enclose and C-C Exterior(2 1-12 to 7-2-4 zone; d vertical left and right forces & MWFRS =1.60 plate grip DC s been designed for d nonconcurrent wi assumed to be: Joi 25 psi. er(s) for truss to trus nanical connection ( capable of withstar 5 lb uplift at joint 3. designed in accordation	applied or 10-0-0 oc 3= Mechanical C 28) C 8), 3=-215 (LC 12) C 1), 3=619 (LC 1) pression/Maximum 246/327 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-1-12 to 5-1-12, cantilever left and rig ght exposed;C-C for for reactions shown; DL=1.60 r a 10.0 psf bottom th any other live load int 1 SPF No.2 crushi as connections. (by others) of truss to rig 143 lb uplift at ance with the 2018 ections R502.11.1 ar	e) e) e) e) e) e) e) e) e) e)	r NDS guidel nger(s) or ot vided suffici down and 33 up at 7-2-4 c th connectio the LOAD C/ the truss are <b>CASE(S)</b> S ead + Roof I late Increase niform Load: Vert: 1-2=-7 oncentrated	ther connection d lent to support co 8 lb up at 0-1-12, on bottom chord. In device(s) is the ASE(S) section, I noted as front (F Standard Live (balanced): I ==1.15 s (lb/ft) 70, 1-3=-20	levice(s ancentra and 12 The de respor oads ap oads ap ) or ba	) shall be ted load(s) 1 8 lb down ar ssign/selectid ssibility of oth oplied to the ck (B). Increase=1.	29 nd 28 on of hers. face 15,				STATE OF I NATHA FO PE-2022	BER OLZ

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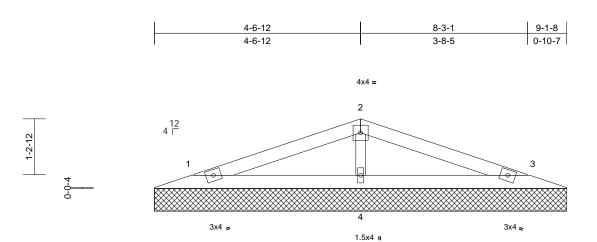
TION IEW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 04/04/2025 5:02:41

Conner May 22,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 181	
P250279-01	V1	Valley	1	1	Job Reference (optional)	165760567

1-6-8

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:82QJHwSs83Y2lwv7j9oYtZzbfH9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Scale	=	1:20.0

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	I										
nacing	200	C81	DEEL	in	(loc)	l/dofl	L/d		CRIP		

<b>Loading</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	18/TPI2014	CSI TC BC WB Matrix-S	0.21 0.13 0.06	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 26 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she		5	<ul> <li>All bearings a capacity of 5</li> <li>Provide mecibearing plate 1, 39 lb uplift</li> <li>This truss is</li> </ul>	are assumed to	ction (by othe thstanding 3 44 lb uplift a ccordance wi	ers) of truss t 6 lb uplift at j t joint 4. th the 2018	oint				Weight. 20 ib	11 = 2076
BOT CHORD	6-0-0 oc purlins. Rigid ceiling directly	;		nd referenced									
	bracing. <b>REACTIONS</b> (size) 1=9-1-8, 3=9-1-8, 4=9-1-8 Max Horiz 1=-23 (LC 17) Max Uplift 1=-36 (LC 8), 3=-39 (LC 13), 4=-4 (LC 8) Max Grav 1=149 (LC 25), 3=149 (LC 26), 4=375 (LC 1)												
FORCES	(lb) - Maximum Com Tension	,											
TOP CHORD BOT CHORD WEBS	1-2=-60/50, 2-3=-60 1-4=-1/23, 3-4=-1/23 2-4=-264/261												
,	ed roof live loads have	been considered for											
Vasd=91m	n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II: Exp.C: Enclose	DL=6.0psf; h=35ft;	.e)									CE I	ALL

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

OF MISSO NATHANIEL FOX BER PE-2022042259 SIONAL E May 22,2024

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 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 181	165760568
P250279-01	V2	Valley	1	1	Job Reference (optional)	

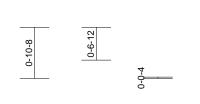
2-6-12

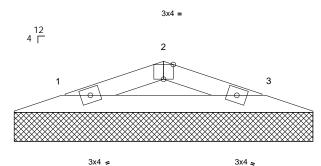
2-6-12

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

#### Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:82QJHwSs83Y2lwv7j9oYtZzbfH9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





5-1-8

4-3-1

1-8-5

5-1-8 0-10-7

Scale :	= 1:19.8	

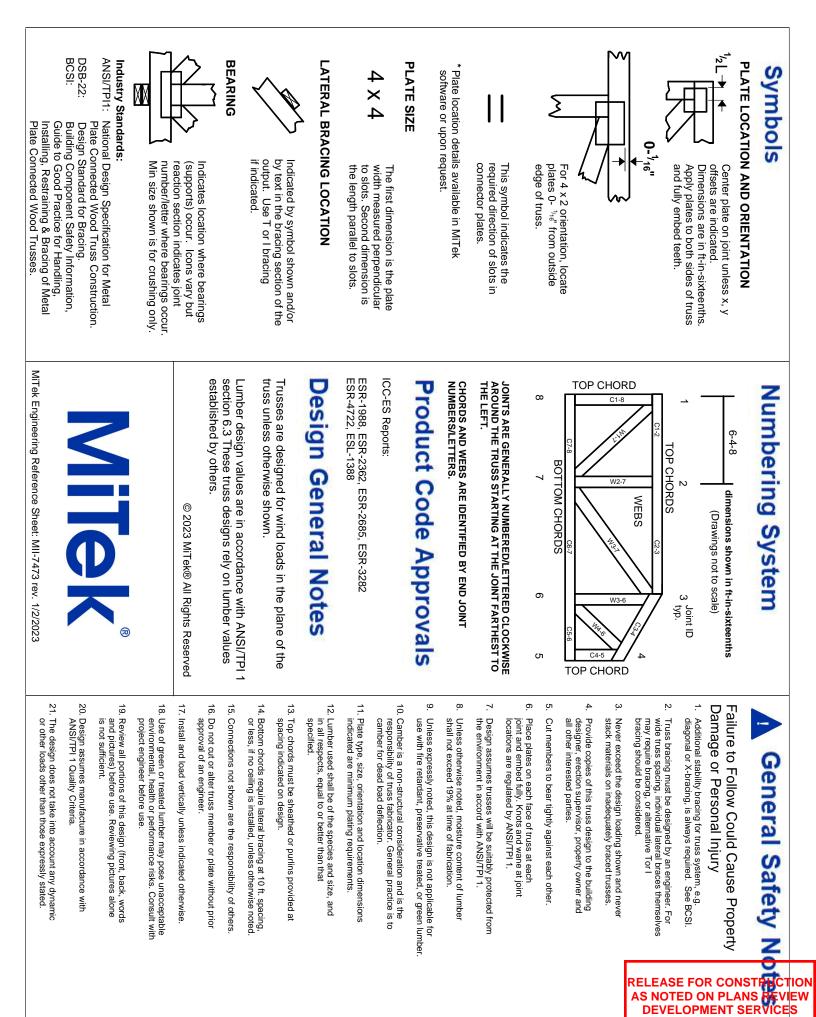
# Plate Offsets (X, Y): [2:0-2-0,Edae]

Plate Offsets (X, Y): [2:0-2-0,Edge]	-								
Loading         (psf)           TCLL (roof)         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Spacing2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018	/TPI2014	0.10 0.14	DEFL in Vert(LL) n/a Vert(TL) n/a Horiz(TL) 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 13 lb	<b>GRIP</b> 244/190 FT = 20%
5-3-0 oc purlins.	9) eathing directly applied or 7 applied or 10-0-0 oc 3=5-1-8 16) C 8), 3=-27 (LC 9) C 1), 3=152 (LC 1) hpression/Maximum -198/243 e been considered for from (3-second gust) CDL=6.0psf; h=35ft; ad; MWFRS (envelope) 2E) zone; cantilever left left and right forces & MWFRS for 1.60 plate grip in the plane of the truss d (normal to the face), dd Details as applicable, igner as per ANSI/TPI 1. m chord bearing. r a 10.0 psf bottom ith any other live loads.	Provide mechanical connection bearing plate capable of withs 1 and 27 lb uplift at joint 3. This truss is designed in accon- International Residential Code R802.10.2 and referenced sta <b>AD CASE(S)</b> Standard	standing 27 ordance with e sections F	′ lb uplift at joint h the 2018 R502.11.1 and				NATHAN FOX PE-20220	42259 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 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)

**TRUCTION IEW** DEVELOPMENS SERVICES LEE'S'SUMMIT'SMISSOURI

04/04/2025 5:02:41



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

5:02:41

04/04/2025