

MiTek, Inc. RE: P240424-01 - Roof - HR Lot 181 16023 Swinalev Ridae Rd. Site Information: Project Customer: Clayton Properties Project Name: Tupelo - Farmhouse 3 Car 314.434.1200 Chesterfield, MO 63017 Lot/Block: 181 Subdivision: Hawthorne Ridge Model: Address: 1621 SW Arborway Ter City: Lee's Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design **Drawings Show Special Loading Conditions):** Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Roof Load: 45.0 psf Floor Load: N/A psf Mean Roof Height (feet): 35 Exposure Category: C No. Seal# Truss Name Date No. Seal# Truss Name Date 165267704 A01 5/2/24 35 36 37 38 39 40 165267738 .1055/2/24 12345678910112 A02 165267739 165267705 J06 2/24 165267740 165267706 A03 .107 2124 5/2/24 B01 165267741 **J**08 165267707 2/24 165267708 165267742 J09 B02 2120 **B**03 165267709 165267743 J10 2/24 l65267710 l65267711 41 42 C01 C02 165267744 5/2/24 165267745 ĽG01 5/2/24 165267712 165267712 165267713 165267714 165267715 Č03 CJ01 43 165267746 LG02 5/2/24 5/2/24 44 165267747 LG03 CJ02 45 165267748 V01 5/2/24 5/2 46 47 D01 5/2/24 165267749 V02 13 14 165267716 D02 165267750 V03 5/2/24 165267717 48 D03 5/2/24 165267751 15 16 17 18 l65267718 l65267719 49 50 51 52 D04 5/2/24 165267752 V05 D05 16526775 5/2/24 V06 165267720 D06 5/2/24 165267754 V07 165267721 D07 5/2/24 165267755 53 54 55 56 19 20 21 22 23 24 25 26 27 29 30 32 33 33 33 165267722 D08 5/2/24 165267756 165267723 D09 5/2/24 16526775 165267724 D10 5/2/24 165267758 V11 165267725 D11 2124 165267759 165267726 D12 57 165267760 /2/24 165267727 D13 761 165267728 D14 165267729 D15 E01 E02 165267730 165267731 165267732 E03 165267733 J01 RELEASE FOR CONSTRUCTION 165267734 **J**01A **AS NOTED ON PLANS REVIEW** 165267735 J02 165267736 165267737 J03 **DEVELOPMENT SERVICES**

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

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

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



Sevier, Scott

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	A01	Common Supported Gable	1	1	Job Reference (optional)	165267704

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Scale = 1:51.5

Plate Offsets (X, Y): [22:0-2-8,0-3-0]

			1													
Loading		(psf)	Spacing Blate Grip DO	2-0-0		CSI	0.09	DEFL	in n/a	(loc)	l/defl	L/d	PLATES	GRIP		
		25.0	Lumber DOL	1.15			0.08	Vert(LL)	n/a	-	n/a	999	IVI I 20	197/144		
BCU		0.0*	Ren Stress Incr	VES		WB	0.07	Horz(CT)	0.00	14	n/a	000 n/a				
BCDI		10.0	Codo		10/TDI2014	Motrix P	0.20	11012(01)	0.00	14	n/a	n/a	Woight: 100 lb	ET - 20%		
BCDL		10.0	Code	IKC20	10/11/2014	Maultx-IX							Weight. Too ib	FT = 2076		
LUMBER				V	VEBS 7	7-19=-222/66, 6-20=	=-159/9	8, 5-21=-147	7/115,	11) Pro	vide me	chanic	al connection (by	others) of truss to		
TOP CHORD	2x4 SP N	lo.2			4	1-22=-145/116, 3-23	3=-159	/137,		bea	ring plat	e capa	ble of withstandi	ng 81 lb uplift at joint		
BOT CHORD	2x4 SP N	lo.2			8	3-18=-157/98, 9-17=	=-148/1	15,		24,	47 lb up	lift at jo	pint 14, 73 lb uplif	t at joint 20, 85 lb		
WEBS	2x4 SP N	lo.2		10-16=-148/117, 11-15=-154/139 uplift at joint 21, 64 lb upli ioint 22, 72 lb uplift at joint									4 lb uplift at joint 2	22, 132 lb uplift at		
OTHERS	2x3 SPF	No.2		1	NOTES Joint 23, 72 lb uplift at joint 16 ar									uplift at joint 17, 66		
BRACING				1) Unbalanced	roof live loads have	been (considered fo	or	12) Thi	pint at ju struccio		and in accordance	a juint 15.		
TOP CHORD	Structura	I wood she	athing directly applie	ed or	this design.		(0			Inte	rnationa	l Resid	tential Code sect	ions R502 11 1 and		
	6-0-0 oc	purlins, exe	cept end verticals.	2) Wind: ASCE	7-16; Vult=115mph	1 (3-sec	cond gust)		R8	12 10 2 2	and ref	erenced standard	ANSI/TPI 1		
BOT CHORD	Rigid ceil	ling directly	applied or 10-0-0 oc	0	Vasd=91mpr	1; TODL=6.0pst; BO		Jpsr; n=35rt;	20)		CASE(S	Sta	ndard			
	bracing.				exterior zone	and C-C Corner(3)	E) -0-1	7-8 to 4-0-0	pe)	LOAD		014	laara			
REACTIONS	(size)	14=20-0-0), 15=20-0-0, 16=20	-0-0,	Exterior(2N)	4-0-0 to 10-0-0 Co	rner(3F	2) 10-0-0 to								
		17=20-0-0), 18=20-0-0, 19=20) 21-20 0 0 22-20	-0-0,	15-0-0. Exter	ior(2N) 15-0-0 to 20	0-10-8	zone: cantile	ver							
		20=20-0-0), 21=20-0-0, 22=20) 24-20-0-0	-0-0,	left and right	exposed ; end verti	ical left	and right								
	Max Horiz	20=20 0 0 24=228 (I	C 11)		exposed;C-C	for members and f	forces a	& MWFRS for	r							
	Max Uplift	14=-47 (I	C 9) 15=-127 (I C 1	3)	reactions sho	wn; Lumber DOL=	1.60 pl	ate grip								
	max opint	16=-66 (L	C 13). 17=-85 (LC 1	3).	DOL=1.60											
		18=-72 (LC 13), 20=-73 (LC 12), 3) Truss designed for wind loads in the plane of the truss														
		21=-85 (L	C 12), 22=-64 (LC 1	2),	only. For stu	ds exposed to wind	d (norm	al to the face	e),							
		23=-132 (LC 12), 24=-81 (LC	8)	see Standard	Industry Gable En	d Deta	ils as applica	ble,							
	Max Grav	14=174 (L	_C 19), 15=208 (LC 2	20),	or consult qu	alified building desi	igner as	s per ANSI/11	PI1.							
		16=185 (L	_C 20), 17=189 (LC 2	20), 4	 All plates are Coble require 	1.5x4 MI20 Unless	s other	wise indicated	α.							
		18=197 (L	_C 20), 19=212 (LC 2	22),	 Gable require Truce to be f 	es continuous potto		a bearing.			~					
		20=199 (L	LC 19), 21=187 (LC	19), ^c	braced again	st lateral movemen	t (i e d	iagonal web)					and	all		
		22=182 (L	LC 1), 23=220 (LC 1)	9), 7	 Gable studs 	spaced at 2-0-0 oc	11 (1.0. 0	lagonal web)					B.F. OF M	AIS S		
FORCES	(Ib) Max	24=205 (L	-C 20)		 This truss has 	s been designed fo	ra 10.0) psf bottom				4	7 Mil	N'SON		
FURGES	(ID) - IVIAX	amum Com	pression/waximum		chord live loa	ad nonconcurrent w	ith any	other live loa	ıds.			B	SCOTT	N. Y. M.		
	2-24=-17	0/75 1-2=0)/40 2-3=-151/138	ç) * This truss h	as been designed f	for a liv	e load of 20.0	0psf			B	SEVI	FR VV		
	3-4=-114	/109 4-5=-	100/137 5-6=-113/2	207	on the bottor	n chord in all areas	where	a rectangle			_	AA	JUL VI			
	6-7=-150	/275. 7-8=-	150/275. 8-9=-113/2	207.	3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botte	om	AX TOTAL						
	9-10=-73	/130, 10-11	=-80/77, 11-12=-109	9/96,	chord and ar	y other members.	~ ~				-	K	un.			
	12-13=0/	40, 12-14=-	-147/71	1	0) All bearings	are assumed to be	SP No.	2 crushing		NUMBER /						
BOT CHORD	23-24=-9	7/117, 21-2	23=-98/117,		capacity of 5	65 psi.						N	ON PE-20010	018807 JEP		
	20-21=-9	8/117, 19-2	20=-98/117,									N.	To la	18A		
	18-19=-9	8/117, 17-1	8=-98/117,									1	1380	NO'A		
	16-17=-9	8/117, 15-1	6=-98/117,										ONA	LEIA		
	14-15=-98/117												an	and a		
													Ma	y 2,2024		

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	ss Truss Type Qty		Ply	Roof - HR Lot 181				
P240424-01	A02	Common	3	1	Job Reference (optional)	165267705			

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Scale = 1:53.3	
Plate Offsets (X, Y):	[2:0-2-0.0-1-12]. [8:0-4-0.0-3-4]

Plate Olisets	(A, T). [2.0-2-0,0-1-12	2], [0.0-4-0,0-3-4]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.36 0.94 0.73	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.37 0.03	(loc) 8-9 8-9 7	l/defl >999 >637 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 94 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce 2400F 2.0E Structural wood she 5-10-15 oc purlins, Rigid ceiling directly bracing. (size) 7= Mecha Max Horiz 9=222 (Lt Max Uplift 7=-123 (L Max Grav 7=885 (Lt	ept* 9-2,7-6:2x4 SP eathing directly applie except end verticals applied or 2-2-0 oc anical, 9=0-3-8 C 9) .C 13), 9=-149 (LC 1 C 1), 9=960 (LC 1)	4) 5) ed or 6) 7) 8) 2) LC	* This truss I on the bottor 3-06-00 tall I chord and an Bearings are capacity of 5 Refer to gird Provide mec bearing platt joint 9 and 1 This truss is International R802.10.2 a DAD CASE(S)	has been designed m chord in all areas by 2-00-00 wide will ny other members. assumed to be: Jo i65 psi. ler(s) for truss to tru chanical connection a capable of withsta 23 lb uplift at joint 7 designed in accord Residential Code s nd referenced stand Standard	for a liv where fit betw bint 9 SI ss conr (by oth unding 1 : ance w sections dard AN	e load of 20.1 a rectangle veen the bott P No.2 crushi nections. ers) of truss i 49 lb uplift a ith the 2018 i R502.11.1 a ISI/TPI 1.	Opsf om ing to t						
FORCES	(lb) - Maximum Com Tension	npression/Maximum												
TOP CHORD	1-2=0/40, 2-3=-507/ 4-5=-874/203, 5-6=- 6-7=-362/117	/160, 3-4=-872/201, -440/103, 2-9=-476/1	181,											
BOT CHORD WEBS	7-9=-185/863 4-8=-91/550, 3-9=-6 3-8=-296/237, 5-8=-	640/108, 5-7=-709/15 6307/241	50,											
NOTES												~	~	
 Unbalanc this desig Wind: AS Vasd=91i Ke=1.00; exterior z 	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	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop 2E) -0-10-8 to 4-1-8,	r be)									STATE OF I	MISSOUR T.M. ER	

Interior (1) 4-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-9-12, Interior (1) 14-9-12 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. PE-200101880 SIONAL E May 2,2024

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181				
P240424-01	A03	Common	7	1	Job Reference (optional)	165267706			

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Scale = 1:51.2

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

Loading TCLL (roof)(psf) 25.0Spacing Plate Grip DOL2-0-0CSI TCDEFLin(loc)l/deflL/dPLATES MT20GRIP MT20TCDL TCDL10.01.15TC0.36Vert(LL)-0.187-8>999240MT20244/190BCLL 0.0*0.0*Rep Stress Incr CodeYESBC0.95Vert(CT)-0.377-8>633180MT20244/190LUMBER TOP CHORD10.0CodeIRC2018/TPI2014Matrix-SMatrix-SWeight: 93 lbFT = 20%LUMBER TOP CHORD2x4 SP No.2*** <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>															
LUMBER 4) * This truss has been designed for a live load of 20.0psf TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BST CHORD 2x3 SPF No.2 *Except* 8-1,6-5:2x4 SP No.2 BRACING 5 TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins, except end verticals. 6) Refer to girder(s) for truss to truss connections. 7) Bravide comparison (by others) of trues to trues to trues to trues to trues to true to protection (by others) of trues to true to the prochastion (by others) of trues to trues to true to the prochastion (by others) of trues to trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to true to the prochastion (by others) of trues to the prochastion (by others) of true to the prochastion (by others) of	Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-S	0.36 0.95 0.74	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.37 0.03	(loc) 7-8 7-8 6	l/defl >999 >633 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 93 lb	GRIP 244/190 FT = 20%	
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. (i) Prove mechanical connection (by others) of those to bearing plate capable of withstanding 123 lb uplift at joint 8 and 12	LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 5-11-2 oc purlins, e Rigid ceiling directly bracing. (size) 6= Mecha Max Horiz 8=209 (LC	pt* 8-1,6-5:2x4 SP N athing directly applied xcept end verticals. applied or 2-2-0 oc nical, 8=0-3-8 2 9)	4) o.2 5) d or 6) 7) 8)	* This truss h on the bottom 3-06-00 tall b chord and an Bearings are capacity of 5 Refer to girdd Provide mecl bearing plate joint 8 and 12 This truss is International	has been designed in chord in all area y 2-00-00 wide w y other members assumed to be: J 65 psi. ar(s) for truss to tr hanical connection capable of withst 23 lb uplift at joint designed in accor Residential Code	I for a liv s where II fit betw oint 8 SF uss conr th (by othe anding 1 6. dance wi sections	e load of 20.0 a rectangle reen the both P No.2 crushi ections. ers) of truss t 23 lb uplift at th the 2018 R502.11.1 a	Opsf com ing to t				-		

LOAD CASE(S) Standard

NOTES

WEBS

FORCES

TOP CHORD

BOT CHORD

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

2-7=-307/241, 4-7=-307/242

Tension

6-8=-188/873

(lb) - Maximum Compression/Maximum

1-2=-434/102, 2-3=-877/203, 3-4=-877/203, 4-5=-434/102, 1-8=-359/116, 5-6=-358/116

3-7=-93/558, 2-8=-718/151, 4-6=-718/151,

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-2-4, Interior (1) 5-2-4 to 10-0-0, Exterior(2R) 10-0-0 to 14-9-12, Interior (1) 14-9-12 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

OF MISS SCOTT M. SEVIER PE-2001018807 \sim SIONAL E



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181				
P240424-01	B01	Common Supported Gable	1	1	Job Reference (optional)	165267707			

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Scale =	1:34.9
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Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/T	FPI2014	CSI TC BC WB Matrix-R	0.10 0.04 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 49 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep 2x3 SPF No.2 Structural wood shei 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 9=11-0-0, 12=11-0-0 (12=11-0-0) 15=11-0-0 (12=11-0-0) 12=11-0-0, 11=-78 (L 11=-78 (L 11=-29) (L 11=-20) (L 11=200 (L 11=200 (L) 13=203 (L) 13=203 (L) 13=203 (L) 13=165 (L)	t* 8-9:2x3 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc 10=11-0-0, 11=11-0-0, 1, 13=11-0-0, 14=11-0-0, 1, 13=11-0-0, 14=11-0-0, 1, 13=-10-0, 14=11-0-0, 1, 13=-79 (LC 13), C 13), 13=-79 (LC 13), C 13), 13=-79 (LC 13), C 13), 10=192 (LC 20), C 20), 12=164 (LC 22), C 19), 14=173 (LC 15), C 20)	2) \ 2) \ 4 5) (-0, (5) (6) - 7) (7) (8) - 7) (2) - 8) - 7) (6) - 7) (6) - 7) (7) (8) - 7) (8) (8) - 7) (8)	Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior zone Exterior(2N) - Exterior(2N) ight exposed for members Lumber DOL Truss design ponly. For stu see Standarco for consult qu All plates are Gable require Truss to be fn Gable studs : This truss ha chord live loa the truss to to show or a the bottom	7-16; Vult=115m i; TCDL=6.0psf; i: II; Exp C; Enclo and C-C Corner 4-1-8 to 5-6-0, C 10-6-0 to 10-10- 10-6-0 to 10-10- i ; end vertical le and forces & MV =1.60 plate grip le ds exposed to w =1.60 plate grip le ds exposed to w =1.60 plate grip le ds exposed to w 1 ndustry Gable alified building dr 1.5x4 MT20 unless s continuous bo ully sheathed from st lateral movem spaced at 2-0-0 of s been designed dd nonconcurrent as been designed a chord in all area	ph (3-sec BCDL=6.0 bsed; MW (3E) -0-10 orner(3R) 12 zone; c ft and righ VFRS for DOL=1.60 s in the pl ind (norm End Detai esigner as ess othen ttom chor m one fac ent (i.e. d oc. for a 10.0 with any d for a liv as where	ond gust))psf; h=35ft; FRS (envelop)-8 to 4-1-8, 5-6-0 to 10-6 cantilever left it exposed;C- reactions sho) ane of the tru al to the face ³ is as applicat s per ANSI/TF wise indicated d bearing. e or securely iagonal web).) psf bottom other live load e load of 20.0.	be) i-0, and C wm; ss , , ble, tl. I. ds. psf					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	3	3-06-00 tall b	y 2-00-00 wide v	vill fit betw	veen the botto	m					
TOP CHORD	2-15=-135/114, 1-2= 3-4=-76/115, 4-5=-10 6-7=-59/109, 7-8=-50	:0/40, 2-3=-95/86, 09/213, 5-6=-108/208 6/53, 8-9=-52/24	10)	All bearings a capacity of 5	are assumed to b 65 psi.	e SP No.	2 crushing	2				Contraction of the	and
BOT CHORD	14-15=-50/55, 13-14 11-12=-50/55, 10-11	=-50/55, 12-13=-50/5 =-50/55, 9-10=-50/55	5, L	pearing plate	capable of withs	standing 5	9 lb uplift at jo 13 0 uplift at jo	oint			4	ATE OF 1	WISSOL
WEBS NOTES 1) Unbalance this design	5-12=-129/15, 4-13= 3-14=-126/156, 6-11 7-10=-144/183	164/182, =-160/188, been considered for	j 12) - I	uplift at joint oint 10. This truss is o nternational R802.10.2 ar	14, 78 lb uplift at designed in acco Residential Code ad referenced sta	joint 11 a ordance wi e sections andard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	at		ء ج	S.		I M. ER BER

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May 2,2024

PE-200101880'

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181				
P240424-01	B02	Common	3	1	Job Reference (optional)	165267708			

-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. Tue Apr 30 13:46:55 ID:KI0MyJyFVm2_jbi5qzwlUrzWx1Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





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

Scale = 1:39.1

-													
Loading	(psf)	Spacing	2-0-0		CSI	0.4E	DEFL	in 0.02	(loc)	l/defl	L/d	PLATES	GRIP
	25.0		1.15		BC	0.45	Vert(CT)	-0.02	6-7	>999	240 180	WI120	197/144
BCU	0.0*	Ren Stress Incr	VES		WB	0.20	Horz(CT)	0.04	5	>333 n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S	0.07	11012(01)	0.00		n/a	n/a	Weight: 51 lb	FT = 20%
LUMBER			5)	All bearings	are assumed to be	e SP No.	2 crushing						
TOP CHORE	2x4 SP No.2			capacity of 5	65 psi.								
BOT CHORE	2x4 SP No.2		6)	Provide mec	hanical connection	n (by oth	ers) of truss t	to					
WEBS	EBS 2x3 SPF No.2 *Except* 7-2,5-4:2x4 SP No.2 bearing plate capable of withstanding 92 lb uplift at joint 7 and 65 lb unlift at joint 5												
BRACING			7)	7 and 65 lb t	ipilit at joint 5. designed in accor	dance w	ith the 2018						
TOP CHORE	Structural wood sheat	athing directly appli	ed or ()	International	Residential Code	sections	R502 11 1 a	and					
	6-0-0 oc purlins, exe	cept end verticals.		R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.						
BUICHURL	bracing.	applied of 10-0-0 0	LC	DAD CASE(S)	Standard								
REACTIONS	(size) 5=0-3-8, 7	/=0-3-8											
	Max Horiz 7=138 (LC	C 9)											
	Max Uplift 5=-65 (LC	13), 7=-92 (LC 12))										
	Max Grav 5=478 (LC	C 1), 7=557 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORL) 1-2=0/40, 2-3=-520/	154, 3-4=-513/150,											
	2-7=-309/221, 4-3=-4	430/160 114/211											
WEBS	3-6=0/215 2-6=-82/	200 4-6=-53/197											
NOTES	0 0-0/210, 2 0- 02/	200, 102 00,107											
1) Unbaland	ced roof live loads have	been considered fo	nr										
this desig	an.		<i>,</i>										
2) Wind: AS	SCE 7-16; Vult=115mph	(3-second gust)											Th
Vasd=91	mph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;										OF	ALC D
Ke=1.00;	; Cat. II; Exp C; Enclose	d; MWFRS (envelo	pe)									Fre	JUSS W
exterior z	zone and C-C Exterior(2	E) -0-10-8 to 4-1-8,									6	AN'	N.S.
Interior (1) 4-1-8 to 5-6-0, Exterio	or(2R) 5-6-0 to 10-6	-U,								B	SCOT	ГМ. \?~ У
right exp	i) 10-0-0 to 10-10-4 ZON	e, cantilever ien an nd right exposed C.	u _C								R	/ SEVI	ER \ Y
for memb	pers and forces & MWFF	RS for reactions sho	own:								10	1	- 1 1

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

* This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

NUMBER PE-200101880' SIONAL E May 2,2024

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

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	B03	Common Girder	1	2	Job Reference (optional)	165267709

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:55 ID:NKjSjSJVQakGIWU1jorOP2zWwwe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	3-2-10	5-6-0	7-9-6	j 11-0-0 j	
	3-2-10	2-3-6	2-3-6	3-2-10	
Scale = 1:41.4					
Plate Offsets (X, Y); [2:Edge.0-4-2], [6:Edge.0-4-2], [8:0-5-0.0-5-12]					

	s (X, T): [2:Euge;0-4-2],	[0.Luge,0-4-2], [0.0-	-3-0,0-3-12	-1									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2017	8/TPI2014	CSI TC BC WB Matrix-S	0.59 0.86 0.68	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.07 0.02	(loc) 8-9 8-9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 121 lb	GRIP 197/144 FT = 20%
								-					
LUMBER TOP CHOR BOT CHOR WEBS WEDGE BRACING TOP CHOR BOT CHOR REACTION	 2x4 SP No.2 2x8 SPF No.2 2x3 SPF No.2 Left: 2x4 SP No.2 Right: 2x4 SP No.2 Structural wood sheat 5-4-14 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=117 (LC Max Uplift 2=-982 (LL 	athing directly applie applied or 10-0-0 oc 5=0-3-8 2 32) C 12), 6=-950 (LC 1:	3) 4) ed or 5) 3) 6)	Unbalanced this design. Wind: ASCE Vasd=91mpt Ke=1.00; Ca exterior zone Interior (1) 4- Interior (1) 14- Interior (1) 14- Interior (1) 4- Interior (1) 4- Inte	roof live loads hav 7-16; Vult=115mp n; TCDL=6.0psf; B t. II; Exp C; Enclos and C-C Exterior 1-8 to 5-6-0, Exte)-6-0 to 10-10-4 z d; end vertical left and forces & MW =1.60 plate grip D s been designed f id nonconcurrent i has been designed o chord in all area	the been of bh (3-sec iCDL=6. sed; MW (2E) -0- ⁻ rior(2R) one; can and righ FRS for iOL=1.60 for a 10.0 with any I for a liv s swhere	considered fo cond gust) pps; h=35ft; FRS (envelop 0-8 to 4-1-8, 5-6-0 to 10-6- tilever left and t exposed;C- reactions sho 0) psf bottom other live loae e load of 20.0.0	r 0, J C wn; ds. ipsf	Cc	oncentra Vert: 8= 13=-154	ted Lo. -1543 I3 (B)	ads (lb) (B), 7=-1543 (B),	12=-2080 (B),
	Max Grav 2=3319 (L	C 1), 6=4427 (LC 1)) ´	3-06-00 tall by 2-00-00 wide will fit between the bottom									
FORCES	(lb) - Maximum Com	pression/Maximum		chord and any other members.									
TOP CHOR	Tension 1-2=0/14, 2-3=-4762 4-53797/1155, 5-6	2/1510, 3-4=-3793/11	7) 151,	All bearings a capacity of 4	are assumed to be 25 psi.	e SPF No	0.2 crushing	_					
BOT CHOR	2-9=-1103/3614, 8-9 7-8=-921/3899, 6-7=	=-1103/3614, 921/3899	0)	bearing plate	capable of withst	anding 9	82 lb uplift at	5					
WEBS	3-9=-562/1284, 3-8= 4-8=-1187/3954, 5-8 5-7=-217/1797	-782/447, =-1139/192,	9)	 i) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10.2 and referenced standard ANSI/TPL1 								and the	
NOTES			10) Use Simpsor	Strong-Tie HHUS	S28-2 (2	2-10d Girder,					A OF M	AIS C
 2-ply tru (0.131"x Top cho oc. Bottom staggere Web coi All loads except if CASE(S provided unless coi 	ss to be connected toget 3") nails as follows: rds connected as follows: chords connected as follows d at 0-4-0 oc. nnected as follows: 2x3 - are considered equally noted as front (F) or bar) section. Ply to ply conn to distribute only loads therwise indicated.	ther with 10d s: 2x4 - 1 row at 0-9-1 ows: 2x8 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO tections have been noted as (F) or (B),	0 11 12 IAD LC 1)	 8-10d Truss, from the left bottom chorc Use Simpsor Truss, Single oc max. start connect truss Fill all nail ho DAD CASE(S) Dead + Roo Plate Increa Uniform Loo Vert: 1-4: 	Single Ply Girder) end to connect tru b Strong-Tie HUS2 ePly Girder) or eq ing at 5-8-4 from t s(es) to back face les where hanger Standard of Live (balanced): ase=1.15 ads (lb/tt) =-70, 4-6=-70, 2-6) or equi ss(es) to 26 (14-1) uivalent the left e of bottor is in cor Lumber =-20	valent at 3-9- back face of od Girder, 6-1 od to 9-8-4 to n chord. ttact with lumi	0d -0 ber. 5,		ķ		Store Scott Sevi NUME PE-20010	ER BER D18807

May 2,2024

DEVELORMENT: SERVICES LEE'S'SUMMIT'SMISSOURI 06/03/2024 3:52:55

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	C01	Common Supported Gable	1	1	Job Reference (optional)	165267710

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Max Grav 12=149 (LC 19), 13=175 (LC 20), 14=191 (LC 20), 15=198 (LC 20), 16=191 (LC 22), 17=199 (LC 19), 18=188 (LC 19), 19=188 (LC 19), 20=172 (LC 20) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-20=-141/81, 1-2=0/40, 2-3=-115/110, 3-4=-85/86, 4-5=-76/156, 5-6=-117/237, 6-7=-117/237, 7-8=-76/156, 8-9=-61/70, 9-10=-83/75, 10-11=0/40, 10-12=-129/81 BOT CHORD 19-20=-80/97. 18-19=-80/97. 17-18=-80/97.

16-17=-80/97, 15-16=-80/97, 14-15=-80/97, 13-14=-80/97, 12-13=-80/97 WEBS 6-16=-172/29, 5-17=-159/123 4-18=-150/158, 3-19=-135/136 7-15=-157/123, 8-14=-152/158, 9-13=-128/136

NOTES

FORCES

1) Unbalanced roof live loads have been considered for

this design.

Scale = 1:40.6

Loading

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 9) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 20, 46 lb uplift at joint 12, 80 lb uplift at joint 17, 75 lb uplift at joint 18, 114 lb uplift at joint 19, 79 lb uplift at joint 15, 76 lb uplift at joint 14 and 107 lb uplift at joint 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	C02	Common	4	1	Job Reference (optional)	165267711

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:56 ID:ztGK2EJRggish2Qf0ZxY9yzWx15-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



	1	7-6-0	1	15-0-0	1
	Γ	7-6-0	T	7-6-0	
Scale = 1:44.8					
Plate Offsets (X, Y): [6:Edge,0-8-2], [8:Edge,0-8-2]					

	(, .). [[===g=;= = _]											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.80	DEFL Vert(LL)	in -0.06	(loc) 7-8	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.50	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.31	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she	ept* 8-2,6-4:2x4 SP athing directly applic	5) 6) No.2 ed or 7)	All bearings capacity of 5 Provide mec bearing plate 8 and 117 lb This truss is International	are assumed to 65 psi. hanical connect capable of with uplift at joint 6. designed in acc Residential Coo	be SP No tion (by othenstanding 1 cordance with de sections	2 crushing ers) of truss t 17 lb uplift at th the 2018 R502.11.1 a	to t joint and					
BOT CHORD	Rigid ceiling directly bracing.	applied or 9-6-2 oc	LC	R802.10.2 a	nd referenced s Standard	tandard AN	ISI/TPI 1.						
REACTIONS	(size) 6=0-3-8, 3 Max Horiz 8=-182 (L Max Uplift 6=-117 (L Max Grav 6=733 (L0	8=0-3-8 .C 10) .C 13), 8=-117 (LC 1 C 1), 8=733 (LC 1)	12)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/40, 2-3=-738/ 4-5=0/40, 2-8=-670/	161, 3-4=-738/161, 211, 4-6=-670/211											
BOT CHORD	7-8=-378/695, 6-7=-	301/568											
WEBS	3-7=0/321, 2-7=-214	4/378, 4-7=-227/384											
NOTES													
 Unbalance this designed 	ed roof live loads have n.	been considered fo	r										
2) Wind: AS Vasd=91r Ke=1.00; exterior zo Interior (1	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-8 to 7-6-0, Exterior	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-10-8 to 4-1-8, or(2R) 7-6-0 to 12-6	pe) -0,								Å	TATE OF I	MISSOLA

- Interior (1) 4-1-8 to 7-6-0, Exterior(2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 15-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- (a) This truss has been designed for a live load of 200ps on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

SCOTT M. SEVIER NUMBER PE-2001018807 F. SSIONAL ENGINE May 2,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	C03	Common Girder	1	2	Job Reference (optional)	165267712

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:56 ID:gyAXmfbYmymsdCKe7rH0N6zWwwG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

:46:56 Page: 1 /J4zJC?f



	3-10-6	7-6-0	11-1-10	15-0-0
I	3-10-6	3-7-10	3-7-10	3-10-6
Scale = 1:47.2				

Plate Offsets (X, Y): [1:Edge,0-4-10], [5:Edge,0-4-10], [8:0-5-0,0-5-8]

		1			-									
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.66	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.39	Vert(CT)	-0.11	7-8	>999	180			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.80	Horz(CT)	0.02	5	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 183 lb	FT = 20%	
			2)	Linholoncod	roof live loads have	boon	onsidered f	or	C	ancontra	todlo	ade (lb)		
	2v4 CD No 2		3)	this design	TOOL IIVE IDAUS Have	Deen	Junsidered	01		Vort 9	1242	(E) 7_ 1500 (E)	12- 1240 (E)	
POT CHORD	214 37 110.2		4)	Wind: ASCE	7-16: Vult-115mph	(3-50)	ond quet)			13-12/	-1242	$(\Gamma), T = 1590 (\Gamma),$ 14 = 1242 (F) 15	12 = 1240 (F), = 1242 (E)	
	2x0 SF 2400F 2.0E		7)	Vasd=91mpt	TCDI = 6.0 nsf BC	10300)nsf: h=35ft:			10=12-	io (i),	14=-1242 (1), 13	1242 (I)	
WEDGE	Loff: 2x4 SP No 2			Ke=1 00: Ca	t II: Exp C: Enclose	d. WM	FRS (envelo	ne)						
WEDGE	Dight: 2x4 OF NU.2			exterior zone	and C-C Exterior	2F) 0-1	-12 to 5-1-12	2						
	Right. 274 SF NU.2			Interior (1) 5-	1-12 to 7-6-0 Exte	rior(2R	7-6-0 to 12	-, -6-0						
BRACING	0	a de la se alla sa de sa se ella		Interior (1) 12	2-6-0 to 15-10-8 zoi	ne: can	tilever left ar	nd						
TOP CHORD		atning directly applie		right exposed	d; end vertical left a	and righ	t exposed;C	C-C						
	4-8-13 OC punins.		for members	and forces & MWF	RS for	reactions sh	iown;							
BOT CHORD	bracing	applied of 10-0-0 of	<i>.</i>	Lumber DOL	=1.60 plate grip DC	DL=1.60)							
DEACTIONS		5 0 2 0	5)	This truss ha	s been designed fo	r a 10.0) psf bottom							
REACTIONS	(SIZE) I=0-3-0,	0=0-3-0		chord live loa	ad nonconcurrent w	ith any	other live loa	ads.						
	Max Horiz 1=-154 (L		6)	* This truss h	as been designed	for a liv	e load of 20	.0psf						
	Max Opiπ 1=-984 (L	LC 12), 5=-1000 (LC	13)	on the botton	n chord in all areas	where	a rectangle							
	Max Grav 1=50/1 (LC 1), 5=4120 (LC 1)	3-06-00 tall by 2-00-00 wide will fit between the bottom										
FORCES	(lb) - Maximum Con	npression/Maximum		chord and an	y other members.									
	Tension		7)	All bearings a	are assumed to be	SP 240	0F 2.0E cru	shing						
TOP CHORD	1-2=-62/4/12/9, 2-3	3=-4538/1035,	4.4	capacity of 8	05 psi.									
	3-4=-4536/1032, 4-	5=-6071/1498, 5-6=0	/14 8)	Provide mecl	hanical connection	(by oth	ers) of truss	to						
BUICHURD	1-9=-984/4888, 8-9=	=-984/4888, 7 4008/4686		bearing plate	capable of withsta	nding 1	000 lb uplift	at						
WEDO	2 0 226/2105 2 9	1=-1090/4000		joint 5 and 98	34 Ib uplift at joint 1	•								
WEDS	2-9=-320/2193, 2-0	=-1009/007, P_ 1065/575	9)	I NIS TRUSS IS	designed in accord	ance w	Ith the 2018							
	4 7_ 606/1904	5=-1205/575,		International	Residential Code s		R502.11.1	and				000	100	
	4-7=-000/1804		10	R802.10.2 ar			151/1711. 1 Cindon 4 4	04				A OF M	ALC: AL	
NOTES			10) Use Simpson	i Strong-Tie LUS28		Girder, 4-1					BAR	JUS COL	
1) 2-ply trus:	s to be connected toge	ther with 10d		1 2 12 from t	ho loft and to 0.2.1	2 to co	nax. Startii	iy ai nc) to			6	AN IN	No.	
(0.131°X3	") nails as follows:		•	front face of l	hettom chord	2 10 00		5) 10			R	SCOTT	M. NEW	
Top chore	is connected as follows	s: 2x4 - 1 row at 0-9-	U 11		Strong-Tie HUS26	5 (11-1)	d Girder 6	10d			a	7 SEVI	ER \`V\	
OC. Bottom ch	ords connected as fall	lowe: 2x8 2 rowe		Truss Single	Ply Girder) or equi	ivalent	at 11-3-12 fr	om			10			
staggarag		10WS. 2X0 - 2 10WS		the left end to	connect truss(es)	to from	face of bott	om						
Web conr	at 0-0-0 00.	- 1 row at 0-9-0 oc		chord.	()							all a	Service	
2) All loads	are considered equally	applied to all plies	12) Fill all nail ho	les where hanger is	s in cor	tact with lun	nber.			3		BER A	
except if r	noted as front (F) or ba	ick (B) face in the I C	AD IC	AD CASE(S)	Standard						N	ON PE-20010	018807	
CASE(S)	section. Ply to ply con	nections have been	1)	Dead + Ror	of Live (balanced). I	umber	Increase=1	15			(V	12	18A	
provided 1	to distribute only loads	noted as (F) or (B).	1)	Plate Increa	ise=1 15						1	0.50	NO'A	
unless oth	nerwise indicated.			Uniform Loa	ads (lb/ft)							ONA	LEYA	
				Vert: 1-3:	=-70, 3-6=-70, 1-5=	-20						an	DEC.	

May 2,2024

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RELEASE ICROMETRUCTION AS NOTED ON FLANS REVIEW DEVELORMINESSERVICES LEE'S'SUMWIT'SMISSOURI 06/03/2024 3:52:55

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	165267713

6-7-11

6-7-11

-1-7-13

1-7-13

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. Tue Apr 30 13:46:56 ID:4ISXVQexdnngbbj5IWSeRMzWx1y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:44.4

Plate Offsets (X, Y): [6:0-3-4,0-7-0]

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	0.89	Vert(LL)	-0.07	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.49	Vert(CT)	-0.14	5-6	>529	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 4= Mecha Max Horiz 6=131 (LC	pt* 6-2:2x4 SP No.2 athing directly applie cept end verticals. applied or 6-0-0 oc nical, 6=0-4-3 S 9)	6 7 ed or 8 9	Bearing at jo using ANSI/ designer sho Provide meo bearing platt joint 6 and 1 This truss is International R802.10.2 a "NAILED" in per NDS gu	bint(s) 6 consider TPI 1 angle to gr puld verify capac chanical connecti e capable of with 04 lb uplift at joir designed in acc Residential Coc nd referenced st dicates Girder: 3 delines.	rs parallel t rain formula ity of beari ion (by othe standing 1 nt 4. ordance wi de sections tandard AN 3-10d (0.14	o grain value a. Building ng surface. ers) of truss i 85 lb uplift ar th the 2018 R502.11.1 a SI/TPI 1. 8" x 3") toe- a shall be	to t and nails					
FORCES TOP CHORD	Max Uplift 4=-104 (L Max Grav 4=263 (LC (lb) - Maximum Com Tension 2-6=-354/489, 1-2=0 3-4=-258/287) 1	 provided suf down and 90 down and 0 design/selec responsibility In the LOAD 	ficient to support b lb up at 2-11-1 lb up at 2-11-13 tion of such control y of others.	t concentra 3 on top ch 3 on bottom nection dev	ted load(s) 3 nord, and 2 ll chord. The vice(s) is the	30 lb b face						
BOT CHORD	5-6=-322/135, 4-5=-3	38/42		of the truss a	are noted as fron	nt (F) or bad	ck (B).						
WEBS	2-5=-67/290, 3-5=-2	7/135	L	DAD CASE(S)	Standard								
NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-7-13 to 5-5-1, Exterior(2R) 5-5-1 to 6-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;			1 pe) ight	Dead + Ro Plate Incre Uniform Lo Vert: 1-2 Concentrat Vert: 7=2	of Live (balanced ase=1.15 ads (lb/ft) !=-70, 2-3=-70, 5 ed Loads (lb) 26 (F), 12=-2 (B)	d): Lumber 5-6=-20, 4-5	Increase=1. 5=-20	15,			Å	STATE OF I	MISSOLA

- members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 2)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 3)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 6 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

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



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May 2,2024

SEVIER

TIME

PE-200101880

SIONAL

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	CJ02	Diagonal Hip Girder	2	1	Job Reference (optional)	165267714

4-10-0

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. Tue Apr 30 13:46:56 ID:oD2JcrmDHs1Fo7U0ucd_rTzWx1o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-5-9

Page: 1





Scale = 1:48.1 Plate Offsets (X, Y): [2:0-5-1.0-2-5]

BCDL LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2	10.0	Code	IRC201	8/TDI2014			11012(01)	0.00	ю	n/a	n/a		
LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2	2×4 SP No 2			0/11/2014	Matrix-P							Weight: 42 lb	FT = 20%
SLIDER L BRACING TOP CHORD S SOT CHORD F E REACTIONS (si Ma Ma FORCES ((2x4 SP No.2 2x6 SPF No.2 2x3 SPF No.2 Left 2x4 SP No.2 Structural wood sh 6-0-0 oc purlins, e Rigid ceiling directl bracing. size) 2=0-5-6, 1ax Horiz 2=167 (I tax Uplift 2=-232 (I tax Grav 2=489 (I (Ib) - Maximum Co	2-6-7 eathing directly applie xcept end verticals. y applied or 10-0-0 oc 6= Mechanical C 9) LC 8), 6=-169 (LC 12 .C 1), 6=386 (LC 1) npression/Maximum	6) 7) .d or 8) ; 9))	Provide mecl bearing platte joint 6 and 23 This truss is International R802.10.2 ar "NAILED" ind per NDS guid Hanger(s) or provided suff down and 49 up at 4-9-11 down at 4-9- of such conn others.	hanical connection capable of withsta 22 lb uplift at joint 2 designed in accord Residential Code nd referenced stan dicates Girder: 3-1 delines. other connection cicent to support ci lb up at 1-0-6, ar on top chord, and 11 on bottom choi ection device(s) is CASE(S) section,	h (by oth anding 1 2. dance w sections idard AN 0d (0.14 device(s oncentra id 48 lb l at 1-0 rd. The the res loads a	ers) of truss t 69 lb uplift at ith the 2018 i R502.11.1 a ISI/TPI 1. 8" x 3") toe-1) shall be ated load(s) 1 down and 12 -6, and 22 lb design/selec ponsibility of poplied to the s	to t nails 5 lb 7 lb tion face				vveignt: 42 lb	<u>ri = 20%</u>
Т	Tension	npression/maximum		of the truss a	re noted as front (F) or ba	ck (B).	lace					
FOP CHORD 1 5 30T CHORD 2 WEBS 4 VOTES 1) Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior 20ne Exterior(2R) 4 exposed ; en members and Lumber DOL: 2) This truss ha chord live loa 3) * This truss h on the bottom 3-06-00 tall b chord and an 4) Bearings are capacity of 42 5) Refer to girde	1-2=0/8, 2-4=-545/ 5-6=-109/114 2-7=-421/398, 6-7= 4-6=-468/437, 4-7= 7-16; Vult=115mp h; TCDL=6.0psf; B it. II; Exp C; Enclose e and C-C Corner (5-5-1 to 8-4-5 zon- nd vertical left and in d forces & MWFRS =1.60 plate grip D as been designed fr ad nonconcurrent w has been designed fr ad nonconcurrent w ha	299, 4-5=-135/79, -421/398 0/222 h (3-second gust) CDL=6.0psf; h=35ft; ed; MWFRS (envelop 3) -1-7-13 to 5-5-1, s; cantilever left and ri ight exposed;C-C for 5 for reactions shown; DL=1.60 or a 10.0 psf bottom vith any other live load for a live load of 20.0 s where a rectangle I fit between the botto bint 2 SPF No.2 crush uss connections.	LC 1) ight ds. psf m ing	DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-5: Concentrate Vert: 4=- (F)	Standard of Live (balanced): ise=1.15 ads (lb/ft) =-70, 2-6=-20 ed Loads (lb) 14 (B), 7=-6 (B), 9:	Lumber =35 (F),	Increase=1.	15, 16=-8		2		STE OF I SCOT SEVI PE-2001 PE-2001	MISSOL I M. ER 018807 E

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/TFI1 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)

AS NOTED ON PT **NS REVIEW** DEVER OPPORT SERVICES LEE'S'SUMURTSMISSOURI 06/03/2024 3:52:55

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D01	Half Hip Girder	1	2	Job Reference (optional)	165267715

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:57 ID:Dtr9V7dlZg_Ap2PfY1PeDRzWx0h-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.6

ontinued on page 2

Plate Offsets (X, Y): [2:0-1-8,0-2-6], [2:2-6-5,0-1-8], [9:0-2-0, Edge], [13:Edge,0-4-0], [15:0-2-8,0-2-0], [17:0-2-12,0-5-0], [19:0-2-8,0-1-8], [22:0-10-4,0-8-8]																	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP				
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.82	Vert(LL)	0.77	17-18	>539	240	MT20	197/144				
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-1.10	17-18	>378	180	MT18HS	197/144				
BCLL	0.0*	Rep Stress Incr	NO		WB	0.75	Horz(CT)	0.35	13	n/a	n/a						
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 344 lb	FT = 20%				
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	BER CHORD 2x4 SP No.2 *Except* 1-5:2x4 SP 1650F 1.5E 2x6 SPF No.2 *Except* 2-22:2x4 SP 2400F 2.0E, 8-16:2x4 SP 1650F 1.5E, 20-17:2x6 SP 2400F 2.0E 2S 2x3 SPF No.2 IER Left 2x4 SP No.2 3-5-4 CING CHORD CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-11 max.): 5-12. CHORD Rigid ceiling directly applied or 8-7-1 oc bracing. CTIONS (size) 2=0-3-8, 13= Mechanical Max Horiz Max Uplif 2=-810 (LC 9) Max Uplif Max Grav 2=2151 (LC 1), 13=2100 (LC 1)				2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Web connected as follows: 2x3 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;							 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 919 lb uplift at joint 13 and 810 lb uplift at joint 2. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. "NALLED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines. Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 244 lb down and 139 lb up at 6-4-13 on bottom chord. The design/selection of such connection device(s) is the 					
REACTIONS	Max Horiz 2=0-0-8, 1 Max Horiz 2=134 (LC Max Uplift 2=-810 (L1 Max Grav 2=2151 (L1	C 9) C 8), 13=-919 (LC 9 LC 1), 13=2100 (LC 1) 1)	Vasd=91mpł Ke=1.00; Ca exterior zone Interior (1) 4-	n; TCDL=6.0psf; E t. II; Exp C; Enclo and C-C Exterio -1-8 to 6-4-13, Ex	BCDL=6.0 sed; MW r(2E) -0-1 terior(2R	Dpsf; h=35ft; FRS (envelop 0-8 to 4-1-8,) 6-4-13 to	pe)	res LOAD 1) De Pl	ponsibili CASE(S ead + Ro ate Incre	ty of ot) Star pof Live pase=1	hers. ndard e (balanced): Lum .15	iber Increase=1.15,				
FORCES	(lb) - Maximum Com Tension	pression/Maximum		13-5-10, Inte left and right	rior (1) 13-5-10 to exposed : end ve	o 34-10-1 ertical left	2 zone; cantil and right	lever	Uniform Loads (lb/ft)								
TOP CHORD	1-2=0/0, 2-4=-9705/3 5-6=-8893/3859, 6-7 7-8=-9299/4058, 8-1 10-11=-2916/1295, 1 12-13=-206/133	3959, 4-5=-6820/288 ′=-10033/4364, 0=-8987/3921, 11-12=-77/74,	35, 5) 6)	exposed;C-C reactions sho DOL=1.60 Provide adeo All plates are	c for members and own; Lumber DOL quate drainage to MT20 plates unl	d forces a _=1.60 pl prevent v ess other	MWFRS for ate grip water ponding wise indicate	g.	C	13-16=-	-20 ated Lo	ads (lb)	115 c				
BOT CHORD	 12-13=-206/133 All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle OPT MILS SOURCE SEVIER OPT MILS SOURCE SEVIER 							ER THE									
WEBS	4-22=-1030/2527, 5- 7-17=-778/329, 6-19 5-19=-1245/2829, 6- 7-18=-206/188, 10-1 11-13=-3405/1478, 1 15-17=-1681/3823, 1 11-14=-516/1387, 4-	 a-1030/2527, 5-21=-423/1120, b-778/329, 6-19=-941/513, a-1245/2829, 6-18=-549/1277, a-206/188, 10-17=-1932/4358, a-3405/1478, 10-15=-811/438, a-3405/1478, 10-15=-811/438, a-168/13823, 10-14=-2399/1045, a+2-516/1387, 4-21=-1732/734 								L ENGL	≻						

May 2,2024



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D01	Half Hip Girder	1	2	Job Reference (optional)	165267715

Vert: 5=-34 (F), 9=-39 (F), 21=-244 (F), 7=-34 (F),
18=-19 (F), 11=-39 (F), 14=-15 (F), 24=-34 (F),
25=-34 (F), 26=-34 (F), 28=-34 (F), 29=-34 (F),
30=-34 (F), 31=-39 (F), 32=-39 (F), 33=-39 (F),
35=-39 (F), 36=-59 (F), 37=-19 (F), 38=-19 (F),
39=-19 (F), 40=-19 (F), 41=-19 (F), 42=-19 (F),
43=-15 (F), 44=-15 (F), 45=-15 (F), 46=-15 (F),
47=-15 (F), 48=-20 (F)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:57 ID:Dtr9V7dIZg_Ap2PfY1PeDRzWx0h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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 - HR Lot 181	
P240424-01	D02	Нір	1	1	Job Reference (optional)	165267716

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:57 ID:wLVokA9LBBXx5pm67GBy?jzWx0?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.7

Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.88 0.85	DEFL Vert(LL) Vert(CT)	in -0.48 -0.88	(loc) 17-18 17-18	l/defl >876 >474	L/d 240 180	PLATES MT20 MT18HS	GRIP 197/144 244/190
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2018	8/TPI2014	WB Matrix-S	0.72	Horz(CT)	0.42	13	n/a	n/a	Weight: 173 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2 *Excep 2.0E, 6-8:2x4 SP 16 2x4 SP 1650F 1.5E * 2400F 2.0E, 9-16:2x SP No.2 2x3 SPF No.2 *Exce	t* 1-6:2x4 SP 2400F 50F 1.5E *Except* 2-21:2x4 SF 3 SPF No.2, 16-13:2 pt* 14-10,13-12:2x4	N(1) 2) x4 SP	DTES Unbalanced this design. Wind: ASCE Vasd=91mpt Ke=1.00; Cat exterior zone	roof live loads have 7-16; Vult=115mph ; TCDL=6.0psf; BC . II; Exp C; Enclose and C-C Exterior(2	been ((3-sec DL=6.0 ed; MW 2E) -0-1	considered fo cond gust) Dpsf; h=35ft; FRS (envelo 0-8 to 4-1-8,	pr pe)					
SLIDER BRACING TOP CHORD	No.2 Left 2x4 SP No.2 3 Structural wood sher 2-2-0 oc purlins, exc 2-0-0 oc purlins, (2-2)	3-5-4 athing directly applied cept end verticals, ar -11 max): 6-11	d or Id	Interior (1) 4- Interior (1) 16 34-10-4 zone vertical left au forces & MW DOL=1.60 pla	1-8 to 9-7-3, Exterio 5-8-1 to 33-10-11, E cantilever left and right exposed;C- FRS for reactions s ate grip DOL=1.60	or(2R) Exterior I right e C for n hown;	9-7-3 to 16-8 (2E) 33-10-1 xposed ; end nembers and Lumber	-1, 1 to 1					
BOT CHORD WEBS REACTIONS	Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=183 (LC Max Uplift 2=-272 (LI Max Grav 2=1633 (L	applied or 7-1-0 oc 10-14 (3= Mechanical 2 9) C 8), 13=-321 (LC 9) .C 1), 13=1563 (LC 1	3) 4) 5) 6)	 Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord any any area members. 									
TOP CHORD	(ib) - Maximum Com Tension 1-2=0/0, 2-4=-6815/* 5-6=-3715/688, 6-7= 7-9=-4109/877, 9-10 10-11=-344/133, 11- 12-13=-1523/281	pression/Maximum 1255, 4-5=-6184/120 4319/891, =-4079/874, 12=-344/136,	7) 8, 8) 9) 10	Bearings are crushing cap Refer to girde Bearing at joi using ANSI/T designer sho) Provide mech	assumed to be: Jo acity of 805 psi. er(s) for truss to trus nt(s) 2 considers pr PI 1 angle to grain uld verify capacity of nanical connection	int 2 SI as conr arallel 1 formula of beari (by oth	P 2400F 2.0E nections. o grain value a. Building ng surface. ers) of truss t	e to			A	TATE OF M	AISSOUR
BOT CHORD	2-21=-1392/6208, 20 18-20=-709/3388, 17 16-17=0/109, 9-17=- 14-15=-505/2223, 13 4-21=-133/961, 6-20 6-18=-271/1188, 7-1 7-17=-236/61, 15-17 10-17=-457/2089, 10 10-14=-2251/478, 11 12-14=-289/1473, 5- 5-21=-478/1923)-21=900/4130, 7-18=937/4316, 402/183, 15-16=-31/ 3-14=-68/85 I=-78/618, 8=-447/207, '=-480/2097,)-15=-204/161, 1-14=-177/155, -20=-854/279,	^{153,} 11 12 LC	bearing plate joint 2 and 32) This truss is of International R802.10.2 ar t) Graphical pu or the orienta bottom chord DAD CASE(S)	capable of withstar 21 lb uplift at joint 1: designed in accorda Residential Code s di referenced stanc din representation of tion of the purlin ale Standard	nding 2 3. ance w ections lard AN does no ong the	72 lb uplift a R502.11.1 a ISI/TPI 1. bt depict the s top and/or	t and size		•		PE-20010	L ENGINE

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Plate Offsets (X, Y): [2:0-1-8,0-3-6], [2:1-7-11,0-1-8], [15:0-2-8,0-2-0], [17:0-4-8,0-2-12], [18:0-2-8,0-1-8], [21:0-11-8,Edge]

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D03	Нір	1	1	Job Reference (optional)	165267717

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:57 ID:LBiLx?OuUK25UtlyITYfpxzWx?h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.8

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.99	Vert(LL)	-0.42	18-20	>997	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.90	Vert(CT)	-0.91	18-20	>458	180	MT18HS	244/190	
BCLL	0.0*	Rep Stress Incr	YES		WB	1.00	Horz(CT)	0.39	13	n/a	n/a			
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%	
			2)		7 40. 14.14 445	(2	(فمنبع اممم							
		*	2)	Wind: ASCE	7-16; Vult=115mpr	1 (3-sec	ond gust)							
TOP CHORD	2x4 SP No.2 *Excep	ot* 1-6:2x4 SP 2400F		Vasu=9111pr	I, TODL=0.0psi, BC		PSI, T=SSII,	20)						
		Eveent 2 20.2v4 SI		exterior zone	and C-C Exterior(2	2E) _0_1	0-8 to 4-1-8	pe)						
BOTCHORD	2/10/E 2 0/E 0-16/2v	2 SDE No 2 16-13-2	- v1	Interior (1) 4-	1-8 to 12-9-10 Ext	erior(2F	R) 12-9-10 to							
	SP No 2	0 011 10.2, 10 10.2	74	19-10-7. Inte	rior (1) 19-10-7 to 3	0-8-5.	Exterior(2E)							
WEBS	2x3 SPF No.2 *Exce	ot* 13-12:2x4 SP No	.2	30-8-5 to 34-	10-4 zone; cantilev	er left a	and right							
SLIDER	Left 2x4 SP No.2 3	3-5-4		exposed ; en	d vertical left and ri	ght exp	osed;C-C for	r						
BRACING				members and	d forces & MWFRS	for rea	ctions shown	n;						
TOP CHORD	Structural wood she	athing directly applie	d.	Lumber DOL	=1.60 plate grip DC	DL=1.60)							
	except end verticals	, and 2-0-0 oc purlins	3)	Provide adec	uate drainage to pr	revent v	vater ponding	g.						
	(3-2-15 max.): 6-11.		4)	All plates are	MT20 plates unles	s other	wise indicate	ed.						
BOT CHORD	Rigid ceiling directly	applied or 7-0-14 oc	5)	This truss ha	s been designed fo	ra 10.0) psf bottom							
	bracing.			chord live loa	a nonconcurrent w	ith any	other live loa	ids.						
REACTIONS	(size) 2=0-3-8, 1	13= Mechanical	6)	on the botton	as been designed i	whore	e 10aŭ 01 20.0	opsi						
	Max Horiz 2=180 (LC	C 9)		3-06-00 tall h	v 2-00-00 wide will	fit betv	leen the bott	om						
	Max Uplift 2=-242 (L	.C 8), 13=-269 (LC 9)		chord and an	v other members			0111						
	Max Grav 2=1633 (L	_C 1), 13=1563 (LC 1) 7)	Bearings are	assumed to be: Jo	int 2 SF	2400F 2.0E							
FORCES	(lb) - Maximum Com	pression/Maximum	,	crushing cap	acity of 805 psi.									
	Tension		8)	Refer to girde	er(s) for truss to trus	ss conr	ections.							
TOP CHORD	1-2=0/0, 2-4=-6937/	1251, 4-5=-6370/122	7, 9)	Bearing at joi	nt(s) 2 considers pa	arallel t	o grain value	9						
	5-6=-3131/528, 6-7=	=-2811/504,		using ANSI/T	PI 1 angle to grain	formula	a. Building							
	7-9=-2882/586, 9-10)=-28/1/58/,		designer sho	uld verify capacity of	of beari	ng surface.						Th	
	10-11=-1893/426, 1	1-12=-1162/258,	10)	Provide mech	nanical connection	(by oth	ers) of truss t	to				OFA	ALC D	
	12-13=-1520/280	9 20- 924/2670		bearing plate	capable of withsta	nding 2	42 lb uplift at	t				ALEUT	1155	
BOTCHORD	17-18-620/3025 16	6-17-0/83	44)	joint 2 and 26	9 Ib uplift at joint 1	3.	all the 0010				A	A. T.	1.5%	S
	9-17=-304/138 15-1	6=-39/65	11)	I his truss is a	Designed in accorda	ance w	Ith the 2018	nd			A	SCOTT	M. P	δ
	14-15=-241/1048 1	3-14=-70/82		Pene 10 2 or	d referenced stand			anu			6	7 SEVI	ER V	Y)
WEBS	4-20=-83/837.6-18=	=-101/927.	12)	Graphical pu	rlin representation	does no	t denict the s	size			1	-1		- N
	11-14=-882/238, 12-	-14=-258/1406,	12)	or the orienta	tion of the purlin al	ona the	top and/or	5120			N.		X 12	4
	10-15=-1338/345, 10	0-17=-264/1373,		bottom chord						-			SOM M	197
	11-15=-264/1348, 15	5-17=-366/1868,	LO	AD CASE(S)	Standard						23	J NUMI	EK ID	A
	7-17=-221/102, 7-18	3=-469/169,		(-)							N	OX PE-20010	18807	9
	5-18=-972/336, 5-20)=-532/2528									V	The last	158	
NOTES												A SIG	ENUR	
 Unbalance 	ed roof live loads have	been considered for										WNA	L	
this desigr	۱.											an	500	

May 2,2024

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Plate Offsets (X, Y): [2:0-1-8,0-3-6], [2:1-7-11,0-1-8], [2:2-3-13,0-1-8], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [17:0-2-8,0-3-4], [20:0-6-4,Edge]

nst.org)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D04	Hip	1	1	Job Reference (optional)	165267718

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:58 ID:26J71QWA7PJghQ3ttZk?D2zWx?X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

May 2,2024

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Scale = 1:67

Plate Offsets (X, Y): [2:0-1-8,0-3-6], [2:1-7-11,0-1-8], [20:0-11-8,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.93 0.94 0.75	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.40 -0.71 0.36	(loc) 19-20 19-20 13	l/defl >999 >586 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 177 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD	2x4 SP No.2 *Except 1.5E, 1-6:2x4 SP 240 2x4 SP 1650F 1.5E * 2400F 2.0E, 9-15:2x: SP No.2 2x3 SPF No.2 *Exce Left 2x4 SP No.2 - 3 Structural wood sheat 1-11-10 oc purlins, 6 2-0-0 oc purlins (3-1: Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=176 (LC Max Grav 2=1667 (L (lb) - Maximum Com Tension 1-2=0/0, 2-4=-7058/1 5-7=-3762/642, 7-8= 8-9=-2396/483, 9-10 10-11=-1540/340, 11 12-13=-125/99	t* 6-8:2x4 SP 1650F DOF 2.0E "Except* 2-20:2x4 SF 3 SPF No.2, 15-13:2: pt* 13-12:2x4 SP No 8-5-4 athing directly applied except end verticals, -14 max.): 8-10. applied or 2-2-0 oc 7-17, 11-13 (3= Mechanical C 9) C 12), 13=-217 (LC 9) C 2), 13=-217 (LC 9) C 2), 13=-1634 (LC 2) pression/Maximum 1262, 4-5=-6408/121: -2667/483, =-2286/466, I-12=-134/135,	1) 2) x4 .2 d or and 3) 4) 5) 6))) () 7) 3, 8) 9)	Unbalanced 1 this design. Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior zone Interior (1) 4- 23-0-14, Inte 27-5-14 to 34 exposed ; en members and Lumber DOL Provide adeq All plates are This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and an Bearings are crushing cap: Refer to girde Bearing at joi using ANSI/T designer sho	root live loads have 7-16; Vult=115mph ; TCDL=6.0psf; BC . II; Exp C; Enclose and C-C Exterior(2 1-8 to 16-0-0, Exter- ior (1) 23-0-14 to 2 -10-4 zone; cantile d vertical left and rid d forces & MWFRS =1.60 plate grip DC uate drainage to pr MT20 plates unless s been designed fo d nonconcurrent wi as been designed fo d nonconcurrent will y other members, v assumed to be: Joi acity of 805 psi. ar(s) for truss to trus nt(s) 2 considers pair PI 1 angle to grain uld verify capacity of anical connection	(3-sector) (3-sector)	considered for ond gust) Dpsf; h=35ft; FRS (envelop 0-8 to 4-1-8, 16-0-0 to Exterior(2E) and right osed;C-C for ctions shown over ponding wise indicate 0 psf bottom other live loar e load of 20.00 DL = 10.0psf 2 2400F 2.0E eections. o grain value a. Building ng surface.	r pe) ; d. ds. ppsf om				TE OF M	AISSOL
BOT CHORD WEBS NOTES	2-20=-1387/6445, 19 17-19=-722/3441, 16 15-16=0/97, 9-16=-6 13-14=-244/968 4-20=-116/1026, 7-1 7-17=-1173/323, 8-1 9-17=-127/191, 14-1 10-16=-255/1260, 10 11-13=-1683/341, 5- 5-20=-471/2086, 11-	9-20=-899/4200, 5-17=-461/2290, 36/199, 14-15=-16/7 9=-44/722, 7=-41/685, 6=-269/1346, 0-14=-634/191, 19=-890/232, 14=-68/791	5, 11 12 LC	 bearing plate joint 2 and 21 This truss is a International R802.10.2 ar Graphical pui or the orienta bottom chord DAD CASE(S) 	capable of withstan 7 lb uplift at joint 13 designed in accorda Residential Code s ad referenced stand tin representation of tion of the purlin alo Standard	anding 2 3. ance wi ections lard AN does no ong the	th the 2018 R502.11.1 a ISI/TPI 1. t depict the s top and/or	nd ize				PE-20010	ER 118807

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D05	Нір	1	1	Job Reference (optional)	165267719

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:58 ID:DEUHLBf3Xnh6W6P?0NQa9MzWx?M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 3-4-12 0-10-8 3-4-12 19-2-6 42-3-8 43-2-0 8-8-9 13-11-11 24-3-8 29-6-0 35-2-4 38-8-8 5-2-12 5-3-13 5-8-4 5-3-2 5-1-2 5-2-8 3-6-4 3-7-0 0-10-8 6x6= 5x5= 0-1-13 1-13 H 7 8 8-7 4x4 🚽 3x10、 12 5 3x4 II 6 9 25 26 3x6**≈** 3x4 🚅 10 8-10-5 8-5-7 8-5-7 4x8 ≠ 5 11 37 3x4 **≈** 4 2712 3 ²⁴ 13₁₉ d fi 0-7-4 ∏ <u>9</u> 23 22 21 20 28 19 18 16 Ŕ 2915 3x8 3x8= 3x4= 5x5= 3x8= 1.5x4 u 5x8= MT18HS 5x8 🝃 3x4= 3x4 II MT18HS 10x18 = _]4 12 38-8-8 0-<u>3-8</u>3-3-8 0-3-83-0-0 35-1-0 8-8-9 13-11-11 19-1-2 24-4-12 29-6-0 35-0-0 42-3-8 0-1-0 3-7-8 5-3-2 5-1-8 5-3-10 5-1-4 5-6-0 3-7-0 5-5-1

Scale = 1:79.7

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)		25.0	Plate Grip DOL	1.15			0.99	Vert(LL)	-0.36	22-23	>999	240	MT20	244/190
		10.0	Lumber DOL	1.15 VES		BC	0.67	Vert(CT)	-0.64	22-23	>654	180	MITTOHS	244/190
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S	0.76		0.51	17	n/a	n/a	Weight: 211 lb	FT = 20%
				N	OTES									
TOP CHORD	2x4 SP No.2	*Except	t* 4-7:2x4 SP 1650F	1)	Unbalanced	roof live loads have	been	considered for	r					
	1.5E, 1-4:2x6	5 SP 240	00F 2.0E	-,	this design.									
BOT CHORD	2x4 SP 2400	F 2.0E *	*Except* 11-16:2x3 S	SPF 2)	Wind: ASCE	7-16; Vult=115mph	(3-seo	ond gust)						
	No.2, 16-13,2	20-17:2×	4 SP No.2		Vasd=91mph	; TCDL=6.0psf; BC	DL=6.	Opsf; h=35ft;						
WEBS	2x3 SPF No.2	2 *Exce	pt* 17-9:2x4 SP No.2	2	Ke=1.00; Ca	Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)								
WEDGE	ACING Extendit 2x4 SP No.2 extendit 201e and C-C Extendit(2E) -0-10-8 to 4-1-6, Interior (1) 4-1-8 to 19-2-6, Extendit(2E) 19-2-6 to													
BRACING	Structural wood sheathing directly applied 24-3-8, Exterior (2R) 24-3-8 to 31-4-6, Interior (1) 31-4-6													
TOP CHORD	Structural wo	ie; cantilever left an	d right	exposed ; en	d									
	2-0-0 oc purli	ins (4-3-	-10 max) [.] 7-8		vertical left a	nd right exposed;C-	-C for r	nembers and						
BOT CHORD	Riad ceiling directly applied or 6-0-0 oc forces & MWFRS for reactions shown; Lumber													
	bracing.			DOL=1.60 plate grip DOL=1.60										
WEBS	1 Row at mid	t midpt 7-19, 9-17, 6-20, 5-21, 3) Provide adequate drainage to prevent water ponding.												
		:	3-22	4)	All plates are	MI20 plates unles	s other	wise indicate	d.					
REACTIONS	(size) 2=	0-3-8, 1	7=0-3-8	5)	chord live los	s been designed to	ith any	other live load	de					
	Max Horiz 2=	=172 (LC	2 12)	6)	* This truss h	as been designed f	for a liv	e load of 20 0	nsf					
	Max Uplitt 2=-281 (LC 12), 17=-410 (LC 9) on the bottom chord in all areas where a rectangle													
	Max Grav 2=	=1619 (L	.C 2), 17=2426 (LC 2	:)	3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botto	om					
FORCES	(lb) - Maximu	um Com	pression/Maximum	m chord and any other members, with BCDL = 10.0psf.										
		6517/1	1220 2 5- 2700/620	7)	Bearings are	assumed to be: Jo	int 2 S	2400F 2.0E						
TOP CHORD	1-2=0/0, 2-3= 5-6=-2785/47	=-0317/1 75 6_7-	-2021/355	,	crushing cap	acity of 805 psi, Joi	nt 17 S	P No.2 crush	ing					
	7-8=-1470/26	19,0-7- 69,8-9=	-1650/277	0)	capacity of 5	65 psi.	orollol						000	TO
	9-11=-872/10	052.11-	12=-939/1046.	0)	8) Bearing at joint(s) 2 considers parallel to grain value							S OF M	Alson	
	12-13=-412/5	508, 13-	14=0/4		designer sho	uld verify capacity of	of bear	nd surface					4 SE	-0.0
BOT CHORD	2-23=-1261/5	5934, 22	2-23=-1142/5311,	9)	Provide mecl	nanical connection	(by oth	ers) of truss to	0			A	AV SCOTT	New Y
	21-22=-637/3	3521, 19	9-21=-373/2507,	- /	bearing plate	capable of withstar	nding 2	81 lb uplift at				4	S/ SCOT	M. YAY
	18-19=-56/11	126, 17-	18=-56/1126,		joint 2 and 4	10 lb uplift at joint 1	7					И.	SEVI	
	16-17=-70/56	5,11-17: 21 12 1	=-358/186,	10	0) This truss is	designed in accorda	ance w	ith the 2018				70	Y . Le	. 0
WEBS	3_23328/10	31, 13-13 338 7-20	0=-402/390 01/13/000		International	Residential Code s	ections	R502.11.1 a	nd			U A		Zerrer
WEBO	7-19=-619/17	77 8-19	=-42/356	1.	R802.10.2 ar	id referenced stand	ard Ar	ISI/IPI1.	izo		*	R.	NUMI	BER AND
	9-19=-235/49	94, 9-18	=0/220, 9-17=-2718/8	882,	or the orients	ition of the purlin al	ong the	ton and/or	IZE			N	O PE-20010)18807 JEA
	6-20=-972/29	91, 12-1	5=-293/193,		bottom chord		eng an					(V	12	18A
	12-17=-559/6	600, 15-	17=-285/371,	L	DAD CASE(S)	Standard							0.500	NO'S
	5-22=-2/467,	5-21=-1	1161/302, 6-21=-83/7	720, –	(-)								ONA	LEY
	3-22=-1802/5	SUS											1000	555
													Ma	y 2,2024

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Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-4-0,Edge], [13:0-3-8,Edge], [17:0-3-12,0-2-12], [20:0-2-0,0-3-4], [22:0-2-8,0-1-8]



Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D06	Нір	1	1	Job Reference (optional)	165267720

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:58 ID:euG7FTWbpbe1X0KehnCDYKzWx_F-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 3-4-12 0-10-8 3-4-12 9-0-9 5-7-13 10-11-10 14-7-11 42-3-8 43-2-0 20-2-6 23-3-8 29-0-0 35-2-4 38-8-8 1-11-1 3-8-0 5-6-12 3-7-0 0-10-8 3-1-2 5-8-8 6-2-4 3-6-4 6x6= 5x5= +-13 7 8 0-1-13 -0-6 ₅12 4x6 🚅 3x10 🕿 6 9 4x8 ≠ 30 3x6**≈** 24 5 10 4x6 🚅 3x4 II 8-10-7 9-3-5 8-10-7 27 4 11 3x4≈ 2512 3 ²⁹ 9<u>0</u> 齫 0-7-4 23 22 26 27 21 20 19 18 16 2815 3x8 5x5= 3x6= 4x8= 1.5x4 II 5x8= MT18HS 5x8 = 3x4= 4x4= 3x4 II MT18HS 9x18 = _]4 12 38-8-8 35-1-0 0-3-83-3-8 0-3-83-0-0 11-8-15 20-1-2 23-4-12 29-0-0 35-0-0 42-3-8 0-1-0 3-7-8 8-5-7 8-4-3 3-3-10 5-7-4 6-0-0 3-7-0

Scale = 1:79.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-4-0,Edge], [13:0-3-8,Edge], [17:0-3-12,0-2-12], [23:0-11-8,Edge]														
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.71 0.99 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.48 -0.89 0.34	(loc) 22-23 22-23 17	l/defl >883 >473 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 215 lb	GRIP 197/144 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD	R 1 IORD 2x4 SP No.2 *Except* 5-1:2x6 SP 2400F 2 2.0E 2 2 IORD 2x4 SP 1650F 1.5E *Except* 11-16:2x3 SPF 2 No.2, 16-13,21-17:2x4 SP No.2 2x3 SPF No.2 *Except* 11-9:2x4 SP No.2 2 2x3 SPF No.2 *Except* 17-9:2x4 SP No.2 3 SPF No.2 *Except* 17-9:2x4 SP No.2 IG IORD Structural wood sheathing directly applied or 2-7-11 oc purlins, except 2-0-0 oc purlins (4:9-4 max.): 7-8. IORD Structural wood sheathing directly applied or 2-2-0 oc bracing. 1 I Row at midpt 7-19, 9-17, 6-20 5 IONS (size) 2=0-3-8, 17=0-3-8 5 Max Horiz 2=1623 (LC 2), 17=-393 (LC 9) 6 Max Uplift 2=-288 (LC 12), 17=-393 (LC 2) 5 (lb) - Maximum Compression/Maximum Tension 7 7 7 7 7 IORD 7-8=-1460/301, 8-9=-1650/311, 9-11=-267/1051, 11-12=-399/1041, 14.2 14-2.0 16				Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 20-2-6, Exterior(2E) 20-2-6 to 23-3-8, Exterior(2R) 23-3-8 to 30-4-6, Interior (1) 30-4-6 to 43-2-0 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 Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: Joint 2 SP 1650F 1.5E									
BOT CHORD WEBS NOTES	CHORD 7-8=-1460/301, 8-9=-1650/311, 9-11=-867/1051, 11-12=-939/1041, 12-13=-412/510, 13-14=0/4, 1-2=0/8, 8-3=-6339/1168, 3-4=-5645/1145, 4-6=-3269/577, 6-7=-1873/349 8 CHORD 2-23=-1201/5741, 22-23=-712/3540, 920-22=-383/2391, 19-20=-152/1668, 18-19=-74/1197, 17-18=-74/1197, 16-17=-70/56, 11-17=-379/199, 15-16=-150/26, 13-15=-404/399 1 S 3-23=-82/1079, 7-20=-149/926, 7-19=-596/147, 8-19=-70/412, 9-19=-210/379, 9-18=0/258, 9-17=-2748/888, 4-22=-925/356, 4-23=-466/1939, 6-22=-164/1129, 6-20=-1000/322, 12-15=-294/193, 12-17=-551/597, 15-17=-287/377 L				65 psi. int(s) 2 considers IPI 1 angle to grai build verify capacity hanical connection e capable of withst 93 lb uplift at joint designed in accor Residential Code nd referenced star urlin representation ation of the purlin a d. Standard	parallel in n formul v of bear n (by oth anding 2 17. dance w sections ndard AN n does n along the	o grain value a. Building ng surface. ers) of truss to 88 lb uplift at ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s top and/or	o nd iize		<u>ل</u>		State OF M State OF M Sevi NUM PE-20010	MISSOLUT ER DISSOLUT ER LENGINS	ס

 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)



May 2,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D07	Roof Special	1	1	Job Reference (optional)	165267721

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:58 ID:Eserl3u2W7YeInCb?oFVItzWwzm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

s, Inc. Tue Apr 30 13:46:58 Page: 1 ITXbGKWrCDoi7J4zJC?f



Scale = 1:79

Plate Offsets (X, Y): [2:0-3-8 Edge] [4:0-4-0 Edge] [12:0-3-8 Edge] [16:0-3-12 0-3-0] [21:0-2-8 0-1-8]								
	21:0-2-8.0-1-	12.0-3-01.	[16:0-3-	12:0-3-8.Edael.	[4:0-4-0.Edae].	[2:0-3-8.Edae].	(X.Y):	Plate Offsets

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	0.71	Vert(LL)	-0.39	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.70	21-22	>605	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.32	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 208 lb	FT = 20%
	2) Wind: ASCE 7.16: Vult=115mpb (2 speed quist)											

TOP CHORD	2x4 SP 2400F 2.0E *Except* 1-4:2x6 SP 2400F 2.0F 10-13:2x4 SP No 2	
BOT CHORD	2x4 SP 2400F 2.0E *Except* 9-15:2x3 SPF No.2, 15-12,19-16:2x4 SP No.2	
WEBS	2x3 SPF No.2 *Except* 16-8:2x4 SP No.2	
WEDGE	Right: 2x4 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 3-0-5 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt 8-18, 6-18, 5-20, 3-21	
WEBS	2 Rows at 1/3 pts 8-16	
REACTIONS	(size) 2=0-3-8, 16=0-3-8	
	Max Horiz 2=194 (LC 12)	
	Max Uplift 2=-296 (LC 12), 16=-376 (LC 13)	
	Max Grav 2=1610 (LC 2), 16=2438 (LC 2)	
FORCES	(Ib) - Maximum Compression/Maximum	
TOP CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346,	
TOP CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016,	
TOP CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4	
TOP CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237,	
TOP CHORD BOT CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211,	
TOP CHORD BOT CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371,	
TOP CHORD BOT CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0,	
TOP CHORD	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0, 12-14=-413/401	
TOP CHORD BOT CHORD WEBS	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0, 12-14=-413/401 3-22=-352/1936, 7-18=-154/905,	
TOP CHORD BOT CHORD WEBS	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0, 12-14=-413/401 3-22=-352/1936, 7-18=-154/905, 8-18=-157/220, 6-18=-1104/327, 14-14-1400-10	
TOP CHORD BOT CHORD WEBS	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0, 12-14=-413/401 3-22=-352/1936, 7-18=-154/905, 8-18=-157/220, 6-18=-1104/327, 11-14=-299/188, 14-16=-279/408, 4-400 - 200/509 - 400 - 279/408, 14-400 - 200/509 - 400 - 279/408, 14-400 - 400 -	
TOP CHORD BOT CHORD WEBS	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0, 12-14=-413/401 3-22=-352/1936, 7-18=-154/905, 8-18=-157/220, 6-18=-1104/327, 11-14=-299/188, 14-16=-279/408, 11-16=-500/583, 8-16=-2786/922, 4-32, 0/245, 5: 00, 4020 (2012)	
TOP CHORD BOT CHORD WEBS	1-2=0/8, 2-3=-6438/1312, 3-5=-3614/658, 5-6=-2476/469, 6-7=-1632/346, 7-8=-1637/366, 8-9=-844/1016, 9-11=-933/1012, 11-12=-413/516, 12-13=0/4 2-22=-1355/5856, 21-22=-1229/5237, 20-21=-668/3338, 18-20=-360/2211, 17-18=-112/1371, 16-17=-112/1371, 15-16=-71/56, 9-16=-482/252, 14-15=-203/0, 12-14=-413/401 3-22=-352/1936, 7-18=-154/905, 8-18=-157/220, 6-18=-1104/327, 11-14=-299/188, 14-16=-279/408, 11-16=-500/583, 8-16=-2786/922, 8-17=0/341, 5-21=0/478, 5-20=-1266/346, 6-20=-90/779, 2-21=-100/768, 5-20=-1266/346, 6-20=-90/779, 2-21=-100/764,	

 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 21-8-15, Exterior(2R) 21-8-15 to 26-8-15, Interior (1) 26-8-15 to 43-2-0 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
 All plates are MT20 plates unless otherwise indicated

- All plates are MT20 plates unless otherwise indicated.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 16 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 2 and 376 lb uplift at joint 16.
- 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.

LOAD CASE(S) Standard



NOTES

 Unbalanced roof live loads have been considered for this design.

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D08	Roof Special	1	1	Job Reference (optional)	165267722

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:59

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NOTES 1)

WEBS

Scale = 1:70.3

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

FORCES

TOP CHORD

BOT CHORD

SLIDER

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

this design.



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VELOPMENSSERVICES LEE'S' SUMMIT'S MISSOUR

06/03/2024 3:52:56

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D09	Roof Special	1	1	Job Reference (optional)	165267723



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	0.89	Vert(LL)	-0.40	13-14	>832	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.78	13-14	>431	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%
			2) Wind: ASCI	E 7-16; Vult=115	Smph (3-sec	ond gust)						

TOP CHORD	2x4 SP 1650F 1.5E *Except* 8-9:2x4 SP	
BOT CHORD	2x4 SP No.2 *Except* 15-4:2x3 SPF No.2,	
WEBS	14-12.284 SF 1030F 1.3E 2v3 SPE No 2 *Evcent* 10-0.2v4 SP No 2	
WEDGE	Left: 2v4 SP No 2	
BRACING		
	Structural wood shoathing directly applied or	
TOP CHORD	2-2-0 oc purling except end verticals	
BOT CHORD	Rigid ceiling directly applied or 7-11-5 oc	3)
Bor onone	bracing	
WEBS	1 Row at midpt 7-11	4)
REACTIONS	(size) 2=0-3-8 10=0-3-8	
	Max Horiz $2=291$ (I C 9)	
	Max Uplift $2=-254$ (LC 12), 10=-201 (LC 12)	-
	Max Grav 2=1372 (LC 2), 10=1349 (LC 2)	5)
FORCES	(lb) - Maximum Compression/Maximum	6)
	Tension	0)
TOP CHORD	1-2=0/4, 2-3=-2277/374, 3-4=-4880/1060,	
	4-6=-5074/1158, 6-7=-2288/443,	7)
	7-8=-952/289, 8-9=-954/268, 9-10=-1239/305	,
BOT CHORD	2-16=-557/1907, 15-16=-80/198,	
	14-15=-7/82, 4-14=-206/144,	LOA
	13-14=-684/2538, 11-13=-455/1529,	
	10-11=-104/118	
WEBS	8-11=-53/406, 9-11=-237/1076,	
	6-13=-787/339, 6-14=-630/2424,	
	7-13=-152/1057, 7-11=-1046/347,	
	3-10=-301/307, 14-10=-343/1930, 3-14641/2548	
NOTEO	5-14=-041/2040	
NULES		

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

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 21-8-15, Exterior(2R) 21-8-15 to 26-8-15, Interior (1) 26-8-15 to 28-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at oint 2 and 201 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. D CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D10	Roof Special	2	1	Job Reference (optional)	165267724

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:59 ID:QKR8vu2Gvde0GXY2dy_?B7zWwyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale =	1:65.9
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Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.89 0.90 0.88	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.42 -0.80 0.22	(loc) 12-13 12-13 9	l/defl >803 >418 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 136 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD	2x4 SP 1650F 1.5E No.2 2x4 SP No.2 *Excep 13-11:2x4 SP 1650I 2x3 SPF No.2 *Exce Left: 2x4 SP No.2 Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly	*Except* 7-8:2x4 SP ot* 14-3:2x3 SPF No. F 1.5E ept* 9-8:2x4 SP No.2 eathing directly applie cept end verticals. r applied or 7-9-13 oc	2) 2, ed or 5, 3)	Wind: ASCE Vasd=91mpf Ke=1.00; Ca exterior zone Interior (1) 5- 26-8-15, Inte left and right exposed;C-C reactions sho DOL=1.60 All plates are	7-16; Vult=115mp ; TCDL=6.0psf; B t. II; Exp C; Enclose and C-C Exterior 0-12 to 21-8-15, E rior (1) 26-8-15 to exposed ; end ver c for members and pwn; Lumber DOL MT20 plates unle	h (3-sec CDL=6.0 Ged; MW (2E) 0-0 Exterior(2 28-0-12 tical left forces a =1.60 pl	ond gust) psf; h=35ft; FRS (envelop -12 to 5-0-12, 2R) 21-8-15 tr zone; cantile and right & MWFRS for ate grip wise indicate	be) b ver d.					
WEBS REACTIONS	1 Row at midpt (size) 1= Mecha Max Horiz 1=290 (L Max Uplift 1=-229 (L Max Grav 1=1316 ((b) - Maximum Con	6-10 anical, 9=0-3-8 C 9) C 12), 9=-202 (LC 1: LC 2), 9=1354 (LC 2) pression/Maximum	4) 5) 2) 6)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearings are capacity of 5	s been designed f ad nonconcurrent v has been designed n chord in all area by 2-00-00 wide wi hy other members, assumed to be:, 65 nsi	or a 10.0 with any I for a liv s where Il fit betv with BC Joint 9 S) psf bottom other live loa e load of 20.0 a rectangle veen the botto DL = 10.0psf SP No.2 crush	ds. Opsf om ning					
TOP CHORD	Tension 1-2=-2380/400, 2-3: 3-5=-5209/1190, 5-(6-7=-955/291, 7-8=:	- =-5025/1093, 6=-2307/448, -958/270, 8-9=-1244/	7) 8) 306	Refer to girde Provide med bearing plate	er(s) for truss to trush hanical connection capable of withst	uss conr 1 (by oth anding 2 9	ections. ers) of truss t 29 lb uplift at	0					
BOT CHORD	1-15=-575/2028, 14 13-14=-7/84, 3-13=- 12-13=-688/2566, 1 9-10=-104/118	-15=-82/206, -198/141, 0-12=-456/1539,	9)	This truss is International R802.10.2 a	designed in accord Residential Code nd referenced star Standard	dance w sections idard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	nd				TE OF M	MISSO
WEBS	7-10=-53/409, 8-10: 5-12=-804/343, 5-13: 6-12=-156/1072, 6- 2-15=-1015/315, 13 2-13=-640/2555	=-238/1081, 3=-656/2539, 10=-1055/349, -15=-564/2087,	_								Real Provide P	SCOTT SEVI	ſM. ER

NOTES

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



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D11	Нір	1	1	Job Reference (optional)	165267725

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:59 ID:cRclCfB9J?1S4Dt9mmga7RzWwy5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D12	Half Hip	1	1	Job Reference (optional)	165267726

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:59 ID:JMC4J3IRz4H2Hme4LtsxXYzWwxx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D13	Half Hip	1	1	Job Reference (optional)	165267727

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Tue Apr 30 13:46:59 ID:JdkVttW5yIQdqNRLrxfwk7zWwxg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7

16

17



14 8

9



15

Scale = 1:53.4

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

reactions shown; Lumber DOL=1.60 plate grip

DOL=1.60

		-												
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.82	Vert(LL)	-0.28	6-7	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.82	Vert(CT)	-0.51	6-7	>655	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.70	Horz(CT)	0.08	6	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%	
BEDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: ASI Vasd=91r Ke=1.00; exterior zr Interior (1 19-10-7, I left and rig exposed:	10.0 2x4 SP No.2 *Excep 1.5E 2x4 SP 1650F 1.5E 2x3 SPF No.2 *Excep Left: 2x4 SP No.2 Structural wood she 2-2-0 oc purlins, exi 2-0-0 oc purlins, exi 2-0-0 oc purlins (4-1) Rigid ceiling directly bracing. 1 Row at midpt (size) 1= Mecha Max Horiz 1=256 (LC Max Uplift 1=-184 (L Max Grav 1=1329 (L (lb) - Maximum Com Tension 1-2=-2536/417, 2-3= 3-4=-1597/307, 4-5= 1-9=-606/2257, 7-9= 6-7=-338/1409 2-9=-378/268, 3-9=- 4-7=0/536, 4-6=-172 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) 5-0-12 to 12-9-10, Ex nterior (1) 19-10-7 to 2 ght exposed ; end vertii	Code t* 3-5:2x4 SP 1650F athing directly applied cept end verticals, an 0-5 max.): 3-5. applied or 9-1-3 oc 3-7, 4-6 inical, 6=0-3-8 C 9) C 12), 6=-258 (LC 9) C 2), 6=-1348 (LC 2) pression/Maximum -2293/376, -126/122, 5-6=-205/5 -425/1694, 89/682, 3-7=-195/143 28/360 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) 0-0-12 to 5-0-12, terior(2R) 12-9-10 to 8-1-4 zone; cantileve cal left and right proces & MWFRS for	IRC2018 3) 4) 5) 5) d or 6) r 8) 9) 10 LC 26 3, 26 r r	3/TPI2014 Provide adec This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Bearings are crushing cap Refer to girdd Provide mecl bearing plate joint 6 and 18 This truss is International R802.10.2 ar) Graphical pu or the orienta bottom chord AD CASE(S)	Matrix-S Juate drainage to pr s been designed fo id nonconcurrent wi as been designed fo n chord in all areas y 2-00-00 wide will y other members, v assumed to be: , Ju acity of 565 psi. er(s) for truss to trus anical connection capable of withstar 34 Ib uplift at joint 1. designed in accorda Residential Code s and referenced stand rlin representation of tion of the purlin alc Standard	revent t r a 10.0 tith any vor a liv where fif betw with BC coint 6 \$ ss conr (by oth nding 2	vater pondin opsf bottom other live loa e load of 20. a rectangle veen the bott DL = 10.0ps P 1650F 1.5 rections. ers) of truss 58 lb uplift a the 2018 R502.11.1 a ISI/TPI 1. of depict the e top and/or	g. ads. Opsf tom f. 5E to t t t size				Weight: 124 lb	FT = 20%	

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May 2,2024

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5-9-7

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D14	Half Hip	1	1	Job Reference (optional)	165267728

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:46:59 ID:NW8A00hWQvJV7g5EDbRRqIzWwxR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.3

Plate Offsets (X, Y): [1:Edge,0-1-12], [1:0-3-7,Edge], [7:Edge,0-2-8]

				-										
Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD	(psf) 25.0 10.0 0.0* 10.0 2x4 SP No.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018 3) 4)	8/TPI2014 Provide adeo All plates are	CSI TC BC WB Matrix-S quate drainage to p MT20 plates unle	0.77 0.94 0.96 prevent v ss other	DEFL Vert(LL) Vert(CT) Horz(CT) water ponding	in -0.22 -0.47 0.09 g.	(loc) 8-9 8-9 8	l/defl >999 >716 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 117 lb	GRIP 197/144 244/190 FT = 20%	
BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x4 SP 1650F 1.5E * No.2 2x3 SPF No.2 Left: 2x4 SP No.2 Structural wood shea 3-1-4 oc purlins, exa 2-0-0 oc purlins (3-4	*Except* 10-8:2x4 SI athing directly applie cept end verticals, ar -12 max.): 3-7.	P 5) 6) ed or nd 7)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearings are capacity of 5	s been designed f ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide wi by other members. assumed to be: , , 65 psi.	or a 10.0 with any for a liv s where Il fit betv Joint 8 \$	0 psf bottom other live loa e load of 20.1 a rectangle veen the bott SP No.2 crush	nds. Opsf om hing						
BOT CHORD WEBS REACTIONS	Rigid ceiling directly bracing. 1 Row at midpt (size) 1= Mecha Max Horiz 1=193 (LC Max Uplift 1=-176 (LI Max Grav 1=1262 (L	applied or 2-2-0 oc 6-8 inical, 8=0-3-8 C 9) C 8), 8=-266 (LC 9) .C 1), 8=1262 (LC 1)	8) 9) 10	Refer to gird Provide mec bearing plate joint 8 and 1) This truss is International R802.10.2 ar) Graphical pu	er(s) for truss to tru hanical connectior capable of withsta 76 lb uplift at joint designed in accord Residential Code nd referenced stan rlin representation	uss conr (by oth anding 2 1. dance w sections dard AN does no	ections. ers) of truss t 66 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	to t and size						
FORCES	(lb) - Maximum Com Tension 1-2=-2451/442, 2-3= 3-4=-1934/369, 4-6= 7-8=-185/85	ıpression/Maximum 2161/377, 1898/386, 6-7=-105	5/92, LC	or the orienta bottom choro DAD CASE(S)	ation of the purlin a I. Standard	llong the	top and/or							
BOT CHORD WEBS	1-11=-579/2166, 9-1 8-9=-382/1507 3-11=-10/458, 4-9=-4 6-9=-17/655, 6-8=-1	1=-494/2143, 410/171, 4-11=-401/ 785/416, 2-11=-249/;	141, 232									TE OF M	AISSO	
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=91r Ke=1.00;	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Cat. II; Exp C; Enclose	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	e)							۲ م	S	SCOTI SEVI	ER BER	D

exterior zone and C-C Exterior(2E) 0-0-12 to 4-9-12, Interior (1) 4-9-12 to 9-7-3, Exterior(2R) 9-7-3 to 16-8-1, Interior (1) 16-8-1 to 28-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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May 2,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	D15	Flat Girder	1	1	Job Reference (optional)	165267729

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:00 ID:GZv6RBxhUMyW8vCGyVJMBjzWwx6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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1	5-8-2	11-3-9	16-10-15	22-6-6	28-2-8
I	5-8-2	5-7-6	5-7-6	5-7-6	5-8-2



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	E01	Hip Girder	1	2	Job Reference (optional)	165267730

Job		Truss		Trus	ss Type			Qt	v	Ply	Roc	of - HR	Lot 181					
P240424-01	1	F01		Hin	Girder			1	,	2							16526773	30
Premier Building	g Supply (Springh	hill, KS), S	Spring Hills, KS - 6608	1110			Run: 8.63 S ID:oSTRU5	Apr 26 2024 liixP0hCp8N40	Print: 8. 14PrzW\	630 S Apr ww3-RfC?	Job 26 2024 PsB70Hq	Refere MiTek I I3NSgPe	ndustries, ndustries, qnL8w3ul	Inc. Tu TXbGK	ie Apr 30 13: WrCDoi7J4z	47:00 JC?f	P	Page: 1
		-0-1	0-8 4-4-	7	i.	7-11-6	i 1	1	4-4-2			1	17-11-1		1	22-3-8	ź	23-2-0
		0-1	0-8 4-4-	7	l	3-6-15		6	-4-13				3-6-15		1	4-4-7	(0-10-8
3-11-14 3-9-3 3-11-0	3-9-3 0-1-13	1	2 14 2 3x4=	5	3x4 = 3 13 3x4 =	0-1-13	NAILED 6x6 = 4 12 3x4 =	N NAILED	AILED			ED x4 = 5 10 3x8 =			3x4 ≈ 6 9 3x4 ⊪		18 18 3x	7 8
Scale = 1:45.5			4-4-	77		7-9-10 3-5-3	Special	NAILED N 14	1 AILED <u>4-5-14</u> 6-8-5	NAILED	Spe	cial	<u>17-11-1</u> 3-5-3	1	+	<u>22-3-8</u> 4-4-7		1
Loading		(psf)	Spacing	2-0-0	0		CSI		DEF	L	in	(loc)	l/defl	L/d	PLATES	c	GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL	1.15 1.15			TC BC	0.96 0.33	Vert(LL) CT)	0.06 ·	10-12 10-12	>999 >999	240 180	MT20	2	244/190	
BCLL		0.0*	Rep Stress Incr	NO			WB	0.07	Horz	(CT)	0.03	7	n/a	n/a				
BCDL		10.0	Code	IRC	2018/TPI	2014	Matrix-S								Weight: 2	28 lb F	T = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x6 SPF No 2x4 SP No.2 Structural w 6-0-0 oc pur 2-0-0 oc pur Rigid ceiling bracing. (size) 2: Max Horiz 2: Max Uplift 2: Max Grav 2:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	athing directly app ept -12 max.): 4-5. applied or 10-0-0 7=0-3-8 16) C 12), 7=-535 (LC -C 1), 7=1658 (LC	lied or oc 13) 1)	 Unithis Wii Va: Va: Ke: ext Interest 23- ver ford DC Frc Thi 	balanced s design. nd: ASCE sd=91mpf =1.00; Ca erior zone erior (1) 4. erior(2R) 2-0 zone; tical left a ces & MW IL=1.60 pl vvide adec s truss ha vvid live los	roof live loads 7-16; Vult=11 n; TCDL=6.0p t. II; Exp C; E: e and C-C Ext 4-7 to 7-11-6 14-4-2 to 21-1 cantilever lef nd right expos (FRS for react ate grip DOL= quate drainag) is been design ad oppropriation	Simph (3-sect sf; BCDL=6. nclosed; MW erior(2E) -0- , Exterior(2E) 5-0, Interior (t and right ey sed;C-C for r ions shown; =1.60 e to prevent i need for a 10.	consid cond gu 0psf; h (FRS (i 10-8 to) 7-11- 1) 21-5 cposed nembe Lumbe water p 0 psf b other 1	ered for ust) =35ft; envelope 4-4-7, 6 to 14-4 5-0 to ; end ers and er ponding. ottom	1 ;) I-2,) De Pli Ur Co	ead + Ro ate Incre hiform Lc Vert: 1-4 oncentra Vert: 4= 10=-372 19=-24 (of Live ase=1 bads (II 4=-70, ted Lo -75 (F) 2 (F), 1 (F), 20	e (balanced .15 b/ft) 4-5=-70, 5- ads (lb)), 5=-75 (F) 5=-75 (F), =-24 (F)	I): Lumbe -8=-70, 2 , 11=-24 16=-75 (I	er Increas 2-7=-20 (F), 12=- F), 17=-75	ae=1.15, 372 (F), 5 (F),
FORCES	(lb) - Maxim	um Com	pression/Maximun	n	7) * T	his truss h	ad nonconcun nas been desi	gned for a liv	e load	of 20.0p	s. sf							
TOP CHORD	l ension 1-2=0/10, 2- 4-5=-2831/1 6-7=-3216/1	3=-3212 143, 5-6 158, 7-8	2/1157, 3-4=-3104/ 6=-3101/1196, 8=0/10	1201,	on 3-0 cho 8) All	the bottor 6-00 tall b ord and ar bearings	n chord in all by 2-00-00 wid ny other meml are assumed	areas where le will fit betw pers. to be SPF N	a recta veen th o.2 cru	angle ne botton Ishing	n							
BOT CHORD	2-13=-987/2 10-12=-1000 7-9=-984/28	830, 12- 0/2834, 9 33	-13=-987/2830, 9-10=-984/2833,		cap 9) Pro	bacity of 4 wide mec	25 psi. hanical conne	ction (by oth	ers) of	truss to								
WEBS	4-12=-87/56 3-12=-253/3 6-9=-15/64	9, 4-10= 53, 6-10	133/126, 5-10=-7)=-244/353, 3-13=-	3/570, 15/61,	joir 10) Thi Inte	and 53 s truss is ernational	35 lb uplift at j designed in a Residential C	oint 7. ccordance w	ith the R502	2018 	d				<u> </u>	2007	en.	
NOTES 1) 2-ply truss (0.131"x3" Top chord oc. Bottom ch	to be connect) nails as follo s connected a ords connecte	ted toget ws: s follows d as follo	ther with 10d s: 2x4 - 1 row at 0- ows: 2x6 - 2 rows	9-0	R8 11) Gra or t bot 12) "NA per	02.10.2 an aphical pu the orienta tom chorco AILED" inco NDS guid	nd referenced Irlin represent ation of the pu J. dicates Girder delines.	standard AN ation does no rlin along the : 3-10d (0.14	NSI/TP ot depi e top a 8" x 3'	l 1. ct the siz nd/or ') toe-na	e ils			a a a	STATE S	OF M	M.	A LAN

Botton staggered at 0-9-0 oc.

- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 372 lb down and 177 lb up at 7-11-6, and 372 lb down and 477 lb up at 4-00 pt terms to the table of the superior 177 lb up at 14-3-6 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S) Standard



RCONSTRUCTION N PLANS REVIEW

DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 06/03/2024 3:52:56

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	E02	Common	2	1	Job Reference (optional)	165267731

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:00 ID:hDiyKToDmAvS9p7wcv40ZhzWww?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

00 Page: 1



Scale = 1:44.3

Plate Offsets (X, Y): [2:0-3-7,Edge], [6:0-3-7,Edge]

															_
Loading	(ps	sf) S	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.	.0 F	Plate Grip DOL	1.15		TC	0.62	Vert(LL)	-0.08	6-8	>999	240	MT20	197/144	
TCDL	10.	.0 L	Lumber DOL	1.15		BC	0.63	Vert(CT)	-0.19	6-8	>999	180			
BCLL	0.	.0* F	Rep Stress Incr	YES		WB	0.19	Horz(CT)	0.05	6	n/a	n/a			
BCDL	10.	.0 0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Left: 2x4 SP No Right: 2x4 SP No Structural wood 3-10-6 oc purlin Rigid ceiling dire bracing. (size) 2=0-3 Max Horiz 2=-94 Max Uplift 2=-16 Max Constantion	.2 sheath s. ectly ap 3-8, 6=0 4 (LC 13 30 (LC 2	ning directly applied oplied or 10-0-0 oc 0-3-8 3) 12), 6=-180 (LC 13)	4 5 1 or 7 L	 * This truss h on the bottor 3-06-00 tall b chord and ar All bearings s capacity of 5 Provide mec bearing plate joint 2 and 18 This truss is International R802.10.2 ar CAD CASE(S) 	has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be 65 psi. hanical connection is capable of withsta 30 lb uplift at joint 6 designed in accord Residential Code s and referenced stand Standard	for a liv s where I fit betw SP No. (by oth anding 1 S. dance w sections dard AN	e load of 20. a rectangle veen the bott 2 crushing ers) of truss 80 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1.	0psf om to t						
FORCES	(lb) - Maximum	Compre	ession/Maximum												
	Tension	847/412	2 3-4=-1614/392												
	4-5=-1614/392,	5-6=-18	847/412, 6-7=0/4												
BOT CHORD	2-10=-318/1601 6-8=-310/1601	, 8-10=	=-141/1106,												
WEBS	4-8=-106/541, 5 3-10=-340/219	5-8=-340	0/219, 4-10=-105/5	41,									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	
NOTES													A	De	
1) Unbalance	ed roof live loads h	nave be	een considered for										FOF M	IISS	
this design). 											A	A. T.	N.S.	
2) Wind: ASC	CE 7-16; Vult=115	mph (3	B-second gust)									A	SCOTT	M. P.V.	
Vasd=91m	ph; TCDL=6.0psf	; BCDL	_=6.0psf; h=35ft;									Ø	SEVI	ER Y	
Ke=1.00; C	Cat. II; Exp C; End	closed;	MWFRS (envelope	e)								KA	-/		
exterior zo	ne and C-C Exter	IOr(2E)	-0-10-8 to 4-1-8,									a.	110		
Interior (1)	4-1-8 to 11-1-12,	Exterio	Dr(2R) 11-1-12 to 2.0 zono: contilovor											Cier Met	7
loft and rig	ht ovposod : ond	10 23-2	2-0 2011e, Cantilever									5	NUMI	BER	
exposed C	C for members a	and force	res & MW/ERS for									N	ON PE-20010	18807 159	
reactions s	shown: Lumber D	OL=1.6	60 plate grip									N	The second	18A	
DOL=1 60	Lienn, Lamber De		io piato grip									۲	A Ser	O'A	
 This truss I 	has been designe	ed for a	10.0 psf bottom										ONA	LEFA	

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

May 2,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	E03	Common Girder	1	3	Job Reference (optional)	165267732

TCDL

BCLL

BCDL

WEBS

WEBS

1)

2)

3)

oc.

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Uniform Loads (lb/ft)



May 2,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J01	Jack-Open	20	1	Job Reference (optional)	165267733

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:32.6

Plate Offsets (X, Y): [5:Edge,0-6-12]

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 14 Matrix-P	0.21 0.14 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she 3-7-8 oc purlins, exi Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=115 (LC Max Uplift 3=-81 (LC (LC 12) Max Grav 3=117 (LC	t* 4-2:2x3 SPF No.2 athing directly applie- cept end verticals. applied or 10-0-0 oc nnical, 4= Mechanical C 12) C 12), 4=-1 (LC 12), 5 C 19), 4=70 (LC 3), 5	5) Refer 6) Provic bearir 5, 81 7) This ti Intern R802. LOAD CA , =-11 =237	to girder(s) for truss le mechanical connec g plate capable of wi b uplift at joint 3 and russ is designed in ac ational Residential Co 10.2 and referenced SE(S) Standard	to truss cont ction (by othe thstanding 1 1 lb uplift at ccordance wi ode sections standard AN	nections. ers) of truss to 1 lb uplift at jo joint 4. th the 2018 R502.11.1 at SI/TPI 1.	o Dint nd						
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 2-5=-202/97, 1-2=0/- 4-5=-201/77 2-4=-78/204	pression/Maximum 40, 2-3=-94/59											
NOTES	2 4= 10/204												
 Wind: ASC Vasd=91m Ke=1.00; C exterior zoo and right e exposed;C reactions s DOL=1.60 This truss chord live l * This truss on the bott 3-06-00 tai chord and Bearings a capacity of 	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ine and C-C Exterior(2 exposed ; end vertical I C-C for members and for shown; Lumber DOL= ⁻¹ has been designed for load nonconcurrent wi s has been designed for load nonconcurrent wi s	(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 or a live load of 20.0p where a rectangle fit between the botton bint 5 SP No.2 crushi	e) oft s. osf m ng						-		THE OF M SCOTT SEVI NUM PE-20010 PE-20010 Ma	MISSOLE ER BER DI8807	

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RELEASE IOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/03/2024 3:52:56

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J01A	Jack-Open	1	1	Job Reference (optional)	165267734

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3-7-8

Scale	=	1.23.8
ocale	_	1.20.0

00010 - 112010														
	(psf)	Spacing	2-0-0		CSI	0.20	DEFL	in 0.01	(loc)	l/defl	L/d	PLATES	GRIP	
	20.0	Fiale Grip DOL	1.15			0.29	Vert(LL)	0.01	24	>999	190	101120	197/144	
	10.0	Lumber DOL Bon Stroop Inor	1.15		BC	0.14		-0.02	3-4	>999	180			
	0.0	Code	IRC2018	R/TPI2014	Matrix-R	0.00		0.01	4	n/a	n/a	Weight: 12 lb	FT – 20%	
JODE	10.0	Code	11(02010	0/11/2014	Matrix-IX							Weight. 12 lb	11 = 2070	
UMBER TOP CHORD 3OT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 3-7-8 oc purlins, exi Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc	7) 8) ed or 9) C LC	Provide mec bearing plate 1 and 80 lb u This truss is International R802.10.2 ar Gap betweer diagonal or v DAD CASE(S)	hanical connectio e capable of withs uplift at joint 2. designed in accou Residential Code not referenced sta n inside of top cho vertical web shall i Standard	n (by othe tanding 3 rdance wi sections ndard AN ord bearin not excee	ers) of truss t 0 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1. Ig and first id 0.500in.	to joint and						
REACTIONS	(size) 1= Mecha 3=3-7-8, 4 Max Horiz 1=92 (LC Max Uplift 1=-30 (LC Max Grav 1=128 (LC (LC 3), 4=	nical, 2= Mechanica 4=3-7-8 12) 2 12), 2=-80 (LC 12) 2 1), 2=120 (LC 19), -73 (LC 3)	ıl, 3=68											
ORCES	(lb) - Maximum Com	pression/Maximum												
TOP CHORD	1-4=0/0, 1-2=-137/6	4												
SOT CHORD	3-4=0/0													
NOTES		(0												
 Wind: ASC Vacd=01n 	CE 7-16; Vult=115mph	(3-second gust)												
Vasu=911	Cat II: Evo C: Enclose	d: MWERS (envelop												
exterior zo	one and C-C Corner(3F) zone: cantilever le	sft											
and right	exposed · end vertical l	eft and right										000	TOP	

DOL=1.602) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

 Bearings are assumed to be: , Joint 3 SP No.2 crushing capacity of 565 psi.

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

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



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J02	Jack-Open	8	1	Job Reference (optional)	165267735

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:32.6

			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	0.21	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.20	Vert(CT)	-0.02	5-6	>999	180		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/	TPI2014	Matrix-R							Weight: 15 lb	FT = 20%
LUMBER			•	6)	Bearing at joi	int(s) 6 considers p	arallel t	o grain value	9					
TOP CHORD	2x4 SP No.	2			using ANSI/T	PI 1 angle to grain	formula	a. Building						
BOT CHORD	2x4 SP No.	2			designer sho	uld verify capacity	of beari	ng surface.						
WEBS	2x4 SP No.	2		7)	Provide mech	nanical connection	(by oth	ers) of truss t	to					
BRACING					bearing plate	capable of withsta	anding 9	lb uplift at jo	oint 6					
TOP CHORD	Structural v	wood shea	athing directly applie	d or	and 84 lb upl	ift at joint 3.								
	3-7-8 oc pu	urlins, exc	cept end verticals.	8)	This truss is	designed in accord	lance w	th the 2018						
BOT CHORD	Rigid ceilin bracing.	g directly	applied or 6-0-0 oc		R802.10.2 ar	Residential Code s nd referenced stand	dard AN	R502.11.1 a ISI/TPI 1.	and					
REACTIONS	(size) 3	3= Mecha	nical, 4= Mechanical	, LOA	AD CASE(S)	Standard								
	Max Llavia C	D=0-3-8	10)											
	Max Horiz C		(12)											
	Max Opint 3	D=-04 (LU D=115 (LC	12), 0=-9 (LC 12)	-226										
	iviax Grav 3	5=115 (LC 1 C 1)	5 19), 4=04 (LC 3), 6	=230										
FORCES	(lb) - Mavin		pression/Maximum											
TORGES	Tension		pression/maximum											
TOP CHORD	2-6=-207/12	24. 1-2=0	/40. 2-3=-95/57											
BOT CHORD	5-6=-23/13	. 4-5=0/0	,											
NOTES		,												
1) Wind AS(∼E 7-16: \/ult-	-115mnh	(3-second quet)											
Vasd=91n	nph: TCDI =6	Onsf: BC	DI = 6 Onsf: h = 35ft											
Ke=1 00.0	Cat II: Exp C	· Enclose	d MWFRS (envelop	e)										
exterior zo	one and C-C	Exterior(2	E) zone: cantilever le	eft										
and right e	exposed ; end	vertical l	eft and right										000	alle
exposed;C	C-C for memb	ers and fo	prces & MWFRS for										A OF M	Also
reactions	shown; Lumb	er DOL=1	.60 plate grip									1	TIE	
DOL=1.60)											A	NY accom	Nes I
2) This truss	has been des	signed for	a 10.0 psf bottom									a	s scor	M. YY
chord live	load noncond	current wit	th any other live load	s.								8	SEVI	ER \ X
3) * This trus	s has been d	esigned fo	or a live load of 20.0	osf								0 *		1*9
on the bot	tom chord in a	all areas v	where a rectangle									8		0
3-06-00 ta	all by 2-00-00		nt between the botto	m								NE	Coltra	2 MAR
chord and	any other me	empers.										107	DE 2001	19907 140
+) Dearings a	are assumed	to be., JC	DITE O OF INULZ CRUSH	ng								N.	PE-2001	1000/29
5) Refer to di	irder(s) for tri	uss to true	ss connections									Y	Pe	IN A
c, iterer to g												0	SION	LENS
													WINA	

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May 2,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J03	Jack-Open	1	1	Job Reference (optional)	165267736

5 \square

1.5x4 🛚

0-3-8

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. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



3x4 =

」4 12

<u>2-0-6</u> 1-8-14



2-5-10

<u>-10-</u>

Scale = 1:34.1

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.09	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	0.00	4-5	>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	IRC2	018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
LUMBER					6) Bearing at id	pint(s) 5 considers	s parallel t	o grain value						
TOP CHORD	2x4 SP N	lo.2			using ANSI/	TPI 1 angle to gra	ain formula	a. Building						
BOT CHORD	2x4 SP N	lo.2			designer sh	ould verify capacit	ty of beari	ng surface.						
WEBS	2x4 SP N	lo.2 *Excep	t* 4-2:2x3 SPF No.2		7) Provide med	hanical connection	on (by oth	ers) of truss t	0					
BRACING					bearing plat	e capable of withs	standing 1	1 lb uplift at j	oint					
TOP CHORD	Structura 2-3-10 oc	l wood she	athing directly applie cept end verticals.	d or	 5, 43 lb uplif 8) This truss is 	t at joint 3 and 12 designed in acco	lb uplift a brdance w	it joint 4. ith the 2018						
BOT CHORD	Rigid ceil bracing.	ling directly	applied or 10-0-0 oc	;	Internationa R802.10.2 a	Residential Code nd referenced sta	e sections andard AN	s R502.11.1 a ISI/TPI 1.	ind					
REACTIONS	(size)	3= Mecha 5=0-3-8	nical, 4= Mechanica	I,	LOAD CASE(S)	Standard								
	Max Horiz	5=76 (LC	12)											
	Max Uplift	3=-43 (LC	12), 4=-12 (LC 12),											
	•	5=-11 (LC	12)											
	Max Grav	3=61 (LC (LC 1)	19), 4=44 (LC 3), 5=	184										
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum											
TOP CHORD	2-5=-162	/142, 1-2=0	/40, 2-3=-55/40											
BOT CHORD	4-5=-163	/62												
WEBS	2-4=-54/1	152												
NOTES														
1) Wind: AS	CE 7-16; Vu	ult=115mph	(3-second gust)											
Vasd=91r	nph; TCDL=	=6.0psf; BC	DL=6.0psf; h=35ft;											The second se
Ke=1.00;	Cat. II; Exp	C; Enclose	d; MWFRS (envelop	e)									O TE	A A A A A A A A A A A A A A A A A A A
exterior z	one and C-C	 Exterior(2 nd vortical I 	E) zone; cantilever li oft and right	еπ									ALE OF I	VIISS OF
and hyne	C-C for men	here and f	orces & MW/ERS for									A		N.S.
reactions	shown I um	nber DOI =1	60 plate grip									A	SCOT	TM. PN
DOL=1.60))		and Broke Brike									a	/ SEV	ER \V V
2) This truss	has been d	lesigned for	a 10.0 psf bottom									0		0 + 1
, obord live	lood nonco	nourront wi	th any other live loop	10								NN C		

- lord live load nonconcurrent with any ther * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

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



06/03/2024 3:52:56

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NUMBE

PE-200101880

SIONAL

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J04	Jack-Open	1	1	Job Reference (optional)	165267737

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:47.9

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.10 0.01 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Exce Structural wood sh 1-0-10 oc purlins, Rigid ceiling directl bracing. (size) 3= Mech 5=0-3-8 Max Horiz 5=40 (LC Max Uplift 3=-10 (LC (LC 12) Max Grav 3=10 (LC	pt* 4-2:2x3 SPF No.2 eathing directly applie except end verticals. y applied or 10-0-0 oc vanical, 4= Mechanica C 11) C 1), 4=-25 (LC 12), 5 C 8), 4=23 (LC 10), 5=	5) 6) 2d or 25 8) 11, LC 5=-19 =153	Refer to girde Bearing at jo using ANSI/I designer sho Provide mecl bearing plate 5, 25 lb uplift This truss is International R802.10.2 ar DAD CASE(S)	er(s) for truss to tr int(s) 5 considers p Pl 1 angle to grain uld verify capacity nanical connection capable of withsta at joint 4 and 10 lt designed in accord Residential Code s nd referenced stan Standard	uss con parallel t n formula of beari (by oth anding 1 p uplift a dance wi sections dard AN	nections. o grain value a. Building ng surface. ers) of truss tr 9 lb uplift at jo lb uplift at jo ti the 2018 R502.11.1 at ISI/TPI 1.	o bint nd					
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m Ke=1.00; C exterior zon and right e: exposed;C reactions s DOL=1.60 2) This truss f chord live I 3) * This truss on the bott 3-06-00 tal chord and a capacity of	(LC 1) (lb) - Maximum Con Tension 2-5=-144/143, 1-2= 4-5=-106/34 2-4=-32/105 E 7-16; Vult=115mp ph; TCDL=6.0psf; Br Cat. II; Exp C; Enclos ne and C-C Exterior(xposed ; end vertica - C for members and thown; Lumber DOL= has been designed fo oad nonconcurrent v s has been designed m chord in all areas I by 2-00-00 wide wil any other members. re assumed to be: , v 565 psi.	ee) eft ds. psf om ing							ţ		STATE OF I SCOT SEVI PE-2001 PE-2001	MISSOLUE T.M. ER DISSOLUE DISS	

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RELEASE OR DESTRUCTION AS NOTED ON LANS REVIEW DEVELORMENT SERVICES LEE'S SUMMIT'S MISSOURI 06/03/2024 3:52:56

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J05	Jack-Open	1	1	Job Reference (optional)	165267738

3-1-0 3-1-0

12 5 Г

3x4 ≠

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. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

TION



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J06	Jack-Open	2	1	Job Reference (optional)	165267739

-0-10-8

0-10-8

1-5-2

1-5-2

12 5 Г

3x6 II

3

 \mathbb{N} 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. Tue Apr 30 13:47:01 ID:IsHWr?6HYmnhs4VhMLgsnazWx3x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-2-6

Page: 1





TRUCTION 'IEW

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Scale = 1:27.3 (X X) · [2:0-1-15 0-4-3] 04

Plate Offsets (X, Y): [2:0-1-15,0-4-3]]												
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/	/TPI2014	CSI TC BC WB Matrix-P	0.06 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2-4 2-4 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m Ke=1.00; (exterior zc and right e exposed;(C reactions s DOL=1.60 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Bearings a capacity o 5) Refer to gi	2x4 SP No.2 2x4 SP No.2 Left: 2x4 SP No.2 Structural wood sheat 1-5-2 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 3 Mechanic: Max Horiz 2=41 (LC Max Uplift 2=-37 (LC (LC 3) (lb) - Maximum Com Tension 1-2=0/4, 2-3=-39/23 2-4=0/0 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Cat. II; Exp C; Enclose- one and C-C Exterior(2 exposed ; end vertical I >-C for members and for shown; Lumber DOL=1 has been designed for load nonconcurrent will s has been designed for tom chord in all areas will any other members. are assumed to be: , Jo f 565 psi. irder(s) for truss to trus	athing directly applie applied or 10-0-0 oc 3= Mechanical, 4= al 12) c 8), 3=-27 (LC 12) C 1), 3=28 (LC 1), 4= apression/Maximum (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le eft and right orcces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load or a live load of 20.0] where a rectangle fit between the bottoo bint 2 SP No.2 crushi ss connections.	e) eff dor 28 esf m ing	Provide med bearing plate 2 and 27 lb u This truss is of International R802.10.2 ar AD CASE(S)	nanical connection capable of withsta plift at joint 3. designed in accord Residential Code s and referenced stan Standard	(by oth anding 3 dance wi sections dard AN	ers) of truss to 7 lb uplift at jo th the 2018 R502.11.1 ar SI/TPI 1.	o point nd				PE-2001	MISSOLDI I M. ER 018807	
												IVIA	1y Z,ZUZ4	

2

1-3-5

0-7-4

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J07	Jack-Open	2	1	Job Reference (optional)	165267740

4-7-9 4-7-9

4-7-9

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. Tue Apr 30 13:47:01 ID:n2qv3L7vI3vYUE4tw2B5KnzWx3w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:27.8			
Plate Offsets (X, Y): [2:0-1-15,0-4-3]			

-0-10-8 0-10-8

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.40	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	2-4	>999	180	-	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
							-	-				
LUMBER			Provide med	chanical connectio	on (by oth	ers) of truss	to					
TOP CHORD	2x4 SP No.2		bearing plat	e capable of withs	standing 9	1 Ib uplift at	joint					
BOT CHORD	2x4 SP No.2		3 and 48 lb	uplint at joint 2.	rdonoo w	ith the 2010						
WEDGE	Left: 2x4 SP No.2		Internationa	Residential Code	sections	P502 11 1	and					
BRACING			. R802 10 2 a	nd referenced sta	ndard AN	ISI/TPI 1	anu					
TOP CHORD	Structural wood she	athing directly applie		Standard								
	4-7-9 oc purlins. Bigid coiling directly	applied or 10.0.0 or		Otaridard								
BOT CHORD	bracing.	applied of 10-0-0 oc										
REACTIONS	(size) 2=0-3-8, 3	3= Mechanical, 4=										
	Max Horiz 2-99 (LC	al 12)										
	Max 1 Inlift 2-48 (LC	12) (12) 3–-91 (I C 12)										
	Max Gray 2-279 (10	(12), 3 = 31 (1012)	-88									
	(LC 3)	5 1), 5=140 (EO 1), 4	-00									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=0/4, 2-3=-100/54	4										
BOT CHORD	2-4=0/0											
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;	, ,									
Ke=1.00;	Cat. II; Exp C; Enclose	d; MWFRS (envelop	e)								000	TOP
exterior zo	one and C-C Exterior(2	E) -0-10-8 to 4-1-8,	abt								S OF I	ALSON
exposed :	end vertical left and rid	tantiever left and high	ynt							-	A SE	-050.10
members	and forces & MWFRS	for reactions shown.								A	N.	New
Lumber D	OL=1.60 plate grip DO	L=1.60								H	S/ SCOT	ΓM . $\sum V_{\lambda}$
2) This truss	has been designed for	r a 10.0 psf bottom								B.	/ SEVI	ER \ X
chord live	load nonconcurrent wi	th any other live load	ls.							n*	1	*4
3) * This trus	s has been designed f	or a live load of 20.0	psf								TTY:	/INMIN)
on the bot	tom chord in all areas	where a rectangle							-	-1/4	NUM	BER A
3-06-00 ta	II by 2-00-00 wide will	fit between the botto	m							17	DE 2001	018807 188
chord and	any other members.									N	-2001	SIGON AND
 Bearings a 	are assumed to be: , Jo	oint 2 SP No.2 crush	ing							Y	1 PPC	IN B
5) Refer to a	irder(s) for truss to tru	ss connections									UN ONA	LEN
o, itelei lo g		00 001110000110.									Que	TITE
											Ma	av 2 2024
											IVIC	<i>xy L,LUL</i> T

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J08	Jack-Open	2	1	Job Reference (optional)	165267741

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:01 ID:n2qv3L7vI3vYUE4tw2B5KnzWx3w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



0-9-3 0-8-4
$\left - \right $
0-8-4 0-0-15

Scale = 1:38.9

Plate Offsets (X, Y): [5:Edge,0-6-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/	TPI2014	CSI TC BC WB Matrix-P	0.11 0.01 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 5 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood shea 0-9-3 oc purlins, exc Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=37 (LC Max Uplift 3=-39 (LC (LC 12) Max Grav 3=21 (LC	t* 4-2:2x3 SPF No.2 athing directly applie cept end verticals. applied or 10-0-0 oc inical, 4= Mechanical 11) : 1), 4=-33 (LC 12), 5 16), 4=23 (LC 10), 5	5) 6) 7) dor LOA , =-25 =159	Refer to girde Provide mect bearing plate 5, 33 lb uplift This truss is o International R802.10.2 ar AD CASE(S)	r(s) for truss to tru- nanical connection capable of withsta at joint 4 and 39 lb designed in accorda Residential Code s id referenced stand Standard	uss con (by oth nding 2 uplift a ance wi ections dard AN	nections. ers) of truss to 5 lb uplift at jo 1 joint 3. ith the 2018 R502.11.1 ar ISI/TPI 1.	o pint nd				Weight: 0 ib	1 1 - 2078	
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m Ke=1.00; (exterior zo and right e exposed;C reactions s DOL=1.60 2) This truss chord live	(LC 1) (Ib) - Maximum Com Tension 2-5=-153/125, 1-2=0 4-5=-86/24 2-4=-34/122 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical 1 -C for members and for shown; Lumber DOL=1 has been designed for load nonconcurrent wi								STATE OF M SCOTT	ALSSOLA M. BR				
 * This trus: on the bott 3-06-00 ta chord and Bearings a capacity of 	s has been designed fr tom chord in all areas i Il by 2-00-00 wide will any other members. are assumed to be: , Jo f 565 psi.								A A A A	PE-20010	D18807	ÿ		

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RELEASE FOR CONSTRUCTION AS NOTED ON LANS REVIEW DEVELORMENTS SERVICES LEE'S'SUMMIT'S MISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J09	Jack-Open	2	1	Job Reference (optional)	165267742

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:01 ID:n2qv3L7vI3vYUE4tw2B5KnzWx3w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:32.6

Plate Offsets (X, Y): [5:Edge,0-6-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-P	0.09 0.04 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood shea 2-0-3 oc purlins, exc Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=69 (LC Max Uplift 3=-34 (LC 5=-13 (LC Max Grav 3=48 (LC (LC 1)	t* 4-2:2x3 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc inical, 4= Mechanical 12) : 12), 4=-13 (LC 12), : 12) 19), 4=37 (LC 3), 5=	5) 6) 7) i or LO	Refer to girde Provide mech bearing plate 5, 34 lb uplift This truss is a International R802.10.2 ar AD CASE(S)	er(s) for truss to tru nanical connection capable of withsta at joint 3 and 13 lb designed in accord Residential Code s nd referenced stand Standard	uss coni (by oth nding 1 uplift a ance wi sections dard AN	nections. ers) of truss to 3 lb uplift at jo t joint 4. th the 2018 R502.11.1 ar ISI/TPI 1.	o pint nd						
FORCES TOP CHORD SOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91n Ke=1.00; (exterior zc and right e exposed;C reactions : DOL=1.60 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Bearings a	(lb) - Maximum Com Tension 2-5=-155/94, 1-2=0/4 4-5=-139/50 2-4=-52/146 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Cat. II; Exp C; Enclose and C-C Exterior(2 exposed; end vertical I -C for members and for shown; Lumber DOL=1 has been designed for load nonconcurrent wir s has been designed for tom chord in all areas v any other members. are assumed to be: , JC	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) zone; cantilever le eft and right orcces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor pint 5 SP No.2 crushi	e) ft s. ssf n									NUMI PE-20010	MISSOLP ER BER 018807	
capacity o	f 565 psi.											Ma	y 2,2024	

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

RELEASE ORCONSTRUCTION AS NOTED ON PLANS REVIEW DEVELORIMENTIS SERVICES LEE'S'SUMMIT'S MISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J10	Jack-Open	2	1	Job Reference (optional)	165267743

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:n2qv3L7vI3vYUE4tw2B5KnzWx3w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:32.1

Plate Offsets (X, Y): [5:Edge,0-6-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.16 0.11 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood shea 3-3-3 oc purlins, exc Rigid ceiling directly bracing. (size) 3= Mecha	t* 4-2:2x3 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc unical. 4= Mechanical	5) 6) 7) d or LO	Refer to girde Provide mech bearing plate 5, 71 lb uplift This truss is of International R802.10.2 ar AD CASE(S)	er(s) for truss to tru- hanical connection capable of withsta at joint 3 and 3 lb designed in accord Residential Code s nd referenced stand Standard	uss con (by oth anding 1 uplift at lance wi sections dard AN	nections. ers) of truss i 1 lb uplift at j joint 4. th the 2018 R502.11.1 a SI/TPI 1.	to joint and						
FORCES TOP CHORD BOT CHORD	S=0-3-8 Max Horiz 5=105 (LC Max Uplift 3=-71 (LC (LC 12) Max Grav 3=102 (LC (LC 1) (lb) - Maximum Com Tension 2-5=-190/96, 1-2=0/4 4-5=-188/71 2-4 - 72/102	C 12) C 12), 4=-3 (LC 12), 5 C 19), 4=62 (LC 3), 5 Opression/Maximum 40, 2-3=-84/54	, =-11 =222											
	2-4=-72/192													
 Wind: ASC Vasd=91rr Ke=1.00; (exterior zo and right e exposed:C reactions s DOL=1.60 This truss chord live * This truss on the bott 3-06-00 ta chord and Bearings a capacity of 	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed; end vertical I -C for members and for shown; Lumber DOL=1 has been designed for load nonconcurrent wi s has been designed for tom chord in all areas II by 2-00-00 wide will any other members. are assumed to be: , Jo f 565 psi.	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) zone; cantilever le left and right orcces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor boint 5 SP No.2 crushi	e) sft ss. ssf m									NUM PE-20010 Ma	M. ER DI8807 L ENGINA V 2,2024	

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	J11	Jack-Open	5	1	Job Reference (optional)	165267744

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:n2qv3L7vI3vYUE4tw2B5KnzWx3w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:34.3

Plate Offsets (X, Y): [5:Edge,0-6-12]

	,, i): [0:Edg0,0 0 12	.1												
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL (roof)	25.0	Plate Grip DOI	1.15		TC	0.39	Vert(LL)	-0.02	4-5	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.24	Vert(CT)	-0.05	4-5	>999	180			
BCLI	0.0*	Rep Stress Incr	YES		WB	0.06	Horz(CT)	0.00	. 3	n/a	n/a			
BCDI	10.0	Code	IRC2018/	FPI2014	Matrix-P	0.00	1.012(01)	0.00	5	n/a	n/a	Weight: 21 lb	FT = 20%	
	10.0				autor i									—
LUMBER TOP CHORD 3OT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she 4-7-2 oc purlins, exi Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=143 (LC	t* 4-2:2x3 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc anical, 4= Mechanical, C 12)	6) 7) ⁻ l or LOA	Provide mecl bearing plate 5 and 107 lb This truss is - International R802.10.2 ar D CASE(S)	hanical connection e capable of withsta uplift at joint 3. designed in accord Residential Code s nd referenced stand Standard	(by oth Inding 1 lance w sections dard AN	ers) of truss t 0 lb uplift at j ith the 2018 s R502.11.1 a ISI/TPI 1.	to joint and				-		_
	Max FIOI2 5=143 (LC Max Uplift 3=-107 (L Max Grav 3=155 (LC (LC 1)	C 12), 5=-10 (LC 12) C 19), 4=89 (LC 3), 5=	=278											
FURGES	Tension	ipression/iviaximum												
TOP CHORD	2-5=-233/104, 1-2=0	0/40, 2-3=-120/73												
BOT CHORD	4-5=-235/92													
WEBS	2-4=-93/237													
NOTES														
 Wind: ASC Vasd=91m Ke=1.00; C exterior zo Interior (1) exposed; members a Lumber DC This truss chord live * This truss on the bott 3-06-00 tal chord and Bearings a capacity of 5) Refer to gi 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 4-1-8 to 4-6-6 zone; c end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO load nonconcurrent wi s has been designed fo tom chord in all areas II by 2-00-00 wide will any other members. are assumed to be: , Jo f 565 psi. rder(s) for truss to tru-	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) -0-10-8 to 4-1-8, antilever left and righ ght exposed;C-C for for reactions shown; DL=1.60 r a 10.0 psf bottom th any other live loads or a live load of 20.0p where a rectangle fit between the bottom bint 5 SP No.2 crushin ss connections.	s) t s. sf n ng							-		THE OF M SEVI DELEVING PE-20010 PE-20010 Ma	MISSOL TM. ER DI8807 L ENGLASSING UV 2,2024	>
														_

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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVERSION SERVICES LEE'S SUMMIT'S MISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	LG01	Lay-In Gable	1	1	Job Reference (optional)	165267745

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:FFOHGh7X3N1P5Of3TmiKt?zWx3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



28-4-7

Scale = 1:71.6 Plate Offsets (X, Y): [10:0-2-0,Edge], [16:0-2-8,0-3-0]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(lo	c)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		тс	0.22	Vert(LL)	n/a		-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.11	Vert(TL)	n/a		-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.22	Horiz(TL)	0.01	1	19	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S								Weight: 159 lb	FT = 20%
LUMBER				Т	OP CHORD	1-2=-348/298, 2-3	=-308/27	/3, 3-5=-263/2	42,	5) (Gable	e requi	res coi	ntinuous bottom c	chord bearing.
TOP CHORD	2x4 SP N	0.2				5-6=-240/228, 6-7	=-217/22	23, 7-8=-191/2	56,	6) (Gable	studs	space	d at 0-0-0 oc.	
BOT CHORD	2x4 SP N	0.2				8-9=-209/325, 9-1	0=-182/2	261,		7) -	This t	russ ha	as bee	n designed for a	10.0 psf bottom
WEBS	2x4 SPF I	No.3				10-11=-141/187, <i>*</i>	11-12=-2	24/312,		(chord	live lo	ad nor	nconcurrent with a	any other live loads.
OTHERS	2x3 SPF I	No.2				12-13=-161/203, 1	13-14=-1	18/128,		8) '	* This	truss	has be	en designed for a	a live load of 20.0psf
BRACING						14-15=-72/65, 15-	17=-178	/90, 17-18=-58	3/70,	(on the	e botto	m cho	rd in all areas wh	ere a rectangle
TOP CHORD	Structural	l wood she	athing directly applie	ed or		18-19=-123/183				;	3-06-(00 tall	by 2-0	0-00 wide will fit b	petween the bottom
	6-0-0 oc p	ourlins, exe	cept end verticals.	E	BOT CHORD	1-33=-98/148, 32-	33=-98/1	48,		. (chord	and a	ny oth	er members.	
BOT CHORD	Rigid ceili	ing directly	applied or 10-0-0 or	С		31-32=-98/148, 30	0-31=-98	/148,		9) /	All be	arings	are as	sumed to be SP	No.2 crushing
	bracing.	0 ,				29-30=-98/148, 28	3-29=-98	/148,		(capac	ty of 5	565 ps	i.	
WEBS	1 Row at	midpt	8-28, 9-26, 11-25, 1	2-24		26-28=-98/148, 25	5-26=-98	/148,		10) I	Provid	de med	chanic	al connection (by	others) of truss to
REACTIONS	(size)	1=28-4-7.	19=28-4-7. 20=28-4	4-7.		24-25=-98/148, 23	3-24=-98	/148,		1	bearin	ng plat	e capa	ble of withstandir	ng 22 lb uplift at joint
	()	21=28-4-7	7, 22=28-4-7, 23=28	-4-7,		22-23=-98/148, 2	1-22=-98	(148,			19, 14	14 ID U	plint at	joint 1, 85 id upilt	t at joint 33, 89 lb
		24=28-4-7	, 25=28-4-7, 26=28	-4-7,		20-21=-98/148, 1	20=-87	137				at joint	32,80	s id uplift at joint a	31, 89 ID UPIIT AT JOINT
		28=28-4-7	7, 29=28-4-7, 30=28	-4-7, ^v	VEBS	2-33=-142/104, 3-	32=-154	/110,			30, 80			Dini 29, 117 ib upi	III al joint 28, 33 lb
		31=28-4-7	7, 32=28-4-7, 33=28	-4-7		7-20-152/100 8-	28-112	/173,			ioint 2	atjoint	20, 10 bunlif	to upilitatjoint 2	25, 137 ID UPIIIT AL
	Max Horiz	1=328 (LC	C 9)			0-26-172/62 11	20=-140	/08		J	b unli	ift at in	b upili int 21	and 220 lb unlift a	at joint 20
	Max Uplift	1=-144 (L	C 10), 19=-22 (LC 1	1),		12-24-169/161	13-231	50/107		11)	Thic t	ruee ie	docia	and 223 ib upin a	2018
		20=-229 (LC 13), 21=-55 (LC	13),		14-22152/110	15-211	51/90		,	Intorn	ationa	l Rocid	lential Code secti	ione R502 11 1 and
		22=-98 (L	C 13), 23=-83 (LC 1	3),		16-20=-188/217	17-19=-2	97/130		, I	R802	10 2 a	nd ref	erenced standard	1 ANSI/TPI 1
		24=-137 (LC 13), 25=-10 (LC	11),		10 20 100/211,				104		SE(S)	Stor	adard	
		26=-33 (L	C 9), 28=-117 (LC 1	2),		l roof live loode he	ve heen	oppoidered for		LUA	DCP	(3E(3)	Sta	luaru	
		29=-85 (L	C 12), 30=-89 (LC 1	2), ') Unbalanceu	TOOL IIVE IOAUS HA	ve been								~
		31=-88 (L	C 12), 32=-89 (LC 1	2),		7 16: \/ult_115m	nh (2 co)	cond quet)						Con	TOP
		33=-85 (L	C 12)		Vocd_01mn	r = 10, $v = 10$		Dect b-25ft						F OF M	AISO
	Max Grav	1=207 (LC	C 9), 19=182 (LC 22),		at II: Eve C: Enclo	sod: MM	ERS (envelor	۵)				1	750	-00 M
		20=248 (L	C 20), 21=189 (LC	1),	exterior zon	e and C-C Exterior	r(2E) 0-5	-4 to 5-5-4	6)				A	NY accord	New
		22=194 (L	-C 20), 23=190 (LC	20),	Interior (1) 5	5-5-4 to 15-2-2 Ex	terior(2R) 15-2-2 to					A	s/ scori	M. YAY
		24=209 (L	C 20), 25=243 (LC	13),	19-10-12 In	terior (1) 19-10-12	to 28-3-	1 zone: cantile	ver				9	/ SEVI	ER \ X
		20=212 (L	C 19), 28=188 (LC	19),	left and righ	t exposed : end ve	rtical left	and right					Not		
		29=192 (L	C = 19, $30 = 192$ (LC	19),	exposed:C-	C for members and	d forces	& MWFRS for					XX.	1.HC	·XA
		31=191 (L	C 19), 32=194 (LC	19),	reactions sh	own; Lumber DOL	=1.60 pl	ate grip				6		10 Jan	Service .
FORCES	(16) 84	33=104 (L			DOL=1.60	, -		5 .					X7		ALLE AL
FURGES	(ID) - Max	imum Com	pression/iviaximum	3) Truss desig	ned for wind loads	s in the p	lane of the true	SS				N.	PE-20010	11880/ 10881
	rension				only. For st	uds exposed to wi	nd (norm	al to the face)	,				V	Ba	154
					see Standar	rd Industry Gable E	End Deta	ils as applicab	le,					A SIDE	FINA
					or consult q	ualified building de	signer a	s per ANSI/TP	11.					WNA	L
				4) All plates ar	e 1.5x4 MT20 unle	ess other	wise indicated						an	202

May 2,2024



TION IEW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	LG02	Lay-In Gable	1	1	Job Reference (optional)	165267746

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:FFOHGh7X3N1P5Of3TmiKt?zWx3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

May 2,2024

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/03/2024 3:52:57

TION IEW



21-6-15

Scale = 1:69.2

Plate Offsets (X, Y): [9:0-	2-0,Edge],	[22:0-2-0,0-1-4]											
Loading		(psf) 25.0	Spacing Plate Grip DOI	2-0-0 1 15		CSI TC	0.51	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES	GRIP 244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.17	Vert(TL)	n/a	-	n/a	999	11120	210,100
BCLL		0.0*	Rep Stress Incr	YES		WB	0.36	Horiz(TL)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IRC20)18/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No 2x4 SP No 2x4 SPF N 2x3 SPF N Structural 6-0-0 oc p Rigid ceili	0.2 0.2 No.3 No.2 wood shea wurlins, exa ng directly	athing directly applie æpt end verticals. applied or 10-0-0 od	ed or	BOT CHORD	1-24=-129/141, 2 21-23=-129/141, 1 19-20=-129/141, 1 17-18=-129/141, 1 5-16=-129/141, 2 2-24=-227/164, 4 5-21=-157/117, 6 7-19=-147/128, 8 10-17=-342/209, 1 2-215=-161/142	3-24=-12 20-21=-1 18-19=-1 16-17=-1 14-15=-1 -23=-127 -20=-151 -18=-173 11-16=-1	9/141, 29/141, 29/141, 29/141, 29/141 95, 1/110, 1/84, 67/135,		 Provest bea 14, upliti 20, upliti jointi 11) This Inte R80 	vide men ring plat 132 lb u it at joint 104 lb u it at joint t 15. s truss is rnationa	chanica e capa plift at : 23, 92 plift at : 17, 10 : desig I Resig	al connection (by able of withstandir joint 1, 138 lb upl 2 lb uplift at joint 2 joint 19, 52 lb upl 04 lb uplift at joint ned in accordanc dential Code secti	others) of truss to g 57 lb uplift at joint ift at joint 24, 72 lb 1, 86 lb uplift at joint ift at joint 18, 128 lb 16 and 93 lb uplift at e with the 2018 ons R502.11.1 and ANSI/TEL1
	bracing.				NOTES	12-13-101/142					ASE(S		ndard	
WEBS REACTIONS	 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 7-19, 8-18, 10-17, 11- (size) 1=21-6-15, 14=21-6-15, 15=21-6-15, 15=21-6-15, 12=21-6-15, 21=21-6-15, 22=21-6-15, 24=21-6-15, 24=21-6-15, 24=21-6-15, 24=21-6-15 Max Horiz 1=402 (LC 9) Max Uplift 1=-132 (LC 8), 14=-57 (LC 12), 15=-93 (LC 13), 16=-104 (LC 12 21=-92 (LC 12), 23=-72 (LC 12) 24=-138 (LC 12) Max Grav 1=255 (LC 11), 14=127 (LC 20), 15=219 (LC 20), 16=197 (LC 20), 15=219 (LC 19), 23=154 (LC 10), 23=154 (LC 10), 23=154 (LC 10), 23=154 (LC 10), 23=154 (LC 1				NOTES 1) Unbalancee this design. 2) Wind: ASC Vasd=91m Ke=1.00; CC exterior zor Interior (1) 20-2-2, Inte and right e: exposed;C- reactions s DOL=1.60 3) Truss desi only. For s see Standa or consult (4) All plates a 5) Gable requd 6) Gable requd 7) This truss b	d roof live loads ha E 7-16; Vult=115m ph; TCDL=6.0psf; I at. II; Exp C; Enclo ne and C-C Exterio 5-5-15 to 15-2-2; D cposed ; end vertic C for members an hown; Lumber DOI gned for wind load tuds exposed to wi rd Industry Gable qualified building d re 1.5x4 MT20 unli ires continuous bo s spaced at 0-0-0 c as been designed	we been in ph (3-sec BCDL=6. Ssed; MW r(2E) 0-5 xterior(2I 1-5-9 zor al left and d forces of L=1.60 pl s in the p ind (norm End Deta sesigner as ess other ttom chor pc. for a 10 l	considered for cond gust) Dpsf; h=35ft; FRS (envelope -4 to 5-5-15; R) 15-2-2 to te; cantilever le d right & MWFRS for ate grip lane of the trus al to the face), ils as applicab s per ANSI/TP wise indicated. d bearing.	e) eft ss , le, I 1.		ASE(S)	Sta	STATE OF M	MISSOLIRI M. ER
FORCES	 (lb) - Maximum Compression/Maximum Tension ORD 1-2=-409/331, 2-4=-347/274, 4-5=-321/269, 5-6=-301/263, 6-7=-274/261, 7-8=-261/339, 8-9=-263/345, 9-10=-142/174, 10-11=-292/376, 11-12=-234/282, 12-13=-211/232, 13-14=-183/180 			269, 339,	 chord live less on the botted 3-06-00 tall chord and a All bearings capacity of 	studs spaced at 0-0-0 oc. iss has been designed for a 10.0 psf bottom ve load nonconcurrent with any other live loads. russ has been designed for a live load of 20.0psf bottom chord in all areas where a rectangle 0 tall by 2-00-00 wide will fit between the bottom and any other members. rings are assumed to be SP No.2 crushing y of 565 psi.					PE-20010	L ENGLASS		

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	LG03	Lay-In Gable	1	1	Job Reference (optional)	165267747

1-11-10

2-3-5

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Tue Apr 30 13:47:02 ID:FFOHGh7X3N1P5Of3TmiKt?zWx3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1.5x4 🛚

6-0-1

Scale = 1:28

Loading	(ps	sf) Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25	.0 Plate Grip DOL	1.15			0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10	.0 Lumber DOL	1.15		BC	0.02	Vert(IL)	n/a	-	n/a	999		
BCLL	0	.0^ Rep Stress Incr	YES		WB	0.04	Horiz(IL)	0.00	5	n/a	n/a		FT 000/
BCDL	10	.0 Code	IRC201	B/TPI2014	Matrix-P							Weight: 21 lb	FI = 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 6-0-0 oc purlins Rigid ceiling dir bracing. (size) 1=6-(7=6-(Max Horiz 1=54 Max Uplift 1=5	l sheathing directly appl ectly applied or 10-0-0 (0-1, 5=6-0-1, 6=6-0-1, 0-1, 8=6-0-1 (LC 9) (LC 13) 6=-70 (LC 13)	5) 6) 7) lied or 0c 8) 9) 870 10	Gable studs This truss ha chord live loa * This truss l on the bottoo 3-06-00 tall l chord and at All bearings capacity of 5 Provide mec bearing plate 1, 70 lb uplif	spaced at 0-0-0 as been designer ad nonconcurrer has been design m chord in all are by 2-00-00 wide hy other member are assumed to 65 psi. thanical connecti e capable of with a ta joint 8 and 70 designed in acco	oc. d for a 10.0 t with any ed for a liv eas where will fit betw rs. be SP No. ion (by oth istanding 5 0 lb uplift a ordance w) psf bottom other live load e load of 20.0 a rectangle veen the botto 2 crushing ers) of truss t lb uplift at joi t joint 6. th the 2018	ds. Ipsf om o nt					
	(LC 1 Max Grav 1=62 (LC 2 19)	(LC 20), 5=61 (LC 1), 6 (LC 20), 5=61 (LC 1), 6 20), 7=62 (LC 22), 8=15	6=153 54 (LC LC	International R802.10.2 a DAD CASE(S)	Residential Coo nd referenced st Standard	te sections andard AN	R502.11.1 a ISI/TPI 1.	nd					
FORCES	(lb) - Maximum Tension	Compression/Maximum	n										
TOP CHORD	1-2=-51/46, 2-3 4-5=-42/33	=-52/72, 3-4=-52/72,											
BOT CHORD	1-8=-25/53, 7-8 5-6=-25/53	=-25/53, 6-7=-25/53,											
WEBS	2-8=-123/146, 3	8-7=-45/7, 4-6=-123/145	5										
NOTES												000	ADD
1) Unbalanc this desig	ed roof live loads l n.	nave been considered f	or									TE OF M	AISSO
2) Wind: AS Vasd=91r	CE 7-16; Vult=115 nph: TCDL=6.0psi	mph (3-second gust) f; BCDL=6.0psf; h=35ft:	:								A	SCOT	гм.

- 2 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.



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PE-2001018807

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

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V01	Valley	1	1	Job Reference (optional)	165267748

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Tue Apr 30 13:47:02 ID:FFOHGh7X3N1P5Of3TmiKt?zWx3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.5

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 IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.21 0.12 0.10	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 38 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No 2x3 SPF N 2x3 SPF N Structural 6-0-0 cc p Rigid ceilin bracing. (size) Max Horiz Max Uplift Max Grav	0.2 0.2 10	athing directly applie cept end verticals. applied or 10-0-0 oc 5=10-2-6, 6=10-2-6 C 9) c 8), 5=-72 (LC 13), C 12) C 20), 5=190 (LC 20) C 19), 7=351 (LC 19)	4) 5) 6) 7) d or ; 8) ; 9) 1(Gable requir Gable studs This truss ha chord live lo This truss lo This truss lo on the bottoo 3-06-00 tall lo chord and at All bearings capacity of 5 Provide mee bearing plate T, 72 lb uplif This truss is International R802.10.2 a 	res continuous bott spaced at 4-0-0 of as been designed has been designed m chord in all area by 2-00-00 wide win hy other members, are assumed to be 665 psi. chanical connection e capable of withst t at joint 5 and 154 designed in accor Residential Code nd referenced star Standard	tom chor c. for a 10.0 with any d for a liv s where ill fit betv. e SP No. n (by oth canding 5 l lb uplift dance w sections ndard AN	d bearing. D psf bottom other live loa e load of 20.0 a rectangle ween the botti 2 crushing ers) of truss i 3 lb uplift at j at joint 7. ith the 2018 i R502.11.1 a ISI/TPI 1.	ids. Opsf om to joint					
FORCES	(lb) - Maxi Tension	mum Com	pression/Maximum											
TOP CHORD	1-2=-153/ 4-5=-159/	130, 2-3=- 135	164/140, 3-4=-124/1	38,										
BOT CHORD	1-7=-37/4	7, 6-7=-37	/47, 5-6=-37/47											

WEBS NOTES

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

3-6=-240/83, 2-7=-285/227

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 6-5-12, Exterior(2E) 6-5-12 to 10-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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May 2,2024

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

TION DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V02	Valley	1	1	Job Reference (optional)	165267749

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:FFOHGh7X3N1P5Of3TmiKt?zWx3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.9

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	0.52 0.19 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 8-11-12 oc purlins, or Rigid ceiling directly bracing. (size) 1=8-11-6, Max Horiz 1=99 (LC Max Uplift 1=52 (LC 5=-10 (LC 5=-10 (LC	athing directly applied except end verticals. applied or 10-0-0 oc 4=8-11-6, 5=8-11-6 9) : 12), 4=-75 (LC 13), : 12)	6) 7) or 8) 9) 10)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings capacity of 5 Provide mec bearing plate 1, 75 lb uplift This truss is International R802.10.2 ar	as been designe ad nonconcurrer has been design m chord in all are by 2-00-00 wide my other membe are assumed to i65 psi. thanical connect e capable of with t at joint 4 and 1 designed in acc Residential Coo nd referenced st	d for a 10.0 nt with any hed for a liv- eas where will fit betw rs. be SP No ion (by oth- nstanding 5 0 lb uplift a oordance wi de sections tandard AN	p psf bottom other live load e load of 20.1 a rectangle een the bott 2 crushing ers) of truss s 2 lb uplift at j t joint 5. th the 2018 R502.11.1 a SI/TPI 1.	ads. Opsf om to ioint						
	Max Croy 1 201	1 1 4 165 (LC 20)	LO	AD CASE(S)	Standard									

8-11-6

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-122/113, 2-3=-81/109, 3-4=-141/132 BOT CHORD 1-5=-15/16, 4-5=-15/16 WEBS 2-5=-294/117

Max Grav 1=204 (LC 1), 4=165 (LC 20), 5=400 (LC 1)

NOTES

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

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TION DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V03	Valley	1	1	Job Reference (optional)	165267750

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:FFOHGh7X3N1P5Of3TmiKt?zWx3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





7-10-12

Page: 1





7-10-12

Scale = 1:29.8

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 ²	18/TPI2014	CSI TC BC WB Matrix-P	0.27 0.12 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 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 sher 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=7-10-12 Max Horiz 1=65 (LC Max Uplift 1=-45 (LC Max Grav 1=177 (LC (LC 1)	athing directly applied applied or 10-0-0 oc 2, 3=7-10-12, 4=7-10- 11) : 12), 3=-53 (LC 13) C 1), 3=177 (LC 1), 4:	7 8 9 -12 -12 -12 -12	 * This truss h on the bottor 3-06-00 tall b chord and ar capacity of 5 Provide mec bearing plate 1 and 53 lb u This truss is International R802.10.2 ar 	as been designe n chord in all area by 2-00-00 wide w ny other members are assumed to 65 psi. hanical connectio o capable of withs uplift at joint 3. designed in accor Residential Code nd referenced sta Standard	d for a liv as where vill fit betw as a set of the set we SP No. we SP No. on (by oth tanding 4 rdance we sections indard AN	e load of 20.0 a rectangle veen the bott 2 crushing ers) of truss t 5 lb uplift at j ith the 2018 i R502.11.1 a ISI/TPI 1.	Dpsf om oont und					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-111/67, 2-3=-10	U6/67 /52											
WEBS	2-4=-188/100	52											
NOTES													
1) Unbalance	d roof live loads have	been considered for											
 this design. Wind: ASC Vasd=91mj Ke=1.00; C exterior zor and right exposed;C- reactions sl DOL=1.60 	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC at. II; Exp C; Enclose ne and C-C Exterior(2 cposed ; end vertical I cC for members and for hown; Lumber DOL=1	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) zone; cantilever le eft and right orces & MWFRS for I.60 plate grip	∋) ⊧ft							,		STATE OF SCOT	MISSOLR T M. HER

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

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

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

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V04	Valley	1	1	Job Reference (optional)	165267751

2-8-6

2-8-6

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

1-6-2

1-9-13

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:02 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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5-4-12

4-11-9

2-3-3

-4-12

3

3x4 💊





4.04.4 S

Scale = 1:24.	1												
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
LUMBER TOP CHORE BOT CHORE OTHERS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 5-5-8 oc purlins. Rigid ceiling directly bracing. (size) 1=5-4-12 Max Horiz 1=42 (LC Max Uplift 1=-29 (LC Max Uplift 1=-29 (LC) 	athing directly applie applied or 10-0-0 oc 3=5-4-12, 4=5-4-12 9) 212), 3=-34 (LC 13)	7) 8) ed or 9) 5 10	* This truss I on the bottor 3-06-00 tall I chord and an All bearings capacity of 5 Provide mec bearing plate 1 and 34 lb u 0) This truss is International R802.10.2 a DAD CASE(S)	has been designe m chord in all area by 2-00-00 wide w hy other members are assumed to b 65 psi. thanical connection e capable of withs uplift at joint 3. designed in accoo Residential Code nd referenced stat Standard	ed for a liv as where vill fit betv s. be SP No. on (by oth standing 2 rdance w e sections andard AN	e load of 20.0 a rectangle veen the botto 2 crushing ers) of truss t 19 lb uplift at ji ith the 2018 5 R502.11.1 a USI/TPI 1.	Dpsf om o oint nd					
FORCES	(lb) Maximum Can	0 1), 0=114 (E0 1), 4											
FURCES	(ID) - Maximum Com Tension	pression/waximum											
TOP CHORD) 1-2=-71/50, 2-3=-68	/50											
BOT CHORD) 1-4=-9/34, 3-4=-9/34	4											
WEBS	2-4=-121/77												
NOTES													
 Unbaland this desig Wind: AS 	ced roof live loads have gn. SCE 7-16; Vult=115mph	been considered for (3-second gust)											
Vasd=91 Ke=1.00; exterior z and right exposed; reactions DOL=1.6	mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose cone and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL= 0	EDL=6.0psf; h=35ft; bd; MWFRS (envelop E) zone; cantilever le left and right orces & MWFRS for 1.60 plate grip	ee) eft									STATE OF I	MISSOLIT

DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,

or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4) 5) Gable studs spaced at 4-0-0 oc.

6)

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

May 2,2024

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NUMBER

PE-2001018807

SSIONAL

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V05	Valley	1	1	Job Reference (optional)	165267752

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

> <u>2-5-9</u> 1-0-3

<u>1-5-6</u> 1-5-6 Page: 1







Scale = 1:23.9

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.02 0.05 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 8 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORE BOT CHORE BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 2x4 SP No.2 Structural wood she 2-11-8 oc purlins. Rigid ceiling directly bracing. (size) 1=2-10-12 Max Horiz 1=19 (LC Max Grav 1=90 (LC (lb) - Maximum Corr 	athing directly applie applied or 10-0-0 oc 2, 3=2-10-12 9) ; 12), 3=-13 (LC 13) 1), 3=90 (LC 1) pression/Maximum	7) d or 8) 5 9) 10	* This truss h on the bottor 3-06-00 tall h chord and ar All bearings capacity of 5 Provide mec bearing plate 1 and 13 lb u D) This truss is International R802.10.2 a DAD CASE(S)	has been designe in chord in all area by 2-00-00 wide w hy other members are assumed to b 65 psi. hanical connectic e capable of withs uplift at joint 3. designed in accoo Residential Code and referenced sta Standard	ed for a live as where vill fit betw s. be SP No.: on (by othe standing 1 ordance wi e sections andard AN	e load of 20.0 a rectangle reen the botto 2 crushing ers) of truss t 3 lb uplift at j th the 2018 R502.11.1 a SI/TPI 1.	Dpsf om oint nd						
TOP CHORE BOT CHORE NOTES 1) Unbaland this desig 2) Wind: AS Vasd=91 Ke=1.00; exterior 2 and right	Tension 1-2=-78/54, 2-3=-78 1-3=-20/52 ted roof live loads have gn. SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC , Cat. II; Exp C; Enclose cone and C-C Exterior(2) exposed - end vertical	/54 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le eft and right	e) eft									Sauth		

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

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

4) Gable requires continuous bottom chord bearing.

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

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



May 2,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V06	Valley	1	1	Job Reference (optional)	165267753

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Page

0-0-4



3x4 🚅



Scale = 1:16.6

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

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.03 0.02 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 5 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wo 2-1-5 oc purli Rigid ceiling of bracing.	2 ood shea ins, exc directly	athing directly applie sept end verticals. applied or 10-0-0 oc	7) 8) ed or 9)	All bearings a capacity of 56 Provide mech bearing plate 1 and 15 lb u This truss is of International R802.10.2 an	re assumed to be 55 psi. aanical connection capable of withsta blift at joint 3. Jesigned in accorda Residential Code s d referenced stanc Standard	SP No. (by oth nding 1 ance w ections dard AN	2 crushing ers) of truss t 0 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1.	o oint nd					
REACTIONS	(size) 1=: Max Horiz 1=: Max Uplift 1=: Max Grav 1=: (Ib) - Maximu Tension	2-0-12, 25 (LC 9 -10 (LC 56 (LC im Com	3=2-0-12 9) 12), 3=-15 (LC 12) 1), 3=56 (LC 1) pression/Maximum											
TOP CHORD BOT CHORD NOTES 1) Wind: AS(Vasd=91n Ke=1.00; c exterior zc and right e exposed;C reactions s DOL=1.60 2) Truss des only. For see Stand or consult 3) Gable req 4) Gable stud 5) This truss chord live 6) * This truss on the bot 3-06-00 ta chord and	Lension 1-2=-33/22, 2 1-3=-11/12 CE 7-16; Vult=1 nph; TCDL=6.0 Cat. II; Exp C; E one and C-C Ex- exposed ; end v C-C for members shown; Lumber biggned for wind I studs exposed i studs exposed i ard Industry Ga qualified buildir uires continuous ds spaced at 4-0 has been desig load nonconcur is has been desig load nonconcur load nonconcur	2-3=-44/ 15mph psf; BCI Enclosed tterior(21 retrical k retrical k DOL=1 loads in to wind able Enc ng desig s botton 0-0 oc. gned for rrent wit signed fo I areas v ide will f bers.	 (3-second gust) (3-second gust) (1-6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever left and right prces & MWFRS for .60 plate grip the plane of the tru (normal to the face) I Details as applicat piner as per ANSI/TP n chord bearing. a 10.0 psf bottom h any other live load or a live load of 20.0 where a rectangle it between the bottom 	ee) eft ss , ole, , ole, 'l 1. ds. psf im									State OF M SCOT SEVI SEVI PE-2001	MISSOLUT T.M. ER 018807 L ENGINA Ay 2,2024

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RELEASE ICREMETRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 06/03/2024 3:52:57

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V07	Valley	1	1	Job Reference (optional)	165267754

5-3-2

5-3-2

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. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1.5x4 II

Scale = 1:21.9

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P							Weight: 16 lb	FT = 20%	
			7) All bea	ings are assumed to	he SP No	2 crushing							_
	2x4 SP No 2		capacit	v of 565 psi		2 crushing							
BOT CHORD	2x4 SP No 2		8) Provide	mechanical connecti	on (by oth	ers) of truss t	0						
WEBS	2x3 SPE No 2		bearing	plate capable of with	standing 3	5 lb uplift at i	oint						
	2/0 011 110.2		1 and 5	2 lb uplift at joint 3.	J								
	Structural wood she	athing directly applie	d or 9) This tru	ss is designed in acco	ordance wi	ith the 2018							
	5-3-12 oc purlins e	except end verticals	Interna	ional Residential Cod	le sections	R502.11.1 a	nd						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	R802.1	0.2 and referenced sta	andard AN	ISI/TPI 1.							
	bracing.		LOAD CAS	E(S) Standard									
REACTIONS	(size) 1=5-3-2, 3	3=5-3-2											
	Max Horiz 1=87 (LC	9)											
	Max Uplift 1=-35 (LC	2 12), 3=-52 (LC 12)											
	Max Grav 1=200 (LC	C 1), 3=200 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	1_2114/77 2_31	56/182											
BOT CHORD	1-3=-38/42	50/102											
NOTES													
1) Wind ASC	CE 7-16: Vult=115mph	(3-second aust)											
Vasd=91m	nph: TCDL=6.0psf: BC	DL=6.0psf: h=35ft:											
Ke=1.00: 0	Cat. II: Exp C: Enclose	ed: MWFRS (envelop	be)										
exterior zo	one and C-C Exterior(2	E) zone; cantilever l	eft										
and right e	exposed ; end vertical l	left and right											
exposed;C	C-C for members and f	orces & MWFRS for									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	
reactions s	shown; Lumber DOL=	1.60 plate grip									A	and	
DOL=1.60											BR OF I	MISS W	
Truss des	signed for wind loads in	n the plane of the tru	SS							6	7.21	N.V.	
only. For	studs exposed to wind	(normal to the face)	l,							B	SCOT	TM XP.V	
see Stand	ard Industry Gable En	d Details as applicat	ole,							8	SEVI		
2) Coble reg	qualified building designing	gner as per ANSI/TF	11.							R			
 Gable required Coble stur 	dires continuous potto	m chord bearing.								Ø *		1 * 8	
 Gable Stud This truck 	us spaceu al 4-0-0 0C. has been designed for	r a 10.0 pef bottom								VI (L J	2. 12	
chord live	load nonconcurrent wi	ith any other live load	de							1×	COLINIM		
 6) * This trus 	s has been designed f	or a live load of 20 0	lpsf							N	ON PE-2001	018807	
on the bot	tom chord in all areas	where a rectangle								N	m	12A	
3-06-00 ta	ll by 2-00-00 wide will	fit between the botto	om							X	A Ser	O'A	
chord and	any other members.										ONA	LEFA	

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May 2,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V08	Valley	1	1	Job Reference (optional)	165267755

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

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	3/TPI2014	CSI TC BC WB Matrix-S	0.39 0.24 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=13-10- 6=13-10- 6=13-10- Max Horiz 1=256 (LC Max Uplift 5=-37 (LC 7=-147 (L Max Grav 1=212 (LC 6=398 (LC (lb) - Maximum Com	athing directly applie cept end verticals. applied or 10-0-0 oc 15, 5=13-10-15, 15, 7=13-10-15 2 9), 6=-106 (LC 12), C 12) C 20), 5=180 (LC 2), C 2), 7=493 (LC 2) pression/Maximum	5) 6) ,d or 7) ; 8) 9) LC	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings : capacity of 5 Provide mec 5, 106 lb upli This truss is International R802.10.2 ar DAD CASE(S)	s been designed ad nonconcurrent has been designe n chord in all area y 2-00-00 wide w are assumed to b 65 psi. hanical connectic capable of with designed in acco Residential Code nd referenced sta Standard	for a 10.0 with any d for a live as where a will fit betw s, with BC be SP No.1 on (by othe standing 3 47 lb uplif redance wi e sections andard AN	p psf bottom other live load a load of 20.0 a rectangle een the botto DL = 10.0psf 2 crushing ars) of truss to 7 lb uplift at jj at at joint 7. th the 2018 R502.11.1 a SI/TPI 1.	ds.)psf om oint nd						
TOP CHORD BOT CHORD WEBS NOTES 1) Wind: AS(Vasd=91n Ke=1.00; exterior zc Interior (1) right expo for membe Lumber D 2) Truss des only. For see Stand	Tension 1-2=-341/210, 2-3=- 4-5=-115/105 1-7=-110/120, 6-7=- 3-6=-278/220, 2-7=- CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 5-11-9 to 13-10-5 zor sed ; end vertical left a ers and forces & MWFI OL=1.60 plate grip DC signed for wind loads ir studs exposed to wind lard Industry Gable En	231/156, 3-4=-128/1 110/120, 5-6=-110/1 366/258 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-9-1 to 5-11-9, ne; cantilever left and ind right exposed;C-0 RS for reactions sho bL=1.60 n the plane of the trus (normal to the face), d Details as applicab	11, 20 e) I C wwn; ss ,							•		STATE OF M SCOT SEVI PE-2001	MISSOUP T.M. ER MISSOUP ER	

- or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.



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May 2,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V09	Valley	1	1	Job Reference (optional)	165267756

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10-8-9

Scale = 1:34.5

Loading	(psf)	Spacing Plate Grip DOI	2-0-0 1 15		CSI	0.54	DEFL	in n/a	(loc)	l/defl	L/d	PLATES	GRIP 244/190
	10.0		1.15		BC	0.04	Vert(TL)	n/a		n/a	aaa	11120	244/100
BCU	0.0*	Ren Stress Incr	YES		WB	0.20	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S	0.10	110112(112)	0.00	·	n/a	n/a	Weight: 37 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=10-8-9 Max Horiz 1=193 (LI Max Uplift 1=-9 (LC (LC 12) Max Grav 1=219 (LL (LC 1)	eathing directly appli to the end verticals. 7 applied or 10-0-0 or 1, 4=10-8-9, 5=10-8-5 C 9) 12), 4=-26 (LC 9), 5 C 1), 4=96 (LC 1), 5	6) 7) ed or 8) % 9) 5=-174 LC =577	* This truss h on the bottor 3-06-00 tall h chord and ar All bearings capacity of 5 Provide mec bearing plate 1, 26 lb upliff This truss is International R802.10.2 a DAD CASE(S)	has been design in chord in all are by 2-00-00 wide are assumed to 65 psi. hanical connecti e capable of with t at joint 4 and 17 designed in acc Residential Coc nd referenced st Standard	ed for a liv as where will fit betw 's. be SP No. on (by oth standing 9 74 Ib uplift ordance wi le sections andard AN	e load of 20.0 a rectangle reen the botto 2 crushing ers) of truss t Ib uplift at joi at joint 5. th the 2018 R502.11.1 a SI/TPI 1.	Dpsf om int nd					
FORCES	(lb) - Maximum Con	npression/Maximum											
TOP CHORD	1-2=-268/173. 2-3=-	-117/85. 3-4=-78/91											
BOT CHORD	1-5=-85/93, 4-5=-85	5/93											
WEBS	2-5=-434/347												
NOTES 1) Wind: AS(Vasd=91n Ke=1.00; exterior zo	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2	n (3-second gust) CDL=6.0psf; h=35ft; ed; MWFRS (envelo) 2E) 0-9-1 to 5-9-1, e: cantilever left and	pe)									STE OF I	MISSO

- Interior (1) 5-9-1 to 10-7-15 zone; c 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face),
- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) Gable requires continuous bottom chord bearing.

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

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



May 2,2024

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value 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 - HR Lot 181	
P240424-01	V10	Valley	1	1	Job Reference (optional)	165267757

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



7-6-3

Scale = 1.20.5							-							
Loading TCLL (roof) TCDL BCLL	(p 2! 10	osf) 5.0 0.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.23 0.12 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	1(0.0	Code	IRC20	18/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural woo 6-0-0 oc purlin Rigid ceiling di bracing. (size) 1=7: Max Horiz 1=1: Max Uplift 4=-3 Max Grav 1=8: (LC	od shea is, exc irectly -6-3, 4 31 (LC 30 (LC 3 (LC 1)	athing directly applie cept end verticals. applied or 10-0-0 oc =7-6-3, 5=7-6-3 2 9) 12), 5=-117 (LC 12 20), 4=140 (LC 1), 5	6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	 * This truss on the botto 3-06-00 tall chord and a All bearings capacity of 9 Provide met bearing plate 4 and 117 lb This truss is Internationa R802.10.2 a 	has been designe m chord in all area by 2-00-00 wide w ny other members are assumed to b 565 psi. chanical connectic e capable of withs o uplift at joint 5. designed in acco I Residential Code and referenced sta Standard	d for a liv as where vill fit betv 5. e SP No. on (by oth standing 3 rdance w e sections undard AN	e load of 20.1 a rectangle veen the bott 2 crushing ers) of truss i 0 lb uplift at j ith the 2018 s R502.11.1 a ISI/TPI 1.	Opsf om to joint and				<u> </u>	
FORCES	(lb) - Maximum	n Com	pression/Maximum											
TOP CHORD BOT CHORD WEBS	1-2=-228/135, 1-5=-58/63, 4-8 2-5=-299/295	2-3=-1 5=-58/	103/77, 3-4=-109/12 ⁄63	24										
NOTES														
 Wind: ASt Vasd=91r Ke=1.00; exterior zc Interior (1 exposed; members Lumber D Truss des only. For 	CE 7-16; Vult=11 mph; TCDL=6.0ps Cat. II; Exp C; Er one and C-C Exte end vertical left a and forces & MW VOL=1.60 plate gr signed for wind lo studs exposed to	5mph sf; BCI nclosed erior(2l one; ca and rig VFRS f rip DOI bads in b wind	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-9-1 to 5-9-1, antilever left and rigi ht exposed;C-C for for reactions shown; L=1.60 the plane of the tru (normal to the face)	be) ht ; ss									STATE OF S	MISSOLIR T M. IER

- or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V11	Valley	1	1	Job Reference (optional)	165267758

4-3-12

4-3-12

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. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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May 2,2024

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CTION **IEW**





3x4 🚽

1.5x4 u

Scale = 1:20.3

chord and any other members.

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.14	Vert(TL)	n/a	-	n/a	999	-		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%	
	· · · ·					I						0		
LUMBER			7)	All bearings a	are assumed to b	e SP No.2	2 crushing							
TOP CHORD	2x4 SP No.2			capacity of 5	65 psi.									
BOT CHORD	2x4 SP No.2		8)	Provide mecl	hanical connectio	on (by othe	ers) of truss t	0						
WEBS	2x3 SPF No.2			bearing plate	capable of withs	tanding 2	8 Ib uplift at j	oint						
BRACING			0)	Tanu 41 ib u	ipilit at joirit 3. designed in 2000	rdanca wi	th the 2019							
TOP CHORD	Structural wood she	eathing directly applie	d or ⁹⁾	International	Residential Code	sections	R502 11 1 a	nd						
	4-4-6 oc purlins, ex	cept end verticals.		R802 10 2 ar	nd referenced sta	ndard AN	SI/TPI 1	na						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc		AD CASE(S)	Standard		0							
					Otandara									
REACTIONS	(SIZE) 1=4-3-12	, 3=4-3-12												
	Max Horiz 1=69 (LC	(9)												
	Max Opint 1=-28 (L)	(LC 12), 3 = -41 (LC 12)												
		C 1), 3=158 (LC 1)												
FORCES	(Ib) - Maximum Cor	npression/Maximum												
		2/1/5												
	1-2=-90/01, 2-3=-12	23/143												
	1 0= 00/00													
NUIES	CE 7 16: \/ult_115mpl	(2 second quist)												
Vasd_01r	nnh: TCDI -6 Onef: BC	DI -6 Opef: b-35ft												
Ke=1 00	Cat II: Exp C: Enclose	ed MWFRS (envelop	e)											
exterior zo	one and C-C Exterior(2E) zone: cantilever le	eft											
and right	exposed ; end vertical	left and right												
exposed;0	C-C for members and	forces & MWFRS for										~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
reactions	shown; Lumber DOL=	1.60 plate grip										A	all	
DOL=1.60)											B R OF I	AIS SAL	
Truss des	signed for wind loads i	n the plane of the tru	SS								6	7.21	N'SON	
only. For	studs exposed to wind	d (normal to the face)	,								B	SCOT	гм ХАХ	λ
see Stand	ard Industry Gable Er	d Details as applicab	le,								B	SEVI	FP V	YX
2) Gable reg	uiros continuous botto	igner as per ANSI/TP	11.								R			N
4) Gable stu	ds spaced at 4-0-0 oc	in choru bearing.									0	4		B
5) This truss	has been designed fo	or a 10.0 nsf bottom											Sec. In	4
chord live	load nonconcurrent w	ith any other live load	ls.								J.S	CONOM	- Contraction	4
6) * This trus	s has been designed	for a live load of 20.0	psf								N	ON PE-2001	018807	9
on the bot	ttom chord in all areas	where a rectangle									N	12	18h	7
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	m								1	0.50	NO'A	

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V12	Valley	1	1	Job Reference (optional)	165267759

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:RyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale - 1:36.4



574 -

18-5-8

00010 - 1.00.4														
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.32 0.16 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	SER CHORD 2x4 SP No.2 CHORD 2x4 SP No.2 CRS 2x3 SPF No.2 CING CHORD CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. CTIONS (size) 1=18-5-8, 5=18-5-8, 6=18-5-8, 7=18-5-8, 9=18-5-8 Max Horiz 1=67 (LC 16) Max Uplift 1=-15 (LC 13), 5=-26 (LC 13), 6=-145 (LC 13), 9=-145 (LC 12) Max Grav 1=170 (LC 1), 5=170 (LC 1), 6=466 (LC 26), 7=271 (LC 1), 9=466 (LC 25)				 Gable requires continuous bottom chord bearing. Gable studs spaced at 4-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. All bearings are assumed to be SP No.2 crushing capacity of 565 psi. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 26 lb uplift at joint 5, 145 lb uplift at joint 9 and 145 lb uplift at joint 6. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum	I	UAD CASE(S)	Standard								
TOP CHORD	1-2=-85/7 4-5=-63/5	1, 2-3=-89/ 6	/115, 3-4=-89/110,											
BOT CHORD	1-9=-10/5 5-6=-10/5	2, 7-9=-10/ 2	/52, 6-7=-10/52,											
WEBS	3-7=-208/	44, 2-9=-3	57/227, 4-6=-357/22	27										
NOTES 1) Unbalance this desig 2) Wind: AS Vasd=91re Ke=1.00;	ed roof live I n. CE 7-16; Vu nph; TCDL= Cat. II; Exp	oads have It=115mph 6.0psf; BC C; Enclose	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	pe)							0		STATE OF I	MISSOLA T.M. IER

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) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 9-3-6, Exterior(2R) 9-3-6 to 14-3-6, Interior (1) 14-3-6 to 17-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) RELEASE FOR CONTRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT SERVICES LEE'S SUMMIT'S MISSOURI 06/03/2024 3:52:58

PE-200101880

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V13	Valley	1	1	Job Reference (optional)	165267760

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tue Apr 30 13:47:03 ID:jRyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	_	1.30 /
Scale	=	1.30.4

12-0-11

Scale = 1.50.4														
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.48 0.28 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=12-0-1 Max Horiz 1=-42 (LC Max Uplift 1=-52 (LC 4=-46 (LC Max Grav 1=220 (LC	eathing directly applie r applied or 10-0-0 or 1, 3=12-0-11, 4=12-(2 17) 2 12), 3=-59 (LC 13). 2 12) C 25), 3=220 (LC 26	6) 7) c 9) 0-11 ,),	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings capacity of 5 Provide mec bearing plate 1, 59 lb uplift) This truss is International R802.10.2 au	is been designed ad nonconcurrent has been designe in chord in all aree by 2-00-00 wide w by other members are assumed to b 65 psi. hanical connectio e capable of withs at joint 3 and 46 designed in accor Residential Code nd referenced sa Standard	for a 10.0 with any d for a liv as where ill fit betw e SP No. n (by oth tanding 5 lb uplift a rdance w s sections ndard AN) psf bottom other live loa e load of 20.0 a rectangle veen the botte 2 crushing ers) of truss t 2 lb uplift at j t joint 4. ith the 2018 R502.11.1 a ISI/TPI 1.	ads. Opsf om to joint						
FORCES	4=527 (Ll (lb) - Maximum Com	U1)		()										
UNOLU	Tension													
TOP CHORD	1-2=-112/81, 2-3=-1	12/72												
BOT CHORD	1-4=-3/45, 3-4=-3/45	5												
WEBS	2-4=-367/240													
NOTES														
 Unbalanc this desig Wind: AS Vasd=91r Ke=1.00; exterior zo 	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	been considered fo (3-second gust) CDL=6.0psf; h=35ft; ed; MWFRS (envelop 2E) 0-9-1 to 5-9-1.	r De)									TE OF I	MISSO	

- 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) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 6-0-15, Exterior(2R) 6-0-15 to 11-0-15, Interior (1) 11-0-15 to 11-4-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 181	
P240424-01	V14	Valley	1	1	Job Reference (optional)	165267761

2-9-15

2-9-15

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. Tue Apr 30 13:47:03 ID:]RyfU189qh9GjXEF1TDZPCzWx3u-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4-11-9

2-1-10



. ...

5-7-15

0-8-6





5-7-15

Scale = 1:21

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.12 0.23 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 15 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Structural wood she 5-9-2 oc purlins. Rigid ceiling directly bracing. (size) 1=5-7-15, Max Horiz 1=17 (LC Max Uplift 1=-30 (LC Max Grav 1=191 (LC	athing directly applie applied or 10-0-0 or 3=5-7-15 12) 212), 3=-30 (LC 13) C 1), 3=191 (LC 1)	7) ed or 8) e 9) 10	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings capacity of 5 Provide mec bearing plate 1 and 30 lb u 0) This truss is International R802.10.2 a	has been desig in chord in all a by 2-00-00 wide by other membi- are assumed to 65 psi. hanical connect e capable of wit uplift at joint 3. designed in ac Residential Co nd referenced s Standard	ned for a live reas where e will fit betw ers. b be SP No ttion (by othe thstanding 3 cordance with ode sections standard AN	e load of 20.0 a rectangle veen the botto 2 crushing ers) of truss t 0 lb uplift at j th the 2018 R502.11.1 a SI/TPI 1.	Dpsf om oint ind						
TOP CHORD BOT CHORD NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=91r Ke=1.00;	(Ib) - Maximum Com Tension 1-2=-215/194, 2-3=- 1-3=-150/176 ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II: Exp C: Enclose	pression/iviaximum 215/203 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop	e)											

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

SCOTT M. SCOTT M. SEVER PE-2001018807



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3:52:58

06/03/2024