

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

Re: B230468

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I66075162 thru I66075250

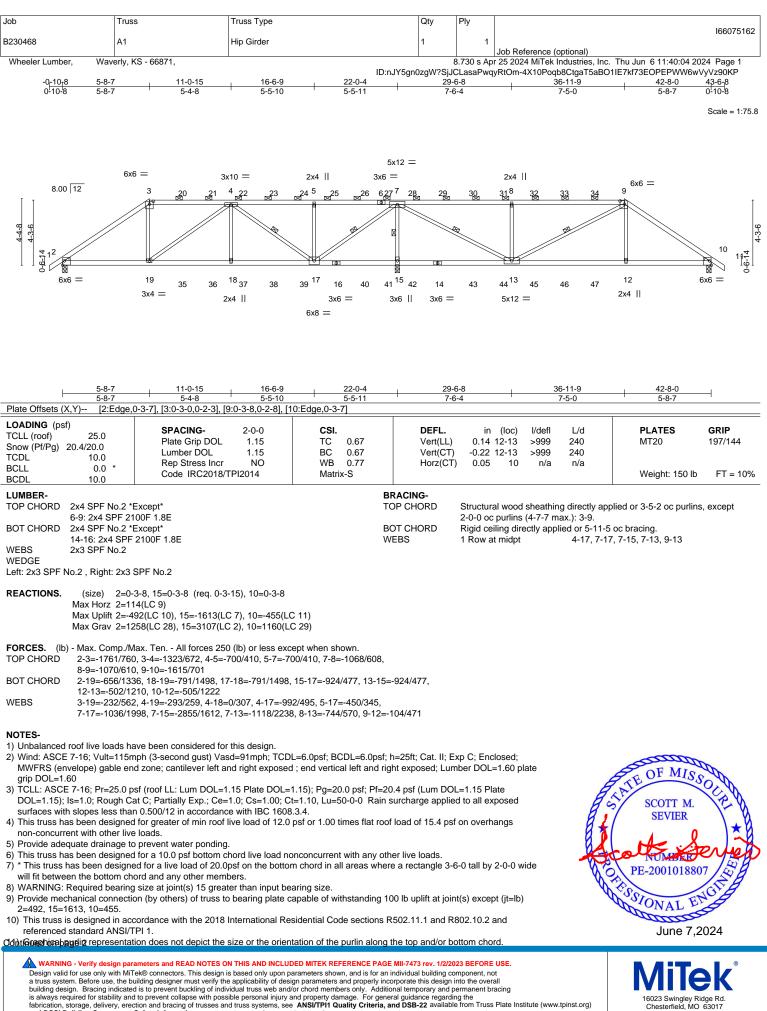
My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: Engineering 001193



June 7,2024

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 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.



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

Chesterfield MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
B230468	A1	Hip Girder	1	1	166075162
					Job Reference (optional)
Wheeler Lumber, W	averly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:04 2024 Page 2

NOTES-

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-4X10Poqb8CtgaT5aBO1IE7kf73EOPEPWW6wVyVz90KP

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 120 lb up at 5-8-7, 111 lb down and 117 lb up at 7-9-3, 111 lb down and 117 lb up at 11-9-3, 111 lb down and 117 lb up at 13-9-3, 111 lb down and 117 lb up at 15-9-3, 111 lb down and 117 lb up at 17-9-3, 111 lb down and 117 lb up at 17-9-3, 111 lb down and 117 lb up at 17-9-3, 111 lb down and 117 lb up at 19-9-3, 111 lb down and 117 lb up at 12-4-0, 111 lb down and 117 lb up at 22-10-13, 111 lb down and 117 lb up at 24-10-13, 111 lb down and 117 lb up at 24-10-13, 111 lb down and 117 lb up at 24-10-13, 111 lb down and 117 lb up at 24-10-13, 111 lb down and 117 lb up at 32-10-13, and 111 lb down and 117 lb up at 32-10-3, 36 lb down and 120 lb up at 36-11-9 on top chord, and 280 lb down and 169 lb up at 5-8-7, 36 lb down and 26 lb up at 17-9-3, 36 lb down and 26 lb up at 19-9-3, 36 lb down and 26 lb up at 17-9-3, 36 lb down and 26 lb up at 19-9-3, 36 lb down and 26 lb up at 17-9-3, 36 lb down and 26 lb up at 19-9-3, 36 lb down and 26 lb up at 22-10-13, 36 lb down and 26 lb up at 24-10-13, and 109 lb up at 36-10-13, 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 24-10-13, 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 32-10-13, and 30 lb down and 26 lb up at 36-10-13, 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 32-10-13, and 30 lb down and 26 lb up at 36-10-13, 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 32-10-13, and 30 lb down and 26 lb up at 36-10-13, and 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 36-10-13, and 50 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 32-10-13, and 36 lb down and 26 lb up at 36-10-13, and 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 32-10-13, and 30 lb down and 36 lb down and 36 lb up at 36-10-13, and 36 lb down and 26 lb up at 30-10-13, 36 lb down and 26 lb up at 32-10-13, and 36 lb down and 36 lb up at 30-10-13, 36 lb down and 26

LOAD CASE(S) Standard

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

Uniform Loads (plf)

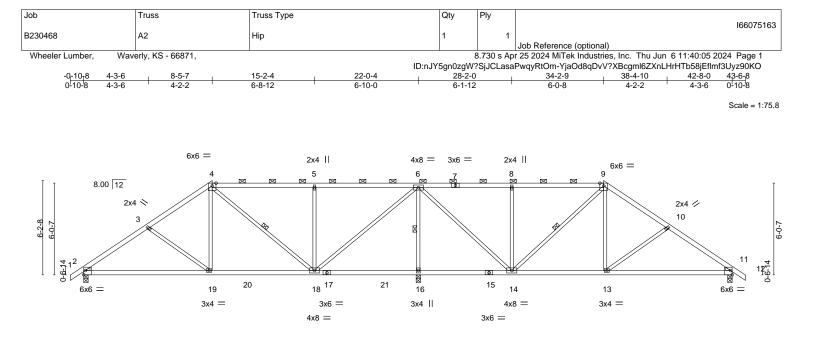
Vert: 1-3=-51, 3-9=-61, 9-11=-51, 2-10=-20

Concentrated Loads (lb)

Vert: 3=-25(F) 16=-21(F) 19=-280(F) 9=-25(F) 12=-280(F) 14=-21(F) 20=-21(F) 21=-21(F) 22=-21(F) 23=-21(F) 24=-21(F) 25=-21(F) 26=-21(F) 28=-21(F) 29=-21(F) 30=-21(F) 31=-21(F) 31=-21(F) 32=-21(F) 33=-21(F) 35=-21(F) 35=-21(F)

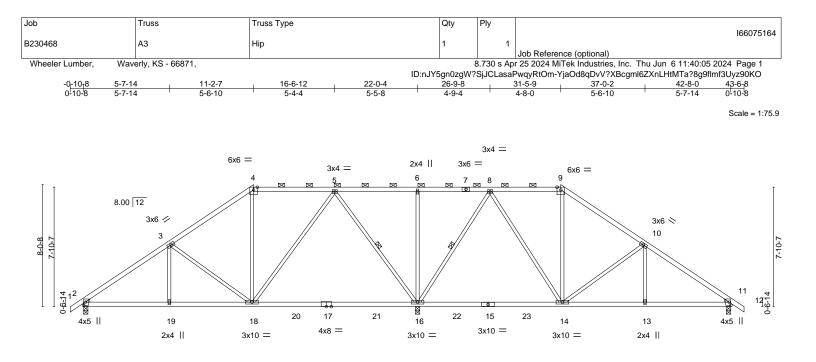
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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





8-5-7		22-0-4	28-2-0		34-2-9	42-8-0	
8-5-7		6-10-0	6-1-12		6-0-8	8-5-7	
Plate Offsets (X,Y) [2:Edge,0)-3-7], [11:Edge,0-3-7]		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 0.58	Vert(LL)	-0.12 11-13	>999 360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL 1.15	BC 0.64	Vert(CT)	-0.26 11-13	>950 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.67	Horz(CT)		n/a n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.03 18-19	>999 240	Weight: 162 lb	FT = 10%
BCDL 10.0			,			-	
LUMBER-			RACING-				
TOP CHORD 2x4 SPF No.2		TC	OP CHORD		sheathing directly	applied or 4-11-8 oc purl	ins,
BOT CHORD 2x4 SPF No.2				except			
WEBS 2x3 SPF No.2		-			(6-0-0 max.): 4-9.		
WEDGE			DT CHORD		ectly applied or 6-0		
Left: 2x3 SPF No.2, Right: 2x3 S	SPF NO.2	VV	EBS	1 Row at midpt	4-18, 6	6-16, 9-14	
	0 40 0 2 0 44 0 2 0						
REACTIONS. (size) 2=0-3 Max Horz 2=-10	3-8, 16=0-3-8, 11=0-3-8						
	17(LC 10), 16=-283(LC 7), 11=-131(LC	11)					
	2(LC 30), 16=2233(LC 3), 11=907(LC 2						
	2(20 00), 10-2200(20 0), 11-001(20 1	-0)					
FORCES. (lb) - Max. Comp./M	ax. Ten All forces 250 (lb) or less exc	ept when shown.					
	, 3-4=-1066/125, 4-5=-649/135, 5-6=-6						
8-9=-491/170,	9-10=-906/150, 10-11=-1116/182						
BOT CHORD 2-19=-194/100	9, 18-19=-140/842, 16-18=-353/135, 14	4-16=-353/135, 13-14=-3/	692,				
11-13=-64/851							
	4-18=-331/57, 5-18=-523/217, 6-18=-1						
6-14=-139/111	1, 8-14=-457/190, 9-14=-343/32, 9-13=	-12/437, 10-13=-256/182					
NOTES-							
	ve been considered for this design						
	ve been considered for this design. ph (3-second gust) Vasd=91mph; TCD	I -6 Opef: BCDI -6 Opef: k	-25ft: Cat II: Ex	n C: Enclosed			
	d zone; cantilever left and right exposed				ate		
grip DOL=1.60	2010, cantilever left and fight exposed		ni exposed, Eun			ann	
0 1	sf (roof LL: Lum DOL=1.15 Plate DOL=	1 15) [.] Pa=20 0 psf [.] Pf=20	4 psf (I um DOI	=1 15 Plate		Sund	Dr
	at C; Partially Exp.; Ce=1.0; Cs=1.00; C					SATE OF MIS	drag.
	sed surfaces with slopes less than 0.50			5		Bar	NS
4) This truss has been designed	for greater of min roof live load of 12.0	psf or 1.00 times flat roof	load of 15.4 psf	on overhangs	6	SCOTT M.	NA N
non-concurrent with other live	loads.				S	SEVIER	1~ 12
Provide adequate drainage to					R		1+1
	for a 10.0 psf bottom chord live load no				5 2		2-4
	d for a live load of 20.0psf on the botto		e a rectangle 3-6	i-0 tall by 2-0-0 w	ide 🖳		
	ord and any other members, with BCDL				- K	NUMBER	- YEA
,	on (by others) of truss to bearing plate o	apable of withstanding 10	in uplift at join	t(s) except (jt=lb)	V V	PE-20010188	07 159
2=117, 16=283, 11=131.	rdance with the 2019 Internetional Dec	dential Code continue DE	02 11 1 and D00	10.2 and	,	1 and	ISA
9) This truss is designed in acco referenced standard ANSI/TP	rdance with the 2018 International Res	uential Code sections R5	02.11.1 and R80	2.10.2 and			JO'A
	on does not depict the size or the orien	tation of the nurlin along t	he top and/or bo	ttom chord		SSIONAL F	A
		tation of the putilit along t				anos	9
						June 7,	2024
						00.107,	

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F	<u>5-7-14</u> 5-7-14	11-2-7	<u>16-6-12</u> 5-4-4	22-0-4			<u>31-5-9</u> 9-5-5		<u>37-0-2</u> 5-6-10	42-8-0	
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 TCDL BCLL BCDL	25.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES	CSI. TC 0.45 BC 0.64 WB 0.86 Matrix-S		DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.35 16-18 -0.55 16-18 0.03 11	l/defl >757 >481 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 169 I	GRIP 197/144 D FT = 10%
LUMBER- TOP CHORD 2 BOT CHORD 2 1	x4 SPF No.2 x4 SPF 2100F 1 1-15: 2x4 SPF N x3 SPF No.2	No.2			то во	ACING- OP CHORD OT CHORD	2-0-0 oc purlins	(6-0-0 m ectly app g: 14-16.	nax.): 4-9. lied or 10-0-	Dplied or 5-0-8 oc purli 0 oc bracing, Except	-
n N	Max Horz 2=208 Max Uplift 2=-12 Max Grav 2=926	9-8, 16=0-3-8, 11=0-3-8 8(LC 9) 19(LC 10), 16=-191(LC 7 6(LC 22), 16=2474(LC 3 ax. Ten All forces 250), 11=878(LC 2	3)							
TOP CHORD BOT CHORD WEBS	9-10=-607/175, 2-19=-182/982, 3-18=-499/220,	, 3-4=-764/141, 4-5=-558 , 10-11=-1055/178 , 18-19=-182/982, 16-18 , 5-18=-60/718, 5-16=-10 10-14=-533/212	=-146/251, 13-1	14=-42/775, 11-13	8=-42/77	75					
2) Wind: ASCE 7	-16; Vult=115m lope) gable end	ve been considered for t ph (3-second gust) Vasc I zone; cantilever left and	l=91mph; TCDL					late			
 TCLL: ASCE 7 DOL=1.15); Is surcharge app This truss has non-concurren Provide adequi 	7-16; Pr=25.0 ps =1.0; Rough Ca lied to all expos been designed t with other live ate drainage to	f (roof LL: Lum DOL=1.' t C; Partially Exp.; Ce=1 ed surfaces with slopes for greater of min roof liv loads. prevent water ponding. for a 10 0 psf bottom ch	.0; Cs=1.00; Ct less than 0.500 /e load of 12.0 p	=1.10, Lu=50-0-0; /12 in accordance osf or 1.00 times f	Min. fla with IB lat roof	at roof snow load C 1608.3.4. load of 15.4 psf	d governs. Rain			SCOTT M. SEVIER	SOUR

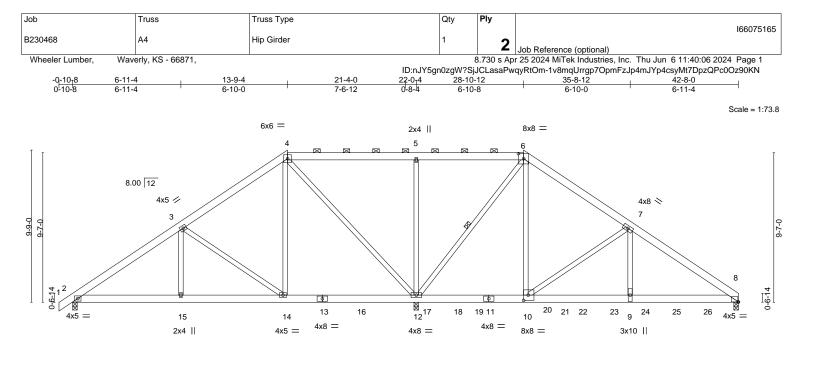
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 16=191, 11=146.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 7,2024



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	11-4	13-9-4		17-9-14	22-0-4	28-10		-1	35-8-		42-8-0	
	11-4 5:0-4-0 0-3-151	<u>6-10-0</u> , [8:0-0-7,0-0-0], [1		4-0-10 '	4-2-6	6-10	-8		6-10	-0	6-11-4	
LOADING (psf)				-								
TCLL (roof) 25.0	1	SPACING-	2-0-0	CS		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Snow (Pf/Pg) 20.4/20.0	. 1	Plate Grip DOL	1.15	TC	0.36	Vert(LL		8-9	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL Rep Stress Incr	1.15 NO	BC WE	0.57 0.88	Vert(CT Horz(C		8-9 8	>999 n/a	240 n/a		
BCLL 0.0)	Code IRC2018/TF			trix-S	Wind(Ll		8-9	>999	240	Weight: 527 lb	FT = 10%
BCDL 10.0			12011	Ind		Wind(E	., 0.01	00	2000	210	Wolght: 021 lb	
	2400F 2.0E *Ex 6 SPF No.2	<cept*< td=""><td></td><td></td><td></td><td>BRACING- TOP CHORD BOT CHORD</td><td>2-0-0 oc Rigid cei</td><td>purlins iling dire</td><td>(10-0-0 r</td><td>nax.): 4-6. ied or 6-0-0</td><td>plied or 6-0-0 oc purlins oc bracing.</td><td>, except</td></cept*<>				BRACING- TOP CHORD BOT CHORD	2-0-0 oc Rigid cei	purlins iling dire	(10-0-0 r	nax.): 4-6. ied or 6-0-0	plied or 6-0-0 oc purlins oc bracing.	, except
WEBS 2x4 SPF	No.2					WEBS	1 Row a	t midpt		6-12		
Max Ho Max Up	rz 2=249(LC 7 lift 8=-392(LC 1	0-3-8, 12=0-3-8 7) 11), 2=-297(LC 45 31), 2=948(LC 22										
		n All forces 250 517/442, 4-5=-25/				,						
BOT CHORD 2-15=-		15=-417/1017, 12-	14=-381/462	, 10-12=-36/	1282, 9-10	=-292/4198,						
WEBS 3-15=0)/303, 3-14=-76	63/269, 4-14=-103)=-3495/513, 7-9=	,	,		297,						
 NOTES- 1) 2-ply truss to be conn Top chords connected Bottom chords connected Bottom chords connected Webs connected as fr 2) All loads are consider ply connections have 3) Unbalanced roof live I 4) Wind: ASCE 7-16; Vu MWFRS (envelope) g grip DOL=1.60 5) TCLL: ASCE 7-16; Pr DOL=1.15); Is=1.0; R surfaces with slopes I 6) This truss has been d non-concurrent with o 7) Provide adequate dra 8) This truss has been m will fit between the bo 10) Provide mechanical 8=392, 2=297, 12=7 	d as follows: 2x cted as follows: 2x cted as follows: 2x4 - 1 i ed equally appli been provided loads have bee lt=115mph (3-s jable end zone; =25.0 psf (roof ough Cat C; Pa ess than 0.500, esigned for gre ther live loads. inage to prever esigned for a 1 designed for a at toom chord and connection (by	 x6 - 2 rows staggel x6 - 2 rows staggel x2x6 - 2 rows staggel row at 0-9-0 oc. value to all plies, ex to distribute only I en considered for tis second gust) Vasd cantilever left and LL: Lum DOL=1.1 artially Exp.; Ce=1 v/12 in accordance eater of min roof live nt water ponding. 0.0 psf bottom check live load of 20.0ps any other member 	red at 0-9-0 c ggered at 0-9 cept if noted oads noted a his design. I=91mph; TC d right expose (5 Plate DOL .0; Cs=1.00; with IBC 160 ve load of 12.	cc. -0 oc. as front (F) - is (F) or (B), DL=6.0psf; I ed; end vert =1.15); Pg= Ct=1.10, Lu: 0 psf or 1.00 nonconcurre om chord in DL = 10.0psf.	unless oth CDL=6.0p ical left and 20.0 psf; Pf =50-0-0 Ra 0 times flat nt with any all areas w	erwise indicated. sf; h=25ft; Cat. II; I d right exposed; Lu f=20.4 psf (Lum DC ain surcharge appli roof load of 15.4 ps other live loads. here a rectangle 3	Exp C; Enc mber DOL= DL=1.15 Pla ed to all ex of on overh 6-0 tall by	losed; =1.60 p ate posed angs 2-0-0 w	ide		THE OF MISS SCOTT M. SEVIER PE-200101880 PE-200101880 DESSIONAL EN June 7,2	Miles -
Continued on page 2												ſ
WARNING - Verify d Design valid for use on a truss system. Before u building design. Braciny is always required for st fabrication, storage, del and BCSI Building Col	y with MiTek® conr use, the building de g indicated is to pre ability and to preve ivery, erection and I	nectors. This design is l asigner must verify the a avent buckling of individ ent collapse with possib bracing of trusses and	based only upon applicability of de dual truss web ar le personal injur truss systems, s	parameters sh esign parameter nd/or chord mer y and property of ee ANSI/TPI1	own, and is for s and properly nbers only. Ad lamage. For g Quality Criter	r an individual building of incorporate this design dditional temporary and general guidance regard ia, and DSB-22 availab	omponent, no into the overa permanent br ing the le from Truss	it all acing	titute (www.	tpinst.org)	16023 Swingley Ric Chesterfield, MO 314.434.1200 / MITek	63017

Job	Truss	Truss Type	Qty	Ply	
					166075165
B230468	A4	Hip Girder	1	2	
				-	Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:06 2024 Page 2

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-1v8mqUrrgp7OpmFzJp4mJYp4csyMt7DpzQPc0Oz90KN

NOTES-

1) 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.

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 515 lb down and 22-7-4, 415 lb down and 99 lb up at 24-7-4, 386 lb down and 109 lb up at 26-7-4, 366 lb down at 28-7-4, 366 lb down at 30-7-4, 893 lb down and 98 lb up at 32-7-4, 493 lb down and 98 lb up at 32-7-4, 405 lb down and 98 lb up at 34-7-4, 910 lb down and 100 lb up at 36-7-4, and 910 lb down and 100 lb up at 36-7-4, and 910 lb down and 100 lb up at 40-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

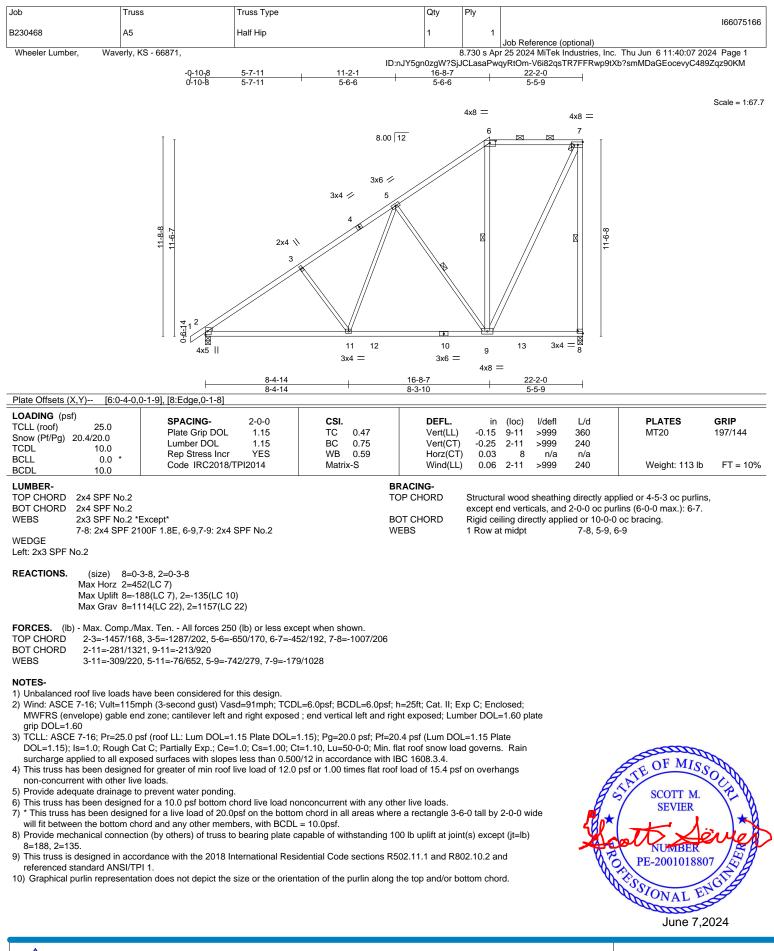
Uniform Loads (plf) Vert: 1-4=-51, 4-6=-61, 6-8=-51, 2-8=-20

Concentrated Loads (lb)

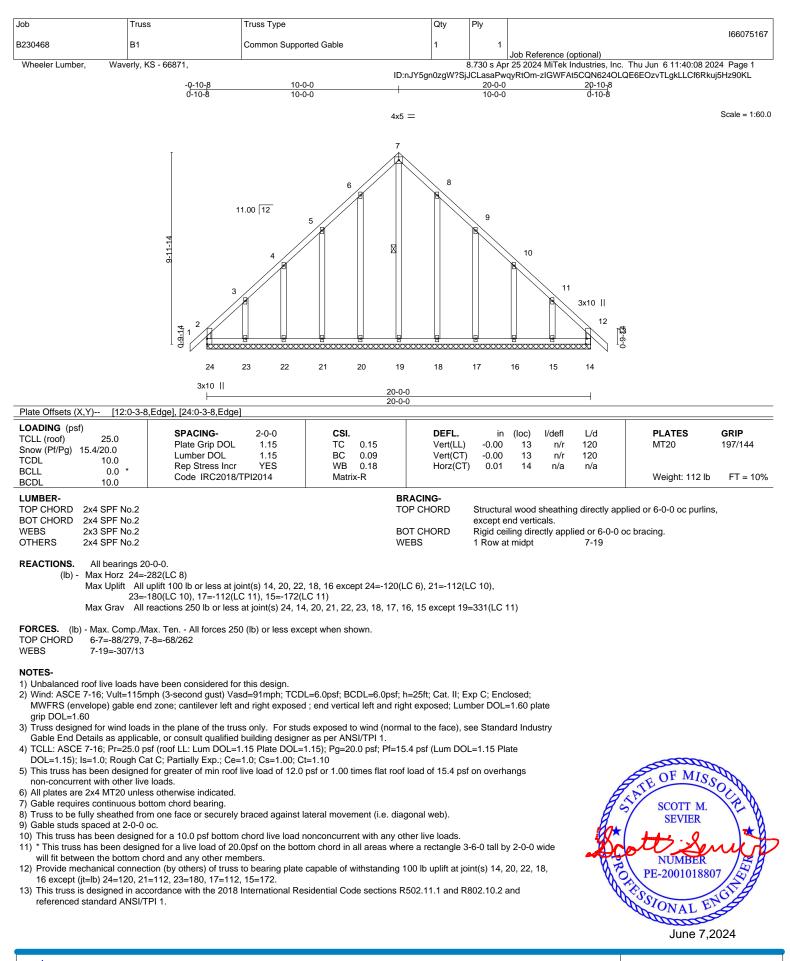
Vert: 11=-312(B) 17=-54(B) 18=-301(B) 20=-284(B) 21=-284(B) 22=-660(B) 23=-660(B) 24=-673(B) 25=-673(B) 26=-673(B) 26=-60

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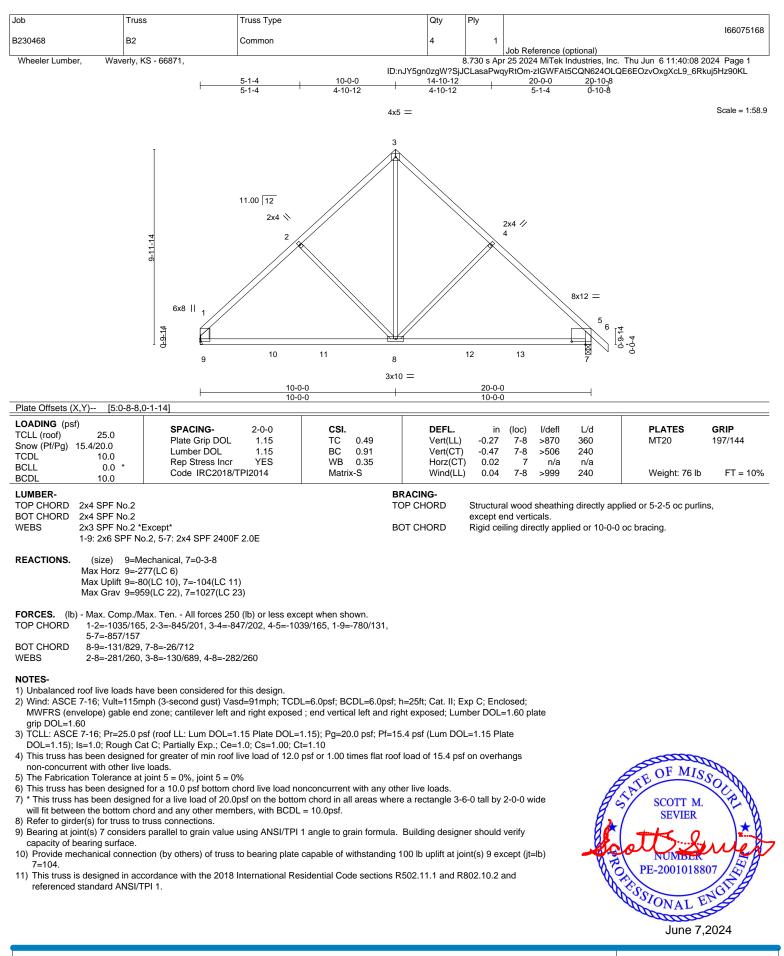




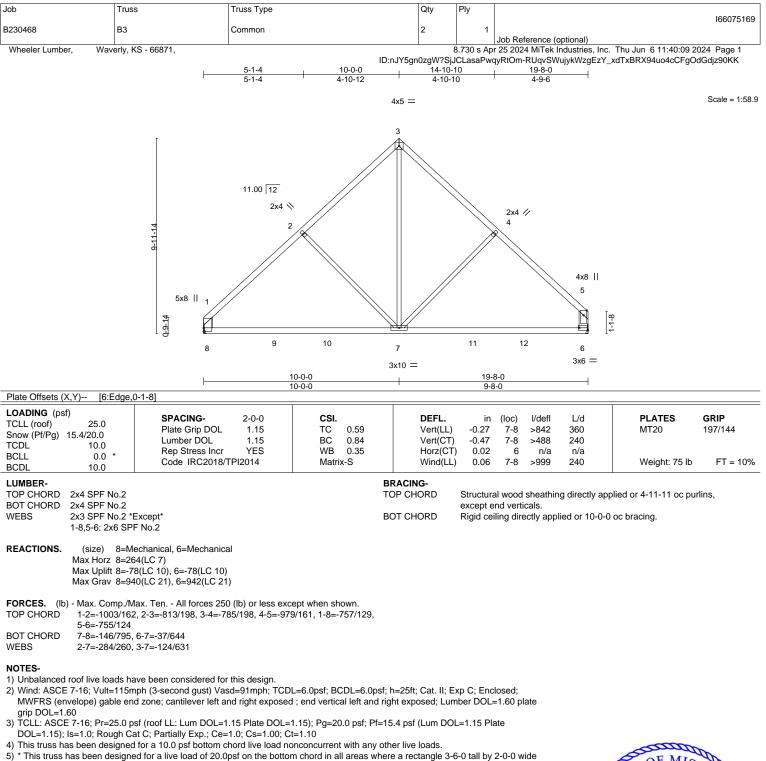
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will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

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



June 7,2024

16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

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lah	Truco	Truce Tures		Otre	Div				
Job	Truss	Truss Type		Qty	Ply				166075170
B230468	B4	Jack-Closed		2	1	Job Reference (optional)		
Wheeler Lumber, W	averly, KS - 66871,		ID:n I	VEan07a\\//29		pr 25 2024 MiTek	Industries, Ind	c. Thu Jun 6 11:40:09 ′xdTxBRc543B4cGFq0	
			4-3-9	8-9-8		αγκιοπ-κοάνον	/ujykvv∠g⊏∠ f		Jagajz90KK
			4-3-9	4-5-15					
					2x4				Scale = 1:50.2
		т			3				
					A				
				/					
			11.00 12						
			3x6 1/						
		8-10-9	2						
		à		\backslash					
			, //		\sim \parallel				
		4							
		0-9-14			¥				
			6 5		4				
		8	3x8 = 3x4 =		3x4 =	=			
			4-3-9	8-9-8					
Plate Offsets (X,Y) [6	6:Edge,0-5-9]		4-3-9	4-5-15	1				
LOADING (psf)									
TCLL (roof) 25.0	Plate Grip DOI	2-0-0 1.15	CSI. TC 0.28	DEFL. Vert(LL	in 0.01- (.	. ,	L/d 360	PLATES MT20	GRIP 197/144
Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(C			240		
BCLL 0.0 BCDL 10.0	Code IRC201		WB 0.34 Matrix-P	Horz(C Wind(L			n/a 240	Weight: 42 lb	FT = 10%
LUMBER-			BR	ACING-					
TOP CHORD 2x4 SPF	No.2			CHORD	Structu	ral wood sheathi	ng directly ap	oplied or 6-0-0 oc purli	ns,
BOT CHORD 2x4 SPF WEBS 2x3 SPF			BO	CHORD		end verticals. eiling directly app	lied or 10-0-	0 oc bracing	
			WE			at midpt	-11-0-0- 3-4	o oc bracing.	
REACTIONS. (size) Max Hou	6=Mechanical, 4=Mechani rz 6=313(LC 10)	cal							
Max Upl	ift 4=-240(LC 10)								
Max Gra	av 6=386(LC 2), 4=426(LC 2	1)							
	omp./Max. Ten All forces 2	50 (lb) or less e	cept when shown.						
	54/0, 1-2=-369/0 17/124, 4-5=-154/259								
	253, 2-4=-368/219								
NOTES-									
	lt=115mph (3-second gust) V able end zone: cantilever left								
DOL=1.60	,	0 1	, ,			01			
	=25.0 psf (roof LL: Lum DOL= ough Cat C; Partially Exp.; Ce			psf (Lum D	OL=1.15 P	late			
3) This truss has been d	esigned for a 10.0 psf bottom	chord live load	nonconcurrent with any other						
	designed for a live load of 20 ttom chord and any other me		om chord in all areas where	a rectangle 3	8-6-0 tall by	/ 2-0-0 wide			
5) Refer to girder(s) for t	russ to truss connections.							Sum	m
 Provide mechanical co 4=240. 	onnection (by others) of truss	to bearing plate	capable of withstanding 100	lb uplift at jo	int(s) exce	ept (jt=lb)		TE OF MIS	Par
7) This truss is designed	in accordance with the 2018	International Re	sidential Code sections R50	2.11.1 and R	802.10.2 a	and	A	The second second	NSY
referenced standard A	NSI/TPI 1.						B	SCOTT M.	12-12



June 7,2024

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Job	Truss	Truss Type	Qty	Ply	
B230468	B5	Half Hip	1	1	I66075171
5200100	20		•		Job Reference (optional)
Wheeler Lumber,	Vaverly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:10 2024 Page 1

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-vgOHgsuLj2eqIOYkYf8iUO_eDUK_p6DPu2Nq99z90KJ 8-9-8 7-5-2 1-4-6 1-4-6 11.00 12 6x6 = 3x4 || 3 3x6 || 11-2-14 11-1-10 1-1-10 9-11-14 X 网 7 6 5 Δ 3x6 =4x5 || 2x4 ||

1-4-6 8-9-8 7-5-2

Plate Offsets (X,Y) [2:0-4-4,0-3-0]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.89 BC 0.46 WB 0.17	DEFL. in (loc) l/defl L/d PLATE Vert(LL) -0.23 4-5 >434 360 MT20 Vert(CT) -0.40 4-5 >258 240 Horz(CT) 0.00 4 n/a n/a	197/144				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.12 4-5 >863 240 Weigh	t: 70 lb FT = 10%				

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF 2400F 2.0E WEBS 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 6=Mechanical

Max Horz 6=-251(LC 8) Max Uplift 4=-144(LC 7), 6=-58(LC 6)

Max Grav 4=487(LC 19), 6=437(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-253/102, 3-4=-257/58, 1-6=-258/51

WEBS 2-5=-243/335

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate

DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=144

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

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



Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 2-3.

3-4, 2-5, 2-4, 1-6

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

June 7,2024

Scale = 1:70.0



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Job	Truss		Truss Type		Qt	y	Ply					166075172
B230468	B6		Half Hip		1		1					100075172
Wheeler Lumber,	Waverly, KS - 6	6871				5	3 730 e Ar		ference (c. Thu Jun 6 11:40:10 2	024 Page 1
Wheeler Lumber,	waveny, KS - 0	00071,			ID:nJY5gn						/kYf8iUO_jZULGp50Pu2	
				2-9-13 2-9-13	<u>8-9-8</u> 5-11-11							
												Scale = 1:72
			11	1.00 12 6x6 =		:	2x4					
			Ιī	2 / II		×	3 					
			12-6-14 12-5-1 9-11-14	3x6 1		7		1-0-71				
				2-9-13 2-9-13	8-9-8 5-11-11							
Plate Offsets (X,Y)	[2:0-3-0,0-2-0]										
Snow (Pf/Pg) 20.4/20	5.0 1.0 0.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.55 BC 0.44	Ve Ve	EFL. ert(LL) ert(CT)	in -0.24 -0.39	4-5 4-5	l/defl >428 >263	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL).0 *).0	Rep Stress Incr Code IRC2018/	YES TPI2014	WB 0.25 Matrix-S		orz(CT) ind(LL)		4 4-5	n/a >377	n/a 240	Weight: 74 lb	FT = 10 ⁴
WEBS 2x4 SI REACTIONS. (siz Max H Max U	PF 2400F 2.0E PF No.2 e) 4=Mecha lorz 6=-268(L0 Jplift 4=-176(L0	nical, 6=Mechanica			BRACING- TOP CHOR BOT CHOR WEBS	D	except e	end vert iling dir	icals, and ectly app	1 2-0-0 oc p lied or 10-0-	pplied or 6-0-0 oc purlir urlins (6-0-0 max.): 2-3. 0 oc bracing. , 2-4, 1-6	
FORCES. (lb) - Max. TOP CHORD 1-6=		Fen All forces 250	,	ept when shown.								
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; V	/ult=115mph (3	3-second gust) Vas	d=91mph; TCDL	.=6.0psf; BCDL=6.0p t exposed; Lumber D								

- MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=176
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 7,2024

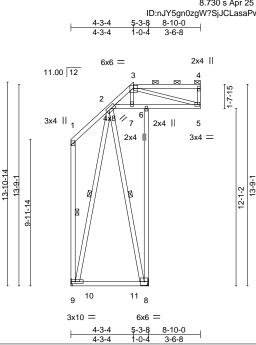


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Job	Truss	Truss Type	Qty	Ply	
B230468	B7	Half Hip	1	1	166075173
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,		8	3.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:11 2024 Page 1

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:11 2024 Page ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-NtyftBv_ULmhwX7w5Mfx0cXuXtf8YVSY7i6Nibz90KI

Scale = 1:78.6



		4-3-4 1-0)-4 3-6-8					
Plate Offsets (X,Y) [3:0-3-0,0	0-2-0]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.54 BC 0.53 WB 0.43 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.05 8-9 -0.08 8-9 0.00 8 -0.04 8-9	l/defl >999 >711 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 83 lb	GRIP 197/144 FT = 10%

LUMBER-		BRACING-
TOP CHORD	2x4 SPF No.2	TOP CHORD
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2 *Except*	BOT CHORD
	4-5,3-5,3-7: 2x3 SPF No.2	WEBS

ns,
ſ

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 9=Mechanical, 8=Mechanical Max Horz 9=-347(LC 8) Max Uplift 9=-318(LC 8), 8=-649(LC 7) Max Grav 9=508(LC 7), 8=969(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

- TOP CHORD 1-2=-265/206, 2-3=-267/599
- 6-8=-634/259, 2-7=-392/142, 6-7=-359/127, 5-6=-357/126 BOT CHORD
- WEBS 2-8=-435/431, 2-9=-632/596, 3-5=-145/378, 3-7=-723/307

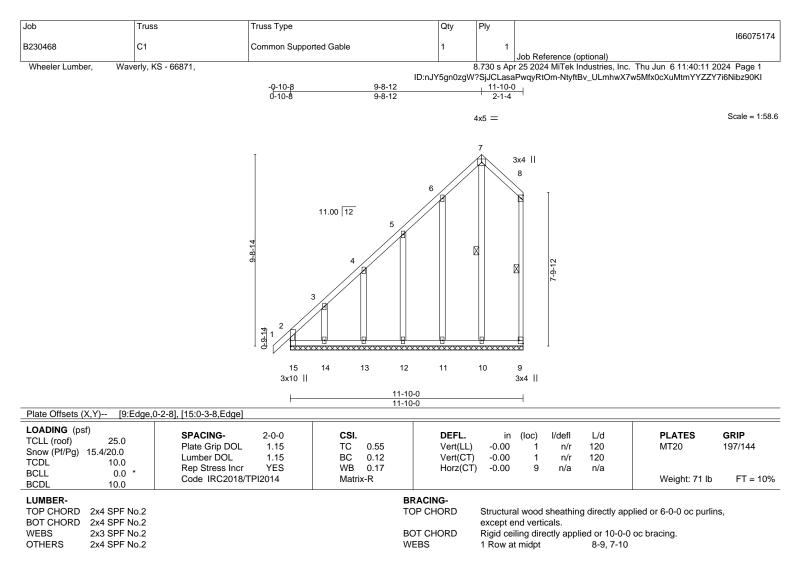
NOTES-

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=318.8=649.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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REACTIONS. All bearings 11-10-0

Max Horz 15=364(LC 7) (lb) -

> Max Uplift All uplift 100 lb or less at joint(s) 9, 11, 13 except 15=-183(LC 6), 10=-117(LC 9), 12=-113(LC 10), 14 = -220(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 9, 10, 11, 12, 13, 14 except 15=353(LC 7)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-15=-284/159, 2-3=-396/279, 3-4=-295/215, 4-5=-267/194

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

6) All plates are 2x4 MT20 unless otherwise indicated.

7) Gable requires continuous bottom chord bearing.

8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

9) Gable studs spaced at 2-0-0 oc.

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

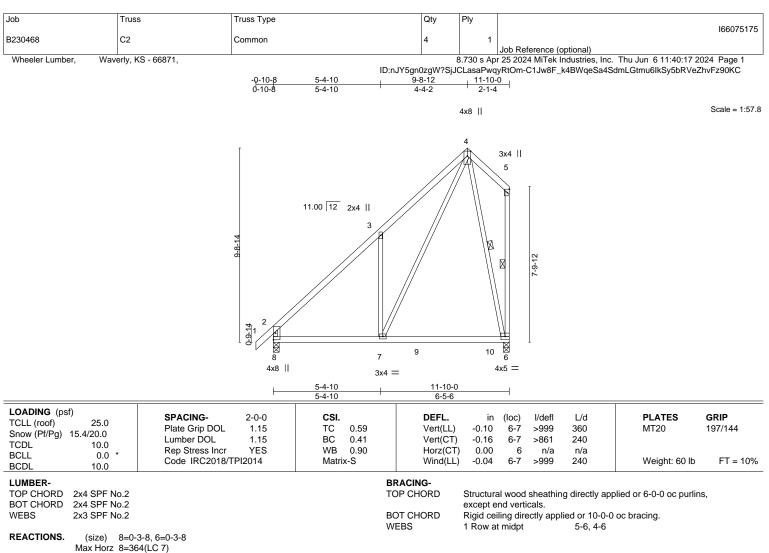
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 11) will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11, 13 except (it=lb) 15=183, 10=117, 12=113, 14=220.
- 13) 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.



June 7,2024



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



Max Uplift 8=-43(LC 10), 6=-139(LC 10)

Max Grav 8=649(LC 23), 6=676(LC 22)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-668/24, 3-4=-599/304, 2-8=-567/85

BOT CHORD 7-8=-161/459

WEBS 3-7=-404/364, 4-7=-342/735, 4-6=-572/218

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

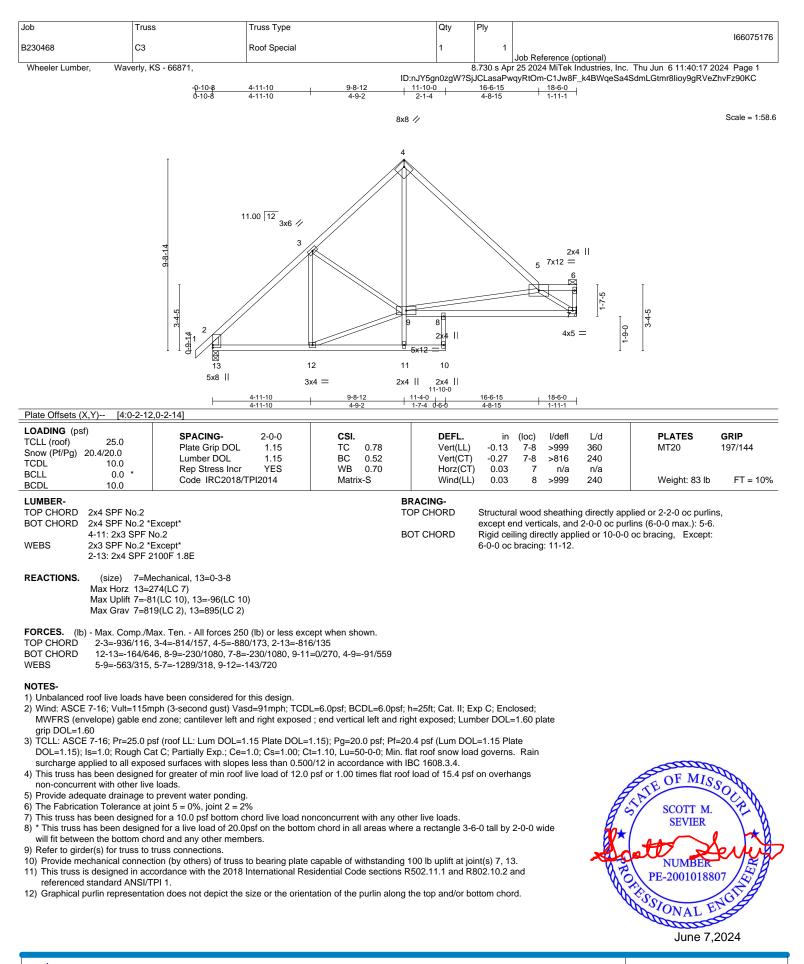
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb)
- 6=139 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



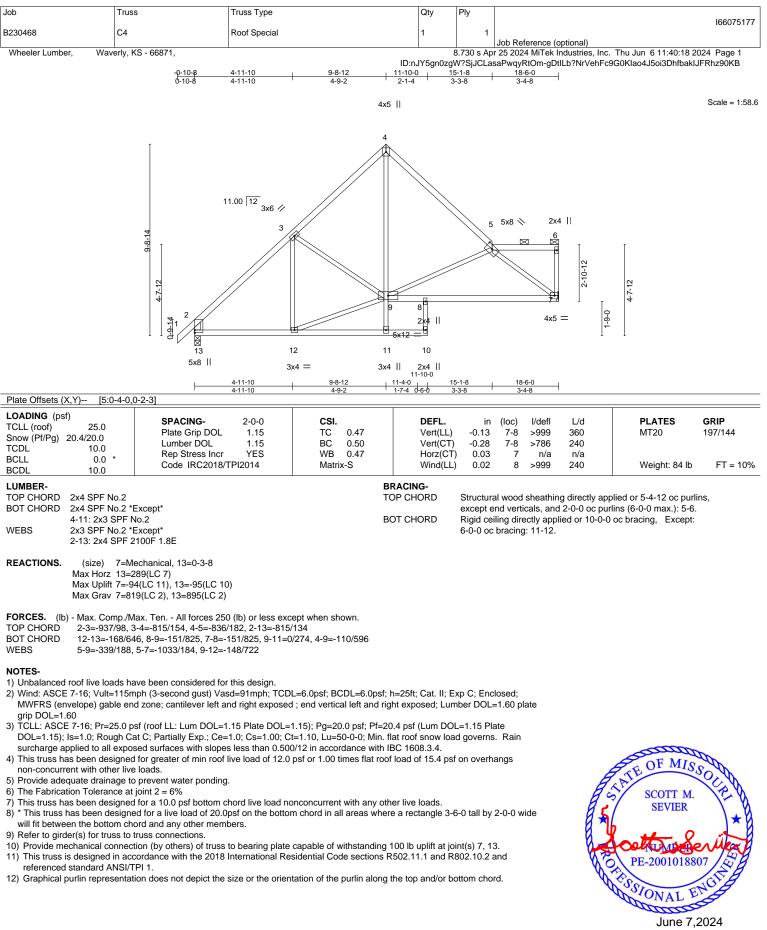
June 7,2024



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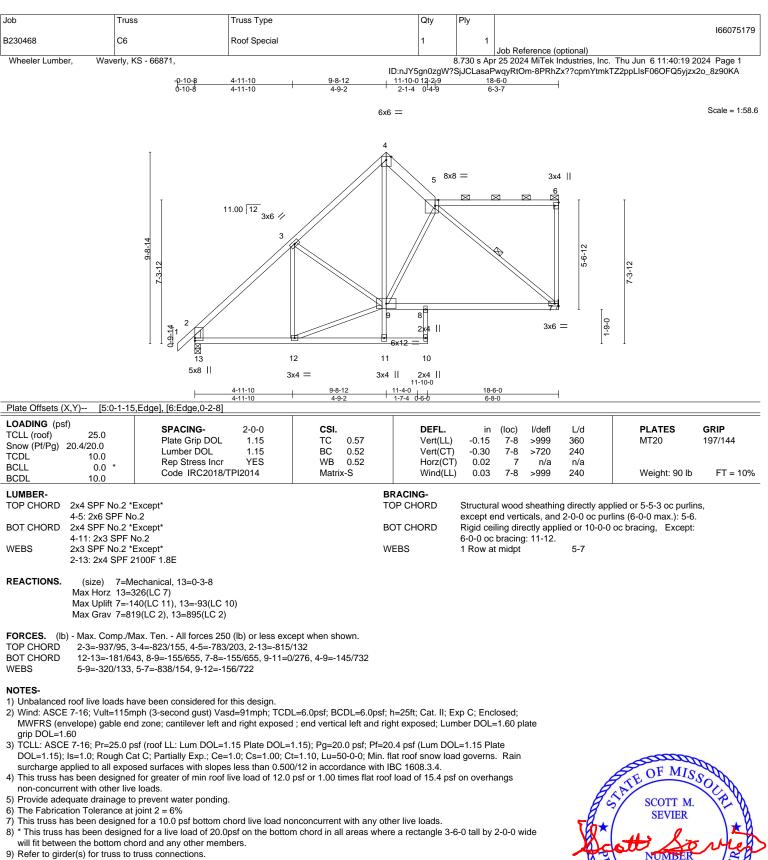
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Job	Truss	Truss Type		Qty	Ply		
B230468	C5	Roof Special		1	1		16607517
Wheeler Lumber,	Waverly, KS - 66871,			۹		ence (optional) ⁄liTek Industries, Inc, T	hu Jun 6 11:40:18 2024 Page 1
	•	4-11-10	9-8-12		V?SjJCLasaPwqyRtC		0Klao4J5ti2FhZXaklJFRhz90KB
	- <u>0-10-8</u> 0-10-8	4-11-10	4-9-2	2-1-4 1-10-1	4-9-15	———————————————————————————————————————	
			4x5	=			Scale = 1:58
			4				
					5 8x8 =	2x4	
		11.00 12 3x6 🥢			5		
		3		Ì			I
	9-8-14 41	/>			_//		
						4-2-12	
	5-11-12						5-11-12
	h						2
	± 2		9	5x8 =8		3x6 =	
	+F-6-0			2x4		- 0,0 -	
	13		12 11	10			
	5x8	II 3	x4 = 2x4	2x4			
	F	<u>4-11-10</u> 4-11-10	9-8-12 1	11-10-0 1-4-0 13-8-1 1-7-4 0-6-0 1-10-1	18-6-0		
Plate Offsets (X,Y)	[5:0-1-15,Edge], [9:0-3-0,0		+52	174 000 1101	4010		
LOADING (psf) TCLL (roof)	25.0 SPACING		CSI.	DEFL.		/defl L/d	PLATES GRIP
Snow (Pf/Pg) 20.4	20.0 Plate Grip		TC 0.46 BC 0.57	Vert(LL) Vert(CT)		9999 360 612 240	MT20 197/144
TCDL BCLL	Rep Stres	s Incr YES	WB 0.85	Horz(CT)	0.02 7	n/a n/a	
BCDL	10.0 Code IRC	2018/TPI2014	Matrix-S	Wind(LL)	0.02 11-12 >	999 240	Weight: 85 lb FT = 109
LUMBER- TOP CHORD 2x4	SPF No.2			ACING-	Structural wood sh	eathing directly applie	ed or 5-5-5 oc purlins.
BOT CHORD 2x4	SPF No.2		DC		except end vertica	ls, and 2-0-0 oc purlin	s (6-0-0 max.): 5-6.
	3 SPF No.2 *Except* 3: 2x4 SPF 2100F 1.8E		ВС	T CHORD	Rigia celling alrect	ly applied or 10-0-0 or	; bracing.
REACTIONS.	(size) 7=Mechanical, 13=0-3	3-8					
Ma	ax Horz 13=307(LC 7)						
	ax Uplift 7=-114(LC 11), 13=-9 ax Grav 7=819(LC 2), 13=895						
FORCES. (lb) - M	lax. Comp./Max. Ten All ford	es 250 (lb) or less exc	ept when shown.				
TOP CHORD 2	-3=-935/99, 3-4=-803/156, 4-5	=-797/199, 2-13=-813					
	2-13=-173/644, 8-9=-144/712, -9=-283/141, 5-7=-905/160, 9-		43, 9-12=-190/672				
NOTES-							
1) Unbalanced root	f live loads have been conside						
	6; Vult=115mph (3-second gu pe) gable end zone; cantileve					e	
	6; Pr=25.0 psf (roof LL: Lum I) OI =1 15 Plate DOI =	1 15): Pa=20.0 psf: Pf=20	4 psf (Lum DOI	=1 15 Plate		
grip DOL=1.60		o.; Ce=1.0; Cs=1.00; C	t=1.10, Lu=50-0-0; Min. fla	at roof snow load			
3) TCLL: ASCE 7-1 DOL=1.15); Is=1	.0; Rough Cat C; Partially Exp				on overhangs		APPE
3) TCLL: ASCE 7-1 DOL=1.15); Is=1 surcharge applie			psi or 1.00 times hat roof				
 3) TCLL: ASCE 7-' DOL=1.15); Is=1 surcharge applie 4) This truss has be non-concurrent 	.0; Rough Cat C; Partially Exp ed to all exposed surfaces with een designed for greater of mi with other live loads.	n roof live load of 12.0	psi or 1.00 times hat roof			6	OF MISC
 TCLL: ASCE 7-' DOL=1.15); Is=1 surcharge applie This truss has be non-concurrent Provide adequat The Fabrication 	.0; Rough Cat C; Partially Exp ed to all exposed surfaces with een designed for greater of mi with other live loads. e drainage to prevent water p Tolerance at joint 2 = 6%	n roof live load of 12.0 onding.				E.	TE OF MISSOL
 TCLL: ASCE 7-' DOL=1.15); Is=1 surcharge applie This truss has b non-concurrent Provide adequat The Fabrication This truss has b 	.0; Rough Cat C; Partially Exp ed to all exposed surfaces with een designed for greater of mi with other live loads. e drainage to prevent water p	n roof live load of 12.0 onding. ttom chord live load no	onconcurrent with any othe		5-0 tall by 2-0-0 wide		SCOTT M.
 TCLL: ASCE 7-7 DOL=1.15); Is=1 surcharge applie This truss has b non-concurrent 1 Provide adequat The Fabrication This truss has b * This truss has b * This truss has will fit between t 	.0; Rough Cat C; Partially Exp ad to all exposed surfaces with een designed for greater of mi with other live loads. the drainage to prevent water por Tolerance at joint $2 = 6\%$ een designed for a 10.0 psf bo been designed for a live load on the bottom chord and any othe	n roof live load of 12.0 onding. ttom chord live load no of 20.0psf on the botto r members.	onconcurrent with any othe		s-0 tall by 2-0-0 wide		ALL CLU
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 TCLL: ASCE 7-7 DOL=1.15); Is=1 surcharge applie This truss has be non-concurrent 1 Provide adequat The Fabrication This truss has be The Fabrication The Fabrication The Fabrication This truss has be 	.0; Rough Cat C; Partially Exp ad to all exposed surfaces with een designed for greater of mi with other live loads. e drainage to prevent water pr Tolerance at joint $2 = 6\%$ een designed for a 10.0 psf bc been designed for a live load of he bottom chord and any othe) for truss to truss connections nical connection (by others) of signed in accordance with the hdard ANSI/TPI 1.	n roof live load of 12.0 onding. ttom chord live load no of 20.0psf on the botto r members. t truss to bearing plate 2018 International Re	onconcurrent with any othe m chord in all areas where capable of withstanding 1 sidential Code sections R	a rectangle 3-6 00 lb uplift at joi 502.11.1 and R8	nt(s) 13 except (jt=l 302.10.2 and	, lot	SCOTT M. SEVIER
 TCLL: ASCE 7-7 DOL=1.15); Is=1 surcharge applie This truss has be non-concurrent vi Provide adequat The Fabrication This truss has be * This truss has be * This truss has be Refer to girder(s Provide mecha 7=114. This truss is de referenced stat 	.0; Rough Cat C; Partially Exp ad to all exposed surfaces with een designed for greater of mi with other live loads. e drainage to prevent water por Tolerance at joint $2 = 6\%$ een designed for a 10.0 psf bo been designed for a live load of he bottom chord and any othe) for truss to truss connections nical connection (by others) of signed in accordance with the	n roof live load of 12.0 onding. ttom chord live load no of 20.0psf on the botto r members. t truss to bearing plate 2018 International Re	onconcurrent with any othe m chord in all areas where capable of withstanding 1 sidential Code sections R	a rectangle 3-6 00 lb uplift at joi 502.11.1 and R8	nt(s) 13 except (jt=l 302.10.2 and	, lot	SCOTT M. SEVIER NUMBER PE-2001018807
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16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7 = 140

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

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

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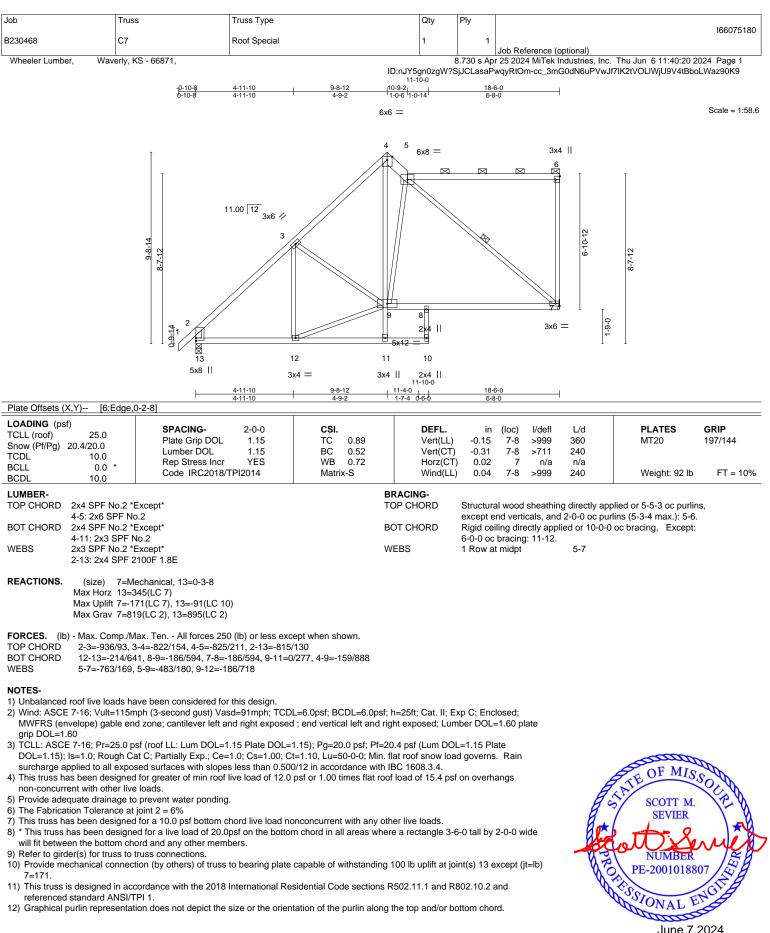
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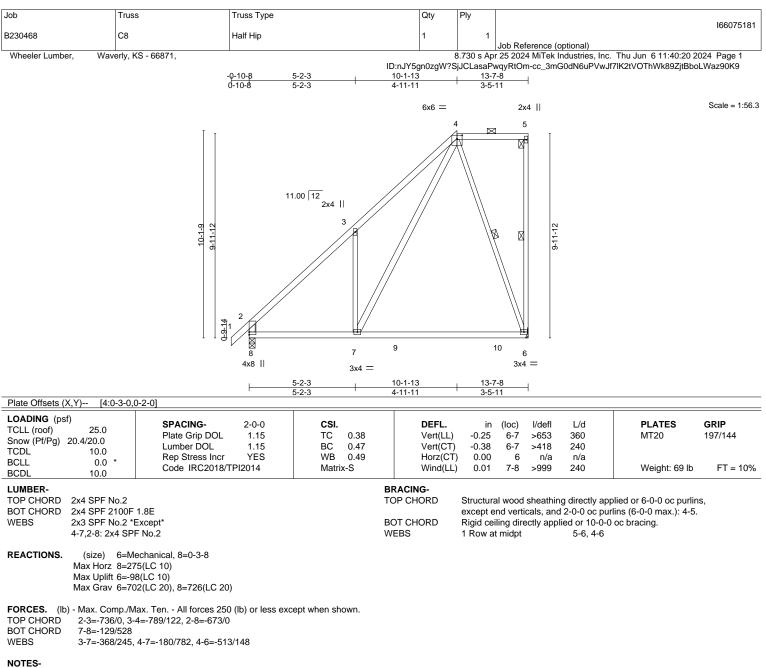


11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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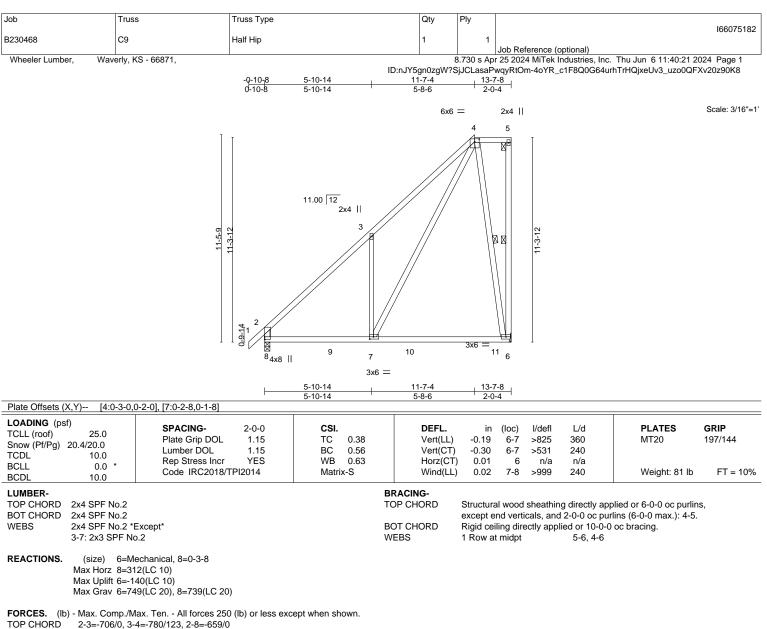
1) Unbalanced roof live loads have been considered for this design.

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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- TOP CHORD BOT CHORD 7-8=-136/512
- WEBS 3-7=-443/279, 4-7=-228/880, 4-6=-603/200

NOTES

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

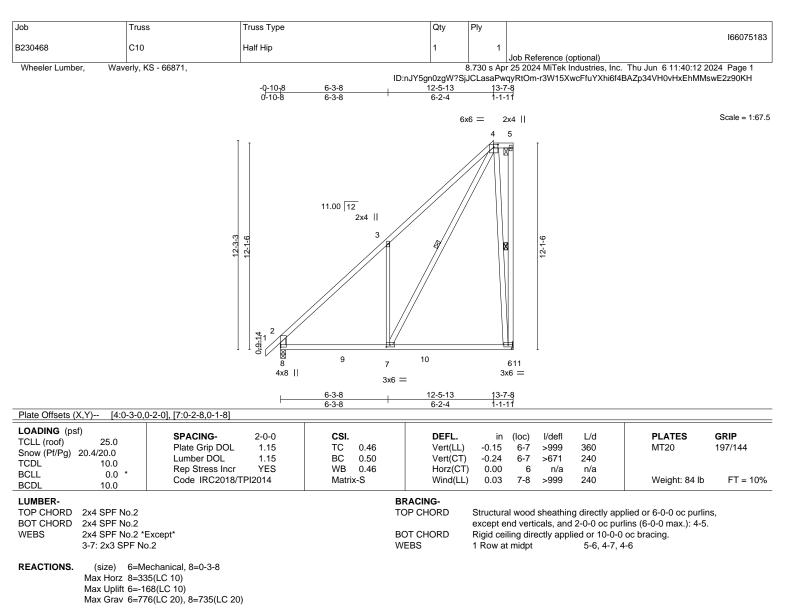
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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 3-6-0 tall by 2-0-0 wide 7) will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=140
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-3=-699/0, 3-4=-771/119, 2-8=-645/0
- BOT CHORD 7-8=-138/498
- WEBS 3-7=-489/299, 4-7=-255/936, 4-6=-700/253

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=168.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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



<u>11-0-6</u> 4-2-3 13-7-8 2-7-2 5-7-9 2-11-9 6-10-3 1-2-10 -0-10-8 0-10-8 6x6 = 3x4 || 5 6 11.00 12 2x4 || 10-11-3 10-9-6 10-9-6 0<u>-9-1</u>4 0-0-1 10 4x5 4x5 2x4 || 11 Ш 3x6 =13 8 3x8 MT18HS || 2x4 || 2x4 || 2x4 ||

9-6-0

Scale = 1:66.9

2-8-0 5-7-9 11-0-6 11 ₁ 3-8 13-7-8 2-8-0 2-11-9 5-4-13 0-3-2 2-4-0 Plate Offsets (X,Y) [3:0-0-1,0-0-1], [5:0-3-0,0-2-0], [11:0-2-8,0-1-8] 5-4-13 0-3-2 2-4-0								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.43 BC 0.52 WB 0.91	DEFL. in (loc) l/defl L/d Vert(LL) -0.10 10-11 >999 360 Vert(CT) -0.20 10-11 >807 240 Horz(CT) -0.14 7 n/a n/a	PLATES GRIP MT20 197/144 MT18HS 197/144				
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.14 12 >999 240	Weight: 78 lb FT = 10%				

LUMBER-BRACING-2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6. WEBS 2x3 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 6-7,5-11: 2x4 SPF No.2 WEBS 1 Row at midpt 6-7, 5-9

REACTIONS. (size) 7=Mechanical, 14=0-3-8 Max Horz 14=432(LC 7) Max Uplift 7=-197(LC 7), 14=-45(LC 10) Max Grav 7=599(LC 2), 14=673(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-3=-575/145, 3-4=-730/66, 4-5=-812/375, 7-9=-573/198, 2-14=-670/96
- BOT CHORD 3-12=-249/594, 11-12=-249/594
- WEBS 5-11=-425/838, 4-11=-504/393, 5-9=-532/245

NOTES-

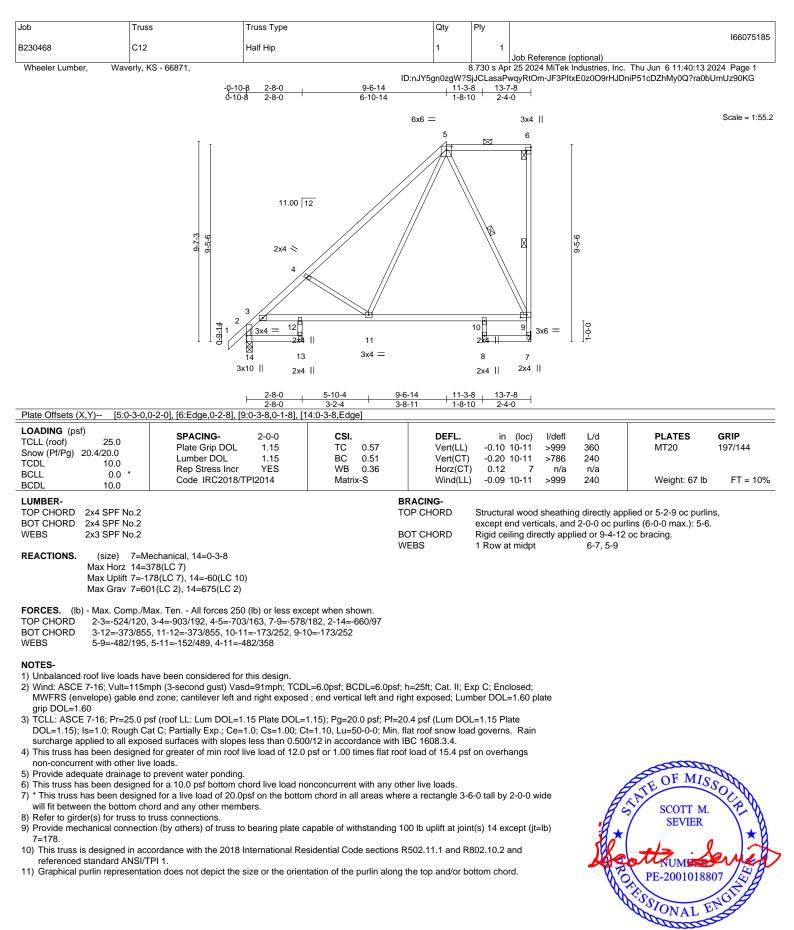
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 7=197.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 7,2024



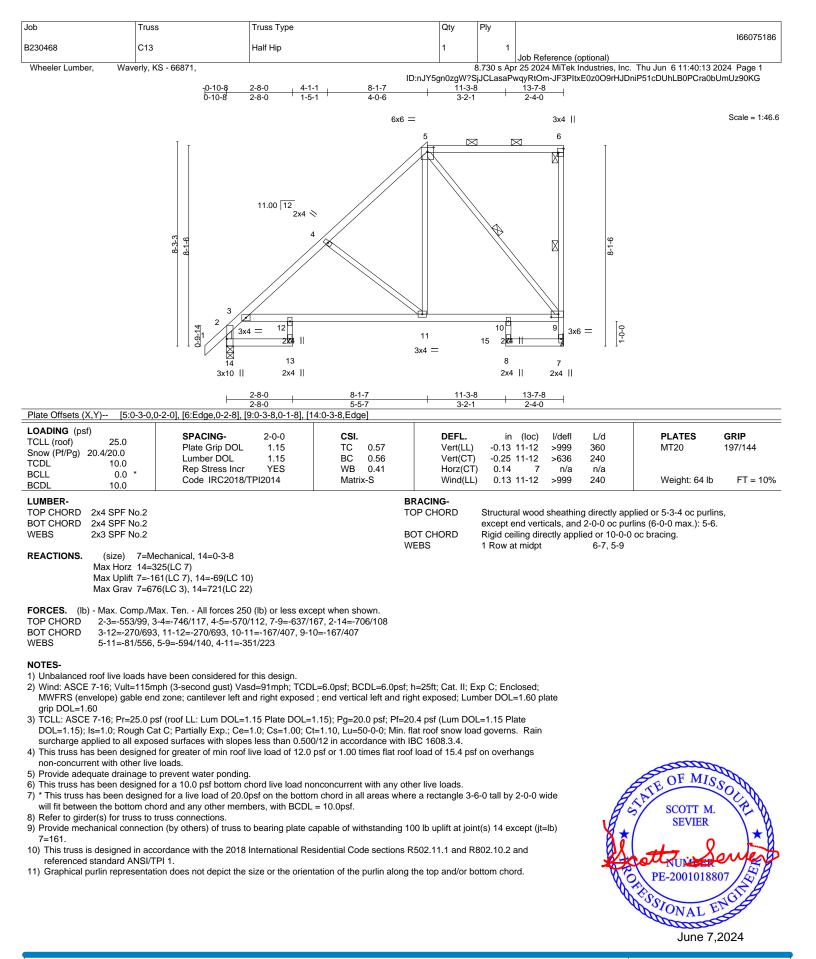
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



June 7,2024



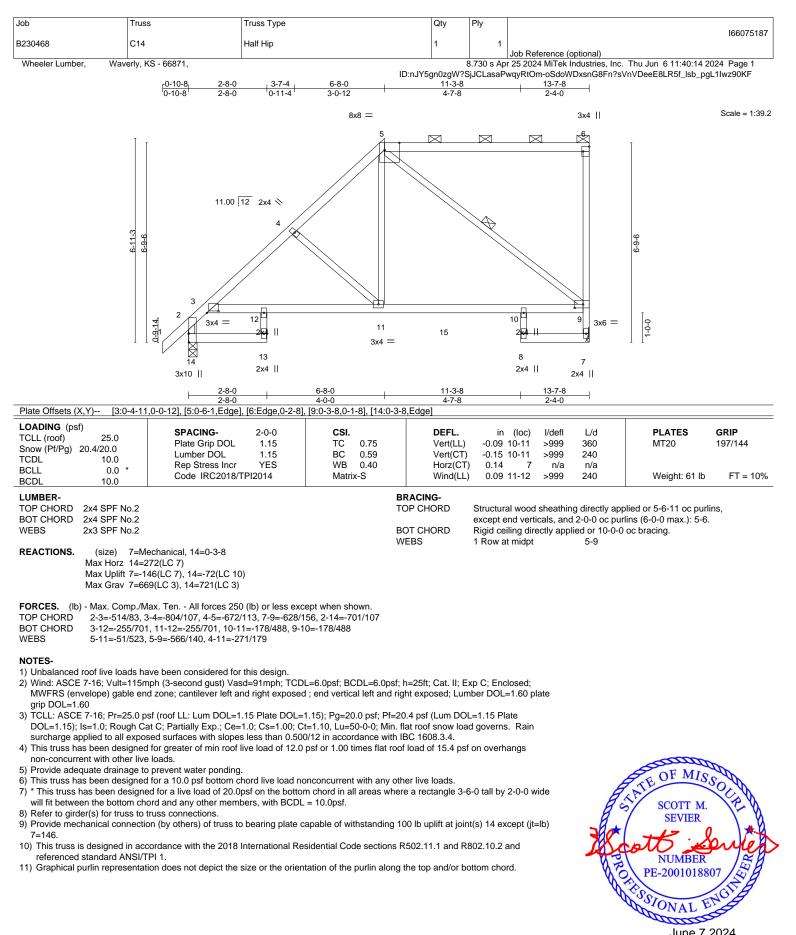
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANS/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





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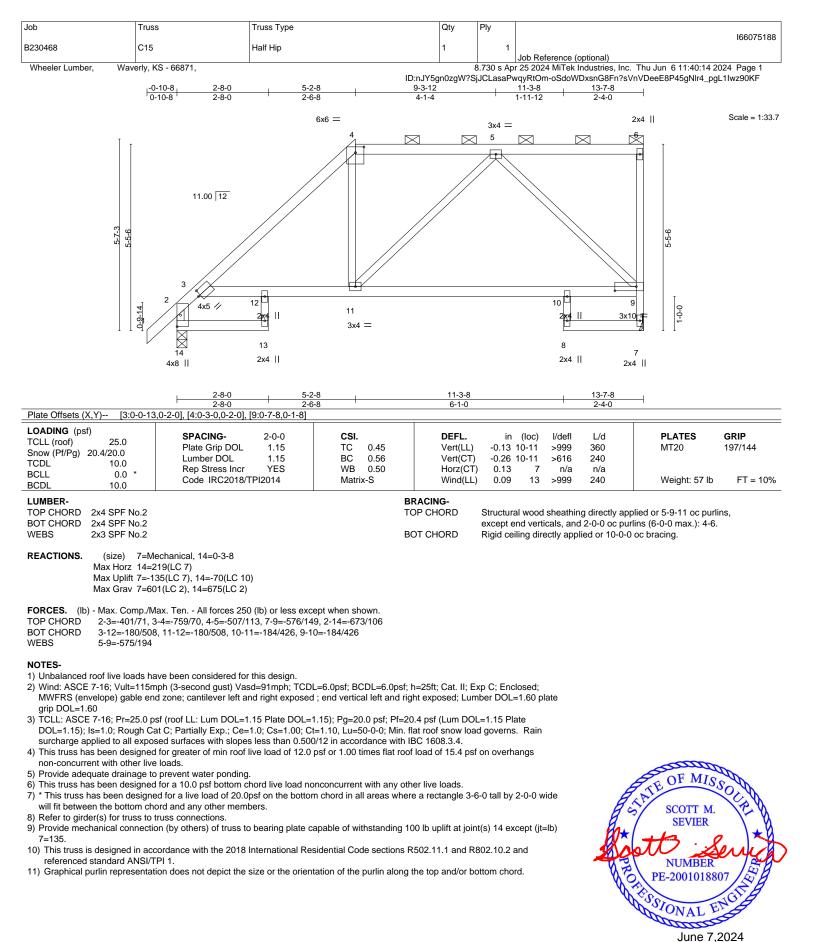
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June 7,2024



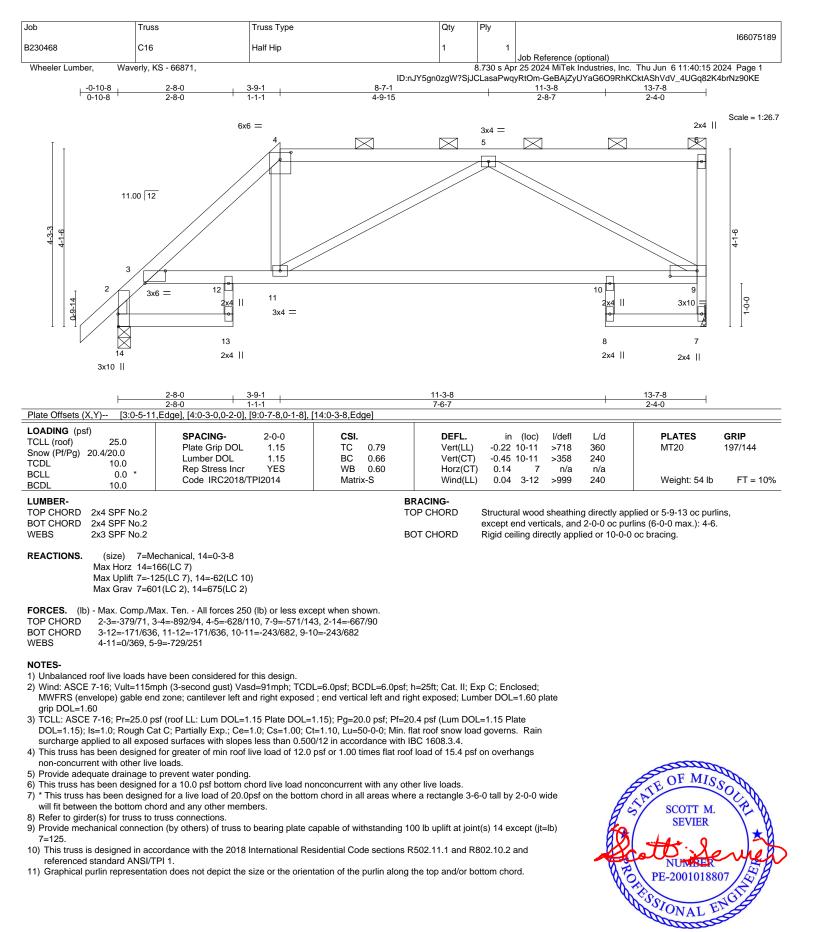
🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component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





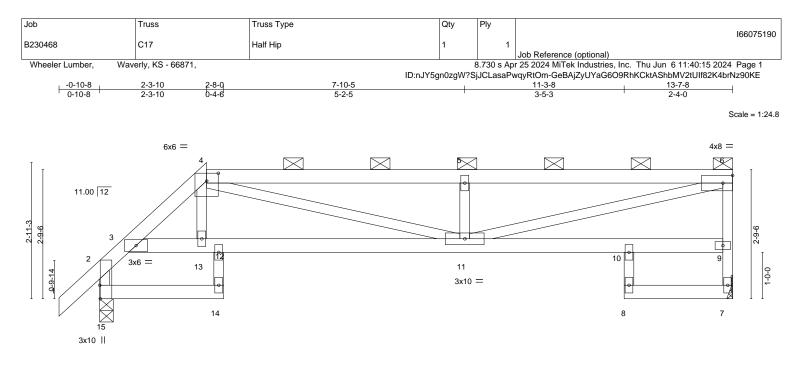
Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

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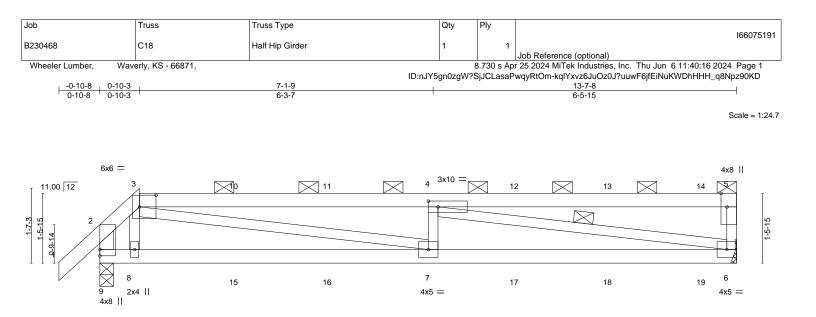


2-3-		<u>7-10-5</u> 5-2-5		<u>11-3-</u> 3-5-;		<u>13-7-8</u> 2-4-0			
Plate Offsets (X,Y) [4:0-3-0,	0-2-0], [15:0-3-8,Edge]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.42 BC 0.42 WB 0.48 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.08 11-12 -0.14 11-12 0.08 7	l/defl L/d >999 360 >999 240 n/a n/a >999 240	MT20	GRIP 197/144 FT = 10%		
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2	echanical, 15=0-3-8	то	RACING- DP CHORD DT CHORD	except end vertic	als, and 2-0-0	tly applied or 5-4-6 oc purl oc purlins (4-4-5 max.): 4-1 10-0-0 oc bracing.			
Max Horz 15=1 Max Uplift 7=-1 Max Grav 7=60	113(LC 7) 19(LC 7), 15=-73(LC 7) 01(LC 2), 15=675(LC 2)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-374/76, 3-4=-1047/196, 4-5=-1449/290, 5-6=-1447/289, 7-9=-573/132, 6-9=-533/144, 2-15=-660/104 BOT CHORD 3-13=-224/807, 12-13=-224/793, 11-12=-224/793 WEBS 4-11=-187/708, 6-11=-291/1392, 4-13=0/270, 5-11=-445/187									
 2) Wind: ASCE 7-16; Vult=115n MWFRS (envelope) gable en grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=25.0 p DOL=1.15; Is=1.0; Rough Ci surcharge applied to all expo 4) This truss has been designed non-concurrent with other live 5) Provide adequate drainage to 6) All plates are 2x4 MT20 unles 7) This truss has been designed will fit between the bottom ch 9) Refer to girder(s) for truss to 10) Provide mechanical connec 7=119. 11) This truss is designed in acc referenced standard ANSI/T 	o prevent water ponding. ss otherwise indicated. I for a 10.0 psf bottom chord live load n ed for a live load of 20.0psf on the botto ord and any other members. truss connections. tion (by others) of truss to bearing plate cordance with the 2018 International Re	d ; end vertical left and rig (1.15); Pg=20.0 psf; Pf=20 (t=1.10, Lu=50-0-0; Min. fl 0/12 in accordance with II psf or 1.00 times flat roof onconcurrent with any oth m chord in all areas when capable of withstanding t esidential Code sections R	ht exposed; Lum 0.4 psf (Lum DOL lat roof snow loar BC 1608.3.4. Fload of 15.4 psf er live loads. e a rectangle 3-6 100 lb uplift at joi 2502.11.1 and Rf	ber DOL=1.60 pla =1.15 Plate d governs. Rain on overhangs 6-0 tall by 2-0-0 wid nt(s) 15 except (jt= 302.10.2 and	de	STATE OF MIL SCOTT M SEVIER PE-2001018 PE-2001018	ENGT STATES		

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June 7,2024

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)



• •	0-3	5-1	-12 1-9		7-1-9 0-3-13				-7-8 5-15		
Plate Offsets (X,Y) LOADING (psf) TCLL (roof) 25 Snow (Pf/Pg) 20.4/20. TCDL 10	0 SPAC	CING- 2-0 9 Grip DOL 1. ⁻ ber DOL 1. ⁻	-0 C 15 T	SI. C 0.66 C 0.65	DEFL. Vert(LL) Vert(CT		(loc) 7 7	l/defl >999 >686	L/d 360 240	PLATES MT20	GRIP 197/144
	0.0 * Rep S	Stress Incr N e IRC2018/TPI201		VB 0.71 1atrix-S	Horz(C1 Wind(LL		6 7	n/a >999	n/a 240	Weight: 46 lb	FT = 10%
					BRACING- TOP CHORD BOT CHORD WEBS	except e	nd verti iling dire	cals, and	2-0-0 oc p	applied or 6-0-0 oc purlir ourlins (3-6-15 max.): 3-8 8 oc bracing.	
Max H Max U	e) 6=Mechanical, 9: lorz 9=63(LC 46) lplift 6=-129(LC 7), 9= trav 6=599(LC 30), 9:	=-138(LC 7)									
BOT CHORD 8-9=-	Comp./Max. Ten A 636/104, 3-4=-1830/3 ·119/457, 7-8=-129/45 ·288/1422, 4-6=-1709	380, 2-9=-529/57 59, 6-7=-394/1830	less except whe	n shown.							
grip DOL=1.60 3) TCLL: ASCE 7-16; F DOL=1.15); Is=1.0; surcharge applied to 4) This truss has been non-concurrent with 5) Provide adequate dh 6) This truss has beee will fit between the b 8) Refer to girder(s) for 9) Provide mechanical 6=129, 9=138. 10) This truss is design referenced standar 11) Graphical purlin re 12) Hanger(s) or other 0-10-3, 63 lb down 34 lb up at 8-11-4, and 17 lb up at 0-10-100000000000000000000000000000000	/ult=115mph (3-secor gable end zone; cant Pr=25.0 psf (roof LL: L Rough Cat C; Partially o all exposed surfaces designed for greater other live loads. rainage to prevent wa designed for a 10.0 p n designed for a live I pottom chord and any r truss to truss connect connection (by others and in accordance with d ANSI/TPI 1.	nd gust) Vasd=91m tilever left and right Lum DOL=1.15 Pla by Exp.; Ce=1.0; Cs s with slopes less ti of min roof live loa ater ponding. osf bottom chord liv load of 20.0psf on 1 other members. ctions. s) of truss to bearin th the 2018 Interna t depict the size or 0 shall be provided 1-4, 63 lb down and 34 lb up at 10-11- 11-4, 3 lb down at	pp; TCDL=6.0ps exposed ; end vo te DOL=1.15); Pc =1.00; Ct=1.10, [han 0.500/12 in a d of 12.0 psf or 1. e load nonconcuu the bottom chord ng plate capable of tional Residential the orientation of sufficient to supp I 34 lb up at 4-11 4, and 55 lb dowr 4-11-4, 3 lb dowr	ertical left a g=20.0 psf; .u=50-0-0; I ccordance e 00 times fla rrent with an in all areas of withstand Code secti the purlin a ort concenti -4, 63 lb do a and 34 lb a at 6-11-4,	nd right exposed; Lur Pf=20.4 psf (Lurn DC Win. flat roof snow loa with IBC 1608.3.4. t roof load of 15.4 ps ny other live loads. where a rectangle 3- ing 100 lb uplift at joi ons R502.11.1 and R long the top and/or to ated load(s) 98 lb do wn and 34 lb up at 6 up at 12-11-4 on top 3 lb down at 8-11-4	nber DOL= iL=1.15 Pla ad governs f on overhi 6-0 tall by ht(s) excep 802.10.2 a ottom choi wn and 11 -11-4, 63 l chord, ann , and 3 lb c	=1.60 pl ate . Rain angs 2-0-0 w ot (jt=lb) and rd. 5 lb up a b down d 12 lb c down at	ide at and down		STATE OF MIS SCOTT M. SEVIER PE-20010188 PE-20010188 June 7,	Miles
Design valid for use o a truss system. Before building design. Braci is always required for fabrication, storage, d	design parameters and Rt nly with MiTek® connectors e use, the building designer ing indicated is to prevent b stability and to prevent coll elivery, erection and bracin, omponent Safety Informa	s. This design is based or r must verify the applical buckling of individual true lapse with possible person of trusses and truss s	only upon parameters bility of design parame ss web and/or chord n bonal injury and proper ystems, see ANSI/TP	shown, and is eters and proper members only. by damage. For II Quality Critical States of the second	for an individual building c rly incorporate this design Additional temporary and r general guidance regard eria, and DSB-22 availab	omponent, no into the overa permanent braing the le from Truss	it all acing	iitute (www.	tpinst.org)	16023 Swingley Chesterfield, MI 314.434.1200 / MIT	D 63017

Job	Truss	Truss Type	Qty	Ply	
					166075191
B230468	C18	Half Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		6	3.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:16 2024 Page 2

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-kqlYxvz6JuOz0J?uuwF6jfEiNuKWDhHHH_q8Npz90KD

NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

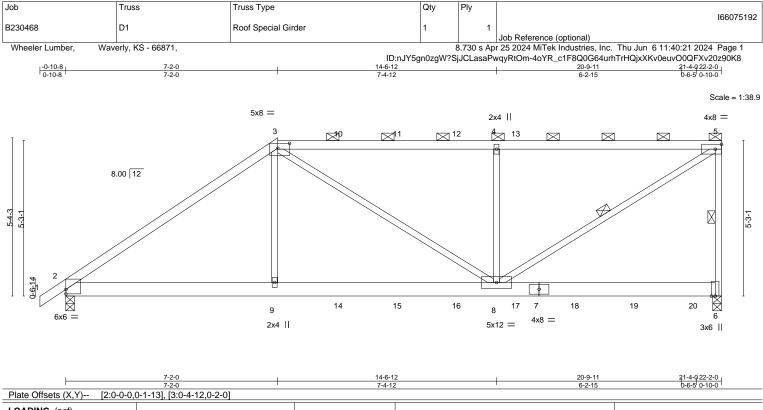
LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 3-5=-61, 6-9=-20

Concentrated Loads (lb) Vert: 3=27(F) 8=2(F)

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1 1010 0113013 (X	,1) [2.000,	0 1 10], [0.0 4 12,0 2 0]								
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 2 TCDL BCLL BCDL	25.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.77 BC 0.71 WB 0.85 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.24 0.03 0.18	(loc) 6-8 6-8 6 6-8	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 93 lb	GRIP 197/144 FT = 10%
BOT CHORD	Max Horz 2=20 Max Uplift 2=-6	-3-8, 6=0-3-8	Т	BOT CHORD	except e	nd vertie ling dire	cals, and		blied or 4-0-6 oc purlir lins (4-2-6 max.): 3-5. oc bracing.	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2442/1038, 3-4=-2027/963, 4-5=-2025/962, 5-6=-1507/711 BOT CHORD 2-9=-965/1886, 8-9=-962/1873 WEBS 3-9=-164/608, 3-8=-226/299, 4-8=-851/581, 5-8=-1178/2386										
 Wind: ASCE MWFRS (env grip DOL=1.6) TCLL: ASCE DOL=1.15); Is surcharge app This truss have non-concurred Provide adeq This truss have non-concurred Provide adeq This truss have vill fit betweed Bearing at join capacity of bed Provide meed Bearing at join capacity of bed Provide meed Provide meed Fast russ have referenced set Graphical pi Hanger(s) on 7-2-0, 134 III 135 Ib down 51 Ib down Ib up at 17- Contribuside for a part 	7-16; Vult=115r velope) gable er 30 7-16; Pr=25.0 p s=1.0; Rough C uplied to all expo s been designed to all expo s been designed to been desi	o prevent water ponding. d for a 10.0 psf bottom chord live load no ed for a live load of 20.0psf on the bottom ord and any other members. s parallel to grain value using ANSI/TPI ion (by others) of truss to bearing plate of cordance with the 2018 International Re TPI 1. tion does not depict the size or the orien ion device(s) shall be provided sufficient i bup at 9-2-12, 134 lb down and 145 lb at 15-2-12 on top chord, and 404 lb dow 11-2-12, 52 lb down and 25 lb up at 13 b down and 118 lb up at 19-2-12, and 1 nnection device(s) is the responsibility o	I; end vertical left and rig 1.15); Pg=20.0 psf; Pf=2 1.15); Pg=20.0 psf; Pf=2 1.10, Lu=50-0-0; Min. 1 y/12 in accordance with 1 psf or 1.00 times flat roc onconcurrent with any oth n chord in all areas whe 1 angle to grain formula. apable of withstanding 1 sidential Code sections I tation of the purlin along to support concentrated 0 up at 11-2-12, and 135 <i>in</i> and 261 lb up at 7-2-1-2-12, 52 lb down and 25 94 lb down and 162 lb up f others.	ght exposed; Lumb 20.4 psf (Lum DOL: flat roof snow load IBC 1608.3.4. of load of 15.4 psf of her live loads. re a rectangle 3-6- . Building designe 100 lb uplift at joint R502.11.1 and R8 1 the top and/or bot 1 load(s) 126 lb dow 5 lb down and 146 0, 51 lb down and 5 lb up at 15-2-12, p at 21-2-12 on bot	er DOL= =1.15 Pla governs on overha 0 tall by : r should 1 (s) excep 02.10.2 a tom chor vn and 1 lb up at 25 lb up .205 lb d ottom chor	1.60 pla ate . Rain angs 2-0-0 wi verify t (jt=lb) und d. 48 lb up 13-2-12 at 9-2-7 own an- ord. The	at 2, and 12, d 118	o a standard	NUMBER PE-20010188 June 7,	OT VILLE
Design valid a truss syster building desig	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									

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 DSE-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	
					166075192
B230468	D1	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,			3.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:21 2024 Page 2

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-4oYR_c1F8Q0G64urhTrHQjxXKv0euvO0QFXv20z90K8

NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

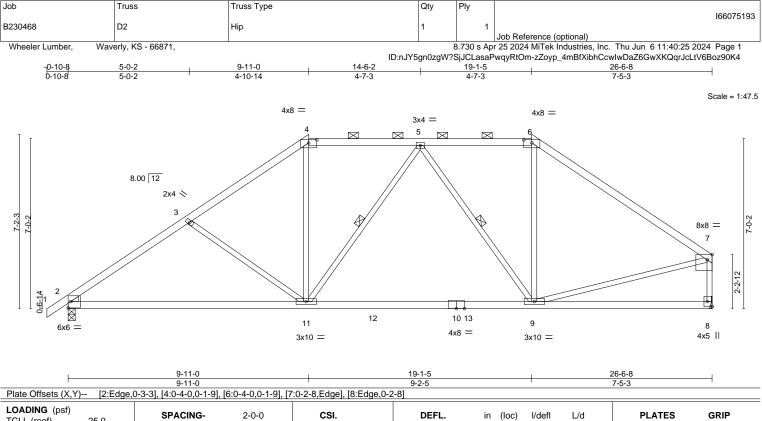
Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-61, 2-6=-20 Concentrated Loads (lb)

Vert: 3=-51(F) 9=-404(F) 10=-46(F) 11=-46(F) 12=-49(F) 13=-49(F) 14=-35(F) 15=-35(F) 16=-38(F) 17=-38(F) 18=-152(F) 19=-160(F) 20=-165(F)

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





TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.60 BC 0.98 WB 0.34 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.25 -0.44	9-11 2-11 8	I/defl >999 >718 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 102 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 * 6-7: 2x4 SPF 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 WEDGE Left: 2x3 SPF No.2		Т	RACING- OP CHORD OT CHORD /EBS	except en	d vertic ng direc	als, and		blied or 4-0-9 oc purlins lins (5-2-1 max.): 4-6. oc bracing.	š,
Max Horz 2=2 Max Uplift 2=-1	3-8, 8=Mechanical 10(LC 7) 38(LC 10), 8=-89(LC 11) 303(LC 3), 8=1247(LC 3)								
TOP CHORD 2-3=-1737/19 7-8=-1149/12 BOT CHORD 2-11=-213/14	1ax. Ten All forces 250 (lb) or less exc 4, 3-4=-1523/152, 4-5=-1195/173, 5-6=- 1 13, 9-11=-154/1215 0, 4-11=0/550, 5-9=-434/172, 6-9=-18/42	1033/156, 6-7=-1353/95,							
 Wind: ASCE 7-16; Vult=115n MWFRS (envelope) gable en grip DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 p DOL=1.15); Is=1.0; Rough C surcharge applied to all expo This truss has been designed non-concurrent with other live Provide adequate drainage to Provide adequate drainage to This truss has been designed This truss has been designed 	o prevent water ponding. d for a 10.0 psf bottom chord live load no ed for a live load of 20.0psf on the bottor ord and any other members, with BCDL	; end vertical left and rig 1.15); Pg=20.0 psf; Pf=2 =1.10, Lu=50-0-0; Min. f 0/12 in accordance with I psf or 1.00 times flat roo onconcurrent with any oth n chord in all areas when	ght exposed; Lum 0.4 psf (Lum DOL lat roof snow loac BC 1608.3.4. f load of 15.4 psf ner live loads.	ber DOL=1 =1.15 Plat d governs. on overhau	1.60 pla te Rain ngs		*	State OF MISS SCOTT M. SEVIER	CURL *

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=138.

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

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

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 **ANSUTPIT Quality Criteria, and DSE-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)



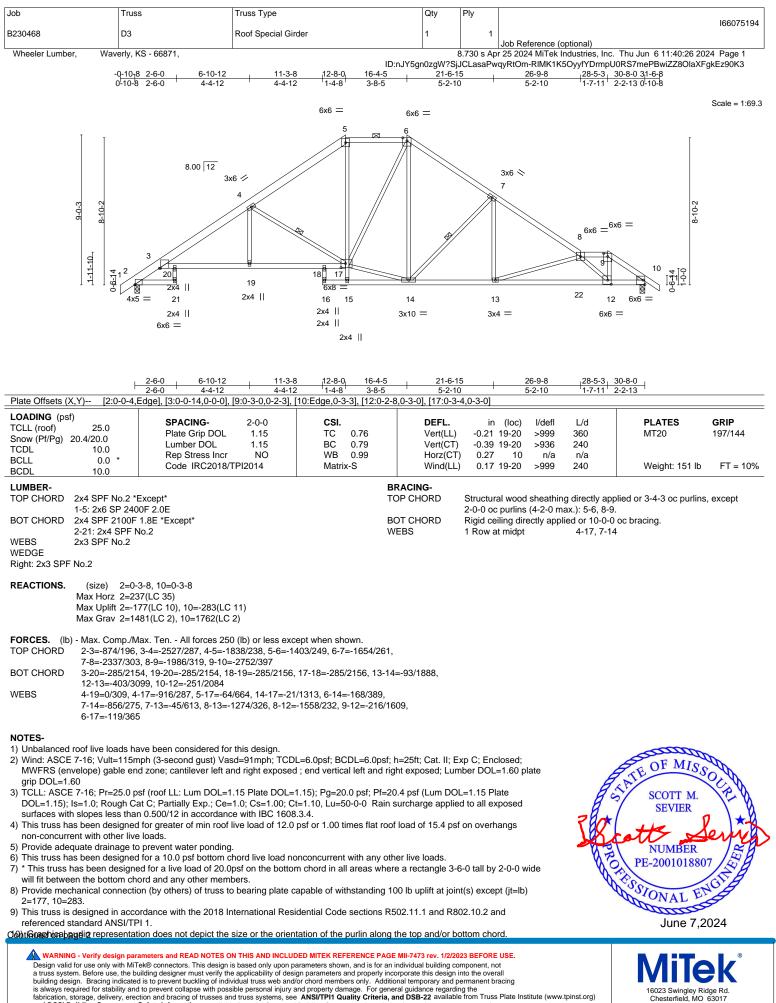
EZ

June 7,2024

PE-2001018807

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

Chesterfield MO 63017 314.434.1200 / MiTek-US.d

Job	Truss	Truss Type	Qty	Ply				
B230468	D3	Roof Special Girder	1	1	166075194			
5200100	20				Job Reference (optional)			
Wheeler Lumber,	Waverly, KS - 66871,			8.730 s Ap	or 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:26 2024 Page 2			
ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-RIMK1K5OyyfYDrmpU0RS7mePBwiZZ8OlaXFgkEz90K3								

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 288 lb down and 83 lb up at 26-7-4, and 78 lb down and 48 lb up at 28-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Uniform Loads (plf)

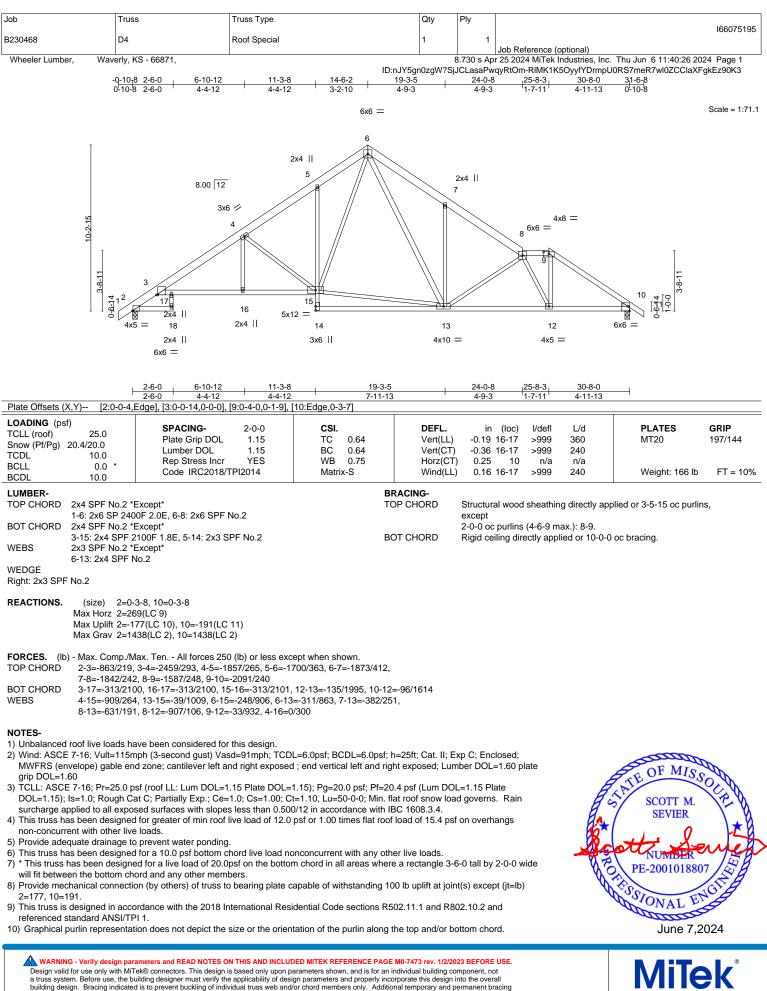
Vert: 1-5=-51, 5-6=-61, 6-8=-51, 8-9=-61, 9-11=-51, 2-21=-20, 18-20=-20, 10-16=-20

Concentrated Loads (lb)

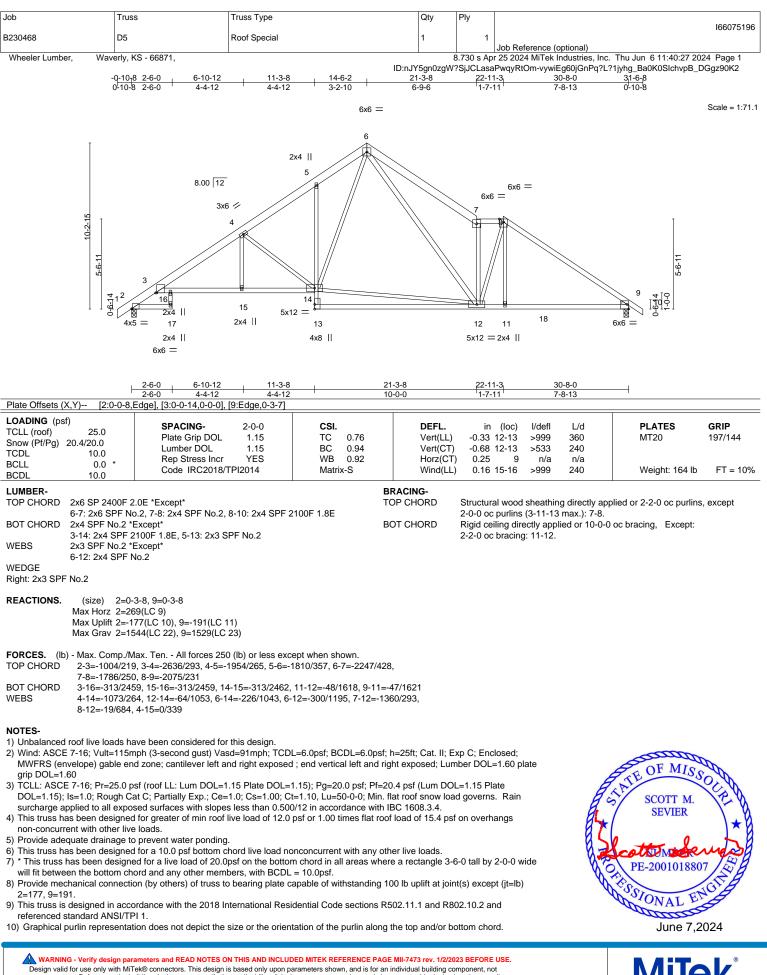
Vert: 12=-59(F) 22=-242(F)

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

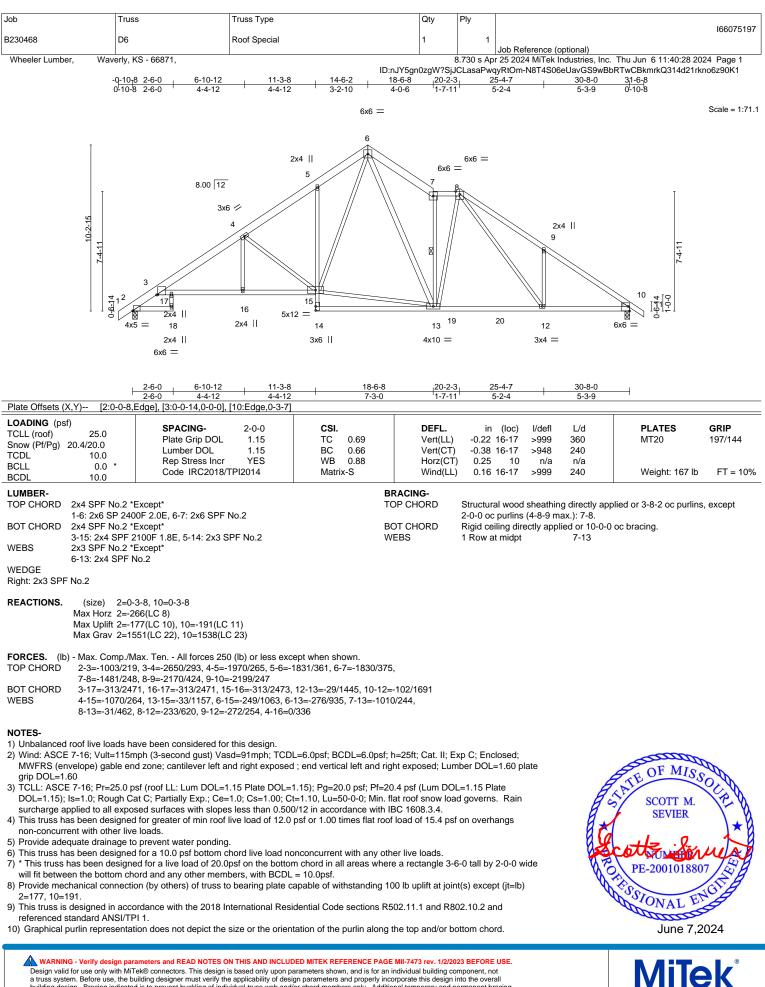




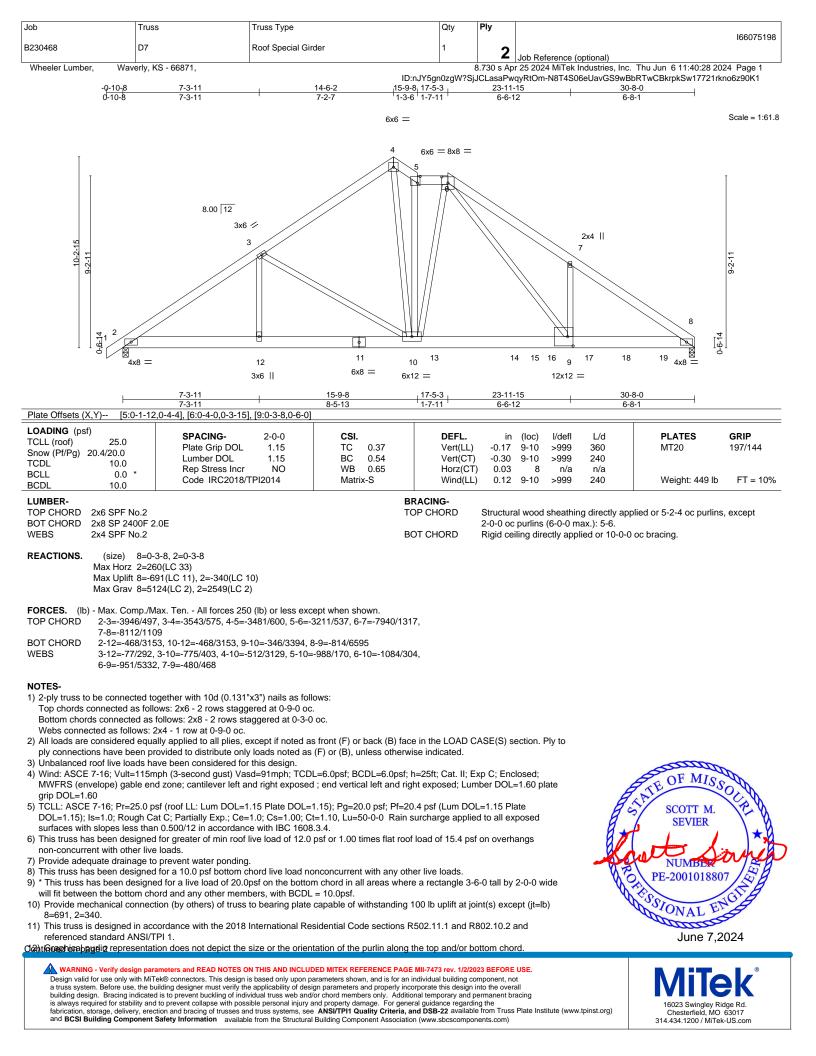
a trust system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see **ANSI/TPI Quality** Criteria, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



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



Job	Truss	Truss Type	Qty	Ply	
					166075198
B230468	D7	Roof Special Girder	1	2	
				∠	Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,			8.730 s Ap	or 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:28 2024 Page 2
			ID:nJY5gn0zgW?S	jJCLasaPw	vgyRtOm-N8T4S06eUavGS9wBbRTwCBkrpkSw17721rkno6z90K1

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2918 lb down and 464 lb up at 22-0-7, 490 lb down and 65 lb up at 22-11-4, 487 lb down and 65 lb up at 24-11-4, and 487 lb down and 65 lb up at 26-11-4, and 487 lb down and 65 lb up at 28-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

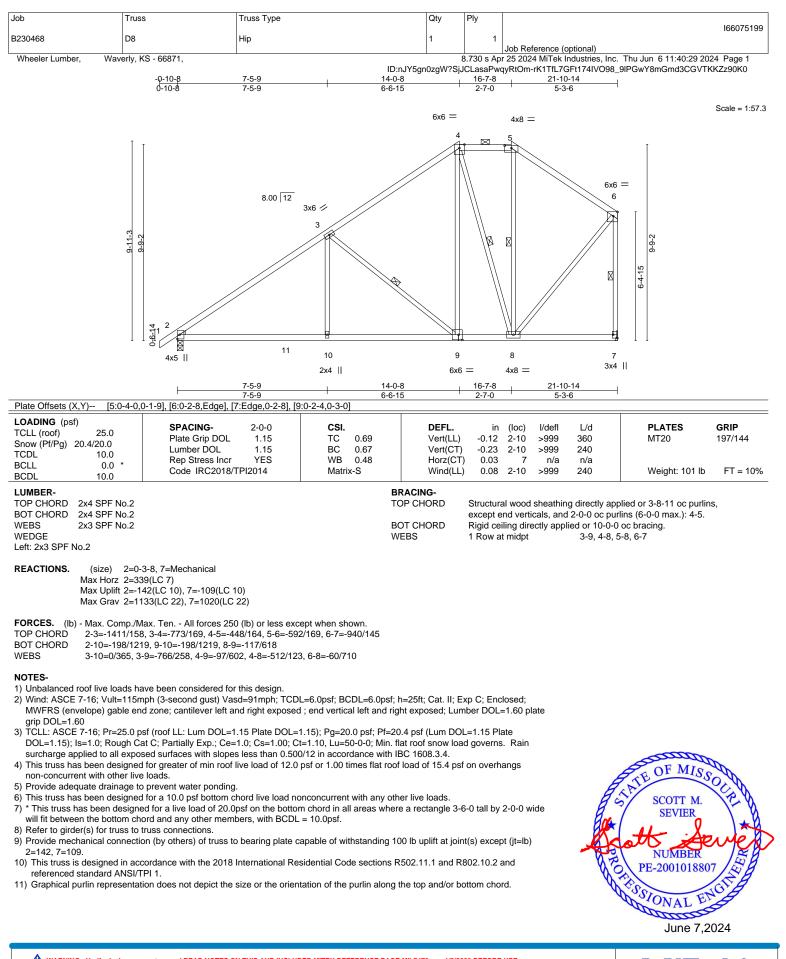
Uniform Loads (plf) Vert: 1-4=-51, 4-5=-51, 5-6=-61, 6-8=-51, 2-8=-20

Concentrated Loads (lb)

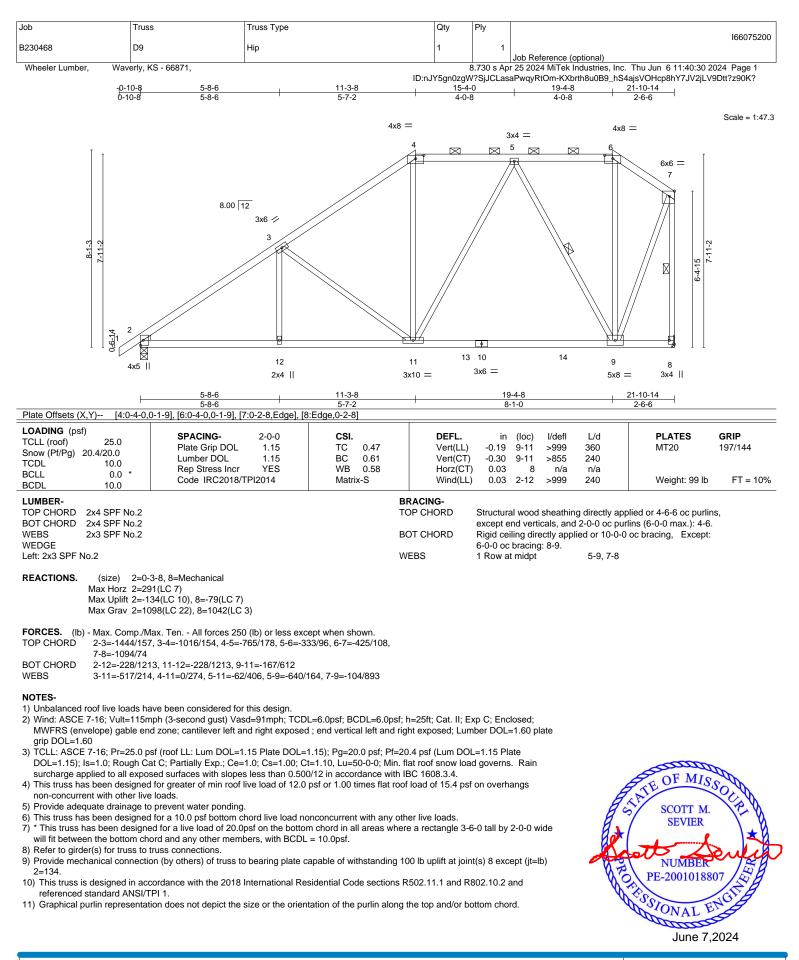
Vert: 15=-2432(B) 16=-382(B) 17=-379(B) 18=-379(B) 19=-379(B)

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



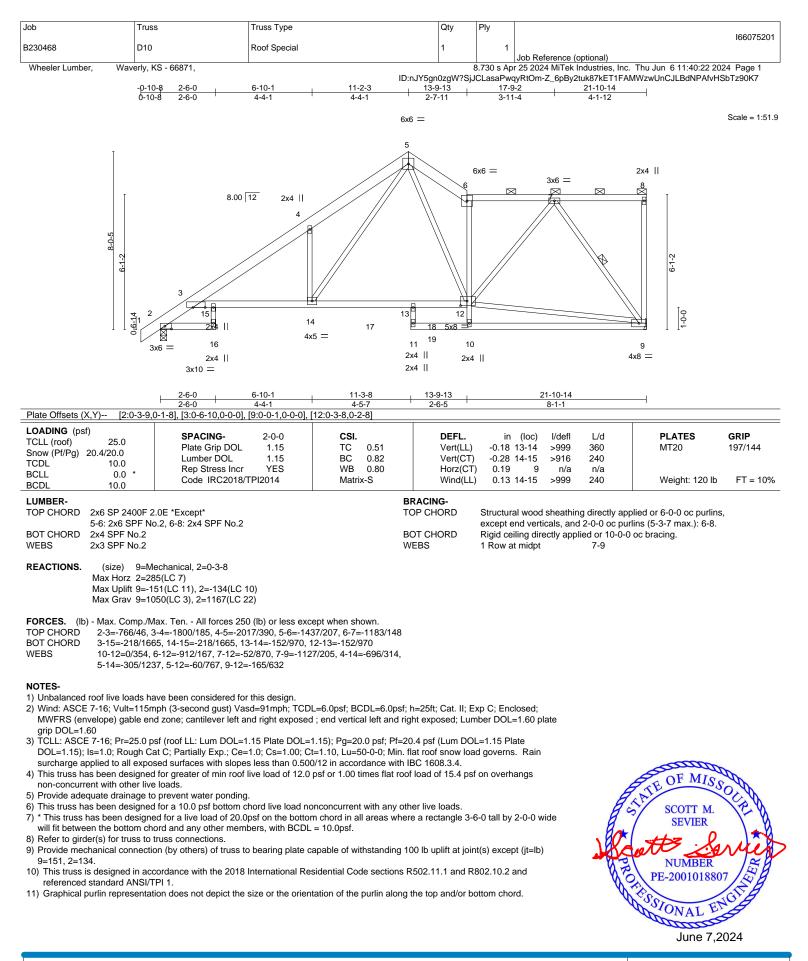


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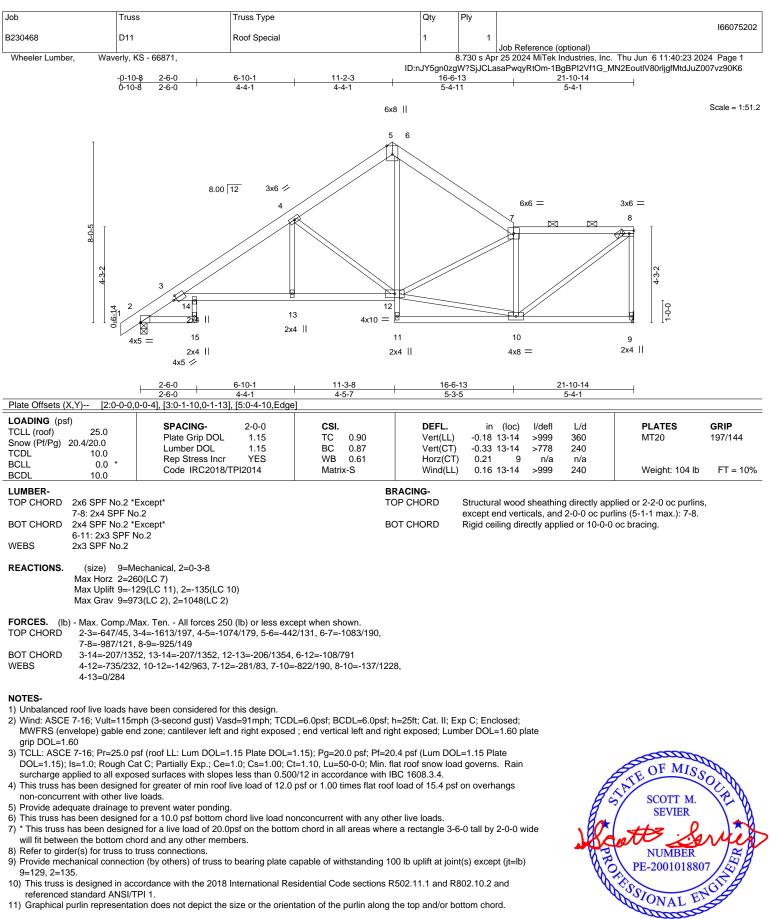
16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITGet-US.com

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 ANSUTPIT Quality Criteria, and DSE-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)





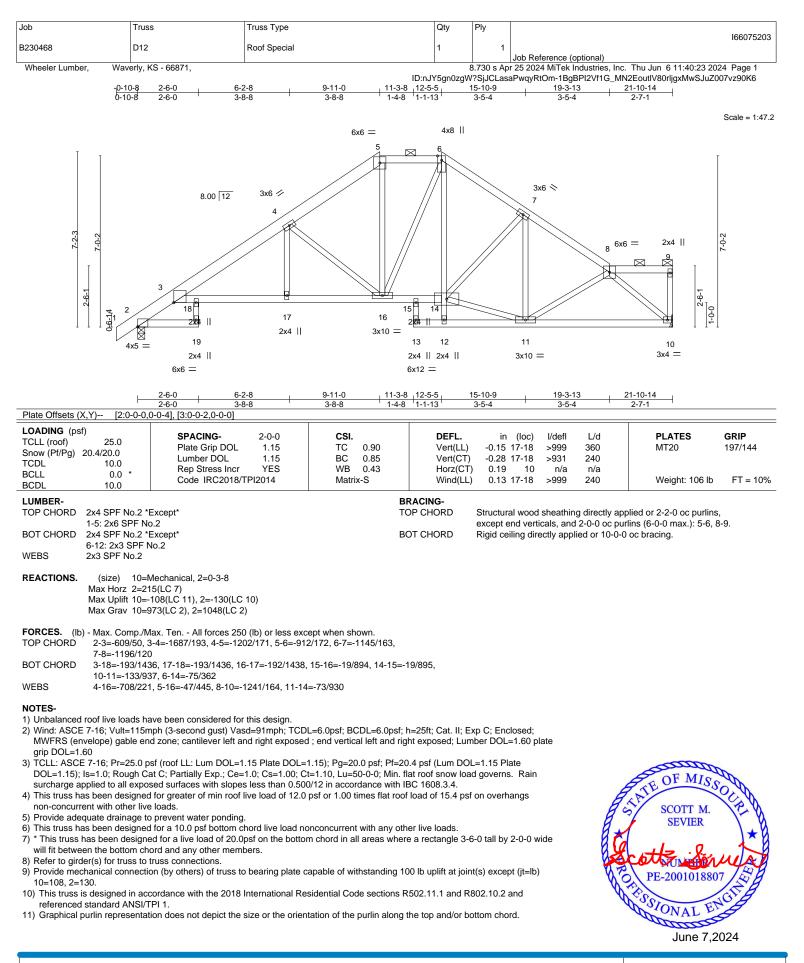
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/JTPI1 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.sbcsccomponents.com)



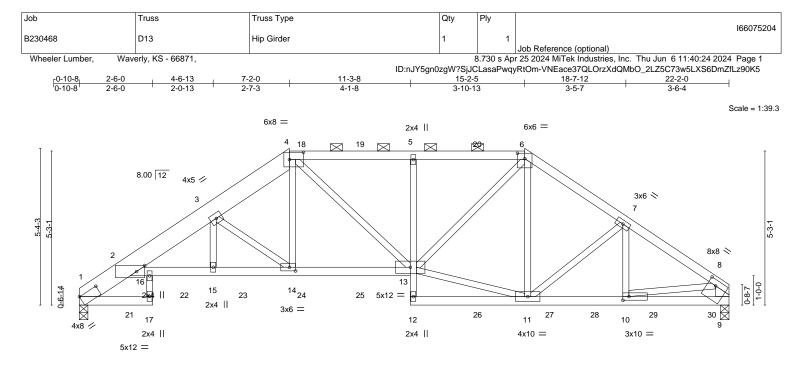
June 7,2024

Mitchek 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com

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	2-6-0		7-2-0	<u>11-3-8</u> 4-1-8		15-2-5		18-7-		22-2-0	-
Plate Offsets (X.Y	<u>2-6-0</u> ') [1·0-7-14	<u>2-0-13</u> ,0-0-2], [2:0-3-6,0-2-8	- · •		2-31 [8:0-3-4	3-10-13 0-2-4] [10:0-2-8				3-6-4	
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 TCDL BCLL	25.0 .4/20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	2-0-0 . 1.15 1.15 r NO	CSI. TC BC WB Matri:	0.60 0.68 0.57	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.12 13-14 -0.23 13-14 0.16 9 0.14 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 107 lb	GRIP 197/144 FT = 10%
BCDL 10.0 Code Integration in 2014 Initialized Winduced Winduced Winduced Winduced LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x8 SP 2400F 2.0E BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-6 max.): 4-6. BOT CHORD 2x4 SPF No.2 *Except* 2-13: 2x4 SPF 2100F 1.8E, 5-12: 2x3 SPF No.2 BOT CHORD Rigid ceiling directly applied or 7-5-0 oc bracing. WEBS 2x3 SPF No.2 *Except* 8-9: 2x6 SPF No.2 Secept and 2-0-3-8 BOT CHORD Rigid ceiling directly applied or 7-5-0 oc bracing.											
N N N	1ax Horz 1=13 1ax Uplift 1=-54 1ax Grav 1=16	9(LC 9) 14(LC 10), 9=-616(LC 28(LC 2), 9=1909(LC	2)								
TOP CHORD	1-2=-832/318,	ax. Ten All forces 2 2-3=-3078/1126, 3-4 , 7-8=-2340/806, 8-9:	=-2540/1007, 4-5=			72,					
		25, 15-16=-1049/282 . 10-11=-625/1890. 9	,	832, 13-14=-	811/2063,						
WEBS	4-14=-279/800	, 4-13=-280/487, 11- , 8-10=-518/1568		13=-523/1017	7, 3-14=-986	6/379,					
NOTES- 1) Unbalanced ro	of live loads ha	ve been considered f	or this design.								

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=544, 9=616.

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

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

Continued on page 2

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June 7,2024



Job	Truss	Truss Type	Qty	Ply	
					166075204
B230468	D13	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wav	erly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:24 2024 Page 2

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-VNEace37QLOrzXdQMbO_2LZ5C73w5LXS6DmZfLz90K5

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 116 lb up at 7-7-4, 126 lb down and 116 lb up at 9-7-4, and 134 lb down and 145 lb up at 13-7-4, and 135 lb down and 146 lb up at 13-7-4 on top chord, and 182 lb down and 70 lb up at 1-8-13, 59 lb down and 23 lb up at 3-7-4, 87 lb down and 63 lb up at 5-7-4, 62 lb down and 54 lb up at 7-7-4, 62 lb down and 54 lb up at 7-7-4, 51 lb down and 25 lb up at 11-4-12, 52 lb down and 25 lb up at 13-7-4, 206 lb down and 111 lb up at 15-7-4, 193 lb down and 82 lb up at 17-7-4, and 193 lb down and 75 lb up at 19-7-4, and 199 lb down and 54 lb up at 21-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

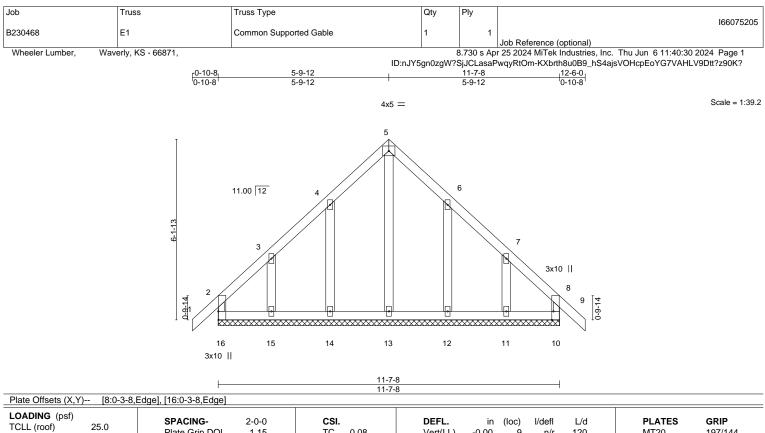
Uniform Loads (plf) Vert: 1-4=-51, 4-6=-61, 6-8=-51, 1-17=-20, 13-16=-20, 9-12=-20

Concentrated Loads (lb)

Vert: 5=-46(B) 13=-35(B) 18=-41(B) 19=-38(B) 20=-49(B) 21=-159(B) 22=-51(B) 23=-70(B) 24=-45(B) 25=-45(B) 26=-38(B) 27=-146(B) 28=-171(B) 29=-171(B) 30=-178(B) 30=-1

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TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. DEF TC 0.08 Vert BC 0.05 Vert WB 0.10 Horz Matrix-R	(LL) -0.00 9 n/r 120	PLATES GRIP MT20 197/144 Weight: 54 lb FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2		BRACING- TOP CHORD BOT CHORD	except end verticals.	

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 11-7-8.

(lb) - Max Horz 16=182(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-136(LC 10), 11=-132(LC 11) Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

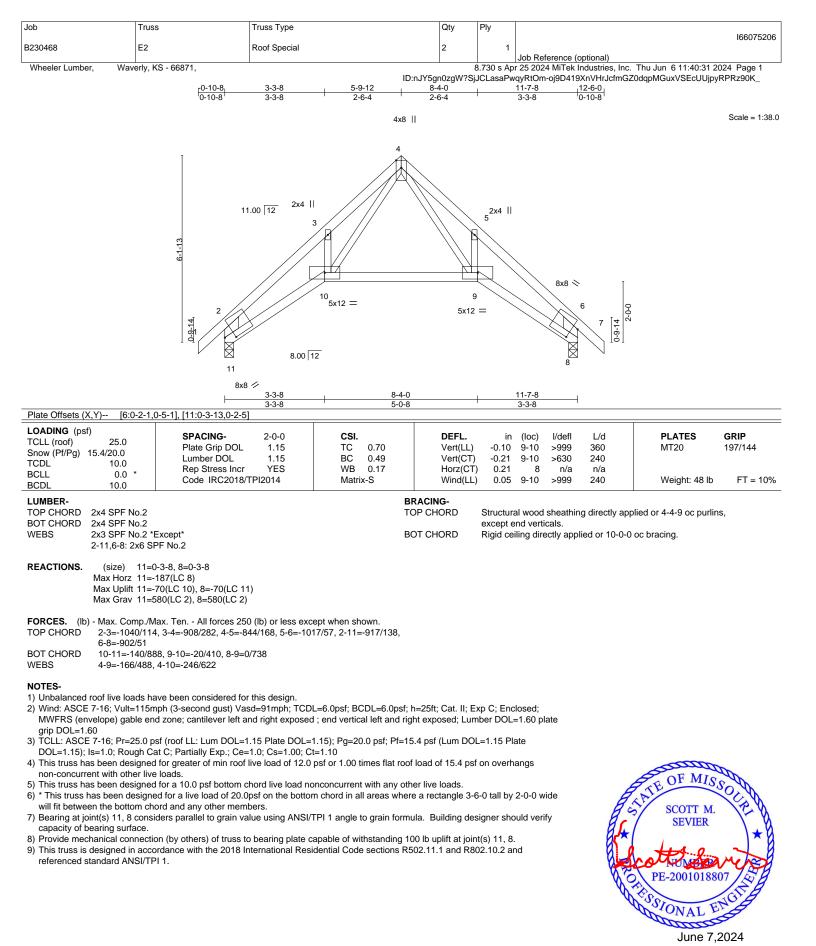
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=136, 11=132.
- 13) 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.



June 7,2024

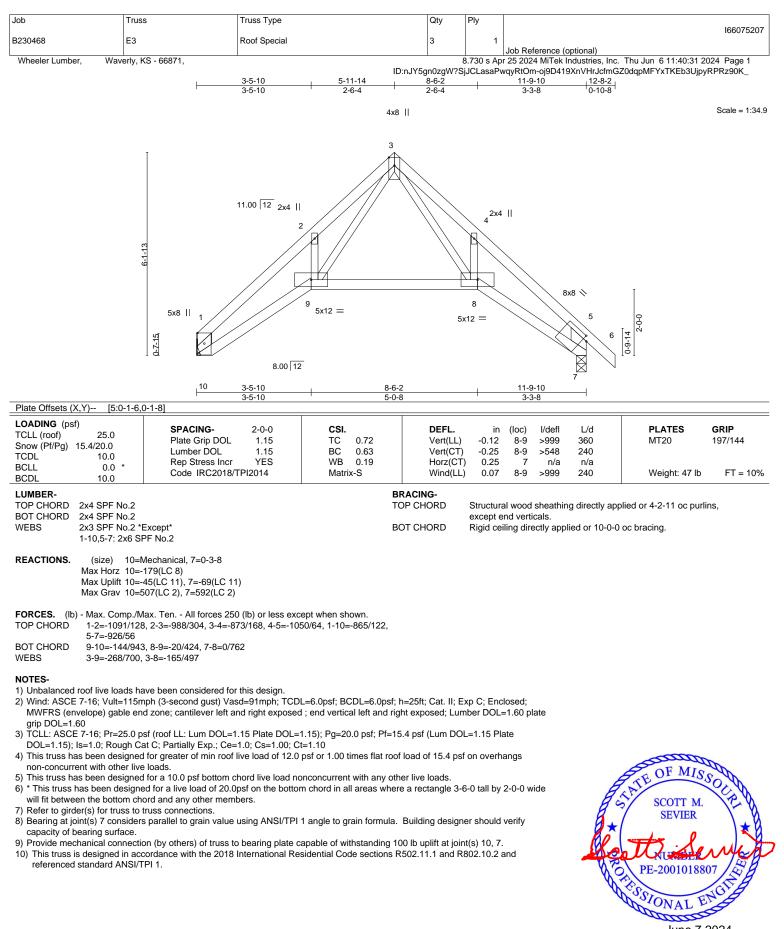


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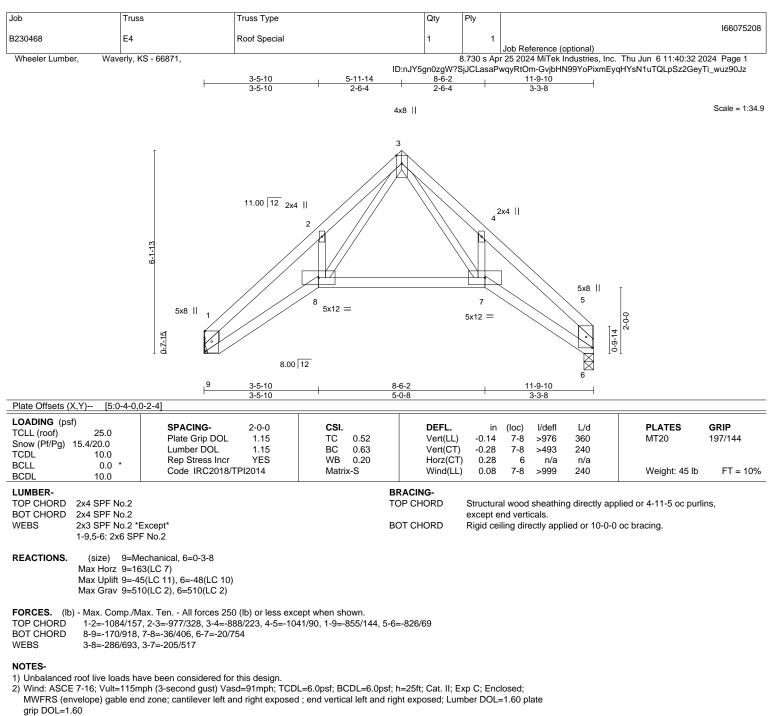




June 7,2024



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3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.

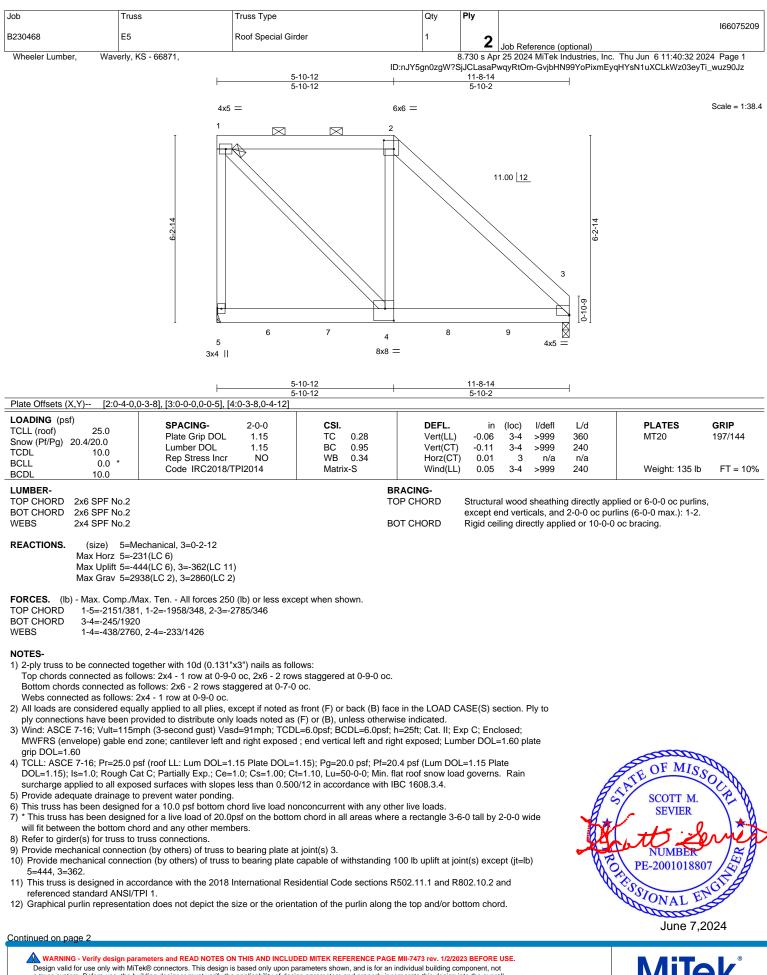
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SCOTT M. SEVIER PE-2001018807

June 7,2024

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Design valid for use only with Mil Rel® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, and DSE-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	
					166075209
B230468	E5	Roof Special Girder	1	2	
				_	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,			3.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:32 2024 Page 2
		ID:nJY5g	gn0zgW?S	JCLasa	wqyRtOm-GvjbHN99YoPixmEyqHYsN1uXCLkWz03eyTi_wuz90Jz

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 953 lb down and 129 lb up at 1-9-10, 1022 lb down and 99 lb up at 3-9-10, 1030 lb down and 171 lb up at 5-9-10, and 953 lb down and 149 lb up at 7-9-10, and 953 lb down and 128 lb up at 9-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

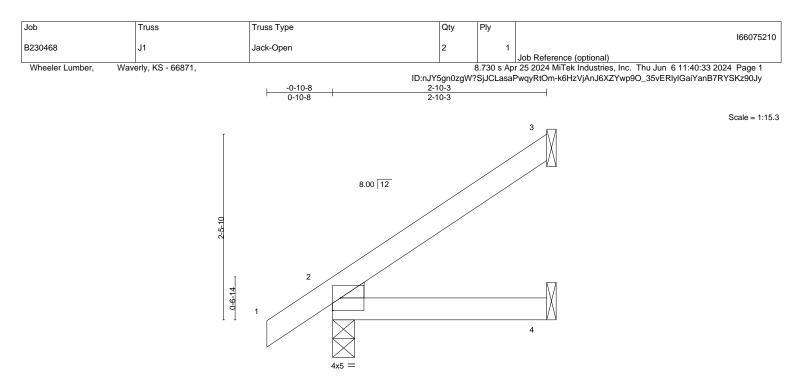
Uniform Loads (plf) Vert: 1-2=-61, 2-3=-51, 3-5=-20

Concentrated Loads (lb)

Vert: 4=-811(B) 6=-764(B) 7=-802(B) 8=-791(B) 9=-782(B)

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			<u>2-10-3</u> 2-10-3			ł			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.07 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.00 -0.01 -0.00 0.00	(loc) 2-4 2-4 3 2	l/defl >999 >999 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=98(LC 10) Max Uplift 3=-67(LC 10), 2=-17(LC 10)

Max Grav 3=87(LC 22), 2=204(LC 2), 4=53(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

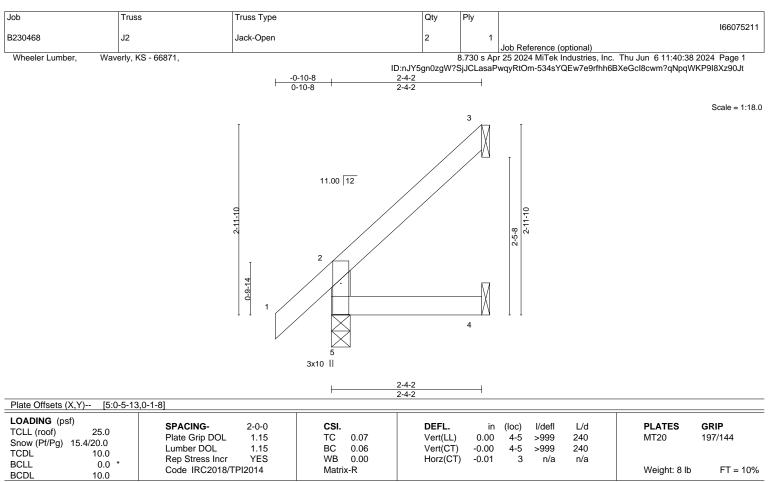


Structural wood sheathing directly applied or 2-10-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=104(LC 10) Max Uplift 3=-66(LC 10), 4=-7(LC 10)

Max Grav 5=185(LC 2), 3=70(LC 22), 4=40(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TOLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 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.



nstitute (www.tpinst.org) https://doi.org/16/023.Swingley.Ridge.Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com

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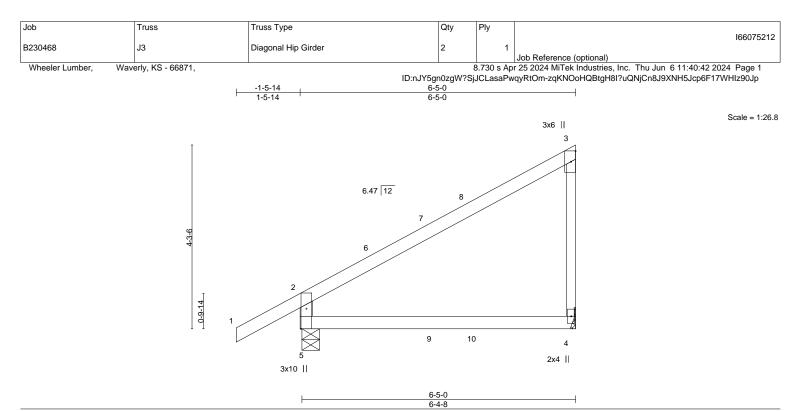


Plate Offsets (X,Y) [5:0-5-10),Edge]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.68 BC 0.36 WB 0.00 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.13 -0.00 0.06	(loc) 4-5 4-5 4 4-5	l/defl >999 >574 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 10%
BCDL 10.0			ACING-				2.0		

LUMBER-	
TOP CHORD	2x4 SPF No 2

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SPF No.2 except end verticals. 2x4 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-15, 4=Mechanical Max Horz 5=174(LC 9) Max Uplift 5=-91(LC 12), 4=-110(LC 9)

Max Grav 5=407(LC 2), 4=293(LC 19)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-359/136

NOTES-

BOT CHORD

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=110.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 93 lb up at 3-1-7, and 83 lb down and 82 lb up at 4-0-12 on top chord, and 6 lb down at 3-1-7, and 15 lb down and 21 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	
					166075212
B230468	J3	Diagonal Hip Girder	2	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:42 2024 Page 2

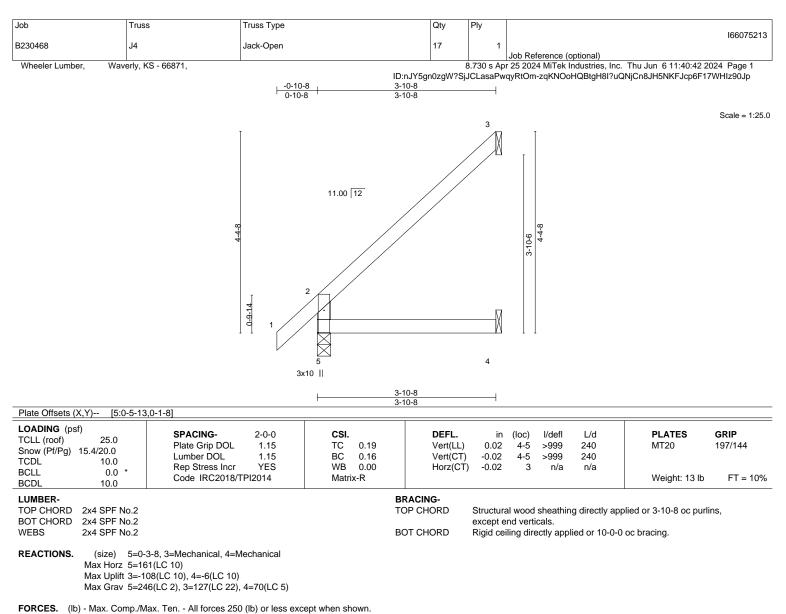
ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-zqKNOoHQBtgH8I?uQNjCn8J9XNH5Jcp6F17WHIz90Jp

Waverly, KS - 66871,

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 10=1(B)

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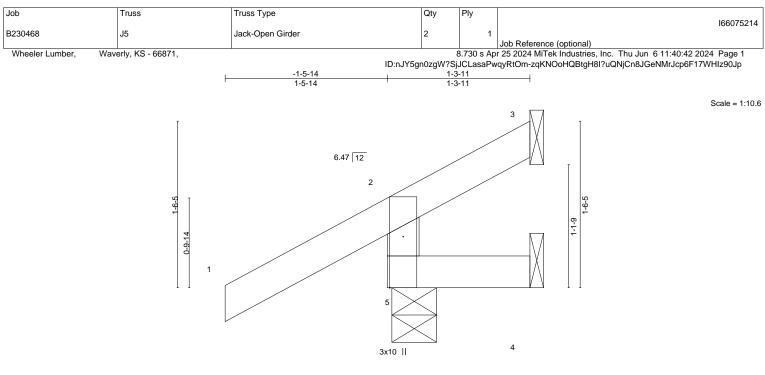


NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=108.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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1-3-11 1-3-3

Plate Offsets (X,Y) [5:0-5-10	o;=cgo]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 DCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.22 BC 0.06 WB 0.00	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 360 240 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	-0.00	5	>999	240	Weight: 6 lb	FT = 10%
LUMBER-		BF	ACING-						

MBER-	
	2v4 SDE No 2

TOF 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 1-3-11 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-15, 3=Mechanical, 4=Mechanical Max Horz 5=48(LC 12) Max Uplift 5=-52(LC 12), 3=-29(LC 18), 4=-13(LC 19)

Max Grav 5=258(LC 19), 3=9(LC 8), 4=15(LC 7)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

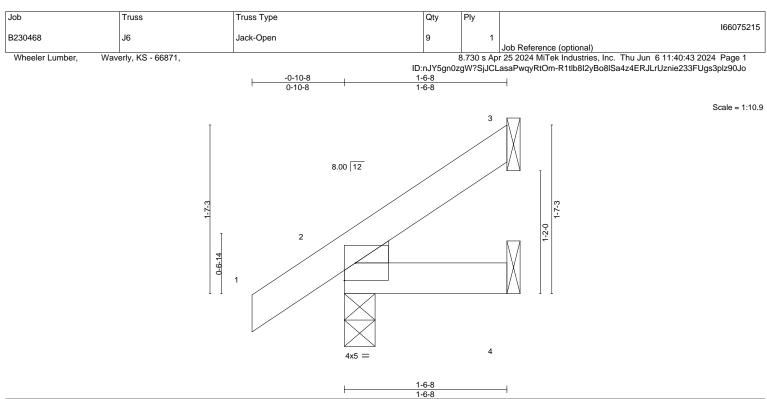
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) 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 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 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.



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			100	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.02 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2 >999 360 Vert(CT) -0.00 2 >999 240 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 6 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-6-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Left: 2x3 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=63(LC 10) Max Uplift 3=-36(LC 10), 2=-19(LC 10)

Max Grav 3=40(LC 22), 2=150(LC 2), 4=30(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

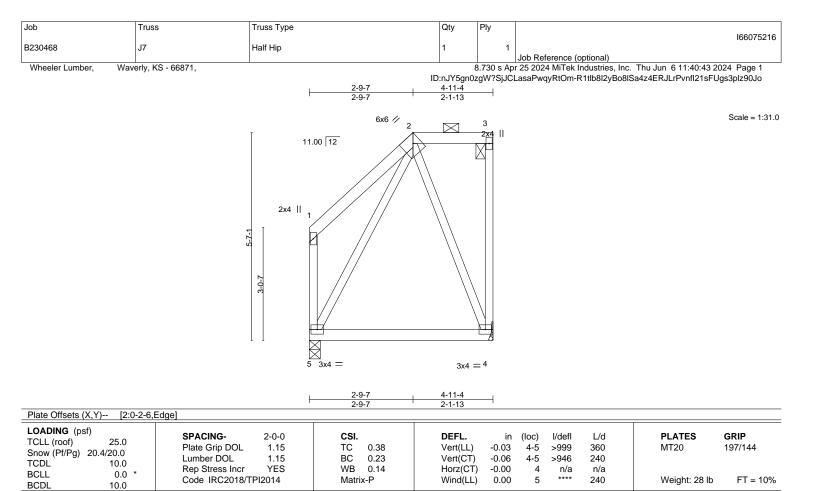
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 7,2024



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-	
TOP CHORD	214

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 5=0-3-8

Max Horz 5=207(LC 7) Max Uplift 4=-144(LC 7), 5=-38(LC 6) Max Grav 4=219(LC 21), 5=245(LC 22)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=144.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



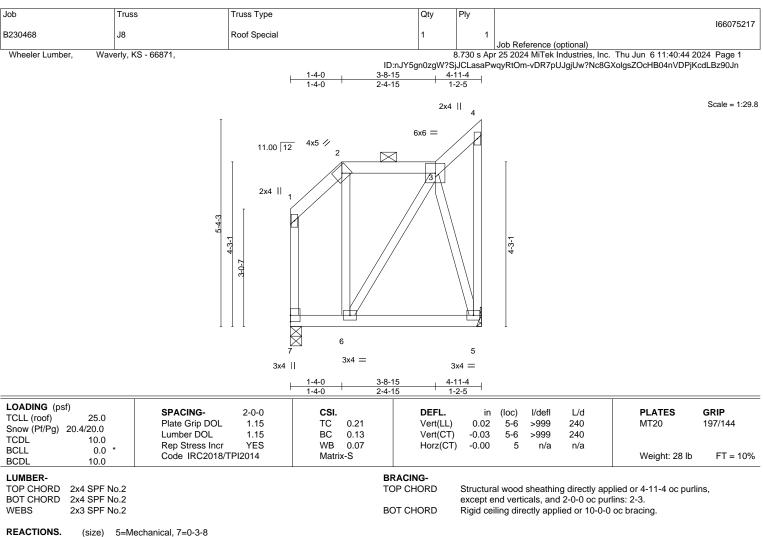
Structural wood sheathing directly applied or 4-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 2-3.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Antite Reference of the second second

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 ANSUTPH 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.sbcsccomponents.com)



Max Horz 7=191(LC 7) Max Uplift 5=-98(LC 7), 7=-61(LC 6) Max Grav 5=224(LC 21), 7=238(LC 22)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

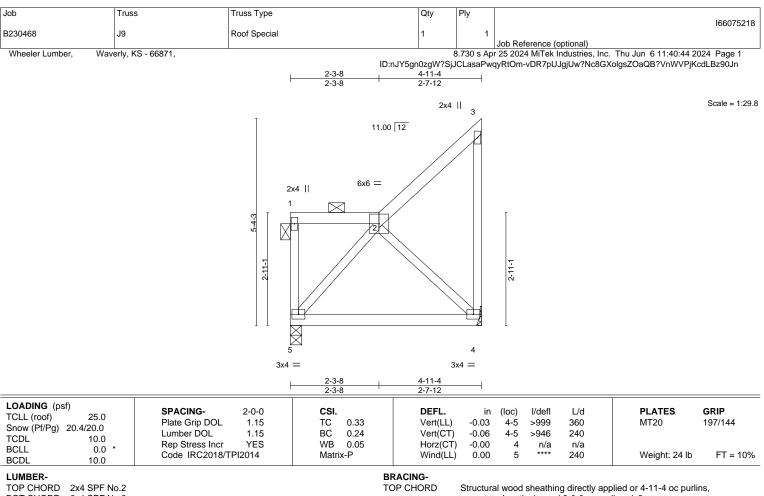
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 7,2024

16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

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

BOT CHORD

Structural wood sheathing directly applied or 4-11-4 oc purlir except end verticals, and 2-0-0 oc purlins: 1-2. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=191(LC 7) Max Uplift 5=-83(LC 6), 4=-98(LC 7) Max Grav 5=238(LC 22), 4=248(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
 - referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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314.434.1200 / MiTek-US.com

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Job	Truss	Truss Type		Qty	Ply					166075219
3230468	J10	Jack-Open		3	1					10007321
Wheeler Lumber,	Waverly, KS - 66871,				8 730 s An	Job Re	ference (c	optional)	Thu Jun 6 11:40:33 2	024 Page 1
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		4x8								
		⊢–	<u>4-11-4</u> 4-11-4							
LOADING (psf)										
TCLL (roof) 25	5.0 SPACING Plate Grip		CSI. TC 0.36	DEFL. Vert(LL)	in 0.05	(loc) 3-4	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
Snow (Pf/Pg) 15.4/20	.0 Lumbor D		BC 0.26	Vert(CT)		3-4 3-4	>999 >999	240 240	IVIIZU	131/144
	Rep Stres	s Incr YES	WB 0.00	Horz(CT		2	n/a	n/a		
	0.0 Code IRC	2018/TPI2014	Matrix-R						Weight: 14 lb	FT = 10
UMBER-	·		BR	ACING-						

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 4=168(LC 10) Max Uplift 2=-138(LC 10), 3=-5(LC 10)

Max Grav 4=213(LC 2), 2=169(LC 21), 3=92(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=138.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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	J11 erly, KS - 66871,	Jack-Open		4	1	Job Reference (166075220
	erly, KS - 66871,					loh Roforonco (ontional)		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			8				Thu Jun 6 11:40:34 2	024 Page 1
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				4-11-4					
	-2-5,0-1-8]								
LOADING (psf) FCLL (roof) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.34	DEFL. Vert(LL)	in 0.05	(loc) l/defl 4-5 >999	L/d 240	PLATES MT20	GRIP 197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.05	4-5 >999	240	WI 20	197/144
BCLL 0.0 *	Rep Stress Incr Code IRC2018/	YES TPI2014	WB 0.00 Matrix-R	Horz(CT)	-0.04	3 n/a	n/a	Weight: 15 lb	FT = 10%
3CDL 10.0									
LUMBER- FOP CHORD 2x4 SPF No	o.2			RACING- OP CHORD	Structural	wood sheathir	ng directly appl	lied or 4-11-4 oc purl	ns,
BOT CHORD 2x4 SPF No WEBS 2x4 SPF No			D	OT CHORD		d verticals. ng directly app	lied or 10.0.0	oc bracing	
			, Bi	OT CHORD	Rigiu celli	ng unechy app		oc bracing.	
	5=0-3-8, 3=Mechanical, 4=I 5=201(LC 10)	Mechanical							
Max Uplift	3=-137(LC 10), 4=-5(LC 10)								
Max Grav	5=292(LC 2), 3=165(LC 22)	, 4=91(LC 5)							
FORCES. (lb) - Max. Com TOP CHORD 2-5=-257/	np./Max. Ten All forces 25	0 (Ib) or less except	when shown.						
	23								
NOTES- Ⅰ) Wind: ASCE 7-16: Vult= [:]	115mph (3-second gust) Va	sd=91mph: TCDL=6	6.0psf: BCDL=6.0psf:	h=25ft: Cat. II: Ex	co C: Enclo	osed:			
MWFRS (envelope) gabl	le end zone; cantilever left a			, ,		,			
grip DOL=1.60) TCLL: ASCE 7-16; Pr=2	5.0 psf (roof LL: Lum DOL=	1.15 Plate DOL=1.1	5); Pg=20.0 psf; Pf=15	5.4 psf (Lum DOL	.=1.15 Plat	te			
	gh Cat C; Partially Exp.; Ce₌ gned for greater of min roof			flood of 15 4 pcf	on overba	nac			
non-concurrent with othe		live load of 12.0 psi	or 1.00 times hat tool	1 10au 01 15.4 psi	on overna	ngs			
	gned for a 10.0 psf bottom of signed for a live load of 20.0				-0 tall by 2	-0-0 wide			
will fit between the bottor	m chord and any other mem			o a rootangio o a					
		o bearing plate capa	able of withstanding 1	00 lb uplift at ioin	t(s) 4 exce	pt (it=lb)		Samo	A
		sound place oupe	and a manadal and the			F- U* 1~/	1	E OF MIS	dr 2
 Refer to girder(s) for true Provide mechanical conr 3=137. 							0	AV .	SO, NN
 Provide mechanical conr 3=137. 	accordance with the 2018 I	nternational Resider	ntial Code sections R5	502.11.1 and R80)2.10.2 and	t	A	A	Con the
) Provide mechanical conr 3=137.) This truss is designed in 	accordance with the 2018 I	nternational Resider	ntial Code sections R5	502.11.1 and R80)2.10.2 and	ť		SCOTT M. SEVIER	CER A



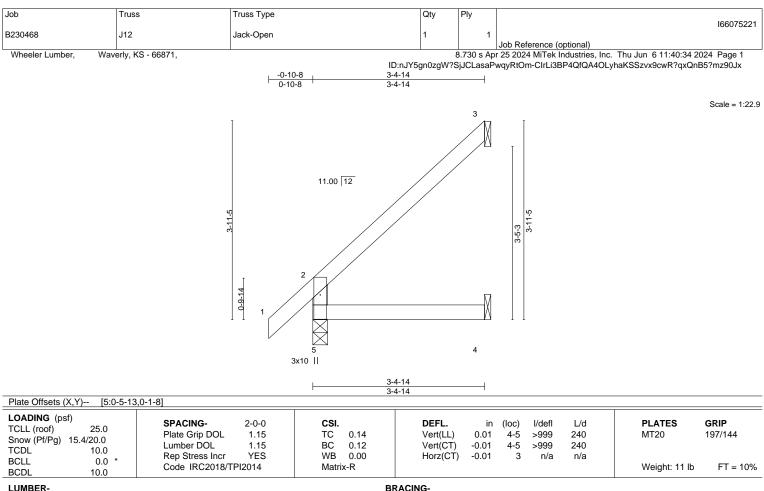


June 7,2024

NUMPER

PE-200101000 PE-2001018807

CONTRA-



LUMBER-	BI	RACING-	
TOP CHORD 2x4 SP	No.2 TO	OP CHORD S	Structural wood sheathing directly applied or 3-4-14 oc purlins,
BOT CHORD 2x4 SP	No.2	e	except end verticals.
WEBS 2x4 SPI	No.2 BC	OT CHORD F	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=144(LC 10) Max Uplift 3=-95(LC 10), 4=-6(LC 10)

Max Grav 5=227(LC 2), 3=110(LC 22), 4=61(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

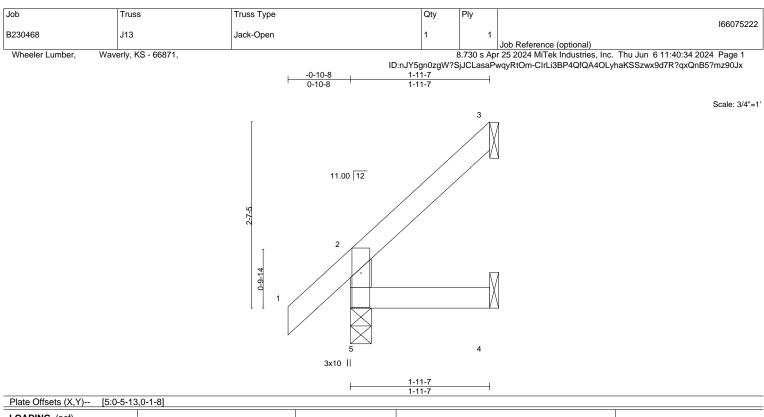
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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





LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCDL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.07 BC 0.05 WB 0.00 Matrix-R		in (loc) 0.00 5 -0.00 5 -0.00 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 10%
LUMBER-		BF	RACING-					

L	UME	BEF	२-
-			•

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 TOP CHORD

Structural wood sheathing directly applied or 1-11-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=91(LC 10) Max Uplift 3=-56(LC 10), 4=-8(LC 10)

Max Grav 5=172(LC 2), 3=57(LC 22), 4=33(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

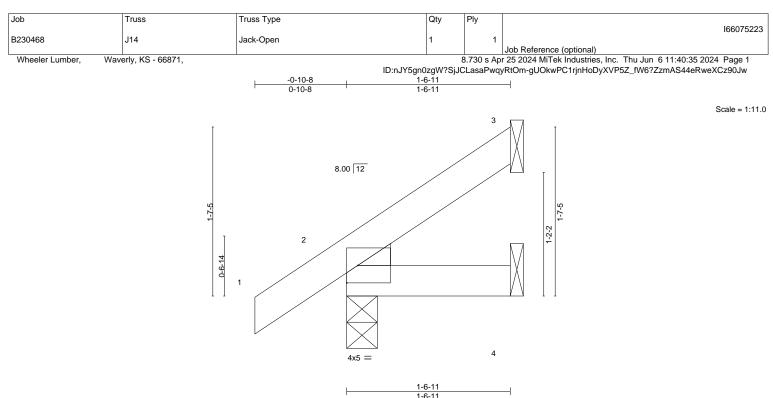
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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





			1-0-11	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.02 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2 >999 360 Vert(CT) -0.00 2 >999 240 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 6 lb FT = 10%

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LUMBER-
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TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-6-11 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Left: 2x3 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=64(LC 10) Max Uplift 3=-37(LC 10), 2=-19(LC 10)

Max Grav 3=40(LC 22), 2=150(LC 2), 4=30(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

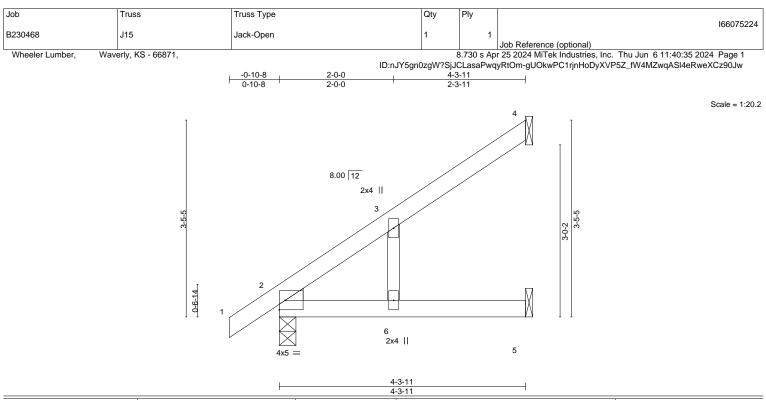
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



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/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)





		4	-3-11	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.16 BC 0.21	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 6 >999 360 Vert(CT) -0.04 6 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.02 Matrix-P	Horz(CT) 0.01 4 n/a n/a Wind(LL) 0.03 6 >999 240	Weight: 14 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

 WEDGE
 2x3 SPF No.2

Left: 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=137(LC 10) Max Uplift 4=-63(LC 10), 2=-14(LC 10), 5=-15(LC 10) Max Grav 4=113(LC 22), 2=265(LC 2), 5=73(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

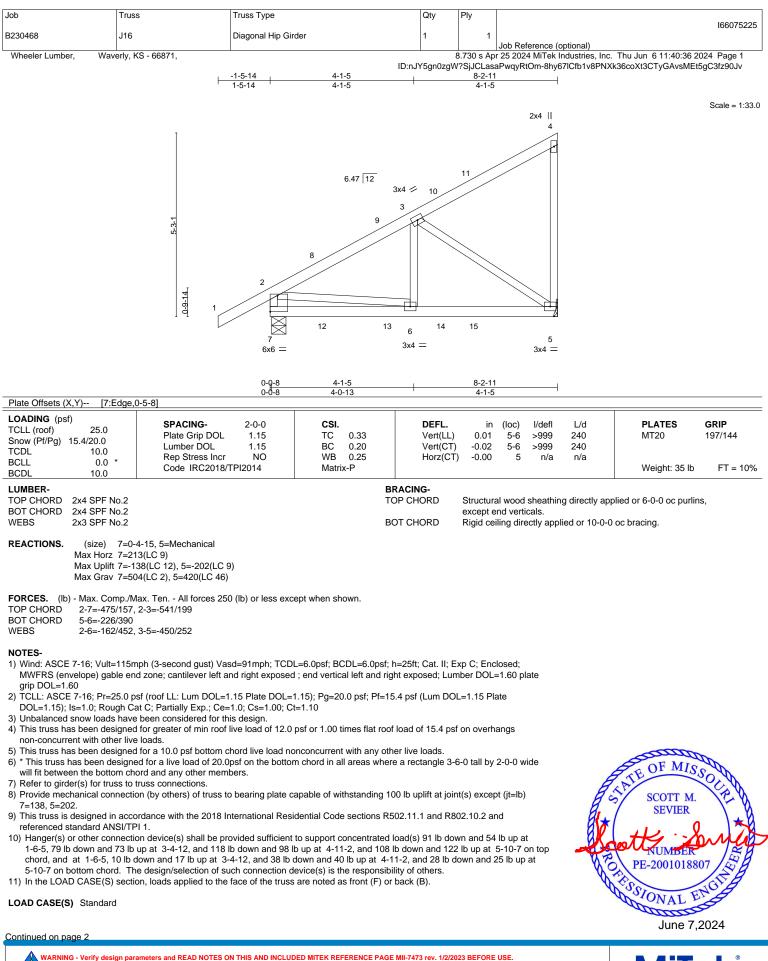


Structural wood sheathing directly applied or 4-3-11 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

June 7,2024

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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 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 ouclasse 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/ITPI1 Quality Criteria**, **and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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Job	Truss	Truss Type	Qty	Ply	
					166075225
B230468	J16	Diagonal Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:36 2024 Page 2

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-8hy67lCfb1v8PNXk36coXt3CTyGAvsMEt5gC3fz90Jv

LOAD CASE(S) Standard

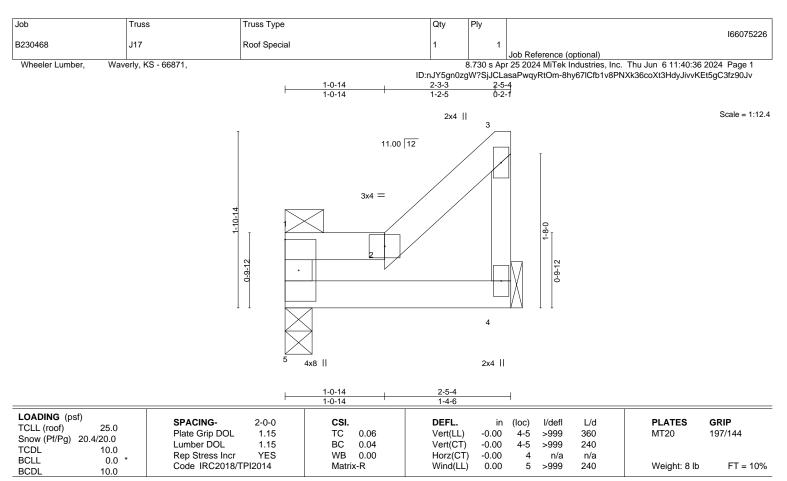
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-51, 2-4=-51, 5-7=-20

Concentrated Loads (lb)

Vert: 10=-4(B) 11=-7(F) 13=1(F) 14=-24(B) 15=-10(F)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* WEBS 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=64(LC 7) Max Uplift 5=-18(LC 6), 4=-28(LC 10)

Max Grav 5=98(LC 2), 4=102(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-5-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 1-2.

Rigid ceiling directly applied or 10-0-0 oc bracing.

June 7,2024

16023 Swingley Ridge Rd. Chesterfield MO 63017

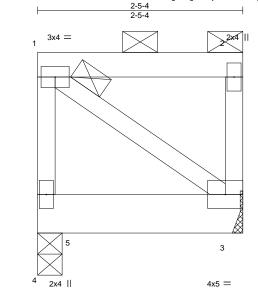
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
B230468	J18	Flat	1	1	166075227
2200100					Job Reference (optional)
Wheeler Lumber, Way	verly, KS - 66871,		1	3.730 s Ap	or 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:37 2024 Page 1

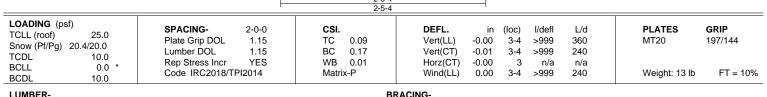
8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:37 2024 Page ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-ctWUL4DHML1?1X6wdq7144bRzMdxeMQN6iPlb5z90Ju

2-0-0 oc purlins: 1-2, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Scale = 1:13.7



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E WEBS 2x3 SPF No.2

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=-68(LC 6)

Max Uplift 4=-125(LC 6), 3=-63(LC 7)

Max Grav 4=1101(LC 3), 3=308(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

-1-10

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=125

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1233 lb down and 103 lb up at 0-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

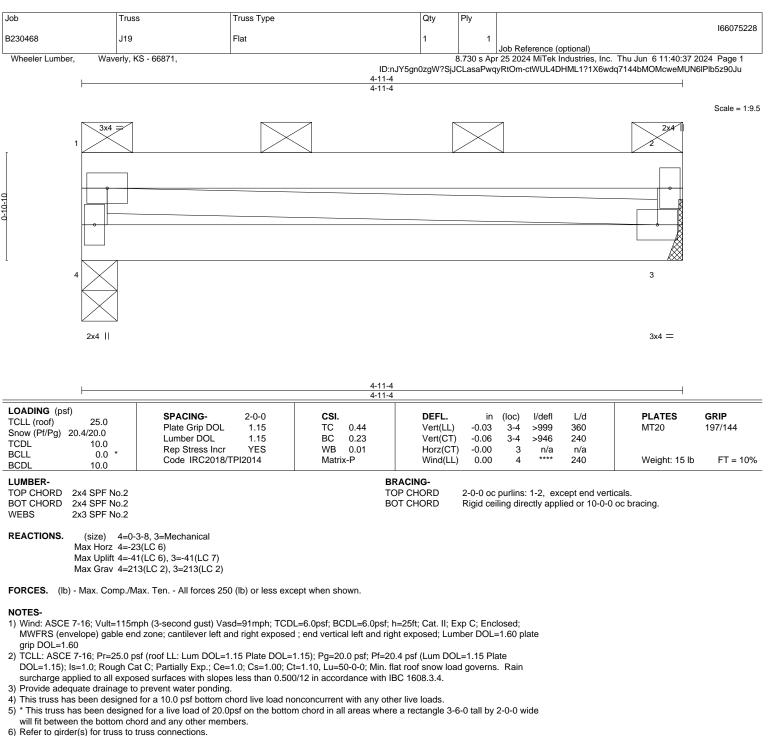
LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-61, 3-4=-20 Concentrated Loads (lb) Vert: 5=-966(B)



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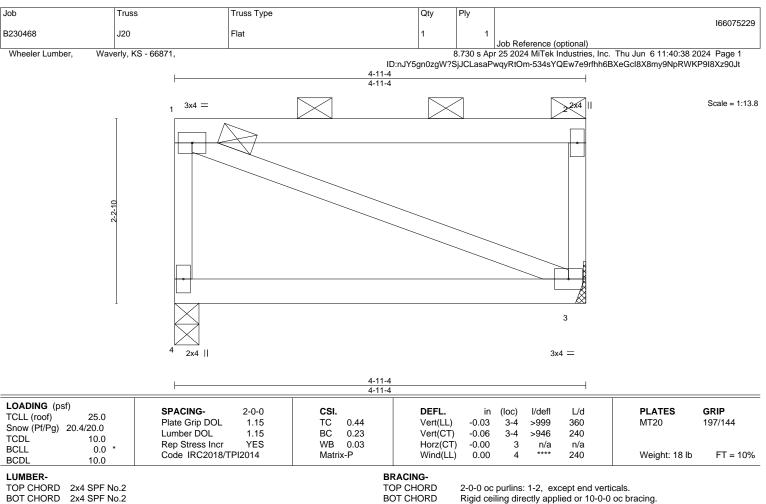


- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
 - referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 7,2024

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2x4 SPF No.2 BOT CHORD WEBS 2x3 SPF No.2

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=74(LC 7)

Max Uplift 4=-55(LC 6), 3=-55(LC 7) Max Grav 4=213(LC 2), 3=213(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

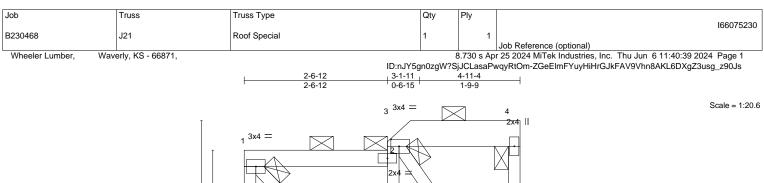
NOTES-

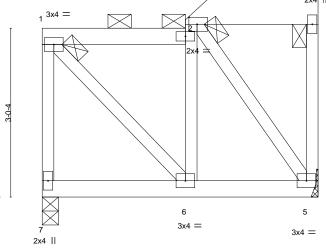
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
 - referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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2-6-12	₁ 3-1-11 ₁	4-11-4	1	
2-6-12	['] 0-6-15 [']	1-9-9	1	

LOADING (psf) SPACING- 2-0-0 TCLL (roof) 25.0 Plate Grip DOL 1.15 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 TCDL 10.0 Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. DEFL. TC 0.11 Vert(LL) BC 0.04 Vert(CT) WB 0.16 Horz(CT) Matrix-S Wind(LL)	in (loc) I/defl L/d -0.00 6 >999 360 -0.01 6 >999 240 -0.00 5 n/a n/a 0.00 6 >999 240	PLATES GRIP MT20 197/144 Weight: 25 lb FT = 10%
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LUMBER-

 TOP CHORD
 2x4 SPF No.2 *Except*

 3-4: 2x6 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

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

BRACING-TOP CHORD BOT CHORD

2-0-0 oc purlins: 1-2, 3-4, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=Mechanical Max Horz 7=117(LC 9)

Max Uplift 7=-76(LC 6), 5=-62(LC 7) Max Grav 7=213(LC 2), 5=213(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

5-6-10

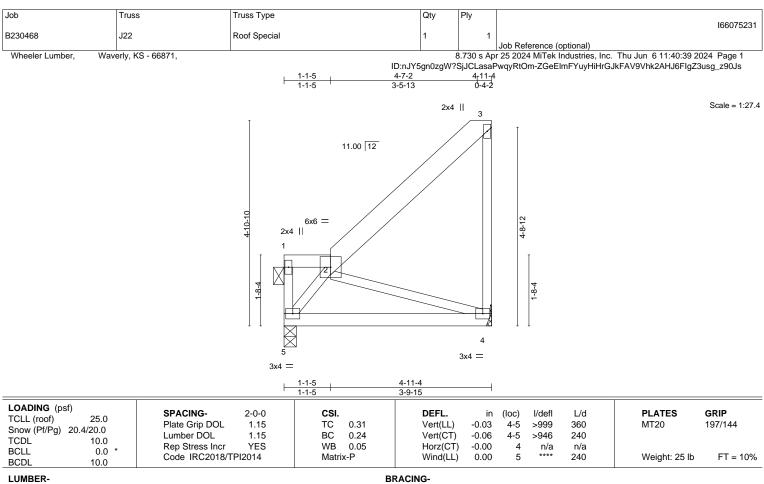
NOTES-

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 7,2024





TOP CHORD

BOT CHORD

 TOP CHORD
 2x4 SPF No.2 *Except*

 2-3: 2x6 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=187(LC 7) Max Uplift 5=-37(LC 6), 4=-91(LC 7)

Max Grav 5=234(LC 22), 4=248(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



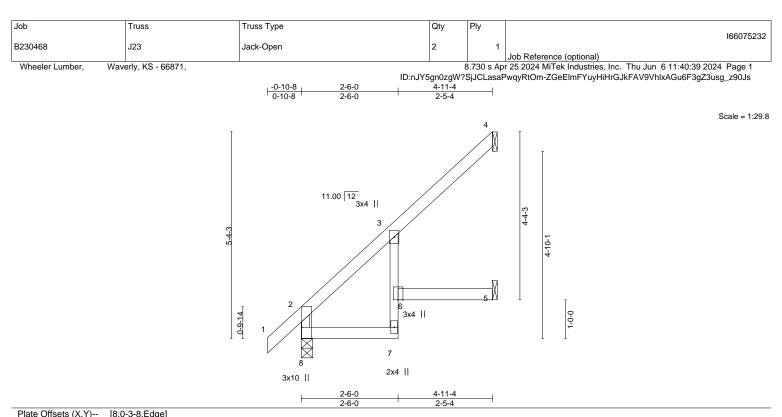
Structural wood sheathing directly applied or 4-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 1-2.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.25 BC 0.26 WB 0.00 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.07 -0.03 0.07	(loc) 6 7 5 6	l/defl >999 >792 n/a >764	L/d 360 240 n/a 240	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 10%
--	---	--	---	---------------------------------------	---------------------------	---------------------------------------	---------------------------------	---------------------------------	------------------------------------

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins,
BOT CHORD 2x4 SPF No.2 *Except*	except end verticals.
3-7: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=202(LC 10) Max Uplift 4=-108(LC 10), 5=-34(LC 10) Max Grav 8=290(LC 2), 4=147(LC 22), 5=86(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-266/1

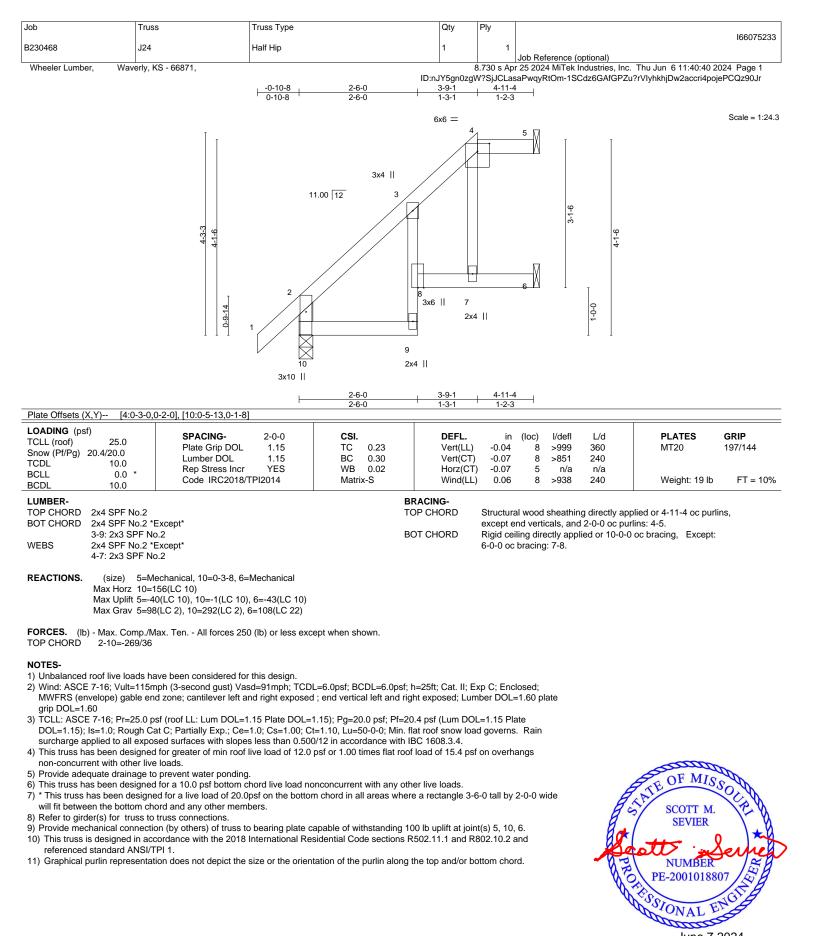
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=108.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



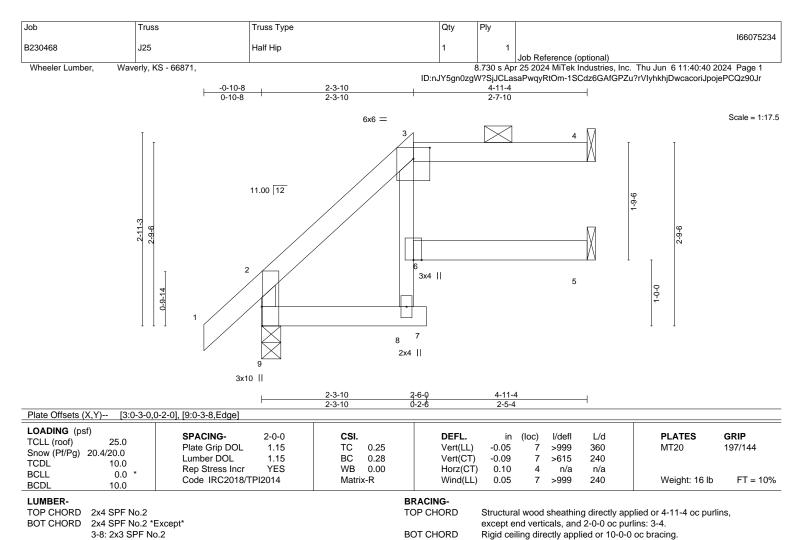
June 7,2024

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WEBS 2x3 SPF No.2 **REACTIONS.** (size) 4=Mechanical, 9=0-3-8, 5=Mechanical Max Horz 9=102(LC 10)

Max Uplift 4=-45(LC 7), 9=-25(LC 10), 5=-3(LC 10) Max Grav 4=132(LC 2), 9=293(LC 2), 5=87(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-9=-271/53

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 9, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

SCOTT M. SEVIER RUMBER PE-2001018807

June 7,2024



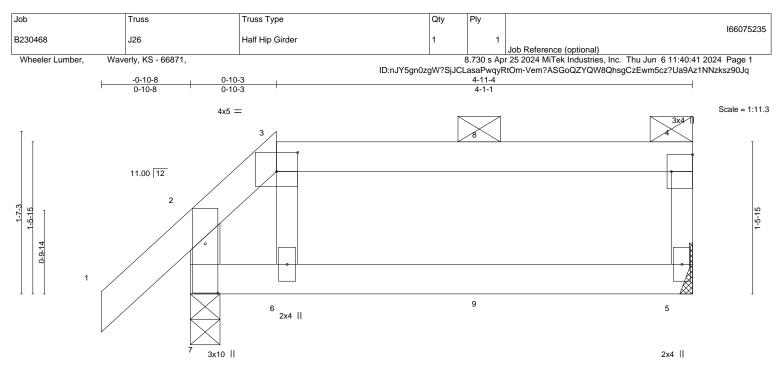


Plate Offsets (X,Y) [3:0-2-8,	0-10-3 0-10-3 0-2-4], [4:Edge,0-2-8], [7:0-5-13,0-1-8]	2-5-10 1-7-7	<u>4-11-4</u> 2-5-10	I
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.24 BC 0.13 WB 0.03	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 5-6 >999 360 Vert(CT) -0.02 5-6 >999 240 Horz(CT) 0.00 5 n/a	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 5-6 >999 240	Weight: 15 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD 2x4	4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-4 oc purlins,
BOT CHORD 2x4	4 SPF No.2		except end verticals, and 2-0-0 oc purlins: 3-4.
	(3 SPF No.2 *Except* 7: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 7=0-3-8 Max Horz 7=63(LC 7) Max Uplift 5=-50(LC 7), 7=-69(LC 10)

Max Grav 5=202(LC 30), 7=267(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 115 lb up at 0-10-3, and 63 lb down and 34 lb up at 2-11-4 on top chord, and 13 lb down and 17 lb up at 0-10-3, and 3 lb down at 2-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Continued on page 2







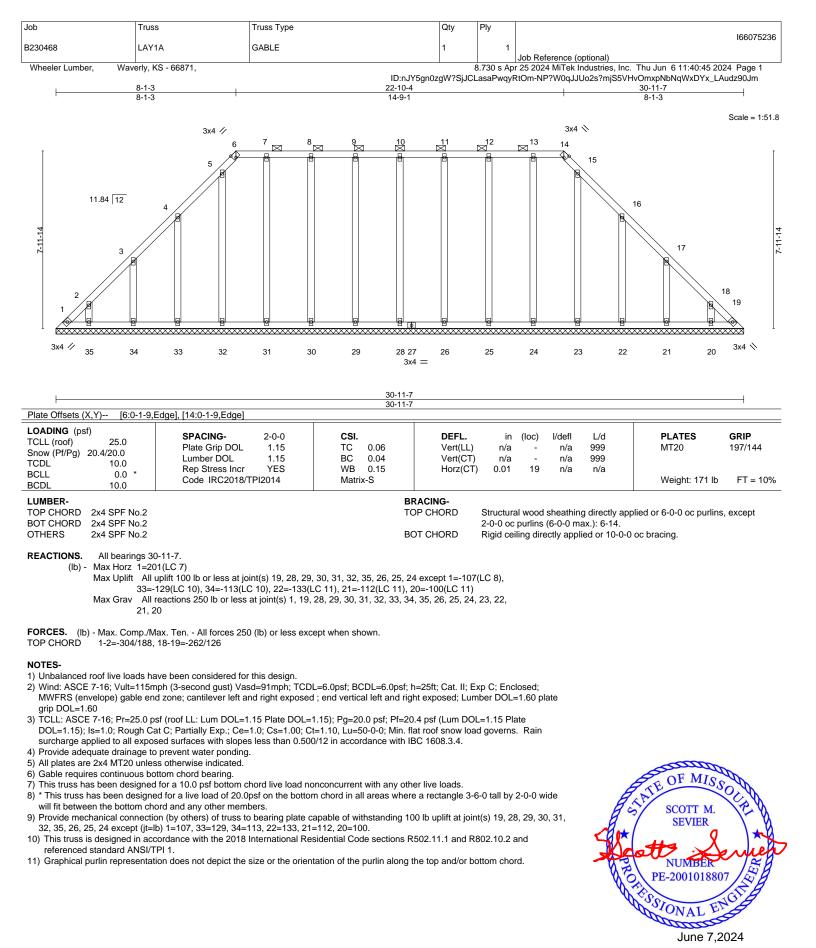
Job	Truss	Truss Type	Qty	Ply		
					166075235	
B230468	J26	Half Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871, 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:41 2024 Page 2						

ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-Vem?ASGoQZYQW8QhsgCzEwm5cz?Ua9Az1NNzksz90Jq

LOAD CASE(S) Standard

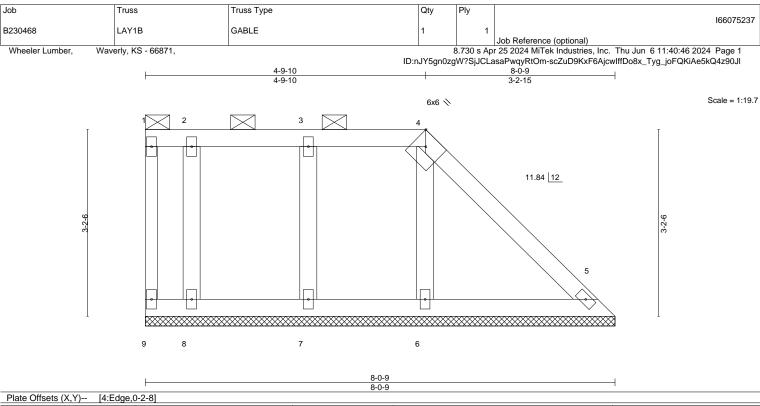
Uniform Loads (pf) Vert: 1-2=-51, 2-3=-51, 3-4=-61, 5-7=-20 Concentrated Loads (lb) Vert: 3=27(F) 6=2(F)





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LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.15 BC 0.05 WB 0.03 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	n/a n/a	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 30 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2		TC		except end	d vertica	als, and	2-0-0 oc pi	pplied or 6-0-0 oc purlir Irlins: 1-4. 0 oc bracing.	ns,

REACTIONS. All bearings 8-0-9.

(lb) - Max Horz 9=-116(LC 6)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 9, 8, 7, 6 Max Grav All reactions 250 lb or less at joint(s) 9, 5, 8, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

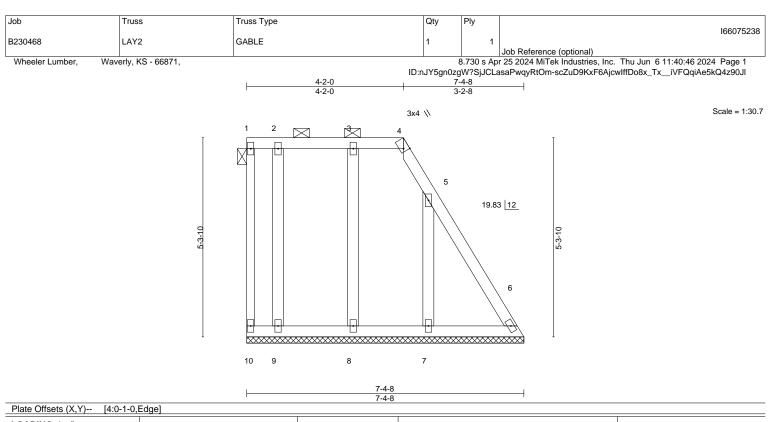
NOTES-

OTHERS

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 8, 7, 6.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.20 BC 0.07 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2			RACING- DP CHORD S	Structural wood	l sheathin	g directly ap	plied or 6-0-0 oc purlir	IS,

101 0110110 2/			en detanan meeda en eda ming an een y appned en e e e e pannie,
BOT CHORD 2	2x4 SPF No.2		except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.
WEBS 23	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2	2x4 SPF No.2		

REACTIONS. All bearings 7-4-8.

(lb) - Max Horz 10=-197(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 10, 9, 8 except 6=-104(LC 7), 7=-219(LC 11) Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8 except 7=315(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 5-7=-252/225

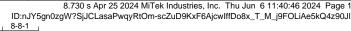
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 9, 8 except (jt=lb) 6=104, 7=219.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

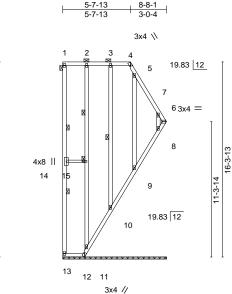




Job	Truss	Truss Type	Qty	Ply	
B230468	LAY3	GABLE	1	1	166075239
0200400	LATO		'		Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:46 2024 Page 1



Scale: 1/8"=1'



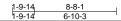


Plate Offsets (X,Y) [4:0)-1-0,Edge],	[7:Edge,0-1-8]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCDL 0.0 * BCDL	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.05 BC 0.03 WB 0.16 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 92 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2			ACING- P CHORD Si	tructural wood	sheathin	g directly ap	plied or 6-0-0 oc purlin	15,
BOT CHORD 2x4 SPF No.2							rlins (6-0-0 max.): 1-4.	
WEBS 2x4 SPF No.2 *	Except*	BO	T CHORD R	igid ceiling dire	ectly appl	ied or 6-0-0	oc bracing.	
14-15: 2x3 SPF	No.2	WE		Row at midpt		2-15, 3-1	0	
OTHERS 2x4 SPF No.2		101		Rows at 1/3 p		1-13		
		JOI	NTS 1	Brace at Jt(s):	1, 15			

REACTIONS. All bearings 8-8-1.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 7 Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

16-3-13

2) Provide adequate drainage to prevent water ponding.

3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.

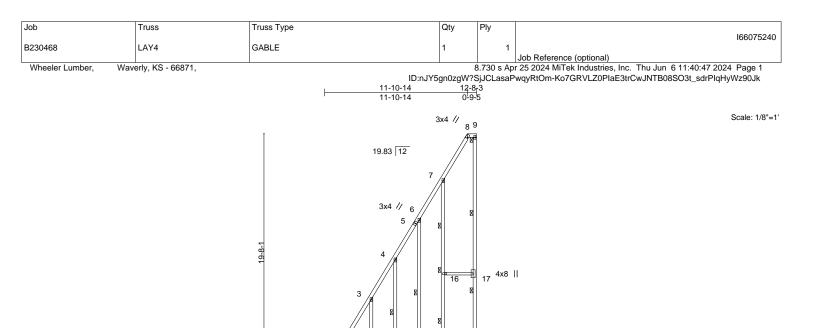
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 11, 10, 9, 8.

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

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



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12

12-8-3 12-8-0 11

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

10

in (loc)

10

n/a

n/a

0.00

l/defl

n/a

n/a

n/a

L/d

999

999

n/a

BCDL

LOADING (psf)

Snow (Pf/Pg) 20.4/20.0

TCLL (roof)

TCDL

BCLL

LUMBER-		BRACING-					
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,				
BOT CHORD	2x4 SPF No.2		except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8				
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				
	16-17: 2x3 SPF No.2	WEBS	1 Row at midpt	4-13, 6-12, 11-16, 7-16			
OTHERS	2x4 SPF No.2		2 Rows at 1/3 pts	9-10			
		JOINTS	1 Brace at Jt(s): 9, 16				

15

CSI.

тс

BC

WB

Matrix-S

^{3x4}0<u>4</u>-2 0-0-2

14 13

0.09

0.06

0.09

REACTIONS. All bearings 12-8-1.

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

25.0

10.0

10.0

0.0

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 1, 15, 14, 13, 12 except 11=275(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

NOTES-

1) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

0-0-4

2-0-0

1.15

1.15

YES

2) Provide adequate drainage to prevent water ponding.

3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

5) 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 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

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



June 7,2024

GRIP

197/144

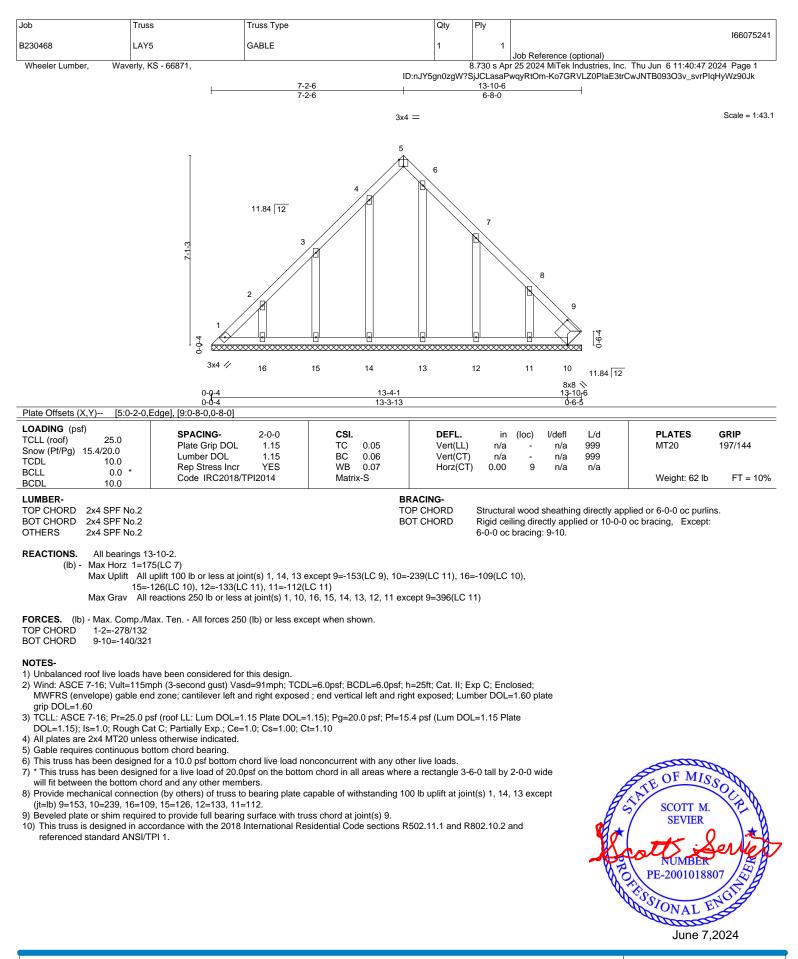
FT = 10%

PLATES

Weight: 117 lb

MT20



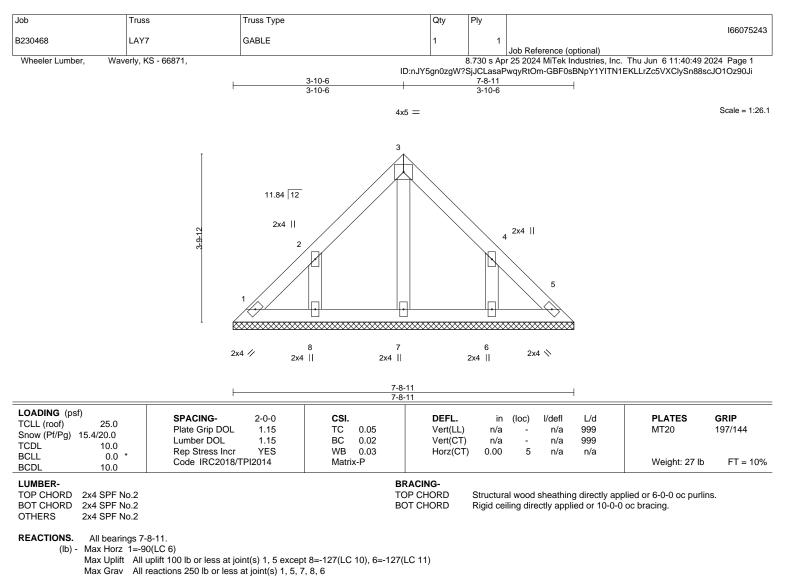




			1-		1		
Job	Truss	Truss Type	Qty	Ply			166075242
B230468	LAY6	GABLE	1	1	Job Reference (optional)		
Wheeler Lumber, V	/averly, KS - 66871,				or 25 2024 MiTek Industries, Inc. PwgyRtOm-o_heerMBnjQRsDS1r		
		6-3-14 6-3-14	6 ₁ 9 ₁ 6 10-6-10 0-5-8 3-9-4	-			Judo J2000j
		0-0-14					Scale = 1:67.4
		3x4 1/					Scale = 1:07.4
		T .	56		T		
			9	φφ 4 = φφ 8	1.9.1		
Disto Officeto (V. V)		2-4-15	<u>0-6-10</u> 8-1-11	ł			
Plate Offsets (X,Y) [LOADING (psf)	5:0-1-9,Edge], [6:Edge,0-2-8],						
TCLL (roof) 25.		2-0-0 CSI. 1.15 TC 0.23	DEFL. Vert(LL)	in n/a	. ,	PLATES MT20	GRIP 197/144
Snow (Pf/Pg) 20.4/20.0 TCDL 10.) Lumber DOL Rep Stress Incr	1.15 BC 0.09 YES WB 0.29	Vert(CT) Horz(CT		- n/a 999 8 n/a n/a		
BCLL 0. BCDL 10.	Code IRC2018		1012(01	, 0.01	0 1//4 1//4	Weight: 71 lb	FT = 10%
LUMBER- TOP CHORD 2x4 SPI BOT CHORD 2x4 SPI WEBS 2x3 SPI OTHERS 2x4 SPI	No.2 No.2 No.2		BRACING- TOP CHORD BOT CHORD	except of	ral wood sheathing directly app end verticals, and 2-0-0 oc purl siling directly applied or 6-0-0 o	ins (6-0-0 max.): 5-6	
(lb) - Max Ho Max Up Max Gr FORCES. (lb) - Max. O TOP CHORD 6-7=-2 BOT CHORD 12-13	12=-160(LC 10), 9=-134(L av All reactions 250 lb or less Comp./Max. Ten All forces 25 64/296, 7-8=-288/298	oint(s) 15, 11, 14 except 8=-394(LC 7) C 11) s at joint(s) 15, 13, 11, 12, 14, 9 except 50 (lb) or less except when shown. D-11=-300/302, 9-10=-300/302, 8-9=-30	8=416(LC 8), 10=3				
 Wind: ASCE 7-16; Vu MWFRS (envelope) g grip DOL=1.60 TCLL: ASCE 7-16; P DOL=1.15); Is=1.0; F surcharge applied to Provide adequate dra 5) All plates are 2x4 MT Gable requires contir 7) This truss has been will fit between the bo Provide mechanical of (jt=Ib) 8=394, 13=224 Beveled plate or shi 11) This truss is design referenced standard 	pable end zone; cantilever left is =25.0 psf (roof LL: Lum DOL= ough Cat C; Partially Exp.; Ce all exposed surfaces with slop- inage to prevent water pondin 20 unless otherwise indicated. uous bottom chord bearing. lesigned for a 10.0 psf bottom designed for a 10.0 psf bottom designed for a live load of 20. titom chord and any other mer connection (by others) of truss i, 10=238, 12=160, 9=134. m required to provide full bear ad in accordance with the 2016 I ANSI/TPI 1.	Isd=91mph; TCDL=6.0psf; BCDL=6.0p and right exposed ; end vertical left and 1.15 Plate DOL=1.15); Pg=20.0 psf; P =1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; M as less than 0.500/12 in accordance w g. chord live load nonconcurrent with any 0psf on the bottom chord in all areas w	d right exposed; Lun f=20.4 psf (Lum DO in. flat roof snow loa th IBC 1608.3.4. • other live loads. • here a rectangle 3-6 g 100 lb uplift at joir 3, 10, 11, 12, 9. • s R502.11.1 and R	nber DOL L=1.15 P d govern: 6-0 tall by ht(s) 15, 1 802.10.2	.=1.60 plate late s. Rain 2-0-0 wide 1, 14 except and	PE-20010188	ene

(www.tpinst.org)

314.434.1200 / MiTek-US.com



FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

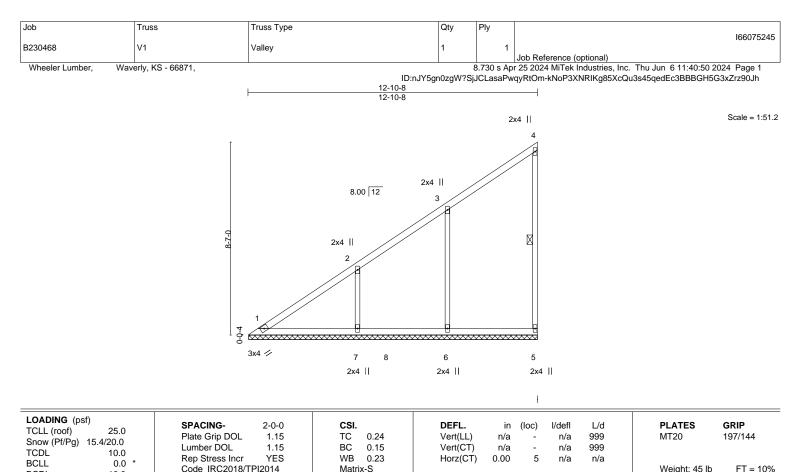
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=127, 6=127.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





lah		Truco	Truco Turo		Otre	Dh					
Job B230468		Truss	Truss Type		Qty 1	Ply 1					166075244
		LAY8	GABLE				Job Refe			TI I 0 11 10 10	
Wheeler Lumber,	Wave	rly, KS - 66871,			D:nJY5gn0zgW?					nc. Thu Jun 6 11:40:49 N1EKLLrZc5NFClvSni8s	
				<u>3-11</u> 3-11							
											Scale = 1:36.4
			Ĭ		3 2x4						
			6-7-3	19.83 12 2x4							
			ů L	2 1 2x4 // 5	~~~~~~	x4					
				2x4	Ш						
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15 TCDL	25.0 5.4/20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.52 BC 0.03	DEFL. Vert(LL) Vert(CT)	in n/a n/a	-	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 *	Rep Stress Incr Code IRC2018/	YES TPI2014	WB 0.05 Matrix-P	Horz(CT)	-0.00	4	n/a	n/a	Weight: 21 lb	FT = 10%
LUMBER- TOP CHORD 22 BOT CHORD 22 WEBS 22		0.2 0.2		тс	RACING- DP CHORD DT CHORD	except e	end vertica	als.	-	י pplied or 3-11-15 oc pt -0 oc bracing.	urlins,
N	Max Horz Max Uplift	1=3-11-15, 4=3-11-15, 5=3- 1=235(LC 7) 1=-163(LC 8), 4=-138(LC 9) 1=266(LC 7), 4=141(LC 6),	, 5=-285(LC 10)								
TOP CHORD	Max. Com 1-2=-315/2 2-5=-248/3) (lb) or less exce	ept when shown.							
MWFRS (enve grip DOL=1.60 2) TCLL: ASCE 7 DOL=1.15); Is= 3) Gable requires 4) This truss has	elope) gable) /-16; Pr=25 =1.0; Roug s continuou been desig	15mph (3-second gust) Va: e end zone; cantilever left a 5.0 psf (roof LL: Lum DOL=1 h Cat C; Partially Exp.; Ce= is bottom chord bearing. gned for a 10.0 psf bottom c	nd right exposed .15 Plate DOL=1 1.0; Cs=1.00; Ct hord live load no	; end vertical left and rigl 1.15); Pg=20.0 psf; Pf=15 =1.10 nconcurrent with any oth	ht exposed; Lun .4 psf (Lum DOI er live loads.	ber DOL	=1.60 plat ate				
will fit between 6) Provide mecha 1=163, 4=138,	the botton anical conn 5=285. esigned in a	signed for a live load of 20.0 n chord and any other mem lection (by others) of truss to accordance with the 2018 lo SI/TPI 1.	bers. bearing plate ca	apable of withstanding 10	00 lb uplift at join	t(s) excep	ot (jt=lb)	le	Å	THE OF MIS	10X
										SCOTT M. SEVIER PE-20010188 PE-20010188	even
										June 7	,2024





BCDL	10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 45 lb	FT = 10
LUMBER- TOP CHORD	2x4 SPF No.2			RACING- OP CHORD	Structural wood sheathing directly ap	nlied or 6-0-0 oc purlins	
BOT CHORD WEBS	2x4 SPF No.2 2x3 SPF No.2			OT CHORD	except end verticals. Rigid ceiling directly applied or 10-0-0	· · · ·	
OTHERS	2x3 SPF No.2 2x3 SPF No.2			EBS	1 Row at midpt 4-5	oc bracing.	

REACTIONS. All bearings 12-10-2.

(lb) - Max Horz 1=233(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=509(LC 19), 7=512(LC 19)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- WEBS 3-6=-299/123, 2-7=-329/130

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;

- MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty		Ply		7	
B230468	V2	Valley	1		1	166075246		
					-	Job Reference (optional)		
Wheeler Lumber,	Wheeler Lumber, Waverly, KS - 66871, 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu Jun 6 11:40:50 2024 Page 1							
		ID:nJY5gn0zgW?SjJCLasaPwqyRtOm-kNoP3XNRIKg85XcQu3s45qebTc3IBD?H5G3xZrz90Jh						

<u>10-1-8</u> 10-1-8

3x4 || 4 8.00 12 2x4 || 3 6-9-0 2x4 || 2 4-0-0 ƙxxx XX 2x4 1/ 7 6 5 2x4 || 2x4 || 2x4 ||

ł LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d PLATES GRIP in (loc) I/defl TCLL (roof) 25.0Plate Grip DOL 1.15 тс Vert(LL) 999 197/144 0.36 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.15 Vert(CT) 999 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) -0.00 5 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 33 lb FT = 10% BCDL 10.0 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 10-1-2.

(lb) - Max Horz 1=253(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-158(LC 10), 7=-112(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=526(LC 21), 7=339(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-337/197

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=158, 7=112.

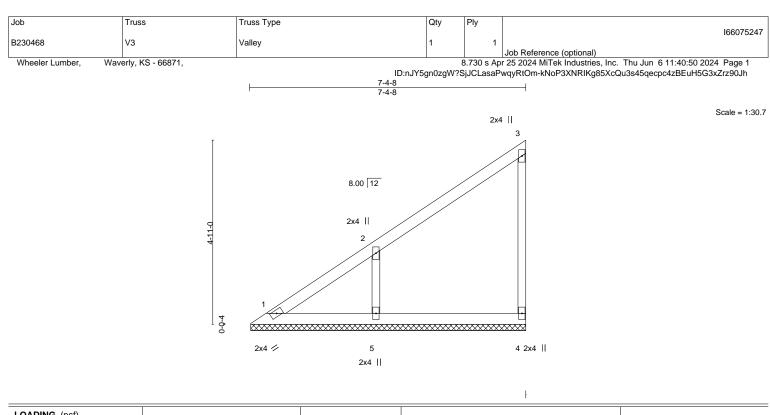
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Scale = 1:40.5





LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.27 BC 0.10 WB 0.06 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	n/a	c) l/defl - n/a - n/a 4 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 23 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2			RACING- DP CHORD	Structural wo	od sheathir	ig directly a	pplied or 6-0-0 oc purlir	ıs,

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

 OTHERS
 2x3 SPF No.2

REACTIONS. (size) 1=7-4-2, 4=7-4-2, 5=7-4-2

Max Horz 1=180(LC 7)Max Uplift 1=-15(LC 6), 4=-40(LC 7), 5=-150(LC 10)

Max Grav 1=118(LC 22), 4=156(LC 21), 5=403(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-316/202

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

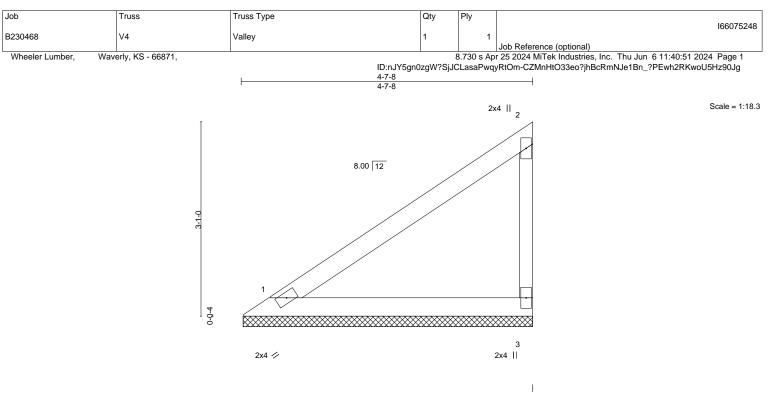
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=150.

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



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LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.31 BC 0.16 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	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: 13 lb	GRIP 197/144 FT = 10%
LUMBER-		BF	ACING-						

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS

2x3 SPF No.2

REACTIONS. 1=4-7-2, 3=4-7-2 (size) Max Horz 1=107(LC 9) Max Uplift 1=-15(LC 10), 3=-53(LC 10) Max Grav 1=182(LC 2), 3=195(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-7-8 oc purlins,

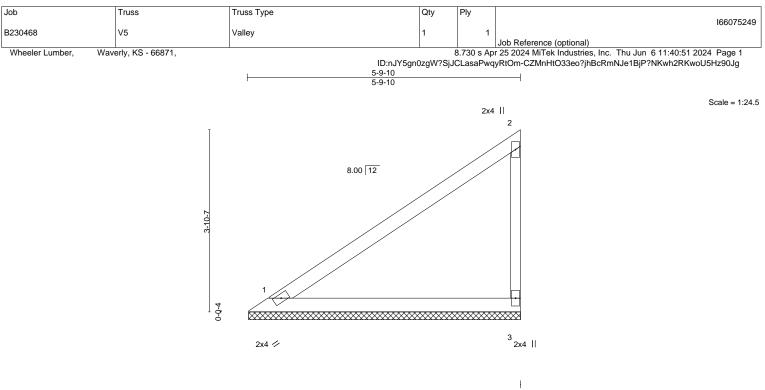
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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



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LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.54 BC 0.29 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	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: 17 lb	GRIP 197/144 FT = 10%
LUMBER-	ER- BRACING-								

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

TOP CHORD

Structural wood sheathing directly applied or 5-9-10 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD

REACTIONS. 1=5-9-4, 3=5-9-4 (size) Max Horz 1=139(LC 7) Max Uplift 1=-20(LC 10), 3=-68(LC 10) Max Grav 1=235(LC 2), 3=252(LC 21)

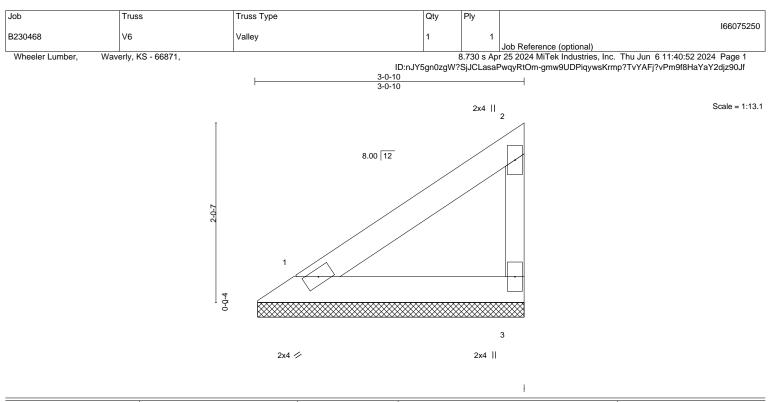
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15.4 TCDL BCLL BCDL	25.0 1/20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.11 0.06 0.00 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	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 197/144 FT = 10%
LUMBER-	R-BRACING-											

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 BOT CHORD WEBS 2x3 SPF No.2

REACTIONS. 1=3-0-4, 3=3-0-4 (size) Max Horz 1=65(LC 7) Max Uplift 1=-9(LC 10), 3=-32(LC 10) Max Grav 1=111(LC 2), 3=119(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



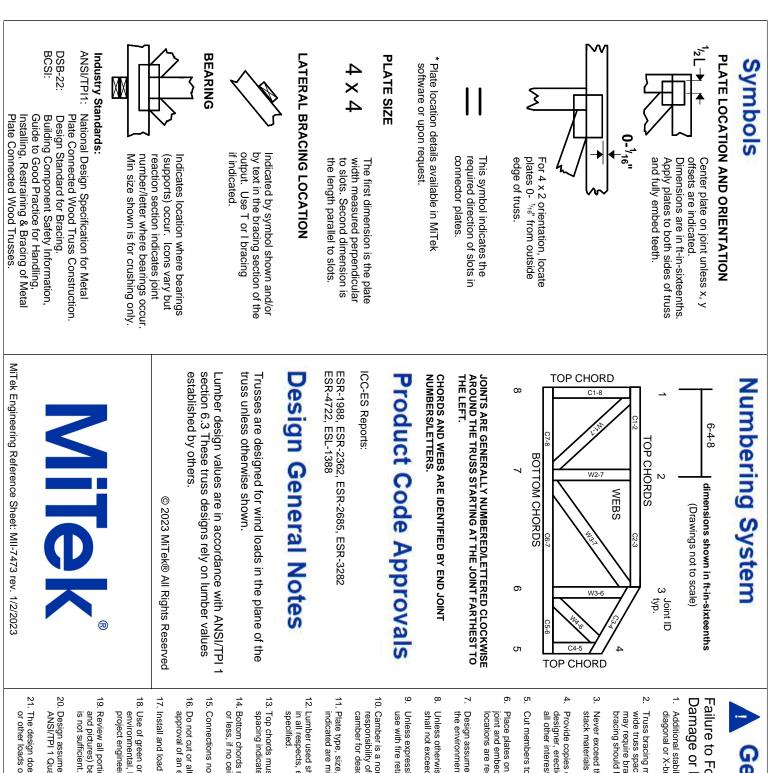
Structural wood sheathing directly applied or 3-0-10 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.







General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.