

MiTek, Inc. RE: B240051 - Lot 146 WO 16023 Swingley Ridge Rd. Site Information: Chesterfield, MO 63017 Project Customer: Summit Homes Project Name: 314.434.1200 Lot/Block: 146 Subdivision: Woodside Ridge Model: Charleston - Prairie Address: 2066 NW O'Brien Rd City: Lee's Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7 Wind Code: ASCE 7-16 [IV/indRSpeced: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf Mean Roof Height (feet): 25 Exposure Category: C No. Seal# Truss Name Date No. Seal# Truss Name Date 164360222 3/21/24 35 36 37 38 39 40 164360256 3/21/24 12345678910112 A1 164360223 A2 164360257 3/21/24 3/21/24 .19 164360224 A3 B1 164360258 J10 J11 3/21/24 164360225 164360259 /21/24 164360226 164360227 B2 B3 164360260 21/24 .112 164360261 J13 164360228 164360229 41 42 B4 164360262 /21/24 J14 164360263 B5 C2 C3 C3 C4 C5 C6 J15 I64360230 I64360231 43 44 45 164360264 J16 3/21/24 Ĵ17 3/21/24 164360265 164360231 164360232 164360233 164360234 164360235 164360236 164360237 164360266 Ĵ18 3/21/24 46 47 3/21/24 164360267 J19 13 14 164360268 J20 3/21/24 48 164360269 J21 3/21/24 15 16 17 18 I64360270 I64360271 J22 J23 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 D1 49012334567890 55555555560 3/21/24 3/21/24 164360238 164360239 J24 J25 164360272 3/21/24 164360273 164360240 164360241 J26 J27 19 20 21 22 23 24 25 26 27 29 30 32 33 33 33 164360274 /21/24 164360275 164360242 164360276 J28 164360243 164360277 164360244 164360278 J30 164360245 164360279 J31 164360246 164360247 164360280 164360281 164360248 164360249 61 62 63 D2 164360282 J1 164360283 J35 164360250 164360251 Ĵ2 164360284 J36 64 65 66 67 J3 164360285 J37 164360252 164360253 164360254 164360255 J4 164360286 J38 J5 164360287 J39 J6 164360288 J40 68 164360289 LAY2

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

Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 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 designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise]

March 21,2024



RE: B240051 - Lot 146 WO

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

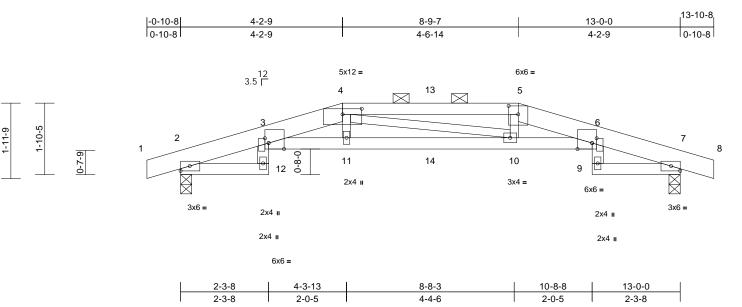
No.	Seal#	Truss Name	Date
69	l64360290	LAY3	3/21/24
70	l64360291	V3	3/21/24
71	l64360292	V4	3/21/24
72	l64360293	V5	3/21/24

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	A1	Hip Girder	1	1	Job Reference (optional)	164360222

Run; 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:08

Page: 1

ID:cmypGrq7giZqfzVbwI67OrznZIG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30

	(X, T): [5:0 + T5;Euge	j, [0.0 1 0,0 1 0], [4.	000,01	12], [0.0 0 0,0	2 10], [0.0 + 0,20	ge], [0.0	10,017]						
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	0.70	Vert(LL)		10-11	>766	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.55	Vert(CT)	-0.36	10-11	>429	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.07	Horz(CT)	0.23	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.17	10-11	>897	240	Weight: 51 lb	FT = 10%
LUMBER TOP CHORD			5		nas been designe m chord in all area			Opsf					
TOP CHORD	2x6 SP 2400F 2.0E No.2	Except 4-5.2x4 SP	Υ Γ		by 2-00-00 wide w			om					
BOT CHORD		ept* 3-6:2x4 SPF 210	00F		ny other members								
WEBS	1.8E 2x3 SPF No.2		6		are assumed to b hanical connectio			0					
BRACING	2X3 SPF N0.2		1		e capable of withs								
TOP CHORD	Structural wood she	athing directly applie	ed or		uplift at joint 7.	0	•						
	4-10-3 oc purlins, ex		8		designed in accor								
	2-0-0 oc purlins (2-9				Residential Code			ind					
BOT CHORD		applied or 9-5-0 oc	9		nd referenced sta Irlin representation			size					
REACTIONS	bracing. (size) 2=0-3-8, 7	7 0 2 9			ation of the purlin								
REACTIONS	Max Horiz 2=28 (LC			bottom chore		-	-						
	Max Uplift 2=-236 (LC		1		other connection								
	Max Grav 2=905 (LC	, , , , , , , , , , , , , , , , , , ,			ficient to support o B lb up at 4-2-9, a								
FORCES	(lb) - Maximum Com				and 73 lb down a								
	Tension				nd 181 lb down ar								
TOP CHORD			o /o 7		3 lb up at 4-6-0, 3								
	4-5=-3110/738, 5-6= 7-8=0/1	-3080/722, 6-7=-36	0/97,		7 lb down and 18			31 lb					
BOT CHORD		68 3-11=-698/3020) lb up at 8-9-7 or tion of such conne								
Bor chord	10-11=-694/3025, 6-			responsibility		ection de	vice(s) is the						
	7-9=-1/19	,			CASE(S) section	. loads a	oplied to the	face				Same	ADDA
WEBS	4-11=-14/146, 4-10=	=-61/193, 5-10=-13/1		,	are noted as front	· ·						G OF I	MIS.C.
NOTES			L	OAD CASE(S)	Standard						4	STATE OF M	N'OC
1) Unbalance	ed roof live loads have	been considered for	r 1)		of Live (balanced)	: Lumber	Increase=1.	15,			H	NATHA	NIEL YP
this design		(a 1 a)		Plate Incre							Ø	FO	x Val
	CE 7-16; Vult=115mph		Det	Uniform Lo	· · ·						B	A IA	A THE
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er				=-70, 3-4=-70, 4-5), 3-6=-20, 7-9=-2		b=-70, 6-8=-7	r0,			8/	Hill ~	
	left and right exposed				o, 3-6=-20, 7-9=-2 ed Loads (lb)	0					0_	A /han	X O WXX
	sed; Lumber DOL=1.6				17 (B), 5=-17 (B),	11=-218	(B) 10=-218	8 (B)			12	MON	BER
• •	dequate drainage to pr				B) 14-37 (B)		(-), 210	,			N,	ON PE-2022	042259 / AS H

- Provide adequate drainage to prevent water ponding. 3)
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13=-17 (B), 14=-37 (B)



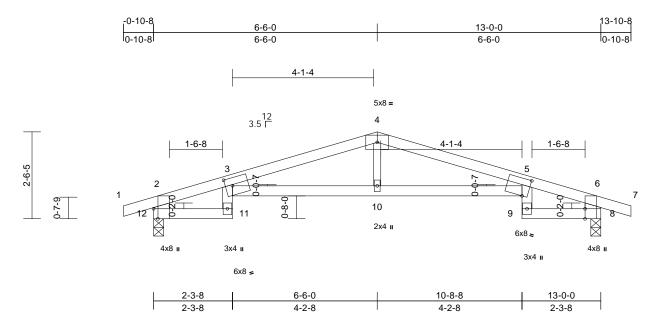
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with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

Plate Offsets (X, Y): [3:0-4-13,Edge], [3:0-1-8,0-1-3], [4:0-6-0,0-1-12], [5:0-3-0,0-2-10], [6:0-4-9,Edge], [6:0-1-8,0-1-7]



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	A2	Roof Special	2	1	Job Reference (optional)	164360223

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:09 ID:k9bxGz6KyZ1oJ85UmNrRkbz4Sea-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:33.5

Plate Offsets (X, Y): [3:0-2-7,0-2-12], [5:0-1-13,0-6-0], [8:0-3-8,Edge], [12:0-3-8,Edge]

												-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.31	3-10	>482	360	MT20	197/144
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.93 0.06	Vert(CT)	-0.57 0.52	3-10	>265 n/a	240		
BCLL BCDL					0.06	- (-)		8	-679	n/a	Waight: 26 lb	FT = 10%
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-R	-	Wind(LL)	0.22	3-10	>679	240	Weight: 36 lb	FI = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x6 SPF No.2 *Exce	pt* 10-4:2x3 SPF N athing directly applie	bearing 12 and 0.2 7) This tru Interna ed or R802.1	mechanical connecti plate capable of with 130 lb uplift at joint 8. ss is designed in acco ional Residential Coc 0.2 and referenced st E(S) Standard	istanding 1 ordance w le sections	30 lb uplift a ith the 2018 8 R502.11.1 a	t joint					
BOT CHORD				(-)								
REACTIONS	 (size) 8=0-3-8, 1 Max Horiz 12=24 (LC Max Uplift 8=-130 (L' Max Grav 8=642 (LC 	C 8) C 5), 12=-130 (LC 4	,									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD		-231/47, 6-7=0/22,										
BOT CHORD		2/106, 3-10=-99/135	58,									
WEBS	4-10=0/194											
NOTES												
this desig 2) Wind: AS Vasd=91r II; Exp C; cantilever	ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC i Enclosed; MWFRS (en left and right exposed osed; Lumber DOL=1.6	(3-second gust) DL=6.0psf; h=25ft; (avelope) exterior zor ; end vertical left an	Cat. ne; d								STATE OF I	MISSOLUR INIEL X

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

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

5) All bearings are assumed to be SPF No.2 .



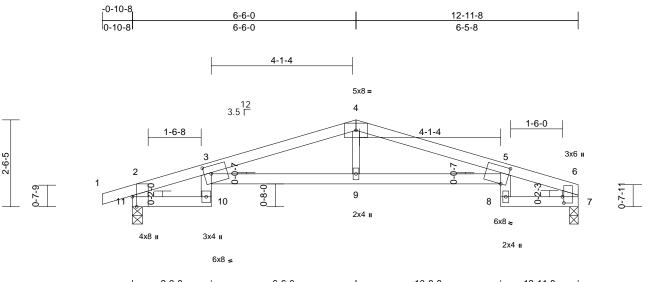
Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	A3	Roof Special	2	1	Job Reference (optional)	164360224

Run; 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:09 Page: 1 ID:CL9JTJ7yjt9fxIggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



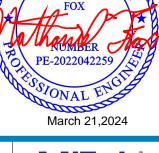


Scale = 1:33.5

Plate Offsets (X, Y): [3:0-2-7,0-2-12], [5:0-1-13,0-6-0], [6:0-2-3,0-0-8], [11:0-3-8,Edge]

					• ·								
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	0.90	Vert(LL)	-0.32	5-9	>475	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.57	5-9	>264	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.06	Horz(CT)	0.53	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R		Wind(LL)	0.23	5-9	>665	240	Weight: 35 lb	FT = 10%
LUMBER			6		chanical connecti	ion (by oth	ere) of trues	to					
TOP CHORD	2x4 SPF 2400F 2.0E	=	U.		e capable of with								
BOT CHORD		-		01	uplift at joint 7.	iotairiairig i	oo io upiire u	, joint					
WEBS	2x6 SPF No.2 *Exce	ent* 9-4·2x3 SPF No	2 7		designed in acc	ordance w	ith the 2018						
BRACING	2.00 0.1 11012 2.000			Internationa	Residential Coc	de sections	R502.11.1 a	and					
TOP CHORD	Structural wood she	athing directly applie	ed or	R802.10.2 a	nd referenced st	andard AN	ISI/TPI 1.						
	2-2-0 oc purlins, ex		L	OAD CASE(S)	Standard								
BOT CHORD													
	bracing.												
REACTIONS	(size) 7=0-3-0, 7	11=0-3-8											
	Max Horiz 11=30 (LC	C 8)											
	Max Uplift 7=-81 (LC	5), 11=-130 (LC 4)											
	Max Grav 7=559 (L0	C 1), 11=643 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=0/22, 2-3=-231/	41, 3-4=-1413/161,											
	4-5=-1413/160, 5-6=	-222/35, 6-7=-620/	105,										
	2-11=-711/153												
BOT CHORD	10-11=-7/56, 3-10=-		66,										
	5-9=-111/1366, 5-8=	=-2/99, 7-8=-6/51											
WEBS	4-9=0/194												
NOTES													
,	ed roof live loads have	been considered fo	or									000	TO
this design		(a 1										STATE OF M	MICON
,	CE 7-16; Vult=115mph	· · · · ·	• •									BAR .	NOSON SCI
	nph; TCDL=6.0psf; BC										6	AT	NUY
	Enclosed; MWFRS (er										R	S/ NATHA	NIEL Y
	left and right exposed										4	FO	X
ngni expo	sed; Lumber DOL=1.6	o plate grip DOL=1.	00								11	A	

- This truss has been designed for a 10.0 psf bottom 3) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 5)



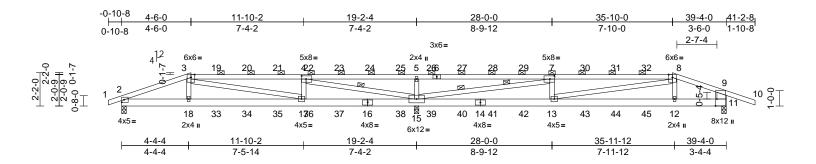
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	B1	Hip Girder	1	1	Job Reference (optional)	164360225

Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10 ID:NSJTn4Fs7FY5I_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [7:0-3-8,0-2-8], [11:0-5-6,0-1-2]

	, , , , , , , , , , , , , , , , , , ,	[7.0 0 0,0 2 0], [11.0	00,012	1									
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.78 0.94	DEFL Vert(LL) Vert(CT)		(loc) 12-13 12-13	l/defl >999 >606	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0*	Rep Stress Incr	NO		WB	0.97	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.20	12-13	>999	240	Weight: 164 I	b FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 *Exce 2100F 1.8E 2x6 SPF No.2 2x4 SPF No.2 *Exce 2.0E Structural wood she	•	DF 3) 4)	Vasd=91mpl II; Exp C; En cantilever lef right expose Provide adeo This truss ha chord live loa	7-16; Vult=115m n; TCDL=6.0psf; E closed; MWFRS t and right expose d; Lumber DOL=1 quate drainage to s been designed ad nonconcurrent	BCDL=6.0 (envelope ed; end v 1.60 plate prevent for a 10.0 with any	Opsf; h=25ft; C e) exterior zon vertical left and e grip DOL=1.6 water ponding 0 psf bottom other live load	ie; d 50 i. ds.	pro dow 8-2- and 14-: and 20-:	vided su vn and 4 -0, 70 lb I 46 lb u 2-0, 70 l I 46 lb u 2-0, 70 l	fficient 6 lb up down p at 12 b dowr p at 18 b dowr b dowr	to support con at $6-2-0$, 70 lb and 46 lb up at 2-2-0, 70 lb down and 46 lb up at 3-2-0, 70 lb down and 46 lb up at and 46 lb up at	evice(s) shall be icentrated load(s) 70 lb o down and 46 lb up at t 10-2-0, 70 lb down vn and 46 lb up at at 16-2-0, 70 lb down vn and 46 lb up at at 22-2-0, 70 lb down
BOT CHORD	4-0-3 oc purlins, ex 2-0-0 oc purlins (4-3	cept end verticals, ar	id 5)	on the bottor 3-06-00 tall b	has been designe n chord in all area by 2-00-00 wide w hy other members	as where vill fit betv	a rectangle		26-: and	2-0, 70 İ I 46 lb u	bdowr pat 30	n and 46 lb up a)-2-0, and 70 lb	vn and 46 lb up at at 28-2-0, 70 lb down o down and 46 lb up at o up at 34-2-0 on top
	1 Row at midpt 2 Rows at 1/3 pts	,	6) 7)	Provide mec bearing plate	are assumed to b hanical connectio capable of withs ft at joint 15 and 3	on (by oth standing 2	ers) of truss to 243 lb uplift at		dov 10-: lb d 20-:	vn at 6-2 2-0, 20 I lown at 2-0, 20 I	2-0, 20 b dowr 16-2-0 b dowr	lb down at 8-2 n at 12-2-0, 20 , 20 lb down at n at 22-2-0, 20	o up at 4-6-0, 20 lb 2-0, 20 lb down at lb down at 14-2-0, 20 18-2-0, 20 lb down at lb down at 24-2-0, 20
	15=-519 (Max Grav 2=884 (LC 15=2221	LC 4) C 21), 11=1017 (LC 2 (LC 1)	8)	International R802.10.2 a	designed in account Residential Code and referenced sta rlin representation	e sections Indard AN	s R502.11.1 a NSI/TPI 1.		30-: and	2-0, 20 l I 139 lb (b dowr down a	n at 32-2-0, and and 57 lb up at	28-2-0, 20 lb down at d 20 lb down at 34-2-0, 35-10-0 on bottom uch connection device
FORCES	(lb) - Maximum Com	pression/Maximum	-,	or the orienta	ation of the purlin				(s) i	is the re	sponsil	bility of others.	
TOP CHORD	Tension 1-2=0/1, 2-3=-1872/4 4-5=-277/1253, 5-7= 7-8=-2062/501, 8-9= 9-11=-711/233	-277/1253,	8,	bottom chorc	1.							TATE OF	MISSO
BOT CHORD	2-18=-389/1700, 17- 15-17=-350/1585, 13 12-13=-256/1242, 1	3-15=-441/2062, 1-12=-248/1234									A		IANIEL T.
WEBS	3-18=0/364, 3-17=-1 4-15=-2896/701, 5-1 7-15=-3360/792, 7-1 8-13=-198/853, 8-12	5=-643/303, 3=-47/263,										athen	IBER PORT
NOTES											N	CA PE-202	2042239 129 0

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

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



March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	B1	Hip Girder	1	1	Job Reference (optional)	164360225

Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10 ID:NSJTn4Fs7FY5I_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 2-11=-20 Concentrated Loads (lb)

Vert: 16=-4 (B), 18=-95 (B), 7=-10 (B), 13=-4 (B),

12=-80 (B), 19=-10 (B), 20=-10 (B), 21=-10 (B),

22=-10 (B), 23=-10 (B), 24=-10 (B), 25=-10 (B),

26=-10 (B), 27=-10 (B), 28=-10 (B), 29=-10 (B),

30=-10 (B), 31=-10 (B), 32=-10 (B), 33=-4 (B), 34=-4

(B), 35=-4 (B), 36=-4 (B), 37=-4 (B), 38=-4 (B), 39=-4 (B), 40=-4 (B), 41=-4 (B), 42=-4 (B), 43=-4 (B), 44=-4 (B), 45=-4 (B)

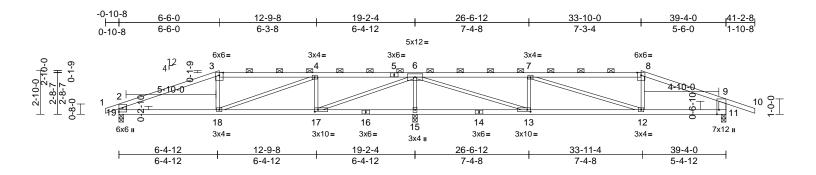
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	B2	Нір	1	1	Job Reference (optional)	164360226

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10 ID:NSJTn4Fs7FY5I_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.6

Plate Offsets	(X, Y): [11:0-3-8,Edge], [13:0-2-8,0-1-8], [1	7:0-2-8,0-	1-8]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		8/TPI2014	CSI TC BC WB Matrix-S	0.72 0.79 0.84	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.20 -0.39 0.00 0.16	12-13 11	l/defl >999 >605 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 127 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	SPF No.2 2x4 SPF No.2 *Exce 2400F 2.0E Structural wood shea 5-8-7 oc purlins, exx 2-0-0 oc purlins (4-3 Rigid ceiling directly bracing. (size) 11=0-3-8, Max Horiz 19=23 (LC Max Uplift 11=-231 (19=-178 (L Max Grav 11=848 (L 19=728 (L	athing directly applie cept end verticals, ar -12 max.): 3-8. applied or 4-6-13 oc 15=0-3-8, 19=0-3-8 C 8) LC 5), 15=-370 (LC 4 LC 4) C 22), 15=2156 (LC C 22))	(4 3) 4) (d or nd 5) (5) (6) 7) (4),	Vasd=91mp II; Exp C; Er cantilever le right expose Provide ade This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a All bearings Provide mee bearing plat 19, 370 lb up	i7-16; Vult=115 h; TCDL=6.0psi h; TCDL=6.0psi closed; MWFR ft and right expc d; Lumber DOL quate drainage as been design m chord in all ar by 2-00-00 widd ny other membe are assumed to chanical connect e capable of wit blift at joint 15 a designed in acc Residential Co	f; BCDL=6.(S (envelope ssed; end v =1.60 plate to prevent v ed for a 10.(nt with any ned for a liv. reas where e will fit betw ers. b be SPF No tion (by oth hstanding 1 nd 231 lb up cordance wi	Dipsf; h=25ft; e) exterior zci ertical left ar grip DOL=1 vater pondin b) psf bottom other live loa e load of 20. a rectangle veen the bott b.2. ers) of truss 78 lb uplift at polift at joint 1 th the 2018	one; nd .60 g. ads. .0psf tom to tt joint 1.					
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/24, 2-3=-1108 4-6=-541/197, 6-7=-1 8-9=-1072/202, 9-10 2-19=-659/213	8/227, 3-4=-981/246, 830/237, 7-8=-937/2	15	Graphical pu		ion does no	t depict the	size					In
BOT CHORD		3-15=-1490/256,									B		AISSOU
WEBS NOTES 1) Unbalanc this desig	3-18=-55/123, 4-18= 6-17=-365/2121, 6-1 6-13=-422/2441, 7-1 7-12=-8/124, 8-12=0 ed roof live loads have n.	5=-1996/448, 3=-601/223,)/176								-		FO	BER 042259

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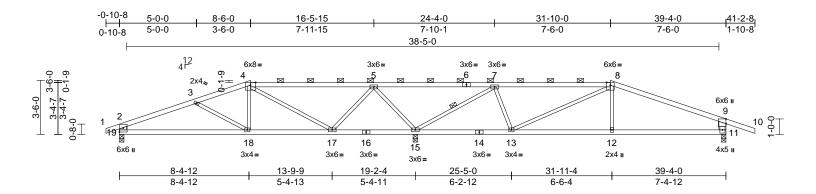


March 21,2024

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	B3	Hip	1	1	Job Reference (optional)	164360227

Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10 ID:rftr_QGUuZgyN8bz0caUMLz4SeN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.7

Plate Offsets (X, Y): [9:0-3-11,Edge]

	(x, 1): [0:0 0 11,Eugo	L.											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES	8/TPI2014	CSI TC BC WB Matrix-S	0.97 0.48 0.96	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.23 0.02	(loc) 18-19 18-19 11 12-13	l/defl >999 >971 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 128 lb	GRIP 197/144 ET = 10%
BCDL	10.0	Code	INCZUI	0/1112014	Wattix-3	-	WIND(LL)	0.07	12-13	>999	240	Weight. 120 lb	FT = 1076
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2100F 1.8E 2x4 SPF No.2 *Exce 2100F 1.8E 2x3 SPF No.2 *Exce No.2 Structural wood she except end verticals (6-0-0 max.): 4-8. Rigid ceiling directly bracing. 1 Row at midpt	apt* 16-14:2x4 SPF apt* 11-9,19-2:2x6 SF athing directly applie , and 2-0-0 oc purlins applied or 6-0-0 oc 7-15 , 15=0-3-8, 19=0-3-8 C 12) [LC 5), 15=-388 (LC 4 (LC 4)	4) d, 5) s 6) 7) 4), 8)	Vasd=91mpi II; Exp C; En cantilever let right expose Provide ade This truss ha chord live loo * This truss h on the botton 3-06-00 tall h chord and an Bearings are 15 SPF 2100 Provide mec bearing plate 19, 388 lb up This truss is	7-16; Vult=115m h; TCDL=6.0psf; lclosed; MWFRS t and right expos d; Lumber DOL= quate drainage to as been designed ad nonconcurrent nas been designed ad nonconcurrent nas been designed ad nonconcurrent nas been designed to ber designed to be: DF 1.8E , Joint 11 hanical connectio e capable of withs blift at joint 15 and designed in accoor	BCDL=6. (envelopused; end v 1.60 plate p prevent v 1 for a 10. t with any ed for a liv as where will fit betw s. Joint 19 § 1 SPF No. on (by oth standing 1 d 223 lb u ordance w	Dpsf; h=25ft; a) exterior zc vertical left ai grip DOL=1 water pondin D psf bottom other live loz e load of 20. a rectangle veen the bott SPF No.2, Jo 2. ers) of truss 64 lb uplift at plift at joint 1 ith the 2018	nne; nd .60 g. ads. 0psf com bint to t joint 1.					
FORCES	4-5=0/336, 5-7=-225 8-9=-866/184, 9-10=	pression/Maximum		Graphical pu		on does no	ot depict the	size				THE OF M	MISS
BOT CHORD	2-19=-558/207 18-19=-196/783, 17- 15-17=-808/107, 13- 12-13=-87/728, 11-1	-15=-191/16,									Å	ST NATHA	INTEL / Y
WEBS NOTES 1) Unbalance this design	3-18=-246/150, 4-18 5-17=-39/776, 5-15= 7-15=-1977/386, 7-1 8-12=0/269 ed roof live loads have	3=0/336, 4-17=-968/1 =-1568/365, 3=0/498, 8-13=-732/	/99,							•		PE-2022	BER 042259
												alle	24.2024

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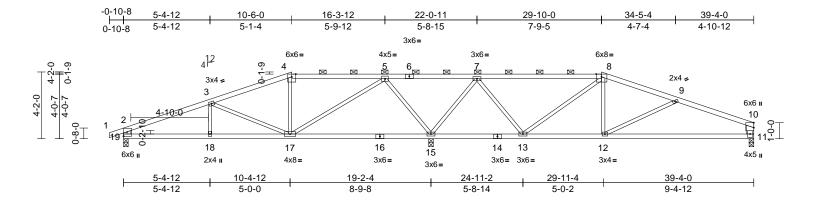


March 21,2024

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	B4	Нір	1	1	Job Reference (optional)	164360228

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10 ID:KrRDCIH6ftop?IAAaK5juYz4SeM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.9

Plate Offsets (X, Y): [10:0-3-11,Edge]

	(, .). [-			-							
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.78			11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.55	Vert(CT)		11-12	>664	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.98	- (-)	-0.01	15	n/a	n/a		
BCDL	10.0	Code		8/TPI2014	Matrix-S	0.00	Wind(LL)		12-13	>999	240	Weight: 131 lb	FT – 10%
	10.0		11(0201	0/11/2014	Matrix 0	-	Wind(LL)	0.00	12 15	2000	240	Weight. 101 lb	11 = 1070
UMBER			2		7-16; Vult=115			-					
FOP CHORD		ept* 6-8:2x4 SPF 21	00F		h; TCDL=6.0psf								
	1.8E				closed; MWFRS								
OT CHORD		ept* 16-14:2x4 SPF			ft and right expo								
	2100F 1.8E	** * * * * * * * * * * *	0.05 2		d; Lumber DOL: quate drainage f								
VEBS	2x3 SPF No.2 *Exce	ept^ 11-10,19-2:2x6											
	No.2 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.												
	o		. 5		has been design								
TOP CHORD	Structural wood she				m chord in all ar			opoi					
	5-4-3 oc purlins, ex 2-0-0 oc purlins (6-0		ina		by 2-00-00 wide		0	tom					
BOT CHORD					ny other membe								
	bracing.	applied of 5-6-2 oc	6		assumed to be		SPF No.2 , Jo	oint					
EACTIONS	0	, 15=0-3-8, 19=0-3-8	, ,	15 SPF 210	0F 1.8E , Joint 1	1 SPF No.	2.						
KEACTIONS	Max Horiz 19=58 (L	· ·	7) Provide med	chanical connect	tion (by oth	ers) of truss	to					
	Max Uplift 11=-92 (L		5)		e capable of with								
	19=-141		<i>)</i> ,	19, 441 lb u	plift at joint 15 ar	nd 92 lb up	lift at joint 11						
	Max Grav 11=570 (. 1)										
	19=649 (1		8	,	designed in acc								
ORCES	(lb) - Maximum Con	,			Residential Co			and					
ONOLO	Tension	iprocolori/maximum	0		nd referenced s								
TOP CHORD		173. 3-4=-417/167.	9		urlin representati ation of the purli			size					
	4-5=-354/137, 5-7=-		454.	bottom chor		in along the	e top and/or						
	8-9=-486/77, 9-10=-		,									0000	TO
	10-11=-463/137, 2-	19=-571/169	L	OAD CASE(S)	Standard							8 OF M	Alson
BOT CHORD	18-19=-171/827, 17	-18=-171/827,										TATE OF M	0.0
	15-17=-1052/274, 1	3-15=-980/229,									6	15	New Y
	12-13=0/428, 11-12	=-138/685									B	S NATHA	NIEL YON
VEBS	3-18=0/158, 3-17=-	583/175, 4-17=-335/	134,								R	FO	X V
	5-17=-196/1344, 5-1	,									2HX	1 Hr	1 TXV
	7-15=-1524/378, 7-1										8/	Att.	
	8-13=-997/193, 8-12	2=0/357, 9-12=-303/	189								Vi -	A / AAA	No Shall
NOTES											127	Ser - more	DER AND
	ed roof live loads have	been considered fo	r								N.	O PE-2022	042259
this desigr	n.										V	The last	158
												N'S'SIG	ENUE
												C'SSIONA	LEY
												an	202
													04 000 4

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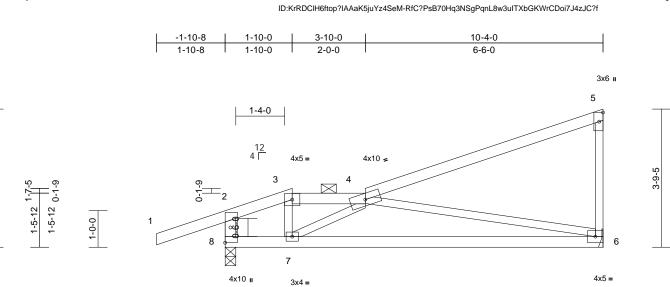


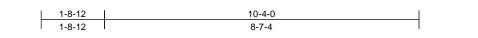
March 21,2024

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	B5	Roof Special Girder	1	1	Job Reference (optional)	164360229

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10







Scale =	= 1:31.5

3-9-5

Ocale = 1.51.5													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.67	Vert(LL)	-0.17	6-7	>714	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.67	Vert(CT)	-0.35	6-7	>341	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.92	Horz(CT)	0.01	6	n/a	n/a		FT 400/
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.04	6-7	>999	240	Weight: 38 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0	' athing directly applie cept end verticals, ar	2 S d or nd 1	 International R802.10.2 ar Graphical pu or the orienta bottom chore Hanger(s) or provided suff down and 34 down and 33 	other connection ficient to support blb up at 1-10-0 blb up at 1-10-0	le sections andard AN on does no n along the n device(s concentra on top cho on bottom	R502.11.1 a ISI/TPI 1. of depict the s top and/or) shall be ated load(s) 5 ord, and 64 ll a chord. The	size 55 lb b					
REACTIONS	(size) 6= Mecha	nical, 8=0-3-8		design/selec responsibility	tion of such conr	nection de	vice(s) is the						
I	Max Horiz 8=164 (LC Max Uplift 6=-94 (LC Max Grav 6=440 (LC	8), 8=-179 (LC 4)		1) In the LOAD of the truss a	CASE(S) section are noted as from			face					
FORCES	(lb) - Maximum Com Tension	,, ()		Dead + Roo Plate Increa	of Live (balanced	d): Lumber	Increase=1.	15,					
TOP CHORD	1-2=0/45, 2-3=-503/3 4-5=-146/31, 5-6=-2	, ,		Uniform Loa		-470 4-4	570 6-8	20					
BOT CHORD WEBS	7-8=-70/426, 6-7=-2 3-7=0/350, 4-7=-578			Concentrate	ed Loads (lb)	4- 70, 4 .	5= 70, 0 0= 7	20					
NOTES				Vert: 7=-	3 (F)								
 Wind: ASC Vasd=91m II; Exp C; E cantilever li right exposition 	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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) Provide adequated drainage to prevent water ponding												

- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SPF No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 6 and 179 lb uplift at joint 8.



111211,202

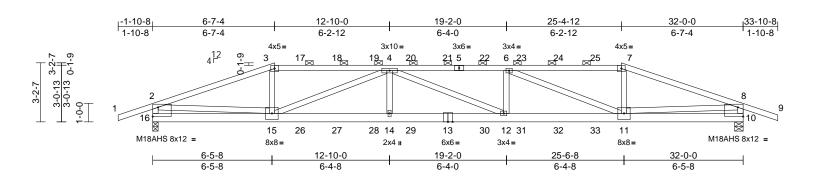
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C1	Hip Girder	1	2	Job Reference (optional)	164360230

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 ID:GEZ_dRINBU2XEbKYhI7Bzzz4SeK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.4

Plate	Offsets	(X.	Y):	[10:Edge,0-6-0], [16:Edge,0-6-0]	

	, i). [10.∟uge,0-0-0], [10.∟uge,0-0-0]											
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.98	Vert(LL)		12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.92	Vert(CT)		12-14	>674	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO		WB	0.60	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC201	18/TPI2014	Matrix-S		Wind(LL)	0.27	12-14	>999	240	Weight: 294 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS (FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) 2-ply truss t (0.131"x3") Top chords oc. Bottom cho staggered a	2x4 SPF No.2 *Exce 1.8E 2x6 SPF No.2 2x4 SPF No.2 Structural wood she 4-3-6 oc purlins, ex 2-0-0 oc purlins (3-4 Rigid ceiling directly bracing. (size) 10=0-5-8, Max Horiz 16=-26 (L Max Uplift 10=-650 (Max Grav 10=2844 (lb) - Maximum Com Tension 1-2=0/45, 2-3=-5945 4-6=-8439/1778, 6-7 7-8=-5955/1229, 8-5 8-10=-2719/663 15-16=-212/821, 14 12-14=-1638/8465, 10-11=-188/818 3-15=-172/1389, 4-1 4-14=0/531, 4-12=-5 6-11=-3263/687, 7-1 2-15=-936/4784, 8-1 to be connected toge nails as follows: a connected as follows:	athing directly applie cept end verticals, ar -5 max.): 3-7. applied or 10-0-0 oc 16=0-3-8 C 9) LC 5), 16=-650 (LC - (LC 1), 16=2844 (LC apression/Maximum 5/1227, 3-4=-5513/11 '=-5522/1188,)=0/45, 2-16=-2713/6 -15=-1698/8465, 11-12=-1676/8439, 15=-3297/694, 98/43, 6-12=0/520, 11=-174/1394, 11=-935/4796 ther with 10d s: 2x4 - 1 row at 0-9-1 ows: 2x6 - 2 rows	2 00F 3 d or 10 4) 7 1) 8 8 87, 362, 9 10 11 11	 All loads are except if note CASE(S) sec provided to c unless othen Unbalanced this design. Wind: ASCE Vasd=91mpf II; Exp C; En cantilever lef right exposed Provide aded All plates are on the bottor 3-06-00 tall b chord and ars on the bottor 3-06-00 tall b chord and ars of Provide mec bearing plate 16 and 650 II This truss is International R802.10.2 ar Graphical put 	considered equal ed as front (F) or b tion. Ply to ply co distribute only load wise indicated. roof live loads hav 7-16; Vult=115mp n; TCDL=6.0psf; E closed; MWFRS (t and right expose d; Lumber DOL=1 quate drainage to e MT20 plates unle is been designed ad nonconcurrent has been designed in chord in all area by 2-00-00 wide w hy other members are assumed to be hanical connection e capable of withst b uplift at joint 10. designed in accor Residential Code nd referenced star rilin representation ation of the purlin a	wack (B) i nnection is noted i ve been of CCDL=6.0 CCDL=6	d to all plies, face in the L0 s have been as (F) or (B), considered for considered for cond gust) Dpsf; h=25ft; a) exterior zo rertical left ar grip DOL=1. water pondin, wise indicate D psf bottom other live load e load of 20.1 a rectangle ween the bott D2.2. ers) of truss 1 50 lb uplift at 50 lb uplift at SI/TP1 1. bt depict the s	DAD or Cat. ne; id 60 g. id ds. Dpsf om to to to to and	13) Ha pro lb c at dov at dov up on 79 at and sel ress LOAD 1) D PI U	nger(s) of vided su Jown and 10-0-0, wn and 8 16-0-0, wn and 8 at 22-00, bb down 12-0-0, bb down 12-0-0, bb down 22-0-0, d 133 lb ection of ponsibili CASE(S ead + Ro alte Incre niform Li	or othe fifcien 1 485 lb 146 lb 55 lb up 146 lb 55 lb up 0, and d, and and and	r connection device up at 8-0-0, 146 down and 85 lb u o at 14-0-0, 146 l down and 85 lb u o at 14-0-0, 146 l down and 85 lb u o at 20-0, and ' 146 lb down and 486 lb down and 486 lb down and 486 lb down and 486 lb down at 24-0. 25-4-12 on bottor connection device thers. ndard e (balanced): Lun 1.5 b/ft) 2-3=-70, 3-7=-70 ads (lb) VTE OF I NATHA FO PE-2022	ce(s) shall be entrated load(s) 146 Ib down and 85 lb up p at 12-0-0, 146 lb b down and 85 lb up p at 18-0-0, 146 lb 146 lb down and 85 lb 185 lb up at 24-0-0 133 lb up at 24-0-0 133 lb up at 6-7-4, 10-0-0, 79 lb down 9 lb down at 16-0-0, at 20-00, 79 lb down -0, and 486 lb down n chord. The design/ e(s) is the nber Increase=1.15, 0, 7-8=-70, 8-9=-70, NIEL X BER 042259

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building design is based only upon 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/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	Lot 146 WO	
B240051	C1	Hip Girder	1	2	Job Reference (optional)	164360230

 $\begin{array}{l} \mbox{Vert: 13=-52 (F), 15=-486 (F), 11=-486 (F), 17=-123} \\ \mbox{(F), 18=-123 (F), 19=-123 (F), 20=-123 (F), 21=-123} \\ \mbox{(F), 22=-123 (F), 23=-123 (F), 24=-123 (F), 25=-123} \\ \mbox{(F), 26=-52 (F), 27=-52 (F), 28=-52 (F), 29=-52 (F), 30=-52 (F), 31=-52 (F), 32=-52 (F), 33=-52 (F) \\ \end{array}$

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 ID:GEZ_dRINBU2XEbKYhI7Bzzz4SeK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

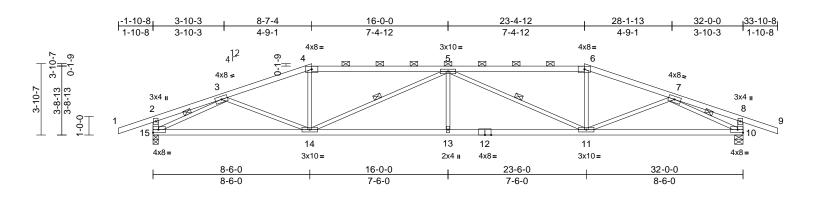
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C2	Нір	1	1	Job Reference (optional)	164360231

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.5

		i					1						· · · · · · · · · · · · · · · · · · ·
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.51	Vert(LL)	-0.25	Ì13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.46	13-14	>825	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.66	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.19	13	>999	240	Weight: 115 lb	FT = 10%
												Ū	
LUMBER			4		s been designed f								
TOP CHORD	2x4 SPF No.2 *Exce	pt* 4-6:2x4 SPF 210			ad nonconcurrent v								
	1.8E		5		as been designed			Opsf					
BOT CHORD					n chord in all area								
WEBS	2x3 SPF No.2 *Exce	ept* 15-2,10-8:2x4 SF	۶F		y 2-00-00 wide wi		veen the botto	om					
	No.2		6		y other members. are assumed to be								
BRACING			-		hanical connection			•					
TOP CHORD			u 01		capable of withst								
	3-0-14 oc purlins, e	,	and		o uplift at joint 10.	anung	or in uplin at	John					
	2-0-0 oc purlins (4-2		8		designed in accord	dance w	ith the 2018						
BOT CHORD	0 0 7	applied of 2-2-0 oc			Residential Code			nd					
WEBS	bracing. 1 Row at midpt	5-14, 5-11, 3-15, 7-1	0		nd referenced star								
REACTIONS			g) Graphical pu	rlin representation	does no	ot depict the s	size					
REACTIONS	(or the orienta	ation of the purlin a	along the	top and/or						
	Max Horiz 15=-35 (L Max Uplift 10=-337 (4)	bottom chord	l.								
	Max Grav 10=1568			OAD CASE(S)	Standard								
			1)										
FORCES	(lb) - Maximum Com	pression/iviaximum											
TOP CHORD	Tension 1-2=0/45, 2-3=-268/	14 2 4 2726/472											
TOP CHORD	4-5=-2541/474, 5-6=	, ,											
	6-7=-2726/472, 7-8=	,											
	2-15=-356/132, 8-10												
BOT CHORD													
	11-13=-517/3366, 10											000	The
WEBS	3-14=-9/499, 4-14=0	/450, 5-14=-1042/23	8,									TE OF M	ALC. D
	5-13=0/274, 5-11=-1	042/237, 6-11=0/450),								- 6	FRE	USS W
	7-11=-9/499, 3-15=-	2362/521,									6	6 Y /	
	7-10=-2362/521										B	S NATHA	NIEL Y
NOTES											R	FO	X \.
1) Unbalance	ed roof live loads have	been considered for									24	1 14	1 Att
this desig											WT	T.I.	II II A
	CE 7-16; Vult=115mph										XL.	AN asia	In Sin 1
	nph; TCDL=6.0psf; BC										123	y - united	DEROYA
	Enclosed; MWFRS (er										N.	OX PE-20220	042259 / 5 4
	left and right exposed sed; Lumber DOL=1.6										V	A.	154
	dequate drainage to pr										6	W SIG	FNUA
5) FIUNICE a	uequale urainage lo pr	event water portuing										C'SSIONA	L
												and	20
												Manala	01 0001

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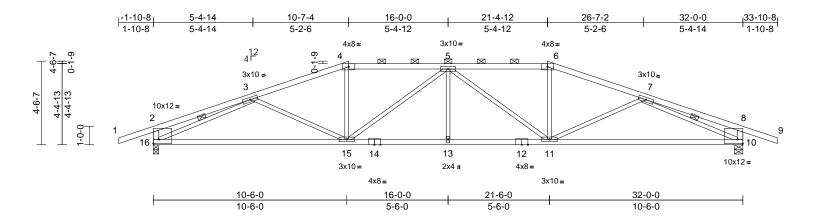


March 21,2024

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C3	Нір	1	1	Job Reference (optional)	164360232

Run; 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 ID:5OwFtUN7mKogyWni2?EbDEz4SeE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.5

Plate Offsets ((X, Y): [2:Edge,0-2-12	1 [10:Edge 0-2-12]											
Fiale Oliseis (, T). [2.Euge,0-2-12], [10.Euge,0-2-12]										r	
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.59 0.68	DEFL Vert(LL) Vert(CT)		(loc) 15-16 15-16	l/defl >999 >704	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC201	8/TPI2014	WB Matrix-S	0.81	Horz(CT) Wind(LL)	0.11 0.15	10 13-15	n/a >999	n/a 240	Weight: 119 lb	FT = 10%
	2x4 SPF 2100F 1.8E SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 2-10-9 oc purlins, e 2-0-0 oc purlins, (3-4 Rigid ceiling directly bracing. 1 Row at midpt (size) 10=0-5-8, Max Horiz 16=47 (LC Max Uplift 10=-328 (Max Grav 10=1568	ept* 16-2,10-8:2x4 SI athing directly applie xcept end verticals, a -14 max.): 4-6. applied or 9-5-1 oc 3-16, 7-10 16=0-3-8 C 12) LC 5), 16=-328 (LC (LC 1), 16=1568 (LC	PF 6) d or 7) and 8) 9)	chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 16 and 328 I This truss is International R802.10.2 a Graphical pu		t with any ed for a liv as where will fit betv s. be SPF 21 on (by oth standing 3 or ordance w e sections andard AN on does no	other live load e load of 20. a rectangle veen the bott 00F 1.8E . ers) of truss 28 lb uplift a ith the 2018 5 R502.11.1 a ISI/TPI 1. ot depict the	ads. Opsf tom to ti joint and					
FORCES	(lb) - Maximum Com Tension 1-2=0/45, 2-3=-403/ 4-5=-2413/436, 5-6= 6-7=-2603/433, 7-8= 2-16=-447/159, 8-10	20, 3-4=-2603/433, =-2413/435, =-403/20, 8-9=0/45,											
BOT CHORD	15-16=-438/2427, 13 11-13=-382/2759, 10											TATE OF M	AISe
WEBS	3-15=-47/243, 4-15= 5-13=0/97, 5-11=-57 7-11=-47/243, 3-16= 7-10=-2350/521	78/171, 6-11=-7/451,	71,								Å	STATE NATHA	INTEL / Y
NOTES	7-10=-2350/521									•	ax		1 Det
 Unbalance this design Wind: ASC Vasd=91m II; Exp C; I cantilever right exposition 	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr	(3-second gust) DL=6.0psf; h=25ft; C ovelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	Cat. e; d 60									PE-2022	ENGI

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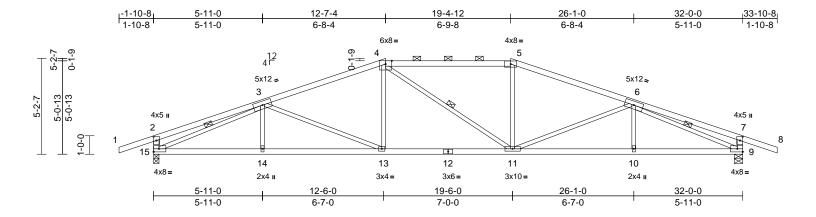
March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C4	Нір	1	1	Job Reference (optional)	164360233

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 ID:5OwFtUN7mKogyWni2?EbDEz4SeE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.6

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

- 1410 0110010 ((,,, :): [2:0 2 0;0 : :2];[::::=]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.93 0.75 0.96	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	0.13	(loc) 13-14 11-13 9 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 119 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	1.8E 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she except end verticals (4-4-1 max.): 4-5. Rigid ceiling directly bracing. 1 Row at midpt	ept* 15-2,9-7:2x4 SPl athing directly applie , and 2-0-0 oc purlin: applied or 9-5-5 oc 4-11, 3-15, 6-9 15=0-3-8 C 9) C 5), 15=-318 (LC 4	5) F ed, 7) s 8) 9)	chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 15 and 318 ll This truss is International R802.10.2 ar Graphical pu		with any d for a liv as where vill fit betv s. e SPF No on (by oth standing 3 rdance w e sections indard AN n does no	other live load e load of 20. a rectangle veen the bot o.2. ers) of truss i18 lb uplift a ith the 2018 i R502.11.1 iSI/TPI 1. ot depict the	.0psf tom to at joint and					
FORCES	(lb) - Maximum Com Tension 1-2=0/45, 2-3=-388/ 4-5=-2251/416, 5-6= 7-8=0/45, 2-15=-457	87, 3-4=-2445/404, =-2446/404, 6-7=-388	3/87,										
BOT CHORD	,	3-14=-386/2547, 0-11=-340/2546, 369/175, 4-13=0/357 1=0/357, 6-11=-368/1	176,								ä	STATE OF M	MISSOUR
this design 2) Wind: ASC Vasd=91n II; Exp C; cantilever right expo	ed roof live loads have	been considered for (3-second gust) DL=6.0psf; h=25ff; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	Cat. le; d 50									PE-2022	BER CHAR

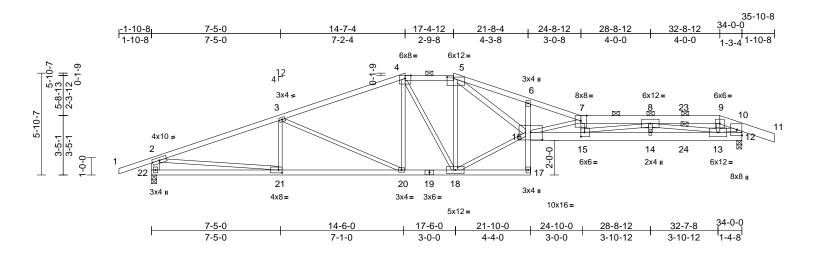
March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C5	Roof Special Girder	1	1	Job Reference (optional)	164360234

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 ID:ZaUd5qOmXewXagMucjlqmSz4SeD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.3

	X, Y): [5:0-4-8,0-1-0]		-	,, 0		-									
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.61	DEFL Vert(LL)	in -0.62	· · ·	l/defl >653	L/d 360	PLATES MT20	GRIP 197/144		
TCDL	10.0	Lumber DOL	1.15		BC	0.81	Vert(LL)	-0.62		>000 >370	240	IVIT20	197/144		
BCLL	0.0*	Rep Stress Incr	NO		WB	1.00	Horz(CT)	0.21	13-10	>370 n/a	240 n/a				
BCDL	10.0	Code		8/TPI2014	Matrix-S	1.00	Wind(LL)	0.43		>936	240	Weight: 163 lb	FT = 10%		
LUMBER		•	W	'EBS	3-21=-114/136,	3-20=-619	210.		10) Har	naer(s) a	or othe	r connection devi	ce(s) shall be		
TOP CHORD	2x4 SPF 2100F 1.8	E *Except* 4-5:2x4 S			4-20=-23/370, 4								entrated load(s) 71		
		400F 2.0E, 9-11:2x6			5-18=-1036/213	3, 16-18=-2	56/2345,		dov	n and 1	27 lb u	up at 29-0-0, and	71 lb down and 12		
	No.2				5-16=-628/4081							nd 71 lb down an			
BOT CHORD		ept* 16-12:2x6 SP 24	400F		7-15=-956/199,			135,					wn and 23 lb up at		
	2.0E				2-21=-287/2309								p at 30-8-0, and 10		
WEBS		ept* 16-5,12-10:2x4			8-15=-445/2792	2, 8-13=-37	196/01						n bottom chord. The n device(s) is the		
	No.2, 22-2:2x6 SPF	- NO.2		OTES						onsibili			in device(s) is the		
		a a thing a diversity on a li			d roof live loads l	have been of	considered to	or					ds applied to the fac		
TOP CHORD		eathing directly applie xcept end verticals, a		this design	E 7-16; Vult=115	mph (2 cor	cond quet)		of the truss are noted as front (F) or back (B).						
	2-9-0 oc purlins, e.		iiu 2)		ph; TCDL=6.0psi			Cat	LOAD						
BOT CHORD		y applied or 10-0-0 o	c		Inclosed; MWFR								nber Increase=1.15		
	bracing, Except:		•		ertical left a			ate Incre							
	8-11-13 oc bracing	: 20-21		right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Un								lb/ft)			
	9-5-12 oc bracing:	15-16.	3)	Provide ad	equate drainage	to prevent	water pondin	g.		Vert: 1-	2=-70,	2-4=-70, 4-5=-70), 5-7=-70, 7-9=-70,		
WEBS	1 Row at midpt	8-13	4)		has been designe				9-10=-70, 10-11=-70, 17-22=-20, 12-16=-20						
REACTIONS	(size) 12=0-3-8	3, 22=0-3-8			oad nonconcurre				Concentrated Loads (lb)						
	Max Horiz 22=117 ((LC 8)	5)		s has been desigi			0psf		Vert: 9=	=30 (F)	, 8=30 (F), 13=52	2 (F), 23=30 (F)		
	Max Uplift 12=-354	(LC 5), 22=-313 (LC	4)		om chord in all a		0								
	Max Grav 12=1524	(LC 1), 22=1651 (LC	C 1)		l by 2-00-00 wide		veen the both	om							
FORCES	(lb) - Maximum Cor	mpression/Maximum	()		any other membe			- : t							
	Tension	•	6)	12 SP 240	re assumed to be	e: Joint 22 3	SPF NO.2 , J	Jint							
TOP CHORD		2/420, 3-4=-2449/35	8, 7)		echanical connec	tion (by oth	ers) of truss	to				Son	alle		
	4-5=-2261/391, 5-6	,	')		te capable of wit							A OF I	MISSO		
	6-7=-5864/857, 7-8				lb uplift at joint 1		io io apiir a	. joint			6	TATE OF I	N.O.		
		0=-2248/356, 10-11=	^{₌0/45,} 8)	 A) This truss is designed in accordance with the 2018 							NATHA	NIEL XP.V.			
	2-22=-1572/350, 10		,		al Residential Co			and			R	FO			
BOT CHORD	21-22=-185/434, 20 18-20=-264/2242, 1			R802.10.2	and referenced s	standard AN	ISI/TPI 1.				8				
	16-17=0/87, 6-16=-		9)		ourlin representat			size			87				
	15-16=-1196/8444,				ntation of the purl	in along the	e top and/or				W	Alkaria	tothe		
	13-14=-839/5776, 1			bottom cho	ord.						V t	ax VUMA	BERU MAC		
											N	PE-2022	012250 184		

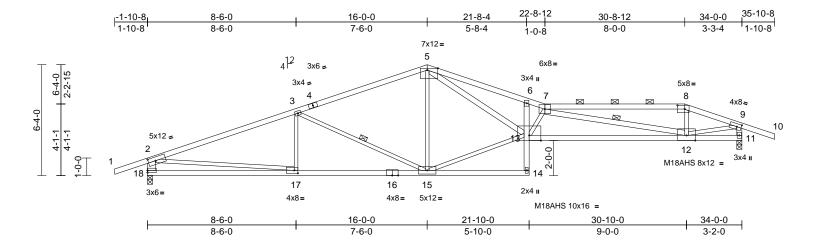


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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C6	Roof Special	1	1	Job Reference (optional)	164360235

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12 ID:CL9JTJ7yjt9fxIggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:65.9

Plate Offsets (X, Y): [2:0-4-15,0-2-8]], [5:0-7-4,Edge], [8:0)-5-0,0-2-8	3], [9:0-3-0,0-2	-0], [17:0-2-8,0-2-0]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.98 0.84 0.97	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.54 -0.98 0.21 0.39	(loc) 13 12-13 11 13	l/defl >743 >411 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 137 lb	GRIP 197/144 142/136 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2100F 1.8E 2x4 SPF No.2 *Exce 1.8E 2x3 SPF No.2 *Exce No.2, 12-7:2x4 SPF SPF No.2 Structural wood sheat except end verticals, (2-2-0 max.): 7-8. Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-3-8, Max Horiz 18=125 (L Max Uplift 11=-318 (M Max Grav 11=1654 ((lb) - Maximum Com Tension	pt* 13-11:2x4 SPF 2 pt* 13-5,11-9:2x4 SF 2100F 1.8E, 18-2:2x athing directly applie , and 2-0-0 oc purlins applied or 6-0-0 oc 3-15, 7-12 18=0-3-8 C 8) LC 5), 18=-297 (LC - (LC 1), 18=1661 (LC pression/Maximum /378, 3-5=-2323/336 -5773/784, -2617/334, 9-10=0/4 17=-380/2749, 4=0/95, 6-13=-190/1 I-12=-20/49 -784/229, 5=-178/2100, 3=-1522/321, 2=0/465,	PF 3) 6 4) 5) d, 6) 7) 8) 4) 9) 1) 9) 5, LC	Vasd=91mpl II; Exp C; En cantilever left right expose Provide ader All plates are This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and are Bearings are 11 SPF 2100 Provide mec bearing plate 18 and 318 I This truss is International R802.10.2 a) Graphical put	hanical connection a capable of withsta b uplift at joint 11. designed in accord Residential Code s nd referenced stand rifn representation ation of the purlin al d.	CDL=6.0 nvelope I; end V 60 plate revent v ss other or a 10.0 vith any for a liv where I fit betw bint 18 \$ (by oth noding 2 vance w sections dard AN does no	Opsf; h=25ft; e) exterior zo vertical left ar grip DOL=1 water pondin wise indicate 0 psf bottom other live loa e load of 20. a rectangle veen the bott SPF No.2, Jo ers) of truss 297 lb uplift a ith the 2018 is R502.11.1 a SI/TPI 1. bt depict the	ne; nd .60 g. ed. ads. Opsf com bint to t joint				STATE OF M NATHA FOI PE-20220	

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

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March 21,2024

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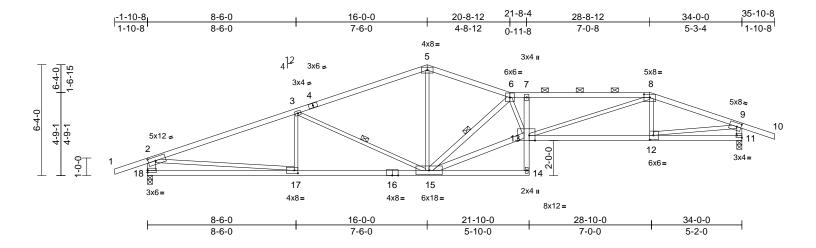
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C7	Roof Special	1	1	Job Reference (optional)	164360236

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12 ID:CL9JTJ7yjt9fxIggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.9

Plate Offsets ((X, Y): [2:0-4-15,0-2-8]], [8:0-4-0,0-2-3], [9:0	0-2-14,0-2	2-8], [11:Edge,0	-1-8], [12:0-2-8	,0-3-0], [13	:0-4-0,Edge],	[17:0-2-	8,0-2-0]				
L oading TCLL (roof) TCDL 3CLL 3CDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.98 0.83 0.85	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.36 -0.66 0.14 0.26	(loc) 13 12-13 11 13	l/defl >999 >610 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 137 lb	GRIP 197/144 FT = 10%
JUMBER FOP CHORD BOT CHORD WEBS BRACING FOP CHORD WEBS REACTIONS FORCES FORCES	2x4 SPF No.2 *Exce 2.0E 2x4 SPF No.2 *Exce No.2, 15-13:2x4 SPF SPF No.2 Structural wood shere except end verticals, (2-2-0 max.): 6-8. Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-3-8, Max Horiz 18=125 (L Max Uplift 11=-318 (I Max Grav 11=1654 ((lb) - Maximum Com Tension 1-2=0/47, 2-3=-2995 5-6=-2281/332, 6-7= 7-8=-4803/694, 8-9= 2-18=-1574/338, 9-1 17-18=-241/557, 15-	pt* 6-8:2x4 SPF 240 pt* 15-6,11-9:2x4 SF 2100F 1.8E, 18-2:2 athing directly applie , and 2-0-0 oc purlins applied or 9-6-0 oc 3-15, 6-15 18=0-3-8 .C 8) LC 5), 18=-294 (LC - (LC 1), 18=1661 (LC pression/Maximum i/373, 3-5=-2308/336 -4692/679, -2879/401, 9-10=0/4 1=-1604/337 17=-375/2751,	2) 0F 2F (x6 3) 4) 4) 5, 1) 9) 5, LC 5, 2)	Wind: ASCE Vasd=91mpH II; Exp C; En cantilever lef right exposed Provide adee This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar All bearings Provide mec bearing plate 18 and 318 I This truss is International R802.10.2 ar Graphical put	7-16; Vult=115 7; TCDL=6.0psf closed; MWFR t and right expc d; Lumber DOL uate drainage is been designe ad nonconcurre has been designe do not all ar hy 2-00-00 wide y other membe are assumed to hanical connect e capable of with designed in acc Residential Co nd referenced s rlin representat ation of the purifi	f; BCDL=6.(S (envelope bsed ; end v = 1.60 plate to prevent v ed for a 10.0 nt with any ned for a 10.0 nt with any ned for a 10.0 nt with any reas where e will fit betw ers. b be SPF Not hstanding 2 11. cordance wi de sections standard AN tion does not	cond gust) opps; h=25ft; exterior zoi ertical left ar grip DOL=1. water pondin;) ps bottom other live load e load of 20.0 a rectangle veen the botti 0.2. ers) of truss i 94 lb uplift al sth the 2018 R502.11.1 a (SI/TPI 1.	Cat. ne; id 60 g. ds. Opsf om to to to		>999		Weight: 137 lb	
WEBS NOTES 1) Unbalance this design	14-15=-19/107, 13-1 12-13=-315/2679, 11 3-17=-51/195, 3-15= 6-15=-2905/455, 13- 6-13=-217/1339, 8-1 8-12=-234/132, 2-17 9-12=-309/2477 ed roof live loads have n.	1-12=-46/219 -798/230, 5-15=-80/ 15=-519/4362, 3=-301/2251, =-192/2203,	983,								6	FO	BER 042259



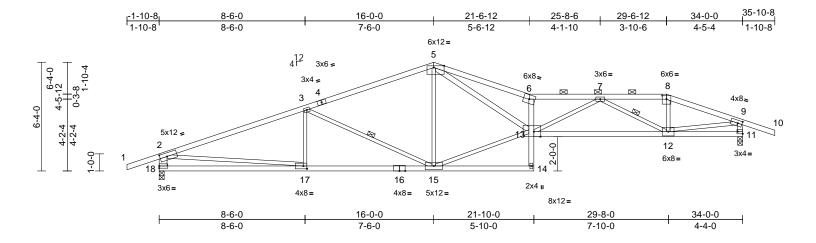
March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C8	Roof Special	1	1	Job Reference (optional)	164360237

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12 ID:CL9JTJ7yjt9fxIggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:67.1

Plate Offsets (X, Y): [2:0-4-15,0-2-	8], [5:0-7-4,Edge], [8:0-3-0,0)-2-8], [9:0-3-0,0-2	e-0], [11:Edge,0-1-	-8], [13:0-/	4-8,Edge], [1	7:0-2-8,0)-2-0]				
Loading (psf) ICCLL (roof) 25.0 ICCDL 10.0 3CLL 0.0* 3CDL 10.0	Spacing2-0-Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC	5	CSI TC BC WB Matrix-S	0.98 0.78 0.96	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.46 -0.83 0.17 0.33	(loc) 6-13 12-13 11 6-13	l/defl >882 >487 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 134 lb	GRIP 197/144 FT = 10%
1.8E 30T CHORD 2x4 SPF No.2 *Exc 1.8E WEBS 2x3 SPF No.2 *Exc No.2, 18-2:2x6 SPF BRACING 500 CHORD FOP CHORD Structural wood ship except end vertical (2-2-0 max.): 6-8. 30T CHORD Rigid ceiling directly bracing. WEBS 1 Row at midpt REACTIONS (size) 11=0-3-6 Max Horiz Max Grav 11=1654 FORCES (lb) - Maximum Cor Tension FOP CHORD 1-2=0/47, 2-3=-299 5-6=-56528/37, 6-7 3-8=-2524/364, 8-9 2-18=-1573/339, 9 30T CHORD 17-18=-241/560, 15	ept* 5-6:2x4 SPF 2100F ept* 13-11:2x4 SPF 2100F ept* 13-5,11-9:2x4 SPF No.2 eathing directly applied, s, and 2-0-0 oc purlins y applied or 9-5-11 oc 3-15, 7-12 , 18=0-3-8 LC 8) (LC 5), 18=-295 (LC 4) (LC 5), 18=-295 (LC 4) (LC 1), 18=1661 (LC 1) npression/Maximum 3/375, 3-5=-2323/336, =-5316/719, =-2754/367, 9-10=0/45, 11=-1613/326 ;-17=-377/2748, 14=0/95, 6-13=-2069/396, 1-12=-38/181 =-784/229, 15=-178/2105, 12=-15/626, 12=-289/2411, 12=-390/330	 Wind: ASCE Vasd=91mp II; Exp C; Er cantilever ler right expose Provide ade This truss h chord live lo * This truss l on the bottol 3-06-00 tall II chord and ai Bearings are 11 SPF 210 Provide mec bearing platt 18 and 318 I This truss is International R802.10.2 a Graphical put 	chanical connection e capable of withs lb uplift at joint 11 designed in accoor I Residential Code und referenced sta urlin representation ation of the purlin d.	BCDL=6.((envelope ed; end v 1.60 plate prevent v for a 10.0 with any d for a liv as where will fit betw s. Joint 18 S on (by oth standing 2 rdance wis e sections indard AN n does no	ond gust))psf; h=25ft;) exterior zoi ertical left ar grip DOL=1. vater ponding: 0 psf bottom other live load e load of 20.0 a rectangle even the botto PF No.2, Jc ers) of truss f 95 lb uplift at th the 2018 R502.11.1 a SI/TPI 1. t depict the s	ne; Id 60 g. Ids. Dpsf om vint i joint				STATE OF M STATE OF M FOI	MISSOLA NIEL BER 042259

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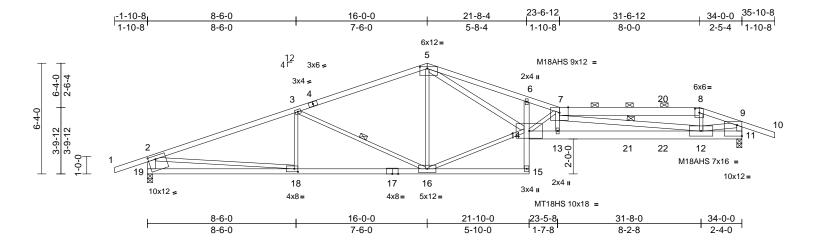


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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C9	Roof Special Girder	1	1	Job Reference (optional)	164360238

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12 ID:CL9JTJ7yjt9fxlggJ5Mgtp24SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:65.9

Plate Offsets ((X, Y): [5:0-5-0,0-1-4],	[8:0-3-0.0-2-11]. [11	1:Edge.0-7	·-8]. [18:0-2-8.0)-2-0]. [19:0-5-0	.0-2-41										
				0],[10:0 2 0,0	1	,0 2 .]										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.89	Vert(LL)	-0.59	14	>684	360	MT20	197/144			
TCDL	10.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-1.06	15	>382	240	M18AHS	142/136			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.99	Horz(CT)	0.21	11	n/a	n/a	MT18HS	197/144			
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.44	14	>920	240	Weight: 157 lb	FT = 10%			
LUMBER			1	Unbalanced	roof live loads h	nave been o	considered fo	or	Ur	Uniform Loads (lb/ft)						
TOP CHORD	2x4 SPF 2100F 1.8E	E *Except* 5-7:2x4 S		this design.					Vert: 1-2=-70, 2-5=-70, 5-7=-70, 7-8=-70, 8-9=-70,							
	2400F 2.0E, 7-8:2x6	SPF No.2, 8-10:2x4	4 2		7-16; Vult=115			_				19=-20, 11-14=-20)			
	SPF No.2				h; TCDL=6.0psf					oncentra						
BOT CHORD		ept* 14-11:2x6 SP 24	100F		closed; MWFR					Vert: 12	=-24 (I	B), 21=-272 (B), 2	2=-3 (B)			
	2.0E				t and right expo d; Lumber DOL											
WEBS	2x3 SPF No.2 *Exce 2100F 1.8E, 19-2:2x	1 /	PF 3		quate drainage											
	11-9,12-9:2x4 SPF		4		e MT20 plates u											
BRACING	11-3,12-3.244 011 1	NO.2	5		is been designe											
TOP CHORD	Structural wood she	athing directly applie			ad nonconcurre			ads.								
	2-5-3 oc purlins, ex				nas been desigr											
	2-0-0 oc purlins (2-1			on the botto	n chord in all ar	eas where	a rectangle									
BOT CHORD	Rigid ceiling directly		0		oy 2-00-00 wide		een the bott	om								
	bracing.			chord and any other members.												
WEBS	1 Row at midpt	3-16, 7-12	7		Bearings are assumed to be: Joint 19 SPF No.2, Joint											
REACTIONS	(size) 11=0-3-8,	, 19=0-3-8	0		SP 2400F 2.0E . rovide mechanical connection (by others) of truss to											
	Max Horiz 19=127 (L	_C 8)	8		e capable of with											
	Max Uplift 11=-428 ((LC 5), 19=-315 (LC	4)		b uplift at joint 1		15 ib upilit a	t joint								
	Max Grav 11=1900	(LC 1), 19=1714 (LC) ₉		designed in acc		th the 2018									
FORCES	(lb) - Maximum Com	pression/Maximum	-		Residential Co			and								
	Tension			R802.10.2 a	nd referenced s	tandard AN	ISI/TPI 1.									
TOP CHORD	1-2=0/47, 2-3=-3123		4, 1)) Graphical pι	Irlin representat	ion does no	t depict the	size					11			
	5-6=-6441/1068, 6-7	,			ation of the purli	n along the	top and/or					O DE M	A A A A A A A A A A A A A A A A A A A			
	7-8=-3080/554, 8-9=			bottom chore								RE OF I	AISSO			
BOT CHORD	2-19=-1627/359, 9-1		1		other connection						4	THE OF N	NS			
BOT CHORD	18-19=-244/592, 16- 15-16=-16/180, 14-1		144		ficient to suppor						H	NATHA	NIEL			
	13-14=-1202/8051,	,	144,		lb up at 29-6-0, on top chord, an						8.	FO				
	11-12=0/106	12 10- 1200/0000,			nd 16 lb down a						N I					
WEBS	3-18=-62/186, 3-16=	-765/243,			ind 44 lb up at						0	I T HI				
	5-16=-348/145, 14-1	16=-237/2212,			election of such						8	1 allani	JAND B			
	5-14=-800/4641, 7-1	,		responsibility			x-7				47	SAM . MON	DER LE			
	7-13=-60/277, 7-12=		1:	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).								042259				
	8-12=-39/563, 2-18=	-235/2288,		of the truss a	are noted as from	nt (F) or ba	ck (B).				V		158			
	9-12=-590/3242		L	LOAD CASE(S) Standard						ENUR						
NOTES			1	LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15,						LEY						
				Plate Incre	Plate Increase=1.15							555				

March 21,2024

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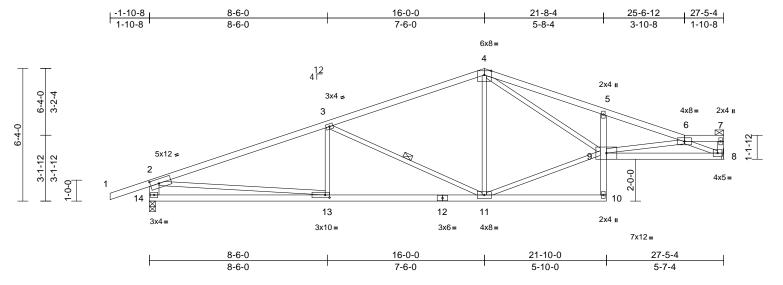
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C10	Roof Special	1	1	Job Reference (optional)	164360239

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12 ID:CL9JTJ7yjt9fxIggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [13:0-2-8,0-1-8]

	(,,, ,). [2:0 : :0;0 2 0], [0,0 . 0]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.85 0.66 0.54	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.30 0.07	(loc) 11-13 11-13 8 11-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 108 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES	 2x4 SPF No.2 2x3 SPF No.2 *Exce 14-2:2x6 SPF No.2 Structural wood she 2-7-9 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt 	athing directly applii cept end verticals, a -0 max.): 6-7. applied or 9-9-7 oc 3-11 ancical, 14=0-3-8 -C 8) C 5), 14=-278 (LC 4 -C 1), 14=1371 (LC	ed or and 4) L	 * This truss on the botto 3-06-00 tall chord and a All bearings Provide mec bearing plate 8 and 278 lb This truss is International R802.10.2 a 		as where will fit betw s. De SPF No truss conr on (by oth standing 1 ordance w e sections andard AN on does no	a rectangle veen the bot o.2. ers) of truss 66 lb uplift a s R502.11.1 SI/TPI 1. ot depict the	tom to at joint and					
TOP CHORD	4-5=-2713/449, 5-6= 7-8=-103/27, 2-14=-	2732/360, 6-7=-11 1286/322 -13=-353/2078,											
WEBS	8-9=-342/2227 3-13=0/232, 3-11=-6 9-11=-151/1351, 4-9 6-9=-16/354, 6-8=-2	345/235, 4-11=-34/2)=-281/1421,									B	144	MISSOL
 this desig Wind: AS Vasd=911 II; Exp C; cantilever right expo 3) Provide a 4) This truss 	ced roof live loads have	been considered fo (3-second gust) DL=6.0psf; h=25ff; vvelope) exterior zor ; end vertical left an 0 plate grip DOL=1. event water ponding r a 10.0 psf bottom	or Cat. ne; id 60 g.								M	PE-20220	BER 042259

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



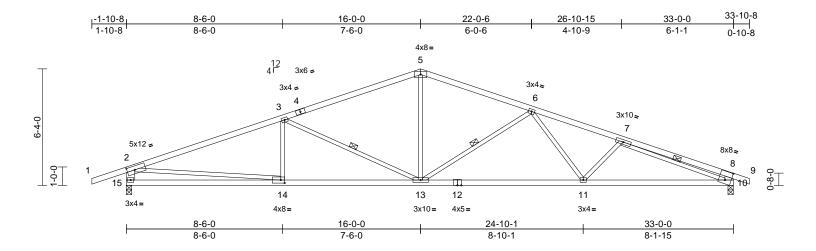
March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C11	Common	1	1	Job Reference (optional)	164360240

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.6

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [8:0-3-15,0-5-10], [14:0-2-8,0-2-0]

	(X, Y): [2:0-4-15,0-2-8	j, [8:0-3-15,0-5-10],	[14:0-2-8,0	J-2-0]									
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	· · ·	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.94	Vert(LL)	-0.22		>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.85	Vert(CT)	-0.49		>792	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.83	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.16	11-13	>999	240	Weight: 119 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x3 SPF No.2 *Exce 10-8:2x6 SP 2400F 3 Structural wood she except end verticals	2.0E athing directly applie	5) 6) ed,	on the bottou 3-06-00 tall I chord and au All bearings Provide mec bearing plate 15 and 264 This truss is	has been designe m chord in all are by 2-00-00 wide w ny other members are assumed to b shanical connection e capable of withs b uplift at joint 10 designed in according	as where will fit betw s. be SPF No on (by oth standing 3). ordance wi	a rectangle veen the bot o.2 . ers) of truss i02 lb uplift a ith the 2018	tom to at joint					
	bracing.				Residential Code			and					
WEBS	1 Row at midpt	3-13, 7-10, 6-13		R802.10.2 a DAD CASE(S)	nd referenced sta	andard AN	ISI/TPI 1.						
REACTIONS FORCES TOP CHORD	Max Horiz 15=-85 (L Max Uplift 10=-264 (Max Grav 10=1538 (lb) - Maximum Com Tension	C 9) LC 5), 15=-302 (LC (LC 1), 15=1615 (LC pression/Maximum //393, 3-5=-2202/32(3023/438,	4) 2 1) 6,										
	8-10=-639/201	0/24, 2-15=-1520/3	+7,										
BOT CHORD													
WEBS	3-14=-52/184, 3-13= 2-14=-209/2097, 7-1 6-13=-801/243, 6-11	0=-2153/269,										THE OF M	AISSO
NOTES	2.0 00.2.0,011										A	144	1 CAN
 Unbalance this design Wind: ASC Vasd=91n II; Exp C; cantilever right expo 	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed ised; Lumber DOL=1.6 has been designed for	(3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1.0	Cat. ne; d									PE-2022	BER DO

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

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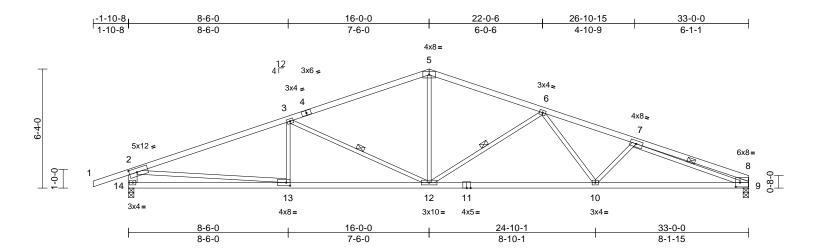
16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C12	Common	1	1	Job Reference (optional)	164360241

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 ID:1m2?IAOOIx2OBqx59QG3Ifz4SeC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.3

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [8:0-2-12,0-2-12], [13:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.94	Vert(LL)	-0.23	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.87	Vert(CT)	-0.50	10-12	>775	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.93	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.16	10-12	>999	240	Weight: 118 lb	FT = 10%
	2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she except end verticals Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie applied or 8-11-13 c 3-12, 6-12, 7-9 14=0-3-8 2 8) C 5), 14=-302 (LC 4	F 5) 6) ed, Doc 7) LC	on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 14 and 216 I This truss is International	has been designed in chord in all area by 2-00-00 wide wi by other members. are assumed to be hanical connectior capable of withst b uplift at joint 9. designed in accorr Residential Code nd referenced star Standard	s where ill fit betw SPF No (by oth anding 3 dance w sections	a rectangle veen the bott o.2. ers) of truss 302 lb uplift a ith the 2018 \$ R502.11.1 a	om to t joint					
FORCES	(lb) - Maximum Com		- /										
TOP CHORD	Tension 1-2=0/47, 2-3=-2882 5-6=-2183/318, 6-7= 7-8=-844/154, 2-14=	-3041/446,											
BOT CHORD	13-14=-205/553, 12- 10-12=-307/2634, 9-												
WEBS	3-13=-53/184, 3-12= 6-12=-802/243, 6-10 2-13=-210/2100, 7-9	-788/235, 5-12=-63/ =-9/402, 7-10=-212/	,									G OF I	AISSO
NOTES											1	TIP	W.O.
 this design Wind: ASC Vasd=91rr II; Exp C; I cantilever right exposition This truss 	ed roof live loads have CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed foi load nonconcurrent wi	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom	Cat. le; d 60									NATHA FO: PE-2022	A Fig

chord live load nonconcurrent with any other live loads.

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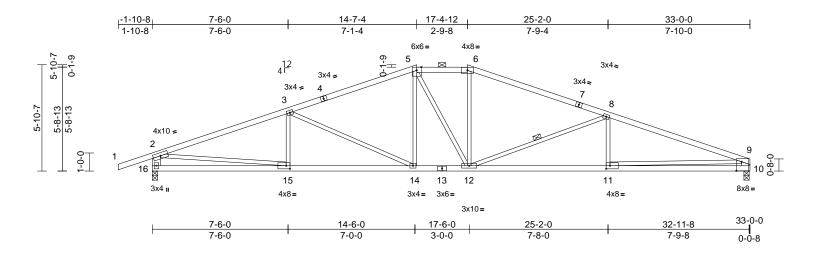


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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C13	Нір	1	1	Job Reference (optional)	164360242

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 ID:1m2?IAOOIx2OBqx59QG3Ifz4SeC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.6

Plate Offsets (X, Y): [10:0-3-8,0-6-0], [11:0-2-8,0-2-0], [15:0-2-8,0-2-0]

Plate Offsets (X, Y): [10:0-3-8,0-6-0	i], [11:0-2-8,0-2-0], [1 -	5:0-2-8,0-	-2-0]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.89 0.86 0.91	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.44 0.09	(loc) 11-12 11-12 10 11-12	l/defl >999 >893 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 123 lb	GRIP 197/144 FT = 10%
	2100F 1.8E 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she except end verticals (3-8-12 max.): 5-6. Rigid ceiling directly bracing. 1 Row at midpt	ept* 16-2,10-9:2x6 SF athing directly applie , and 2-0-0 oc purlin: applied or 9-0-6 oc 8-12 16=0-3-8 C 8) LC 5), 16=-312 (LC - (LC 1), 16=1616 (LC pression/Maximum 9/416, 3-5=-2351/356 2398/373, =-1537/349, -15=-375/2651, 1-12=-417/2995, I=-618/198,	^{id} , 6) s 7) 8) 9) 4) ¹⁾ LG	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 16 and 226 l This truss is International R802.10.2 au Graphical pu		for a 10. with any d for a liv as where ill fit betv e SPF N n (by oth tanding 3 rdance w e sections ndard At n does n	0 psf bottom other live loa re load of 20.1 a rectangle veen the bott o.2. sr312 lb uplift at ith the 2018 s R502.11.1 a SU/TPI 1. ot depict the st	ads. Opsf om to t joint				STATE OF M	NIEL YE Y
this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever	8-12=-909/259, 8-11 9-11=-266/2149 ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and	Cat. e;							1		PE-2022	BER 042259 20 4

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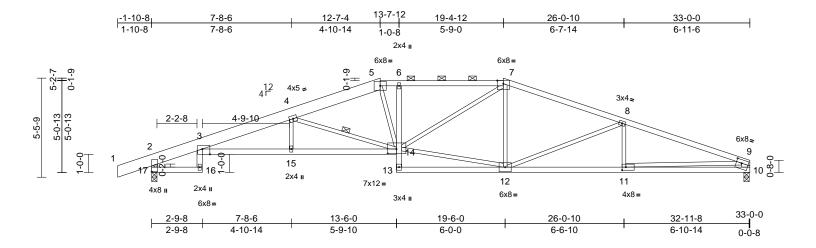
March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C14	Нір	1	1	Job Reference (optional)	164360243

Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 ID:kQ6MqnJ?yoAOsIvIFSeQWBz4SeJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.6

Plate Offsets (2	X, Y): [3:0-5-0,Edge],	[9:0-3-8,0-2-4], [11:	0-2-8,0-2-0	0], [14:0-5-12,0)-3-0]								
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.80	Vert(LL)	-0.39	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.83	Vert(CT)	-0.72	14-15	>544	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.83	Horz(CT)	0.41	10	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.29	14-15	>999	240	Weight: 152 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 *Exce 2.0E 2x4 SPF No.2 *Exce 1.8E 2x3 SPF No.2 *Exce 10-9:2x6 SPF No.2 Structural wood she except end verticals (2-5-7 max.): 5-7. Rigid ceiling directly	ept* 3-14:2x4 SPF 21 ept* 17-2:2x4 SPF No athing directly applie , and 2-0-0 oc purlin	100F b.2, 3) 4) ed, 5) s	Vasd=91mp II; Exp C; Er cantilever le right expose Provide ade This truss ha chord live lo * This truss l on the botto 3-06-00 tall chord and a	7-16; Vult=115m h; TCDL=6.0psf; lclosed; MWFRS ft and right expos d; Lumber DOL= quate drainage to as been designed ad nonconcurrent has been designed n chord in all are by 2-00-00 wide v hy other members are assumed to b	BCDL=6.((envelope ed; end v 1.60 plate prevent v for a 10.(with any ed for a liv as where vill fit betw s.	Dpsf; h=25ft; e) exterior zc vertical left ar grip DOL=1 water pondin 0 psf bottom other live loa e load of 20. a rectangle veen the bott	one; nd .60 ig. ads. .0psf					
	bracing, Except: 8-8-0 oc bracing: 11 1 Row at midpt (size) 10=0-3-8, Max Horiz 17=77 (LC Max Uplift 10=-238 (Max Grav 10=1464	4-14 17=0-3-8 C 8) LC 5), 17=-322 (LC	7) 8) 4)	Provide med bearing plate 17 and 238 I This truss is International R802.10.2 a	hanical connection capable of withs b uplift at joint 10 designed in acco Residential Code nd referenced sta	on (by oth standing 3 ordance w e sections andard AN	ers) of truss 22 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1.	it joint and					
FORCES	(lb) - Maximum Com Tension		ý 9)		Irlin representation ation of the purlin			size					
TOP CHORD	1-2=0/45, 2-3=-483/ 4-5=-3086/486, 5-6= 6-7=-3060/521, 7-8= 8-9=-3249/531, 2-17 9-10=-1381/272	=-3083/516, =-2633/443,	L	DAD CASE(S)								STE OF M	MISSOL
BOT CHORD	16-17=-2/18, 3-16=0 14-15=-613/4154, 13 6-14=-327/148, 12-1 11-12=-457/3014, 10	3-14=0/106, 3=-16/190,	3,									STE OF MATHA	NIEL
WEBS	4-15=-176/119, 4-14 5-14=-142/837, 12-1 7-14=-171/856, 7-12 8-12=-669/220, 8-11 9-11=-320/2267	4=-1373/275, 4=-266/2273, 2=-98/158,										PE-2022	BER 042259

NOTES

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

March 21,2024

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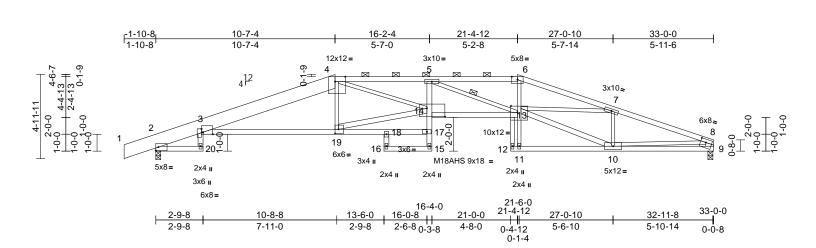
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C15	Нір	1	1	Job Reference (optional)	164360244

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 ID:Ccgk17Kdj5IFTvUxp9Af3Oz4SeI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:68.2

late Offsets ()	X, Y): [3:0-6-14,Edge	9], [3:0-2-7,0-1-2], [4:	0-7-4,Edg	je], [8:0-3-12,0-	2-4], [13:0-4-12,	0-4-8], [14	1-0-12,0-6-0], [19:0-2	2-8,0-3-0	0]			
oading CLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.69	DEFL Vert(LL)	in 0.64	(loc) 13-14	l/defl >609	L/d 360	PLATES MT20	GRIP 197/144
CDL (1001)	25.0 10.0	Lumber DOL	1.15		BC	0.69	Vert(LL) Vert(CT)		13-14	>609 >337	360 240	M120 M18AHS	197/144
CLL	0.0*	Rep Stress Incr	YES		WB	1.00	Horz(CT)	0.57	9	n/a	n/a	WI WI WI W	142/100
CDL	10.0	Code		18/TPI2014	Matrix-S		Wind(LL)		13-14	>820	240	Weight: 165 lb	FT = 10%
UMBER			1) Unbalanced	roof live loads h	ave been o	considered fo	r					
OP CHORD	2x4 SPF 2100F 1.8E	E *Except* 1-4:2x10	SP 2	this design.	7-16; Vult=115r	nnh (2 cor	ond quet)						
OT CHORD	2400F 2.0E 2x4 SPF No.2 *Exce	ept* 3-17.14-13:2x4 S			n; TCDL=6.0psf;			Cat.					
	2100F 1.8E, 13-12:2				closed; MWFRS								
/EBS		ept* 19-14,10-13:2x4	SPF		t and right exposed; Lumber DOL=								
RACING	No.2, 9-8:2x6 SPF N	NO.2	3		quate drainage to								
OP CHORD	Structural wood she	athing directly applie			MT20 plates ur								
		except end verticals, a	and 5		ion Tolerance at								
	2-0-0 oc purlins (2-6		6		is been designed								
OT CHORD		applied or 10-0-0 oc	; 7		ad nonconcurrer has been design								
	bracing, Except:	. 40	1		n chord in all are			Jpsi					
	6-0-0 oc bracing: 15 8-4-8 oc bracing: 13				ov 2-00-00 wide		•	om					
/EBS	•	5-13		chord and ar	y other member	rs.							
	(size) 2=0-3-8.9		8		are assumed to								
	Max Horiz 2=79 (LC	12)	9		hanical connecti								
	Max Uplift 2=-333 (L	C 4), 9=-248 (LC 5)			e capable of with uplift at joint 9.	standing a	33 ID UPIIIT at	joint					
	Max Grav 2=1615 (I	LC 1), 9=1465 (LC 1)) 1		designed in acc	ordance w	ith the 2018						
ORCES	(lb) - Maximum Com Tension	npression/Maximum		International	Residential Coc	le sections	R502.11.1 a	ind					
OP CHORD		/122. 3-4=-3646/561.	1		nd referenced st Irlin representation			izo					
	4-5=-6260/985, 5-6=	, ,	1		ation of the purli			size				and	TOP
	6-7=-5221/838, 7-8=	=-3238/552,		bottom chore		r along the						A OF M	AISO
	8-9=-1386/274		L	OAD CASE(S)							1	7 SE	W.OS
OT CHORD	2-20=0/10, 3-20=0/6			(-)							8	STATE OF M	NIEI X
	,	18=-94/512, 16-18=0	/41,								B	FO	
	15-16=-78/22, 15-17	-890/6468, 12-13=-2	51/0								1 1		
	,	=-1/94, 9-10=-131/70	,								an	11 Lt	
/EBS	4-19=-702/211, 14-1	,									W.L	Thank	VI STan
	5-13=-1659/325, 11										44	an a name	SCR UP
	6-13=-124/1289, 7-1										N.	O PE-2022	042259
	8-10=-355/2314, 10										Ŷ	No.	158
	7-13=-258/1900, 4-1	14=-499/2923									6	VSION.	FNUE
OTES												C'SSIONA	L

March 21,2024

Page: 1

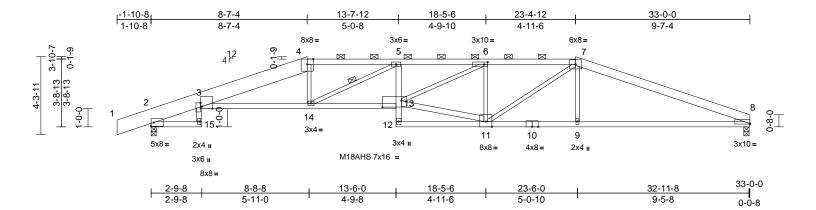
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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/TP11 Quality Criteria**, and **DS8-22** 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	Lot 146 WO	
B240051	C16	Нір	1	1	Job Reference (optional)	164360245

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 ID:Ccgk17Kdj5IFTvUxp9Af3Oz4SeI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.5

Plate Offsets	(X, Y): [3:0-7-2,Edge],	[3:0-2-7 0-0-14] [6:	0-2-8 0-1-	8] [8·Edge 0-0	-6] [13:1-0-8 0-4	-41							
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	oj, [ougo,o o	CSI TC BC WB	0.82 0.68 0.80	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.45 -0.80 0.35	(loc) 12 13-14 8	l/defl >880 >488 n/a	L/d 360 240 n/a	PLATES MT20 M18AHS	GRIP 197/144 142/136
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.35	12	>999	240	Weight: 153 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	No.2, 7-8:2x6 SP 24 2x4 SPF No.2 *Exce 2100F 1.8E 2x3 SPF No.2 *Exce Structural wood she 4-9-15 oc purlins, ep 2-0-0 oc purlins (2-2 Rigid ceiling directly bracing. 1 Row at midpt	100F 2.0E apt* 3-13,10-8:2x4 S apt* 11-13:2x4 SPF I eathing directly applie ccept 2-0 max.): 4-7. r applied or 8-10-5 or 5-14 8=0-3-8 8) .C 4), 8=-258 (LC 5)	PF 6 No.2 ed or 7 8 c 9 1	 This truss ha chord live lo. * This truss h on the botton 3-06-00 tall li chord and an Bearings are SPF 2100F Provide mec bearing plate 8 and 343 lb This truss is International R802.10.2 a Graphical pu 	chanical connection capable of withs uplift at joint 2. designed in accor Residential Cod nd referenced sta urlin representation ation of the purlin	I for a 10.1 t with any ed for a liv as where will fit betv s. Joint 2 SI on (by oth standing 2 ordance w e sections andard AN on does no	D psf bottom other live loa e load of 20. a rectangle veen the bott PF No.2, Joi ers) of truss 258 lb uplift a ith the 2018 is R502.11.1 a JSI/TPI 1. ot depict the	ads. .0psf tom int 8 to tt joint and					
FORCES	(lb) - Maximum Corr Tension	npression/Maximum	L	OAD CASE(S)									
TOP CHORD		-5005/872,	,										
BOT CHORD	,	60, 3-14=-598/3926, 2-13=0/105, 5-13=0/	/338,									ATE OF M	MISSO
WEBS	4-14=-14/445, 5-14= 11-13=-486/3260, 6- 6-11=-1096/272, 7-9	-13=-294/1706,	808							ſ	A	S NATHA	NIEL
this desig 2) Wind: AS Vasd=91r II; Exp C; cantilever right expo	ed roof live loads have	been considered fo (3-second gust) DL=6.0psf; h=25ff; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1.	r Cat. ne; d 60							•		PE-2022	SER 042259

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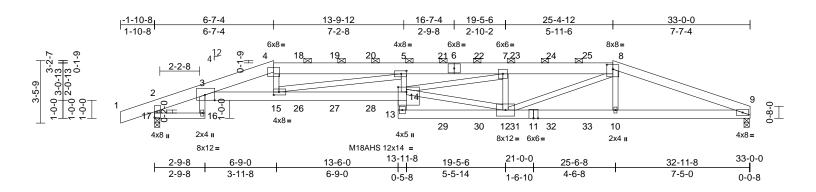


March 21,2024

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C17	Hip Girder	1	2	Job Reference (optional)	164360246

Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:14 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.8

Scale = 1.03.0													
Plate Offsets (2	X, Y): [3:0-6-8,Edge],	, [4:Edge,0-0-0], [5:0-	3-8,0-2-0], [8:0-4-0,0-3-0)], [14:0-5-8,0-3·	-4], [15:0-3	-8,0-2-0]					-	
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.84	DEFL Vert(LL)	in -0.52	(loc) 14-15	l/defl >755	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.98	Vert(CT)		14-15	>415	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO		WB	0.68	Horz(CT)	0.40	9	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.44	14	>897	240	Weight: 403 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x8 SP 2400F 2.0E No.2 2x6 SPF No.2 *Exce No.2, 3-14:2x6 SP 2 2x4 SPF No.2 *Exce 2100F 1.8E Structural wood she 5-4-1 oc purlins, ex 2-0-0 oc purlins (6-0	*Except* 8-9:2x6 SP ept* 17-16,16-3:2x4 S 400F 2.0E ept* 12-14:2x4 SPF athing directly applie cept end verticals, ar 0-0 max.): 4-8. applied or 10-0-0 oc 17=0-3-8 C 8) C 5), 17=-641 (LC 4) _C 1), 17=2955 (LC 1	1) F SPF d or 2, id 3) , 4)	 2-ply truss to (0.131"x3") n Top chords c staggered at oc, 2x4 - 1 rc Bottom chorro 0-9-0 oc, 2x6 Web connec All loads are except if note CASE(S) set provided to c unless othen Unbalanced this design. Wind: ASCE Vasd=91mpf II; Exp C; En cantilever lef 		llows: 2x8 - 2 rows sta s follows: 2 ered at 0-9 2x4 - 1 row ally applied r back (B) connection ads noted nave been of mph (3-sec ; BCDL=6.1 S (envelope sed ; end v	th 10d 2 rows ggered at 0-9 x4 - 1 row at -0 oc. at 0-9-0 oc. d to all plies, face in the LC s have been as (F) or (B), considered fo cond gust) Opsf; h=25ft; (a) exterior zor	-0 DAD r Cat. ne; d	13) Har pro lb d dov at dov up a at 30 at 79 l at sele res LOAD (1) De Pl	nger(s) c vided su lown and 10-0-0, 1 vn and 8 16-0-0, 1 vn and 8 at 22-0- top chord b down 12-0-0, 7 b down 22-0-0, a i 141 lb t ection of ponsibili CASE(S ead + Ro ate Incre	or other fficient d 70 lb 136 lb 55 lb up 146 lb 55 lb up 0, and d, and at 8-0 79 lb d at 8-0 79 lb d at 18- and 79 up at 2 such c ty of ot) Sta pof Live ease=1	r connection devii to support conce up at 8-0-0, 136 down and 70 lb u o at 14-0-0, 146 l down and 85 lb u o at 20-0-0, and ' 146 lb down and 500 lb down and -0, 63 lb down at 13-8-12, ' 0-0, 79 lb down at lb down at 24-0- 25-4-12 on bottom connection device hers. ndard e (balanced): Lun .15	ce(s) shall be entrated load(s) 136 Ib down and 70 lb up p at 12-0-0, 146 lb b down and 85 lb up p at 18-0-0, 146 lb 146 lb down and 85 lb 85 lb up at 24-0-0 137 lb up at 24-0-0 137 lb up at 6-7-4, 10-0-0, 63 lb down 79 lb down at 16-0-0, at 20-0-0, 79 lb down n chord. The design/
TOP CHORD	1-2=0/45, 2-3=-926/2 4-5=-11093/2155, 5- 7-8=-9680/1966, 8-9 2-17=-2984/668 16-17=-5/34, 3-16=0	-7=-14313/2827, 9=-7406/1495,	6) 7)	 Provide adec All plates are This truss ha chord live load 	quate drainage t MT20 plates u s been designe ad nonconcurre	to prevent v nless other d for a 10.0 nt with any	water ponding wise indicate) psf bottom other live loa	g. d. ds.			2=-70, 20, 3-2 ited Lo	2-3=-70, 3-4=-70 14=-20, 9-13=-20 ads (lb)	
	14-15=-2751/14334, 12-13=-286/1306, 10 9-10=-1343/6920	, 13-14=0/210, 0-12=-1341/6877,		on the bottor 3-06-00 tall b chord and ar	has been design n chord in all ar by 2-00-00 wide by other membe	eas where will fit betv rs.	a rectangle veen the botto	om			B	STATE OF M	MISSOUR
WEBS	12-14=-1597/8491, 7 7-12=-2522/705, 8-1 8-10=-32/771, 4-15= 5-15=-3482/774, 5-1	12=-636/3219, =-125/1242,			hanical connect capable of with	tion (by oth	ers) of truss t	0			P/	FO	
NOTES				 This truss is International R802.10.2 ar Graphical pu 	Residential Coo nd referenced s rlin representati ation of the purli	cordance w de sections tandard AN ion does no	R502.11.1 a ISI/TPI 1. ot depict the s					PE-2022	042259 20 A

March 21,2024

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

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	C17	Hip Girder	1	2	Job Reference (optional)	164360246

 $\begin{array}{l} \mbox{Vert: 14=-52 (B), 10=-550 (B), 15=-500 (B), 5=-123 \\ \mbox{(B), 18=-113 (B), 19=-113 (B), 20=-113 (B), 21=-123 \\ \mbox{(B), 22=-123 (B), 23=-123 (B), 24=-123 (B), 25=-123 \\ \mbox{(B), 26=-63 (B), 27=-63 (B), 28=-63 (B), 29=-52 (B), 30=-52 (B), 31=-52 (B), 32=-52 (B), 33=-52 (B) \\ \end{array}$

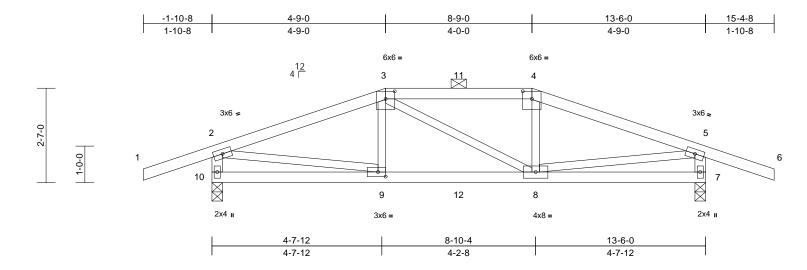
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:14 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	D1	Hip Girder	1	1	Job Reference (optional)	164360247

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:14 ID:VybNWWP03FAFp_WHj7oIrtz4SeB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:31.5

Plate Offsets (X, Y): [3:0-3-0,0-2-8], [4:0-3-0,0-2-8], [9:0-2-8,0-1-8]

	(X, 1). [0.0 0 0,0 2 0]	, [4.0 0 0,0 2 0], [0.0	2 0,0 1 0	<u>ا</u> ر									
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.45	DEFL Vert(LL)	in -0.05	(loc) 8-9	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 NO		BC WB	0.47 0.44	Vert(CT) Horz(CT)	-0.09 0.01	8-9 7	>999 n/a	240 n/a		
BCDL	10.0	Code		18/TPI2014	Matrix-S	0.44	Wind(LL)	0.01	8-9	>999	240	Weight: 51 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this desig 2) Wind: ASC Vasd=91n II; Exp C; cantilever right expo 3) Provide ac 4) This truss chord live 5) * This truss on the bot 3-06-00 ta	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 4-5-4 oc purlins, ex 2-0-0 oc purlins (4-5 Rigid ceiling directly bracing. (size) 7=0-3-8, 7 Max Horiz 10=-16 (L Max Uplift 7=-289 (L Max Grav 7=1063 (I (lb) - Maximum Com Tension 1-2=0/45, 2-3=-1536 (4-5=-1536/333, 5-6= 5-7=-1011/309 9-10=-42/133, 8-9=- 3-9=0/220, 3-8=-61/ 2-9=-266/1290, 5-8= ed roof live loads have	athing directly applie cept end verticals, ai -4 max.): 3-4. - applied or 10-0-0 oc 10=0-3-8. C 19) C 5), 10=-289 (LC 4 -C 1), 10=1063 (LC - 	6 7 F 8 ed or 9 c 1) 1) 3, 1 09, 1 1) 26 1 r Cat. e; d 50 i. ds. ipsf	 All bearings Provide mec bearing plate 10 and 289 I This truss is International R802.10.2 a Graphical pu or the orienta bottom choror Hanger(s) or provided suf down and 64 up at 6-9-0, top chord, ar Ib down a 8-8-4 on bott connection c In the LOAD of the truss a OAD CASE(S) Dead + Roy Plate Increas Uniform Lo Vert: 1-2 7-10=-20 Concentrat Vert: 4=- 	are assumed to I hanical connectii e capable of with b uplift at joint 7. designed in acco Residential Cod nd referenced star riln representatic ation of the purlir d. other connection ficient to support I bu pat 4-9-0, and 90 lb down a to 6-9-0, and 227 tom chord. The device(s) is the re CASE(S) section are noted as from Standard of Live (balanced ase=1.15 ads (lb/ft) =-70, 2-3=-70, 3-	on (by oth standing 2 ordance w e sections andard AN on does no a along the n device(s concentra and 90 lb and 64 lb nd 50 lb u ' lb down a design/sel esponsibili n, loads at t (F) or ba	 b.2. ers) of truss ers) of depict the to depict the to p and/or) shall be ted load(s) § down and 62 up at 8-9-0 of p at 4-9-0, and 50 lb up ection of suc ty of others. oplied to the ck (B). 	to t joint and size 20 lb 21 b on and at th face 15, 70,				THE OF I STATE OF I NATHA FØ PE-2022	MISSOLUTE NIEL BER 042259 SOLUTE LENGINS

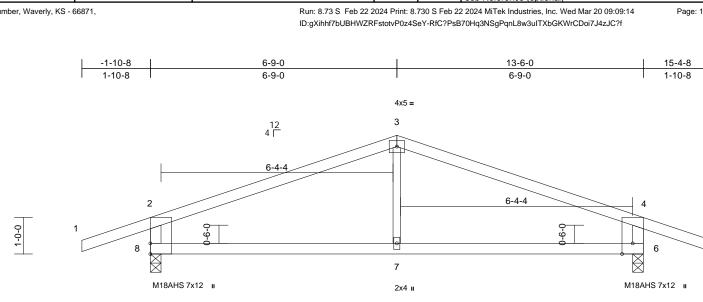
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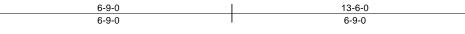
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March 21,2024

Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	D2	Common	2	1	Job Reference (optional)	164360248





Scale = 1:31.5

3-3-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.81	Vert(LL)	-0.09	(.00)	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.17	7	>932	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a		112/100
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.04	7-8	>999	240	Weight: 40 lb	FT = 10%
LUMBER			This truss is	designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			Residential Cod			and					
BOT CHORD	2x4 SPF No.2			ind referenced sta	andard AN	ISI/TPI 1.						
WEBS	2x4 SPF 2100F 1.8E No.2	E *Except* 7-3:2x3 S	SPF LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	5-1-14 oc purlins, e	xcept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS	()											
	Max Horiz 8=25 (LC											
	Max Uplift 6=-176 (L											
	Max Grav 6=736 (L0											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=0/45, 2-3=-757/ 4-5=0/45, 2-8=-644/	, ,										
BOT CHORD	7-8=-22/631, 6-7=-2	,										
WEBS	3-7=0/245											
NOTES												
	ed roof live loads have	been considered fo	r									
this design												
	CE 7-16; Vult=115mph										~	~
	nph; TCDL=6.0psf; BC										A	and
	Enclosed; MWFRS (er										F. OF	MISSO
	left and right exposed									4	TATEOF	N.S.
0 1	sed; Lumber DOL=1.6 are MT20 plates unles									H	S NATH	ANIEL CR
, ,	has been designed for		u.							y	FC	
	load nonconcurrent wi		ds.							10 A	110	1 ATT
	s has been designed f									WT		
on the bott	tom chord in all areas	where a rectangle	-							XL	AKAAN	
	II by 2-00-00 wide will	fit between the botto	om							YX-		BER
	any other members.									N.	ON PE-2022	2042259
	s are assumed to be		_							Y	No.	15A
	echanical connection (ate capable of withstar									ß	S'SIONA	TENS
	Ib uplift at joint 6.	ioning 170 ib uplitt at	joint								UN P	
0 4.14 170											and and	h 04 0004

March 21,2024

5

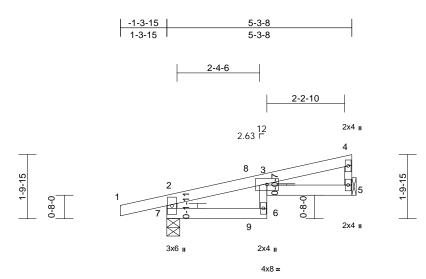
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	164360249

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries Inc. Wed Mar 20 09:09:14 ID:cEuy8DQogFHfalv3w9V90gznZlo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale - 1.33

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	0.56	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.11	6	>556	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	6	>999	240	Weight: 15 lb	FT = 10%

LU	IVI	D		n
τo		\sim	÷ 1	-

TOP CHORD	284 325 1	N0.Z							
BOT CHORD	2x4 SPF I	No.2 *Except* 6-3:2x3 SPF No.2							
WEBS	2x4 SPF I	2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2							
BRACING									
TOP CHORD	Structural	wood sheathing directly applied or							
	5-3-8 oc p	ourlins, except end verticals.							
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc							
	bracing.								
REACTIONS	(size)	5= Mechanical, 7=0-4-7							
	Max Horiz	7=58 (LC 5)							

Max Uplift 5=-42 (LC 8), 7=-108 (LC 4) Max Grav 5=212 (LC 1), 7=344 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-7=-335/126, 1-2=0/22, 2-3=-86/0,

3-4=-79/13, 4-5=-145/45 BOT CHORD 6-7=-2/20, 3-6=0/67, 3-5=-13/72

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 108 lb uplift at joint 7 and 42 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- provided sufficient to support concentrated load(s) 6 down and 25 lb up at 2-4-3, and 79 lb down and 30 lb up at 3-0-6 on top chord, and 4 lb down and 4 lb up at 2-4-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20 Concentrated Loads (lb)

Vert: 3=-3 (B), 9=4 (F)



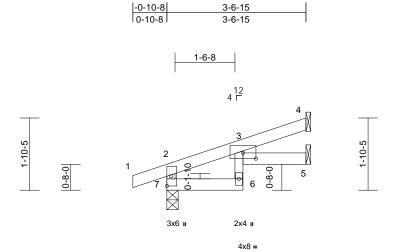
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only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

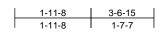


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J2	Jack-Open	3	1	Job Reference (optional)	164360250

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:14 ID:B12G5K8xP?2YUcNuHb6XGXznZnR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3-6-15

Scale = 1:29.6

Plate Offsets (X, Y): [3:0-4-0,0-1-12]

·`		-										
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.21	Vert(LL)	-0.01	(.00)	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 10 lb	FT = 10%
-											Ŭ	
LUMBER				designed in accor								
TOP CHORD				Residential Code			and					
BOT CHORD		ept* 6-3:2x3 SPF No.	_	and referenced star	ndard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S	Standard								
BRACING												
TOP CHORD		athing directly applie	d or									
	3-6-15 oc purlins, e											
BOT CHORD												
	bracing.											
REACTIONS	· · ·	anical, 5= Mechanica	Ι,									
	7=0-3-8	4)										
	Max Horiz 7=57 (LC 4) Max Uplift 4=-33 (LC 8), 5=-6 (LC 8), 7=-62											
	(LC 4)	5 0), 5=-0 (LC 0), 7=-	02									
	Max Grav 4=87 (LC	1) 5=57 (I C 1) 7=2	32									
	(LC 1)	1), 0-01 (20 1), 1-2	.02									
FORCES	(lb) - Maximum Con	npression/Maximum										
	Tension											
TOP CHORD	2-7=-225/83, 1-2=0/	22, 2-3=-58/0, 3-4=-2	16/24									
BOT CHORD	6-7=-5/10, 3-6=-2/4	4, 3-5=-10/5										
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second aust)										
	nph; TCDL=6.0psf; BC		Cat.									
II; Exp C;	Enclosed; MWFRS (er	nvelope) exterior zon	e;								TATE OF	A COL
	left and right exposed										F.OF.	MISS D
	sed; Lumber DOL=1.6		60							4	A	N.S.
	has been designed fo									H	S NATHA	NIEL YP
	load nonconcurrent w									B	FO	
,	s has been designed t		pst							71 4		
	tom chord in all areas all by 2-00-00 wide will		~							an		4.8
	any other members.	III between the botto								VI.L	ALLAN	al stient
	gs are assumed to be	SPE No 2								W.	W Y WMM	BOR O MAN
	irder(s) for truss to tru									N	O PE-2022	042259 128
	echanical connection)							V	15	18B
	ate capable of withsta										138 M	TNO'B
7, 33 lb up	olift at joint 4 and 6 lb ι	plift at joint 5.									SIONA	LEY
											an	The
											Marok	21 2024

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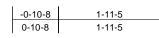
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March 21,2024

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J3	Jack-Open	2	1	Job Reference (optional)	164360251

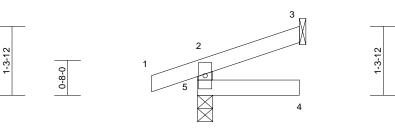
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:UeVK8XR?IN49MICVheY9EbznZn3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1-11-5



3x6 II

Scale = 1:21.9

Scale = 1.21.9											
Loading (ps TCLL (roof) 25. TCDL 10. BCLL 0. BCDL 10.	0 Plate Grip DOL 0 Lumber DOL 0* Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.11 0.11 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.01 0.00	(loc) 4 4 3 4	l/defl >999 >547 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 10%
BOT CHORD Rigid ceiling dire bracing. REACTIONS (size) 3= Me Max Horiz 5=36	sheathing directly applia s, except end verticals. ctly applied or 10-0-0 or echanical, 5=0-3-8 (LC 4) (LC 4), 5=-59 (LC 4)										
 FORCES (Ib) - Maximum Tension TOP CHORD 2-5=-136/81, 1-2 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115 Vasd=91mph; TCDL=6.0psf II; Exp C; Enclosed; MWFRS cantilever left and right expoor ight exposed; Lumber DOL: 2) This truss has been designe chord live load nonconcurrer 3) * This truss has been designe on the bottom chord in all at 3-06-00 tall by 2-00-00 wide chord and any other member 4) All bearings are assumed to 5) Refer to grider(s) for truss to 6) Provide mechanical connect bearing plate capable of with 	BCDL=6.0psf; h=25ft; (\$ (envelope) exterior zor sed; end vertical left an =1.60 plate grip DOL=1.1 d for a 10.0 psf bottom t with any other live load ed for a live load of 20.0 eas where a rectangle will fit between the bottor rs. be SPF No.2. truss connections. ion (by others) of truss t	ne; d 60 ds. Dpsf om						-		STATE OF NATH FC	AINTEL VY
 5 and 19 lb uplift at joint 3. 7) This truss is designed in acc International Residential Co R802.10.2 and referenced s LOAD CASE(S) Standard 	le sections R502.11.1 a	nd							W.	PE-2022	2042259 5 6 AL ENGLAS

March 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J4	Jack-Open	2	1	Job Reference (optional)	164360252

1-2-0

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:nGyPAkj26l5IF_265hzoCeznZmh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

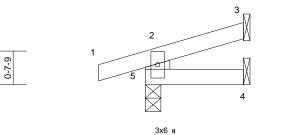
1-2-0

Page: 1





1-10-0



Scale	· - ·	1.21	6

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER			LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF No.2		(-)									
BOT CHORD												
WEBS	2x6 SPF No.2											
BRACING	.											
TOP CHORD	Structural wood she		ed or									
BOT CHORD	1-10-0 oc purlins, except end verticals. 3OT CHORD Rigid ceiling directly applied or 10-0-0 oc											
201 0110112	bracing.											
REACTIONS		anical, 4= Mechanica	al,									
	5=0-3-8	1)										
	Max Horiz 5=30 (LC Max Uplift 3=-20 (LC											
	Max Grav 3=37 (LC		176									
	(LC 1)	,, (,, -										
FORCES	(lb) - Maximum Corr	pression/Maximum										
TOP CHORD	Tension 2-5=-152/76, 1-2=0/	22 2 2 2 24/7										
BOT CHORD	,	22, 2-3=-21/7										
NOTES	4 0=0/0											
	CE 7-16; Vult=115mph	(3-second aust)										
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; 0										
	Enclosed; MWFRS (er											
	left and right exposed sed; Lumber DOL=1.6											an
	has been designed fo		00								ATEOF	MIC
	load nonconcurrent wi		ds.							9	8 TE	10°0
,	s has been designed f)psf							A	NATH.	
	tom chord in all areas									A	S NATH	
	all by 2-00-00 wide will any other members.	fit between the botto	om							R3	FC I PC	
	gs are assumed to be	SPF No.2 .								87		A PAN
	irder(s) for truss to tru									81	alkass	
	echanical connection									103	NUN	IBER
	ate capable of withstar b uplift at joint 3.	nding 67 lb uplift at j	oint							N.	ON PE-2022	2042259
	is designed in accorda	ance with the 2018								Y	PE-202	154
	nal Residential Code s		nd								ESSION/	LENA
R802.10.2	2 and referenced stand	lard ANSI/TPI 1.									Qui	The second second
												h 21,2024
											inaro	

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J5	Jack-Closed Supported Gable	1	1	Job Reference (optional)	164360253

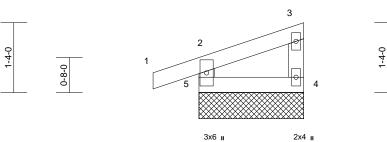
Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









2-0-0

Scale = 1:22

Scale = 1:22													
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.07	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.07	Vert(CT)	n/a	_	n/a	999	101120	13//144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI		Matrix-R							Weight: 7 lb	FT = 10%
LUMBER TOP CHORD 2x4 SPI BOT CHORD 2x4 SPI WEBS 2x4 SPI BRACING TOP CHORD Structur 2-0-0 0 BOT CHORD Structur 0 BOT CHORD Rigid ca bracing REACTIONS (size) Max Hori Max Upli Max Grav FORCES (lb) - Ma Tensior TOP CHORD 2-5=-15 BOT CHORD 4-5=-15 NOTES 1) Wind: ASCE 7-16; V Vasd=91mph; TCDI II; Exp C; Enclosed; cantilever left and ri right exposed; Lumi 2) Truss designed for only. For studs exp see Standard Indus or consult qualified I 3) Gable requires cont 4) Truss be fully she braced against later 5) Gable studs spaced 6) This truss has been chord live load nonc 7) * This truss has been on the bottom chorc	F No.2 F	athing directly applie cept end verticals. applied or 10-0-0 oc 5=2-0-0 7) 5.5), 5=-65 (LC 4) 1), 5=170 (LC 1) pression/Maximum 23, 2-3=-35/6, 3-4=-4 (3-second gust) DL=6.0psf; h=25ft; C hvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 h the plane of the trut (normal to the face) d Details as applicab gner as per ANS/ITP m chord bearing. one face or securely t (i.e. diagonal web). r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto	9) Probe 5 a 10) This Inte ed or R8(LOAD (2) 41/21 Cat. le; d 30 ss , ple, 11.	vide mecha ring plate c nd 14 lb upl s truss is de rnational R	anical connection capable of withsta lift at joint 4. esigned in accord esidential Code s I referenced stand	anding 6 lance w sections	5 lb uplift at jo ith the 2018 s R502.11.1 a	oint				STATE OF THE NATHAND	MISSOLP ANIEL X BER 0 4042259

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March 21,2024

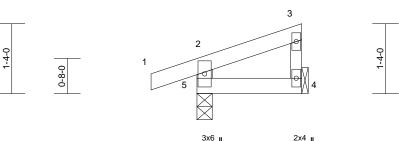
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J6	Jack-Closed	5	1	Job Reference (optional)	164360254

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2x4 🛛

2-0-0

Scale - 1.22

Scale = 1:22												
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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%
LUMBER												
TOP CHORD	2x4 SPF No.2											
BOT CHORD	2x4 SPF No.2											
WEBS	2x4 SPF No.2 *Exce	pt* 3-4:2x3 SPF No	.2									
BRACING												
TOP CHORD	Structural wood she		ed or									
	2-0-0 oc purlins, ex		_									
BOT CHORD	Rigid ceiling directly bracing.	applied of 10-0-0 of	C									
REACTIONS		inical, 5=0-3-8										
	Max Horiz 5=49 (LC	,										
	Max Uplift 4=-14 (LC											
	Max Grav 4=58 (LC	1), 5=171 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	2-5=-151/76, 1-2=0/2	23, 2-3=-35/7, 3-4=-	43/21									
BOT CHORD	4-5=-15/10											

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 65 lb uplift at joint 5 and 14 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

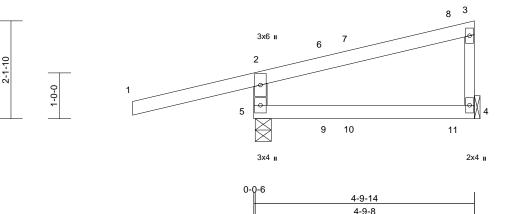


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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with with sets outputs into design is based only door parameters shown,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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J7	Diagonal Hip Girder	1	1	Job Reference (optional)	164360255

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -2-7-13 4-9-14 2-7-13 4-9-14 2x4 🛚 12 2.83 Г



0-0-6

Scale = 1:25.2

			+	1							1	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 16 lb	FT = 10%

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

WEBS	2x4 SPF I	No.2 *Except* 3-4:2x3 SPF No.2
BRACING		
TOP CHORD		wood sheathing directly applied or purlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ng directly applied or 6-0-0 oc
REACTIONS	(size)	4= Mechanical, 5=0-4-3
	Max Horiz	5=88 (LC 5)
	Max Uplift	4=-46 (LC 5), 5=-196 (LC 4)

- Max Grav 4=156 (LC 15), 5=410 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-373/204, 1-2=0/45, 2-3=-90/34,
- 3-4=-110/63 BOT CHORD 4-5=-28/61

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 196 lb uplift at joint 5 and 46 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

provided sufficient to support concentrated load(s) 106 Ib down and 198 lb up at 1-6-5, and 70 lb down and 39 Ib up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 5 lb down at 2-1-0, and 17 lb down and 2 lb up at 4-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- 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
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-3=-70, 4-5=-20
 - Concentrated Loads (lb)
 - Vert: 6=45 (B), 8=-1 (B), 9=30 (B), 10=-1 (F), 11=2 (B)



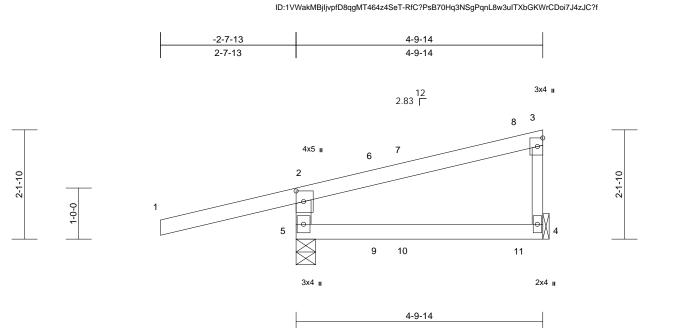
Page: 1

2-1-10

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J8	Diagonal Hip Girder	1	1	Job Reference (optional)	164360256



Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15

Scale = 1:22.5

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

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	0.63	Vert(LL)	0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	3/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 16 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood shee 4-9-14 oc purlins, ex Rigid ceiling directly bracing. (size) 4= Mecha Max Horiz 5=88 (LC Max Uplift 4=-41 (LC Max Grav 4=155 (LC (lb) - Maximum Com Tension 2-5=-351/188, 1-2=0 3-4=-106/59	athing directly applie xcept end verticals. applied or 6-0-0 oc nical, 5=0-4-9 5) 5), 5=-180 (LC 4) 2 15), 5=389 (LC 1) pression/Maximum	d or 9)	provided sul lb down and lb up at 2-1 lb down and up at 4-4-4 such connee In the LOAD of the truss i DAD CASE(S) Dead + Ro Plate Incre Uniform Lo Vert: 1-2 Concentral	of Live (balanced): ase=1.15	and 75 and 75 and 39 7 Ib up a and 17 'he desi e respon loads a -) or ba Lumber	Ated load(s) 1 5 lb down and lb up at 4-4 at 1-6-5, and lb down and ign/selection nsibility of oth oplied to the to ck (B).	i 140 4 on 15 2 Ib of ners. face 15,					
NOTES													
	CE 7-16; Vult=115mph												

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 5 and 41 lb uplift at joint 4.
- 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.



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J9	Jack-Open	2	1	Job Reference (optional)	164360257

-1-10-8

Wheeler Lumber, Waverly, KS - 66871,

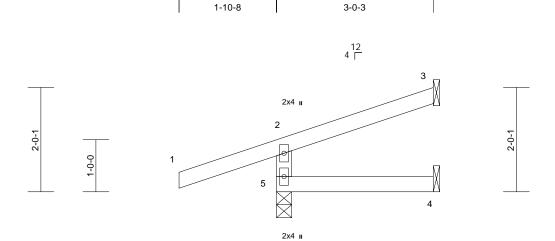
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-3

3-0-3



Pa



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%
LUMBER			LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF No.2											
BOT CHORD	2x4 SPF No.2											
WEBS	2x4 SPF No.2											
BRACING												
TOP CHORD	Structural wood she		ed or									
	3-0-3 oc purlins, ex											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	С									
REACTIONS	0	anical, 4= Mechanica	al,									
	5=0-3-8											
	Max Horiz 5=62 (LC	,										
	Max Uplift 3=-36 (LC											
	Max Grav 3=60 (LC (LC 1)	1), 4=48 (LC 3), 5=	319									
FORCES	(Ib) - Maximum Corr	nroccion/Movimum										
FORCES	Tension	pression/maximum										
TOP CHORD	2-5=-278/139, 1-2=0)/45. 2-3=-43/13										
BOT CHORD	,											
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.									
	Enclosed; MWFRS (er											
	left and right exposed											m
	sed; Lumber DOL=1.6		60								A	and the second
	has been designed fo		4-								TE OF I	NISS D
chord live	load nonconcurrent wi	th any other live loa	ds.							-	4.75	

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 and 36 lb uplift at joint 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J10	Jack-Open	15	1	Job Reference (optional)	164360258

-1-10-8

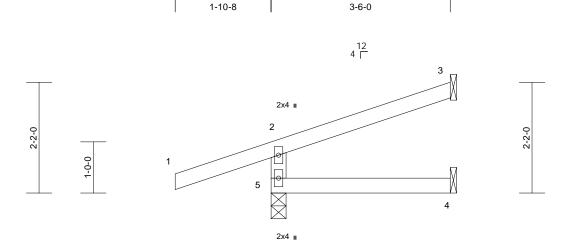
Wheeler Lumber, Waverly, KS - 66871,

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-6-0



FT = 10%



						3-6-0			_				
Scale = 1:22.5				I									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDI	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	1-5	<u>_</u> aaa	240	Weight 11 lb	FT – 10%	

Wind(LL)

0.00

4-5 >999 240 Weight: 11 lb

BCDL		10.0	Code	IRC2018/TPI2014	Matrix-R
LUMBER			•	LOAD CASE(S)	Standard
TOP CHORD	2x4 SPF I	No.2		(-)	
BOT CHORD	2x4 SPF I	No.2			
WEBS	2x4 SPF I	No.2			
BRACING					
TOP CHORD			athing directly applied cept end verticals.	d or	
BOT CHORD	Rigid ceili bracing.	ing directly	applied or 10-0-0 oc		
REACTIONS	(size)	3= Mecha 5=0-3-8	nical, 4= Mechanical	,	
	Max Horiz	5=69 (LC	4)		
	Max Uplift	3=-45 (LC	8), 5=-119 (LC 4)		
	Max Grav	3=80 (LC (LC 1)	1), 4=58 (LC 3), 5=33	33	
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		
TOP CHORD	2-5=-291/	/143, 1-2=0	/45, 2-3=-48/18		
BOT CHORD	4-5=0/0				
NOTES					
Vasd=91r II; Exp C; cantilever right expo	mph; TCDL= Enclosed; M left and righ osed; Lumbe	6.0psf; BC /WFRS (en nt exposed r DOL=1.6	(3-second gust) DL=6.0psf; h=25ft; Ca velope) exterior zone ; end vertical left and 0 plate grip DOL=1.60	Э;	
chord live	load nonco	ncurrent wit	a 10.0 psf bottom th any other live load		

- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 4)
- 5) Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to 6)
- bearing plate capable of withstanding 119 lb uplift at joint 5 and 45 lb uplift at joint 3. This truss is designed in accordance with the 2018 7)
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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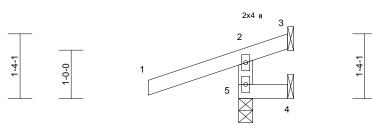


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J11	Jack-Open	2	1	Job Reference (optional)	164360259

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-0-3

2x4 II

Scale = 1:23.9

Scale = 1.23.9				-								
oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%
OP CHORD BOT CHORD VEBS BRACING TOP CHORD	D 2x4 SPF No.2 R802.10.2 and referenced standard ANSI/TPI 1. 2x4 SPF No.2 LOAD CASE(S)											
BOT CHORD	1-0-3 oc purlins, exe Rigid ceiling directly bracing.		с									
REACTIONS	(size) 3= Mecha 5=0-3-8	inical, 4= Mechanica	al,									
	Max Horiz 5=39 (LC	5)										

	Max Uplift	3=-99 (LC 1), 4=-29 (LC 1), 5=-169 (LC 4)
	Max Grav	(LC 4) 3=56 (LC 4), 4=13 (LC 4), 5=347 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum

Tension TOP CHORD 2-5=-300/167, 1-2=0/45, 2-3=-50/18 BOT CHORD 4-5=0/0

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 5, 29 lb uplift at joint 4 and 99 lb uplift at joint 3.



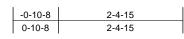
Page: 1

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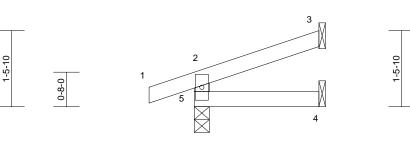
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITeM® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J12	Jack-Open	1	1	Job Reference (optional)	164360260

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







3x6 🛛

					2	-4-15						
Scale = 1:22.3												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

	044.005		LOAD CASE(S)	Standard	
TOP CHORD BOT CHORD					
WEBS	2x4 SPF 2x4 SPF				
	234 366	10.2			
BRACING TOP CHORD	Christen	I wood sheathing directly applied or			
		purlins, except end verticals.			
BOT CHORD		ing directly applied or 10-0-0 oc			
	bracing.				
REACTIONS	0	3= Mechanical, 4= Mechanical,			
	(0.20)	5=0-3-8			
	Max Horiz	5=42 (LC 4)			
	Max Uplift	3=-32 (LC 8), 5=-60 (LC 4)			
	Max Grav	3=62 (LC 1), 4=40 (LC 3), 5=187 (LC 1)			
FORCES	· · /	imum Compression/Maximum			
	Tension				
TOP CHORD BOT CHORD		/78, 1-2=0/23, 2-3=-31/15			
	4-5=0/0				
NOTES					
		It=115mph (3-second gust) 6.0psf; BCDL=6.0psf; h=25ft; Cat.			
		WFRS (envelope) exterior zone;			
		it exposed ; end vertical left and			
		r DOL=1.60 plate grip DOL=1.60			
		esigned for a 10.0 psf bottom			
		ncurrent with any other live loads.			
3) * This tru	ss has been	designed for a live load of 20.0psf			
		n all areas where a rectangle			
		0 wide will fit between the bottom			
	l any other r				
		med to be SPF No.2 .			
		truss to truss connections.			
		onnection (by others) of truss to			
	late capable Ib uplift at jo	of withstanding 60 lb uplift at joint			
		I in accordance with the 2018			
		tial Code sections R502.11.1 and			
		nced standard ANSI/TPI 1.			



Page: 1

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

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J13	Jack-Open	1	1	Job Reference (optional)	164360261

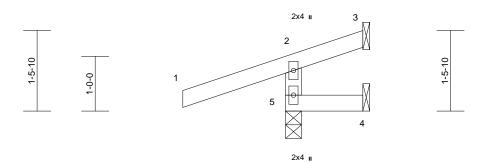
Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-4-15



Scale	- 1	·21

Scale = 1:21							1					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2	7) This truss is designed in accordance with the 2018 0x4 SPF No.2 International Residential Code sections R502.11.1 and 0x4 SPF No.2 R802.10.2 and referenced standard ANSI/TPI 1.										
TOP CHORD		structural wood sheathing directly applied or -4-15 oc purlins, except end verticals.										

	1-4-15 00	punins, except end venticals.
BOT CHORD	3	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	3= Mechanical, 4= Mechanical,
		5=0-3-8
	Max Horiz	5=43 (LC 5)
	Max Uplift	3=-41 (LC 1), 4=-17 (LC 1), 5=-144
	•	(LC 4)
	Max Grav	3=24 (LC 4), 4=15 (LC 3), 5=312
		(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-270/145, 1-2=0/45, 2-3=-41/7

BOT CHORD 4-5=0/0

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 4)
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 144 lb uplift at joint 5, 17 lb uplift at joint 4 and 41 lb uplift at joint 3.



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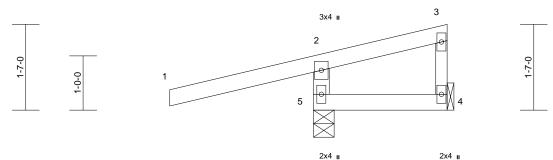
Job		Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240	0051	J14	Diagonal Hip Girder	1	1	Job Reference (optional)	164360262

Run; 8.73 S Feb 22 2024 Print; 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-5-10







Scale - 1.21.3

Scale = 1.21.3												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or	r
	2-5-10 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc	
	bracing.	
REACTIONS	(size) 4= Mechanical, 5=0-4-9	
	Max Horiz 5=78 (LC 7)	
	Max Uplift 4=-24 (LC 1), 5=-206 (LC 4)	
	Max Grav 4=50 (LC 4), 5=419 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum	
	Tension	
	2 5- 267/205 1 2-0/45 2 2- 25/24	

TOP CHORD	2-5=-367/205, 1-2=0/45, 2-3=-25/34
	3-4=-22/16
BOT CHORD	4-5=-41/38

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections. 5)
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 5 and 24 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

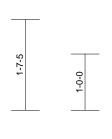
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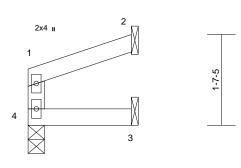


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J15	Jack-Open	1	1	Job Reference (optional)	164360263

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







2x4 🛛

1-10-0

30ale = 1.20.3		·		· · · · · · · · · · · · · · · · · · ·								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	BC	0.04 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 0.00 0.00	(loc) 3-4 3-4 2 3-4	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 5 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2 BOT CHORD 2 BOT CHORD 2 BRACING TOP CHORD 8 BOT CHORD 6 BOT CHORD 6 REACTIONS (si MM M FORCES (TOP CHORD 1 BOT CHORD 1	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheat 1-10-0 oc purlins, ei Rigid ceiling directly oracing. ize) 2= Mecha 4=0-3-8 ax Horiz 4=32 (LC ax Horiz 4=32 (LC 1) lb) - Maximum Com Fension I-4=-62/19, 1-2=-22/3-4=0/0 7-16; Vult=115mph r, TCDL=6.0psf; BC closed; MWFRS (ent t and right exposed d; Lumber DOL=1.60 as been designed for n chord in all areas vg 2-00-00 wide will vg other members. are assumed to be Ser(s) for truss to trus hanical connection (capable of withstar ift at joint 2.	athing directly applie coept end verticals. applied or 10-0-0 oc nical, 3= Mechanica 5) 8), 4=-3 (LC 4) 1), 3=32 (LC 3), 4=7 pression/Maximum (14 (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the bottod SPF No.2. ss connections. by others) of truss to doing 3 lb uplift at joi	LOAD CASE(S) ed or c ul, 75 Cat. le; d 50 ds. lpsf om			Wind(LL)	0.00	3-4	>999		STATE OF NATH FC PE-2022	MISSOLANIEL DX BER DADA
International	designed in accorda Residential Code se nd referenced stand	ections R502.11.1 a	nd								A SSION A	AL ENCIDENT

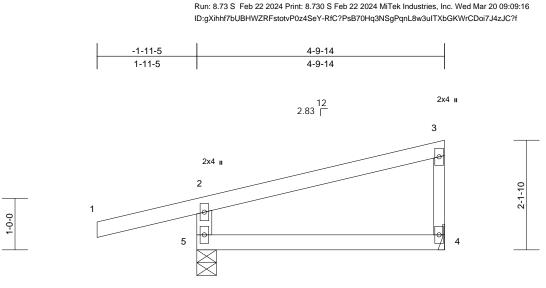
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J16	Diagonal Hip Girder	1	1	Job Reference (optional)	164360264

2-1-10



2x4 🛛

Matrix-R

IRC2018/TPI2014

2x4 🛛

240 Weight: 15 lb

FT = 10%

Page: 1

				4-9-14								
Scale = 1:22.5											-	
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		

Wind(LL)

0.00

4-5 >999

LUMBER

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-4-9 Max Horiz 5=84 (LC 7) Max Uplift 4=-34 (LC 8), 5=-141 (LC 4)

10.0

Code

Max Grav 4=172 (LC 1), 5=386 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-340/169, 1-2=0/34, 2-3=-79/13, 3-4=-126/57

BOT CHORD 4-5=-22/28

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 34 lb uplift at joint 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.

LOAD CASE(S) Standard



Maron 21,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J17	Jack-Closed	4	1	Job Reference (optional)	164360265

ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -1-10-8 3-6-0 1-10-8 3-6-0 2x4 🛛 12 4 □ 3 2x4 🛛 2 2-2-0 2-2-0 ø 1-0-0 5

2x4 ı

0.08

0.00

Vert(CT)

Horz(CT)

Wind(LL)

-0.01

0.00

0.00

4-5

4

4-5

2x4 u

>999

n/a n/a

>999

240

240

Weight: 12 lb

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16

						3-6-0						
Scale = 1:22.5												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	

BC

WB

Matrix-R

BCLL	
BCDL	

TCDI

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 4= Mechanical, 5=0-3-8
	Max Horiz 5=92 (LC 5)
	Max Uplift 4=-24 (LC 5), 5=-130 (LC 4)
	Max Grav 4=102 (LC 1), 5=332 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	
BOT CHORD	4-5=-27/21

10.0

10.0

0.0*

Lumber DOL

Code

Rep Stress Incr

1 15

YES

IRC2018/TPI2014

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 130 lb uplift at joint 5 and 24 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



GRIP

197/144

FT = 10%

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J18	Diagonal Hip Girder	2	1	Job Reference (optional)	164360266

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries Inc. Wed Mar 20 09:09:16 Page: 1 ID:ZJyCW0A5XPny13Zd6eyrZsz4SeU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-2-9 -2-7-13 5-4-6 2-7-13 5-4-6 3-10-3 4-11-10 2x4 II 4 1<u>2</u> 2.83 □ 3x4 = 11 10 3 9 8 3-2-1 3-2-1 2 2 9 9 Ļ 7 5 12 13 6 14 15

2x4 🛛

9-2-9

3-10-3

Scale - 1:30 7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.85	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 32 lb	FT = 10%

5-4-6

5-4-6

LUMBER

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

WEBS	2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
DOT OULORD	B

BOT CHORD	0	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	5= Mechanical, 7=0-7-6
	Max Horiz	7=132 (LC 7)
	Max Uplift	5=-116 (LC 8), 7=-212 (LC 4)

	Max Grav 5=514 (LC 1), 7=645 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
TOP CHORD	Tension 2-7=-555/229. 1-2=0/45. 2-3=-542/90.
	3-4=-88/34, 4-5=-210/92
BOT CHORD	6-7=-119/452, 5-6=-119/452

BOT CHORD 3-6=0/202. 3-5=-477/120

WEBS

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2)
- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 4)
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 212 lb uplift at joint 7 and 116 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 98 lb down and 67 lb up at 6-5-11, and 119 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 8 lb down and 10 lb up at 3-7-12, 19 lb down at 5-6-6, and 26 lb down at 6-5-11, and 61 lb down at 8-4-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) 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

5x12 II

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-4=-70, 5-7=-20
 - Concentrated Loads (lb)
 - Vert: 3=-1 (B), 6=-2 (B), 10=-21 (F), 11=-92 (B),
 - 13=10 (F), 14=-12 (F), 15=-39 (B)



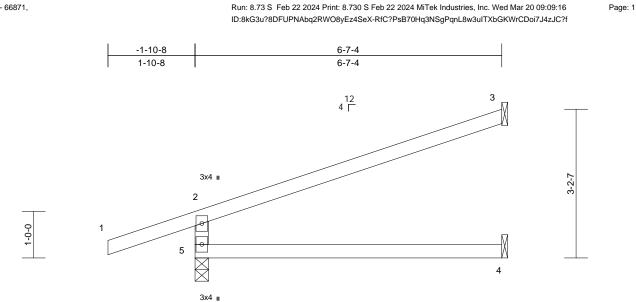
3x4 =

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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J19	Jack-Open	15	1	Job Reference (optional)	164360267

3-2-7



6-7-4

MiTek

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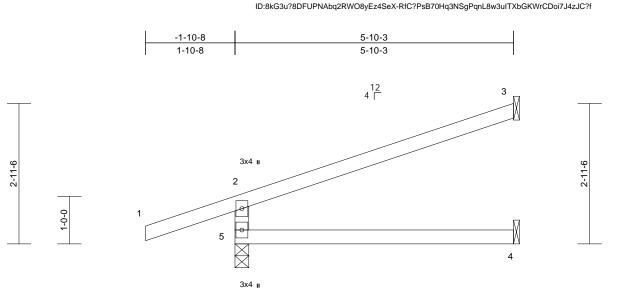
Scale = 1:24.8											
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	BC C).61).38).00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.17 0.06 0.06	(loc) 4-5 4-5 3 4-5	l/defl >999 >461 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING TOP CHORD Structural wood sh 6-0-0 oc purlins, e BOT CHORD Rigid ceiling direct bracing. REACTIONS (size) 3= Mect 5=0-3-8 Max Horiz 5=111 (I Max Uplift 3=-92 (L	eathing directly applie xcept end verticals. y applied or 10-0-0 or anical, 4= Mechanica _C 4)	LOAD CASE(S)			Wind(LL)	0.06	4-5	>999	240	Weight: 18 lb	FT = 10%
 FORCES (Ib) - Maximum Co Tension TOP CHORD 2-5=-396/181, 1-2= BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mp Vasd=91mph; TCDL=6.0psf; B II; Exp C; Enclosed; MWFRS (ic cantilever left and right expose right exposed; Lumber DOL=1. 2) This truss has been designed chord live load nonconcurrent v 3) * This truss has been designed on the bottom chord in all area: 3-06-00 tall by 2-00-00 wide wi chord and any other members. 4) All bearings are assumed to be 5) Refer to girder(s) for truss to tr 6) Provide mechanical connection bearing plate capable of withst 5 and 92 Ib uplift at joint 3. 7) This truss is designed in accord International Residential Code R802.10.2 and referenced star 	h (3-second gust) CDL=6.0psf; h=25f; (anvelope) exterior zor d; end vertical left an 60 plate grip DOL=1.6 or a 10.0 psf bottom vith any other live load for a live load of 20.0 s where a rectangle I fit between the botto SPF No.2 uss connections. (by others) of truss to anding 127 lb uplift at lance with the 2018 sections R502.11.1 at	ne; d 50 ds. ipsf om joint							2	NATHA FO PE-2022 PESSIONA	X BER 042259

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Job	Truss	Truss Type	Qty Ply Lot 146 WO		Lot 146 WO	
B240051	J20	Jack-Open	3	1	Job Reference (optional)	164360268

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries. Inc. Wed Mar 20 09:09:16

Wheeler Lumber, Waverly, KS - 66871,



			l			5-10-3						
Scale = 1:24.2			l									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	4-5	>681	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	4-5	>999	240	Weight: 17 lb	FT = 10%
LUMBER LOAD CASE(S) Standard TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2												
WEBS	2x4 SPF No.2											
BRACING TOP CHORD	Structural wood she 5-10-3 oc purlins, e		ed or									
BOT CHORD	Rigid ceiling directly bracing.		c									
REACTIONS	(size) 3= Mecha	nical, 4= Mechanica	al,									

KEAO HONO	(3120)	
		5=0-3-8
	Max Horiz	5=101 (LC 4)
	Max Uplift	3=-81 (LC 8), 5=-123 (LC 4)
	Max Grav	3=168 (LC 1), 4=104 (LC 3), 5=421
		(LC 1)
FORCES	(lb) - Max	imum Compression/Maximum

FORCES

Tension TOP CHORD 2-5=-369/171, 1-2=0/45, 2-3=-77/40 BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 4)
- 5) Refer to girder(s) for truss to truss connections. 6)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 81 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Page: 1

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J21	Jack-Open	3	1	Job Reference (optional)	164360269

-1-10-8

1-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

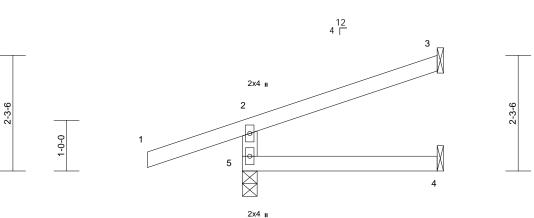
3-10-3

3-10-3

3-10-3



—



Scale = 1:22.8	

66016 - 1.22.0					·						
Loading (p. TCLL (roof) 25 TCDL 10 BCLL 0 BCDL 10	 Plate Grip DOL Lumber DOL Rep Stress Incr 	2-0-0 1.15 1.15 YES IRC2018/TPI2014	BC	0.28 0.11 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.01 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING TOP CHORD Structural wood 3-10-3 oc purlin BOT CHORD Rigid ceiling din bracing. REACTIONS (size) 3= M 5=0- Max Horiz 5=74 Max Uplit 3=-5 Max Grav 3=95 (LC FORCES (lb) - Maximum	sheathing directly appli s, except end verticals. ectly applied or 10-0-0 c echanical, 4= Mechanic 8-8 (LC 4) (LC 8), 5=-119 (LC 4) (LC 1), 4=65 (LC 3), 5=) Compression/Maximum -2=0/45, 2-3=-52/22 mph (3-second gust) ; BCDL=6.0psf; h=25ft; 5 (envelope) exterior zo ised ; end vertical left ar =1.60 plate grip DOL=1. d for a 10.0 psf bottom t with any other live loa d for a live load of 20. eas where a rectangle will fit between the bott rs. be SPF No.2 . o truss connections. ion (by others) of truss instanding 119 lb uplift a	LOAD CASE(S) ied or oc aal, -345 - Cat. ine; ind .60 aads. Opsf from to t joint			Wind(LL)	0.00	4-5	>999		STATE OF STATE OF NATH FO PE-2022	MISSOLA ANIEL DX BER 0042259
R802.10.2 and referenced s	andard ANSI/TPI 1.									alle	h 21,2024



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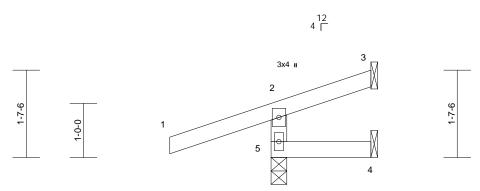
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J22	Jack-Open	4	1	Job Reference (optional)	164360270

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Page: 1



2x4 u

1-10-3

Scale =	1:21.3

Scale = 1:21.3												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%
TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2			al Residential Co and referenced) Standard			and					
TOP CHORD	Structural wood she 1-10-3 oc purlins, e											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 c	0C									
REACTIONS	(size) 3= Mecha 5=0-3-8	anical, 4= Mechanic	al,									

	5=0-5-0
Max Horiz	5=47 (LC 4)
Max Uplift	3=-12 (LC 8), 4=-6 (LC 1), 5=-131
	(LC 4)
Max Grav	3=4 (LC 19), 4=25 (LC 3), 5=302
	(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-262/137, 1-2=0/45, 2-3=-38/1

BOT CHORD 4-5=0/0 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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This terms has been desired for 400 crif been does and been desired for 400 crif been does and b
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 5, 6 lb uplift at joint 4 and 12 lb uplift at joint 3.



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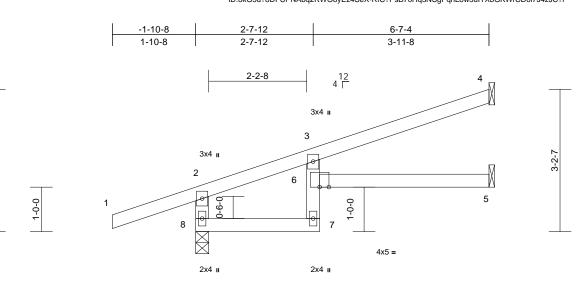


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J23	Jack-Open	3	1	Job Reference (optional)	164360271

3-2-7

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale =	1:25.9
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Loading	(psf)	Spacing	2-0-0	CSI	·	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.10	5-6	>782	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18	5-6	>420	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.11	5-6	>719	240	Weight: 20 lb	FT = 10%
LUMBER			7) This trus	s is designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			nal Residential Coo			and					
BOT CHORD			R802.10	2 and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE	(S) Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	0C									
REACTIONS	()	nical, 5= Mechanic	al,									
	8=0-3-8	2 4)										
	Max Horiz 8=111 (LC Max Uplift 4=-75 (LC											
	Max Grav 4=183 (LC		9-152									
	(LC 1)	5 T), 5=105 (LC 3),	0=402									
FORCES	(Ib) - Maximum Com	pression/Maximum										
TOROLO	Tension											
TOP CHORD		/45, 2-3=-211/11,										
	3-4=-37/49											
BOT CHORD	7-8=-70/135, 6-7=0/	41, 3-6=-3/94, 5-6=	0/0									
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91r	mph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;	Cat.									
	Enclosed; MWFRS (er											
	r left and right exposed										CODY	man
	osed; Lumber DOL=1.6		.60								A OF	MISC
	has been designed for									E	950	W.OS
	load nonconcurrent wi									B	STATE OF	NIEL XP.V
	ss has been designed f ttom chord in all areas		Upst							R	FC FC	
	all by 2-00-00 wide will		om							En.	d in ru	
	any other members.	in between the bott	om							N P		
	gs are assumed to be S	SPF No.2 .								W	athan	N & Conto
	girder(s) for truss to tru									X-	A MAR	BER
, .	nechanical connection (to							N7	O PE-2022	042259
,	late conchine of withotor									- XX -	11-2022	A LESS

bearing plate capable of withstanding 127 lb uplift at joint 8 and 75 lb uplift at joint 4.



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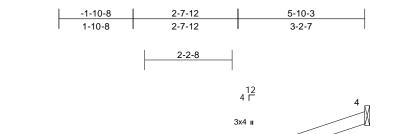
March 21,2024

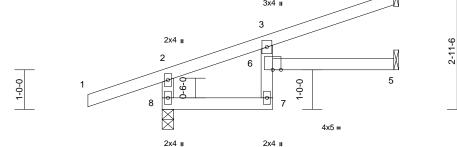
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J24	Jack-Open	1	1	Job Reference (optional)	164360272

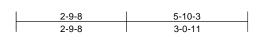
2-11-6

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:29.1

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	0.35	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.10	5-6	>654	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 18 lb	FT = 10%
LUMBER			7) This truss is	s designed in acc	ordance w	ith the 2018						
TOP CHORD 2	x4 SPF No.2			al Residential Coc			and					
	x4 SPF No.2			and referenced st	andard AN	ISI/TPI 1.						
WEBS 2	x4 SPF No.2		LOAD CASE(S) Standard								
BRACING												
		athing directly applie xcept end verticals.	ed or									
		applied or 10-0-0 o	C									
	racing.		0									
REACTIONS (si	ze) 4= Mecha	nical, 5= Mechanica	al,									
	8=0-3-8											
	ax Horiz 8=101 (LC	,										
	ax Uplift 4=-63 (LC		404									
IVIE	(LC 1)	C 1), 5=88 (LC 3), 8	=421									
FORCES (I	. ,	pression/Maximum										
	ension											
	-8=-376/142, 1-2=0)/45, 2-3=-171/6,										
	-4=-31/42	42, 3-6=-5/79, 5-6=0	2/0									
	-0=-30/102, 0-7=0/	42, 3-6=-5/79, 5-6=0	5/0									
NOTES	7-16; Vult=115mph	(2 accord quat)										
		DL=6.0psf; h=25ft; (Cat									
		velope) exterior zor										
		; end vertical left an									Suc	and
		0 plate grip DOL=1.	60								FOF DE	MISSO
	s been designed for									1	THE OF	
		th any other live loa								8	NATH	NITET X
	as been designed f i chord in all areas	or a live load of 20.0	Jpst							R	FO	
		fit between the botto	m							8	A I A	
	y other members.									8/	for filmer	
	are assumed to be \$	SPF No.2 .								W	n// Annio	1 SAN
	er(s) for truss to tru									83	NOM	BER
6) Provide mech	nanical connection ((by others) of truss t	0							N'	O PE-2022	042259 159

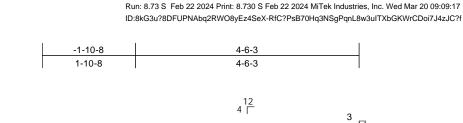
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 8 and 63 lb uplift at joint 4.

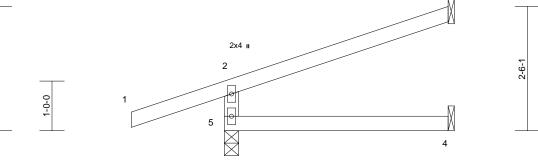




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J25	Jack-Open	2	1	Job Reference (optional)	164360273





2x4 u

LOAD CASE(S) Standard

						4-6-3						
Scale = 1:23.2									l			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 14 lb	FT = 10%

2022			0000	
LUMBER				
TOP CHORD	2x4 SPF	No.2		
BOT CHORD	2x4 SPF	No.2		
WEBS	2x4 SPF	No.2		
BRACING				
TOP CHORD	Structura	I wood shea	athing directly appli	ed or
		purlins, exc	cept end verticals.	
BOT CHORD	3	ing directly	applied or 10-0-0 o	C
	bracing.			
REACTIONS	(size)	3= Mecha 5=0-3-8	nical, 4= Mechanic	al,
	Max Horiz	5=83 (LC	4)	
	Max Uplift	3=-61 (LC	8), 5=-119 (LC 4)	
	Max Grav	3=120 (LC (LC 1)	C 1), 4=78 (LC 3), 5	=368
FORCES	(lb) - Max	· · ·	pression/Maximum	
	Tension			
TOP CHORD	2-5=-323	/154, 1-2=0	/45, 2-3=-60/28	
BOT CHORD	4-5=0/0			
NOTES				
1) Wind: AS	CE 7-16; Vu	lt=115mph	(3-second gust)	
Vasd=91n	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=25ft;	Cat.

2-6-1

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.
 Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 119 lb uplift at joint 5 and 61 lb uplift at joint 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.



Page: 1

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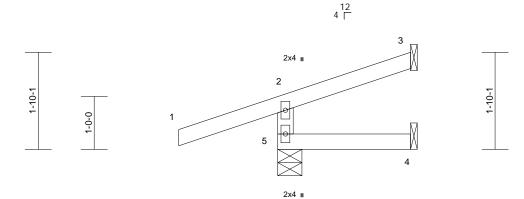
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J26	Jack-Open	3	1	Job Reference (optional)	164360274

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Page: 1



Scale = 1:21.8								I				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

2-6-3

LUMBER TOP CHORD	2x4 SPF	No.2	LOAD CASE(S)	Standard
BOT CHORD				
WEBS	2x4 SPF			
BRACING				
TOP CHORD		I wood sheathing directly applied or purlins, except end verticals.		
BOT CHORD		ing directly applied or 10-0-0 oc		
REACTIONS	(size)	3= Mechanical, 4= Mechanical, 5=0-5-8		
	Max Horiz	5=56 (LC 4)		
	Max Uplift	3=-27 (LC 8), 5=-123 (LC 4)		
	Max Grav	3=35 (LC 1), 4=38 (LC 3), 5=307 (LC 1)		
FORCES	(lb) - Max Tension	kimum Compression/Maximum		
TOP CHORD		/136, 1-2=0/45, 2-3=-40/6		
BOT CHORD		100, 12 0, 10, 20 10,0		
NOTES				
	CE 7-16: Vu	Ilt=115mph (3-second gust)		
		=6.0psf; BCDL=6.0psf; h=25ft; Cat.		
		/WFRS (envelope) exterior zone;		
		nt exposed ; end vertical left and		
		er DOL=1.60 plate grip DOL=1.60		
		lesigned for a 10.0 psf bottom		
chord live	e load nonco	ncurrent with any other live loads.		
		designed for a live load of 20.0psf		
		n all areas where a rectangle		
		0 wide will fit between the bottom		
	d any other r			
		med to be SPF No.2.		
		truss to truss connections.		
		connection (by others) of truss to of withstanding 123 lb uplift at joint		
	lb uplift at jo			
		I in accordance with the 2018		
This true		tial Code sections R502.11.1 and		
Internatio		nced standard ANSI/TPI 1.		
Internatio		nced standard ANSI/TPI 1.		
Internatio		nced standard ANSI/TPI 1.		

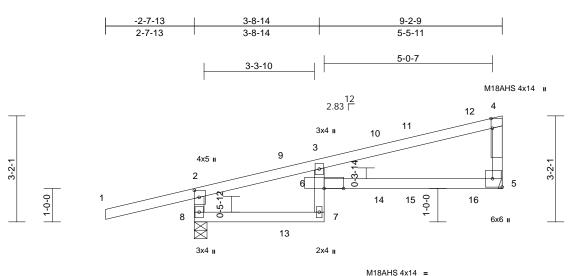


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J27	Diagonal Hip Girder	1	1	Job Reference (optional)	164360275

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 ID:ZJyCW0A5XPny13Zd6eyrZsz4SeU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



<u>3-10-10</u> <u>9-2-9</u> <u>3-10-10</u> <u>5-3-15</u>
2 10 10 5 2 15
5-10-10 5-5-15

Scale = 1:34.5 Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-3-8,Edge], [5:Edge,0-3-8]

Flate Offsets ((A, f). [2.0-2-0,0-1-12], [4.0-3-6,⊏uge], [5. -	Euge,0-3	-0]									
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.65 0.49	DEFL Vert(LL) Vert(CT)	in -0.24 -0.44	(loc) 5-6 5-6	l/defl >455 >242	L/d 360 240		GRIP 197/144 142/136
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	NO IRC20	18/TPI2014	WB Matrix-R	0.00	Horz(CT) Wind(LL)	0.11 0.25	5 5-6	n/a >435	n/a 240	Weight: 28 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD NOTES	2x4 SPF 2100F 1.8E 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 8=115 (LC Max Grav 5=528 (LC (lb) - Maximum Com Tension 2-8=-580/231, 1-2=(3-4=-298/59, 4-5=-3 7-8=-96/351, 6-7=-1 5-6=-73/262	athing directly applie cept end verticals. applied or 10-0-0 or nical, 8=0-4-9 C 5) C 8), 8=-218 (LC 4) C 1), 8=651 (LC 1) pression/Maximum 0/45, 2-3=-447/75, 20/119 1/54, 3-6=-21/101,	s ed or c	 International R802.10.2 a Hanger(s) or provided suf down and 73 3-7-12, 86 lb down and 55 up at 8-4-5 at 2-8-7, 8 ll and 27 lb up 6-5-11, and design/selec responsibility In the LOAD of the truss a OAD CASE(S) Dead + Roo Plate Increa Uniform Lo Vert: 1-2 	CASE(S) section are noted as from Standard of Live (balanced ase=1.15 ads (lb/ft) =-70, 2-4=-70, 7-	le sections andard AN n device(s concentra 70 lb down up at 5-6 , and 110 l d 12 lb down up at 3-6 7 lb down up at 3-6 7 lb down 4-5 on bot nection de n, loads ap t (F) or ban d): Lumber	R502.11.1 a (SI/TPI 1.) shall be tited load(s) 7 n and 28 lb u -6, and 98 lb b down and b down and 16 lb s-14, 21 lb dd and 23 lb up tom chord vice(s) is the oplied to the ck (B).	73 lb Ip at 63 lb Up own at The face					
Vasd=91n II; Exp C; cantilever right expo: 2) All plates a 3) This truss chord live 4) * This trus on the bot	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 are MT20 plates unles has been designed foi load nonconcurrent wi ss has been designed f tom chord in all areas all by 2-00-00 wide will	ne; d 60 d. ds. 0psf	Vert: 7=	ed Loads (lb) 10 (F), 10=-5 (B), B), 15=-25 (F), 1		⁻), 12=-81 (E	3),				STATE OF D STATE OF D NATH/ FO	MISSOLUT NIEL	

- chord and any other members. 5) Bearings are assumed to be: Joint 8 SPF 2100F 1.8E, Joint 5 SPF No.2
- Refer to girder(s) for truss to truss connections. 6)
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 218 lb uplift at joint 8 and 120 lb uplift at joint 5.

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March 21,2024

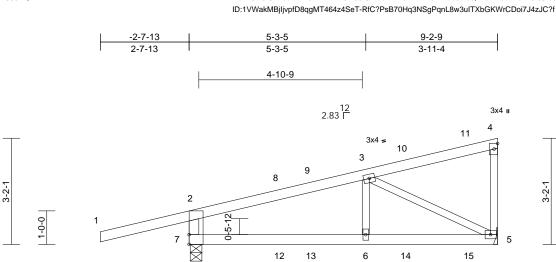
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J28	Diagonal Hip Girder	1	1	Job Reference (optional)	164360276

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17

Page: 1





2x4 u

Scale = 1:34.4

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	0.91	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.11	5-6	>978	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 32 lb	FT = 10%
LUMBER	LUMBER 8) Hanger(s) or other connection device(s) shall be											

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2 WEBS

BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	5-9-9 oc	purlins, except end verticals.
BOT CHORD	Rigid ceil	ling directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	5- Mechanical 7-0-4-3

KEACHONS.	(3120)	3-1000
	Max Horiz	7=132 (LC 5)
	Max Uplift	5=-124 (LC 5), 7=-218 (LC 4)
	Max Grav	5=578 (LC 1), 7=682 (LC 1)
FORCES	· · /	imum Compression/Maximum
	Tension	
TOP CHORD	2-7=-580/	232, 1-2=0/45, 2-3=-612/100,

3-4=-99/34, 4-5=-232/98 BOT CHORD 6-7=-149/520, 5-6=-149/520 WEBS 3-6=0/217, 3-5=-545/136

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2)
- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 4)
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 218 lb uplift at joint 7 and 124 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 87 lb down and 58 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 116 lb down and 81 lb up at 6-5-11, and 119 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 18 lb down at 3-7-12, 19 lb down at 5-6-6, and 44 lb down at 6-5-11, and 61 lb down at 8-4-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) 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

5x12 "

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-4=-70, 5-7=-20
 - Concentrated Loads (lb)
 - Vert: 3=-1 (F), 6=-2 (F), 9=-3 (B), 10=-71 (B), 11=-92
 - (F), 13=-9 (B), 14=-40 (B), 15=-39 (F)



3x4 =

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J29	Jack-Open	1	1	Job Reference (optional)	164360277

2-7-12

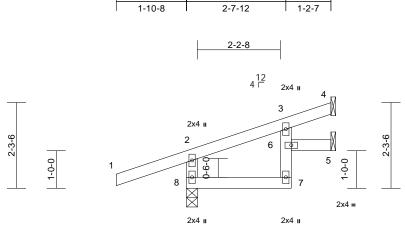
-1-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-10-3

Page: 1





Scale = 1:30.7

00010 = 1.00.1												
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	0.28	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	Waight 10 lb	FT 400/
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	6	>999	240	Weight: 13 lb	FT = 10%
LUMBER			This truss is	s designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			al Residential Coc			and					
BOT CHORD	2x4 SPF No.2			and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE(S) Standard								
BRACING												
TOP CHORD		eathing directly appli										
BOT CHORD		except end verticals.										
BUICHURD	bracing.	y applied or 10-0-0 o	ic .									
REACTIONS	•	anical, 5= Mechanic	al									
	8=0-3-8		ui,									
	Max Horiz 8=74 (LC	C 4)										
	Max Uplift 4=-28 (L	C 8), 5=-10 (LC 8), 8	i=-119									
	(LC 4)											
	Max Grav 4=82 (LC (LC 1)	C 1), 5=50 (LC 3), 8=	345									
FORCES	(lb) - Maximum Cor Tension	mpression/Maximum										
TOP CHORD	2-8=-306/136, 1-2=	=0/45, 2-3=-74/0,										
	3-4=-13/23											
BOT CHORD	7-8=-22/34, 6-7=0/4	45, 3-6=-8/41, 5-6=0	/0									
NOTES												
	CE 7-16; Vult=115mp		_									
Vasd=91m	nph; TCDL=6.0psf; B	CDL=6.0psf; h=25ft;	Cat.									

- II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 8, 28 lb uplift at joint 4 and 10 lb uplift at joint 5.





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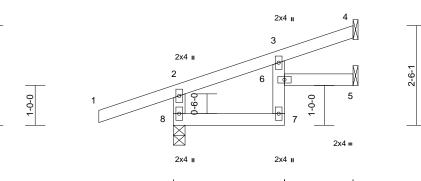
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J30	Jack-Open	1	1	Job Reference (optional)	164360278

2-6-1

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:29

		i	:	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	0.28	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 15 lb	FT = 10%
LUMBER			This truss is	designed in acc	ordance w	th the 2018		-				·
TOP CHORD	2x4 SPF No.2			Residential Coc			and					
BOT CHORD	2x4 SPF No.2			and referenced st								
WEBS	2x4 SPF 2400F 2.0E	-	LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	4-6-3 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS		anical, 5= Mechanica	al,									
	8=0-3-8	4)										
	Max Horiz 8=83 (LC Max Uplift 4=-41 (LC	,	110									
	(LC 4)	5 0), 5=-0 (LC 0), 0=	-119									
	Max Grav 4=107 (L0	C 1), 5=63 (LC 3), 8	=368									
	(LC 1)	- ,, (,, -										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	2-8=-327/136, 1-2=0 3-4=-19/30)/45, 2-3=-104/0,										
BOT CHORD	7-8=-32/52, 6-7=0/4	4, 3-6=-9/53, 5-6=0/	/0									
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)										
			o /									

- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 4)
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 8, 41 lb uplift at joint 4 and 6 lb uplift at joint 5.



Page: 1

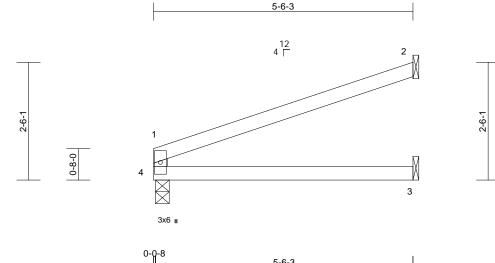
16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

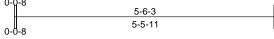


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J31	Jack-Open	1	1	Job Reference (optional)	164360279

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 ID:46OpJgATn6f5Qv_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:24.5

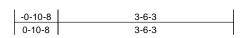
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.46 0.27 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.08 0.03 0.04	(loc) 3-4 3-4 2 3-4	l/defl >999 >764 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood she 5-6-3 oc purlins, ex BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 2= Mecha 4=0-3-8 Max Horiz 4=66 (LC Max Uplift 2=-77 (LC (LC 1)	cept end verticals. applied or 10-0-0 oc inical, 3= Mechanica 8) : 8), 4=-27 (LC 4)	; I,	Standard								
 FORCES (b) - Maximum Corr Tension TOP CHORD 1-4=-201/75, 1-2=-7 BOT CHORD 3-4=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BC II; Exp C; Enclosed; MWFRS (er cantilever left and right exposed right exposed; Lumber DOL=1.6 2) This truss has been designed fo chord live load nonconcurrent wi 3) * This truss has been designed fo on the bottom chord in all areas 3-06-00 tall by 2-00-00 wide will chord and any other members. 4) All bearings are assumed to be 5 5) Refer to girder(s) for truss to tru bearing plate capable of withstat 4 and 77 lb uplift at joint 2. 7) This truss is designed in accorda International Residential Code s R802.10.2 and referenced stand 	(3-second gust) DL=6.0psf; h=25ft; (tvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto SPF No.2 . ss connections. (by others) of truss to adding 27 lb uplift at jo ance with the 2018 ections R502.11.1 at	e; d 50 ds. psf m 0							E.	PE-2022	BER ALL

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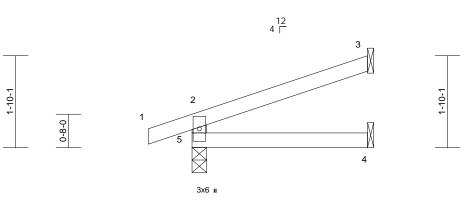
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J32	Jack-Open	1	1	Job Reference (optional)	164360280

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



3-6-3

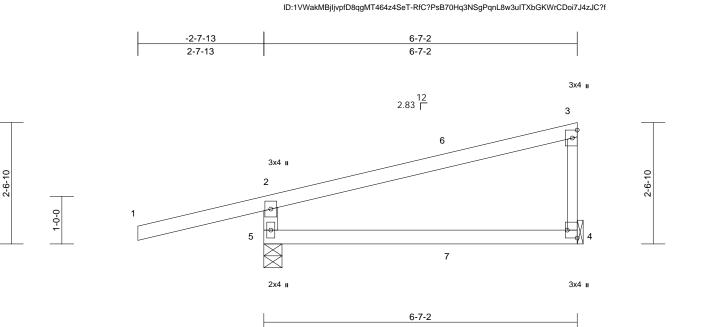
Scale = 1:23.1			
Loading	(psf)	Spacing	2-0-0

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.15 0.09 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.01 0.00 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 10 lb	GRIP 197/144 FT = 10%
	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 3-6-3 oc purlins, ex Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=57 (LC Max Uplift 3=-48 (LC	cept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 4) : 8), 5=-64 (LC 4)	; I,	Standard								
 Vasd=91m II; Exp C; E cantilever I right expos 2) This truss chord live 3) * This truss on the bott 3-06-00 tai chord and 4) All bearing 5) Refer to gi 6) Provide muse bearing pla 5 and 48 lt 7) This truss Internation 	Max Grav 3=100 (L0 (LC 1) (Ib) - Maximum Com Tension 2-5=-203/92, 1-2=0/; 4-5=0/0 CE 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed for load nonconcurrent wi s has been designed for load nonconcurrent wi s has been designed for load nonconcurrent wi s has been designed for load nonconcurrent wi s as been designed for load nonconcurrent wi s has been designed for load nonconcurrent wi s designed for load nonconcurrent wi s designed in accordation and referenced stand	(3-second gust) DL=6.0psf; h=25f; C ivelope) exterior zon; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto SPF No.2. ss connections. by others) of truss to ding 64 lb uplift at jo ance with the 2018 ections R502.11.1 at	Cat. e; d SO ds. psf m								PE-2022	X BER 042259



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

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J33	Diagonal Hip Girder	2	1	Job Reference (optional)	164360281



Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18

Scale = 1:24.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	4-5	>613	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI	2014 Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 21 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc anical, 5=0-4-9 C 5) C 5) S 8), 5=-190 (LC 4)	2 up a 3-10 d or (s) i 9) In t LOAD (1) De Pla	eger(s) or other conne- vided sufficient to sup <i>m</i> and 32 lb up at 3- at 3-10-4 on top chor 0-4, and 9 lb down an rd. The design/selec s the responsibility of ne LOAD CASE(S) se to truss are noted as CASE(S) Standard wad + Roof Live (balar ate Increase=1.15 inform Loads (lb/ft)	port concentra 10-4, and 70 lk d, and 9 lb do d 9 lb up at 3 tion of such co others. action, loads a front (F) or ba	ated load(s) o down and 3 wn and 9 lb t -10-4 on bot onnection de opplied to the ck (B).	32 lb up at tom vice face					

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-463/230, 1-2=0/45, 2-3=-130/16, 3-4=-177/79 BOT CHORD 4-5=-27/56

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 190 lb uplift at joint 5 and 46 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)
- Vert: 7=19 (F=9, B=9)



Page: 1

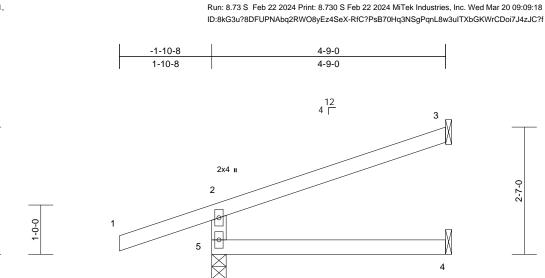
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J34	Jack-Open	3	1	Job Reference (optional)	164360282

Scale

2-7-0



2x4 🛛

ale = 1:23.4						4-9-0					
ding L (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.28	DEFL Vert(LL)	in -0.02	· · /	l/defl >999	PLATES MT20	GRIP 197/14

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	BC	0.28 0.18 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.02 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 10%
BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 4-9-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals.		Standard								
N FORCES	0	8), 5=-120 (LC 4) 2 1), 4=83 (LC 3), 5= pression/Maximum										
BOT CHORD NOTES 1) Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose 2) This truss h chord live lc 3) * This truss on the botto 3-06-00 tall chord and a 4) All bearings 5) Refer to giru 6) Provide mer bearing plat 5 and 65 lb 7) This truss is internationa	4-5=0/0 E 7-16; Vult=115mph oh; TCDL=6.0psf; BC nclosed; MWFRS (er eft and right exposed ed; Lumber DCL=1.6 has been designed for bad nonconcurrent wi has been designed for m chord in all areas by 2-00-00 wide will any other members. are assumed to be S der(s) for truss to tru- chanical connection (te capable of withstar uplift at joint 3. s designed in accorda al Residential Code sr and referenced stand	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto SPF No.2 ss connections. by others) of truss to ding 120 lb uplift at ence with the 2018 ections R502.11.1 ar	e; d o ds. psf m							E.	PE-2022	ALLE ALLE ALLE ALLE ALLE ALLE ALLE ALLE

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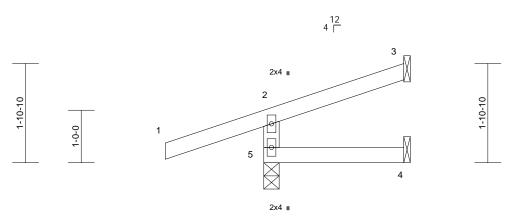
Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J35	Jack-Open	4	1	Job Reference (optional)	164360283

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







						2-7-15						
Scale = 1:21.9												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LU	IMBER			LOAD CASE(S)	Standard
TC	P CHORD	2x4 SPF	No.2		
BC	DT CHORD	2x4 SPF I	No.2		
WE	EBS	2x4 SPF I	No.2		
BR	RACING				
тс	P CHORD	Structura	wood sheathing directly applied or		
			purlins, except end verticals.		
BC	DT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc		
		bracing.			
RE	ACTIONS	(size)	3= Mechanical, 4= Mechanical,		
			5=0-3-8		
			5=58 (LC 4)		
			3=-29 (LC 8), 5=-121 (LC 4)		
		Max Grav	3=43 (LC 1), 4=41 (LC 3), 5=310		
			(LC 1)		
FC	RCES	· · /	imum Compression/Maximum		
то		Tension	1427 4 2 0/45 2 2 44/9		
	P CHORD		/137, 1-2=0/45, 2-3=-41/8		
		4-5=0/0			
	DTES				
1)			It=115mph (3-second gust) 6.0psf; BCDL=6.0psf; h=25ft; Cat.		
			WFRS (envelope) exterior zone;		
			it exposed ; end vertical left and		
			r DOL=1.60 plate grip DOL=1.60		
2)			esigned for a 10.0 psf bottom		
,			ncurrent with any other live loads.		
3)	* This trus	s has been	designed for a live load of 20.0psf		
			n all areas where a rectangle		
			0 wide will fit between the bottom		
		any other n			
4)			ned to be SPF No.2.		
5)			truss to truss connections.		
6)			onnection (by others) of truss to of withstanding 121 lb uplift at joint		
		o uplift at jo			
7)			in accordance with the 2018		
.,			tial Code sections R502.11.1 and		
			nced standard ANSI/TPI 1.		



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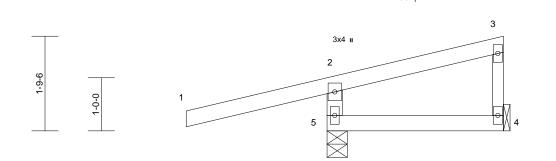
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J36	Diagonal Hip Girder	1	1	Job Reference (optional)	164360284

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries Inc. Wed Mar 20 09:09:18 ID:iYnn2sU?e8DQ7E_XAKwKMpz_kTB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f











3-3-14

2x4 🛛

2x4 II

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 12 lb	FT = 10%

2x4 I

L

- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-4-9 Max Horiz 5=72 (LC 5) Max Uplift 4=-9 (LC 5), 5=-192 (LC 4)
- Max Grav 4=67 (LC 3), 5=423 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-372/200, 1-2=0/45, 2-3=-36/25, 3-4=-39/24

BOT CHORD 4-5=-31/34

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 192 lb uplift at joint 5 and 9 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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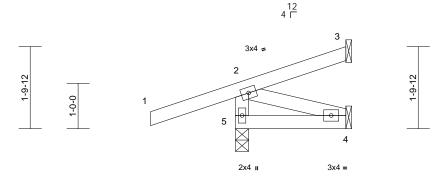


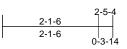
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J37	Jack-Open	2	1	Job Reference (optional)	164360285

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:25.4

		· · · · · · · · · · · · · · · · · · ·				·						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 10%
LUMBER			7) This truss is	designed in accor	dance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			Residential Code			nd					
BOT CHORD	2x4 SPF No.2		R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE(S)	Standard								
BRACING			.,									
TOP CHORD	Structural wood she	athing directly applied	dor									
	2-5-4 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc										
	bracing.											
REACTIONS	(size) 3= Mecha 5=0-3-8	anical, 4= Mechanical,										
	Max Horiz 5=54 (LC	(4)										
		C 8), 4=-6 (LC 4), 5=-1	23									
	(LC 4)	// - // -										
	Max Grav 3=14 (LC	18), 4=46 (LC 3), 5=3	307									
	(LC 1)											
FORCES	(lb) - Maximum Com	npression/Maximum										
	Tension											
TOP CHORD	2-5=-284/137, 1-2=0	0/45, 2-3=-45/1										
BOT CHORD	4-5=-61/8											
WEBS	2-4=-8/64											
NOTES												
1) Wind ASC	CE 7 16: \/ult 115mph	(2 accord quat)										

- 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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This terms has been desired for 400 or 6 here.
- 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
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5, 13 lb uplift at joint 3 and 6 lb uplift at joint 4.



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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J38	Jack-Closed Girder	1	1	Job Reference (optional)	164360286

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries Inc. Wed Mar 20 09:09:18 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 II

3

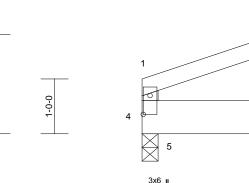
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Page: 1

2-5-4

12 4 Г





2-5-4

Scale = 1:21

1-9-12

	λ, τ). [5.∟uge,0-2-0],	[4.0-4-2,0-1-0]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.06	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 11 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD	2x4 SPF No.2 2x8 SP 2400F 2 0F		provided su	r other connecti fficient to suppo 1 174 lb up at 0	rt concentra	ited load(s) 1						

WEBS 2x4 SPF No.2 *Except* 2-3:2x3 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins. except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 3= Mechanical, 4=0-3-8 Max Horiz 4=55 (LC 7) Max Uplift 3=-50 (LC 8), 4=-161 (LC 4)

Max Grav 3=292 (LC 1), 4=1103 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-4=-80/33, 1-2=-52/9, 2-3=-73/31 BOT CHORD 3-4=-18/19

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 4 SP 2400F 2.0E , 4) Joint 3 SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 161 lb uplift at joint 4 and 50 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face 9) of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-2=-70, 3-4=-20
 - Concentrated Loads (lb)
 - Vert: 5=-1199 (F)

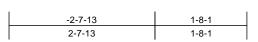




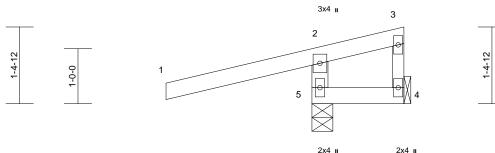
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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	J39	Diagonal Hip Girder	1	1	Job Reference (optional)	164360287

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries Inc. Wed Mar 20 09:09:19 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







2x4 II

1-8-1

Scale = 1:20.9												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 1-8-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-4-9 Max Horiz 5=70 (LC 7) Max Uplift 4=-129 (LC 1), 5=-241 (LC 4)
- Max Grav 4=98 (LC 4), 5=452 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-397/229, 1-2=0/45, 2-3=-16/25, 3-4=-70/102

BOT CHORD 4-5=-49/40

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 241 lb uplift at joint 5 and 129 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO		
B240051	J40	Jack-Open	3	1	Job Reference (optional)	164360288	

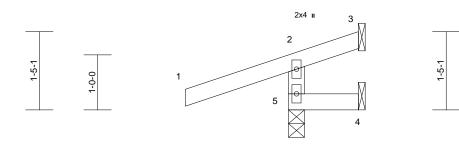
Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





2x4 II

1-3-4



Scale	= 1	·21	

Scale = 1:21						1	1					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2	2x4 SPF No.2 R802.10.2 and referenced standard ANSI/TPI 1.										
BRACING TOP CHORD BOT CHORD	Structural wood she 1-3-4 oc purlins, ex Rigid ceiling directly	cept end verticals.										

	bracing.	
REACTIONS	(size)	3= Mechanical, 4= Mechanical,
		5=0-3-8
	Max Horiz	5=41 (LC 5)
	Max Uplift	3=-57 (LC 1), 4=-21 (LC 1), 5=-151
	-	(LC 4)

		(LO +)
	Max Grav	3=33 (LC 4), 4=13 (LC 4), 5=320
		(LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	

TOP CHORD 2-5=-277/151, 1-2=0/45, 2-3=-43/10 BOT CHORD 4-5=0/0

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 4)
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 151 lb uplift at joint 5, 21 lb uplift at joint 4 and 57 lb uplift at joint 3.



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	LAY2	Lay-In Gable	1	1	Job Reference (optional)	164360289

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

31-1-14 || 0-3-4

30-10-10

5-9-13

6-1-0 25-0-13 6-1-0 18-11-13 3x4 🎣 3x4 💊 ____14 ⊠_____ 6 × 5 7 ⊠ 8 10 ⊠ 11 ⊠ 12 ⊠ _13 ⊠ 15 9 ⊠ Δ 16 3



Scale = 1:55.9

Plate Offsets (X, Y): [5:0-1-7,Edge], [15:0-1-7,Edge]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.09	Horiz(TL)	0.01	19	n/a	n/a		
BCDL		10.0	Code	IRC2	018/TPI2014	Matrix-S							Weight: 159 lb	FT = 10%
UMBER					FORCES	(lb) - Maximum C	Compressi	on/Maximum					ed at 0-0-0 oc.	
TOP CHORD						Tension	0 440/40	0 0 4 400/0	0				en designed for a	
BOT CHORD					TOP CHORD	1-2=-244/160, 2-		,	2,					any other live loads.
OTHERS	2x4 SPF	No.2				4-5=-69/81, 5-6=							een designed for a	a live load of 20.0ps
BRACING						7-8=-28/91, 8-9= 10-11=-28/91, 12	,	,	01					0
TOP CHORD			athing directly applied	d or		13-14=-28/91, 14		,	,				ier members.	between the bottom
		purlins, exc				16-17=-81/53, 17			02,				ssumed to be SP	E No 2
)-0 max.): 5-15.			18-19=-207/105	-10=-110	00,						others) of truss to
BOT CHORD		ling directly	applied or 10-0-0 oc		BOT CHORD	1-35=-71/160, 34	1-3571/1	60						ng 86 lb uplift at join
	bracing.					33-34=-71/160, 3								ft at joint 35, 143 lb
REACTIONS	(size)	1=31-1-14	4, 19=31-1-14,			31-32=-71/160, 3								33, 31 lb uplift at joir
			14, 21=31-1-14,			29-30=-71/160, 2								ft at joint 30, 34 lb
			14, 23=31-1-14,			26-28=-71/160, 2								28, 34 lb uplift at joir
			14, 25=31-1-14,			24-25=-71/160, 2		,						ft at joint 24, 31 lb
			14, 28=31-1-14,			22-23=-71/160, 2								2, 146 lb uplift at joir
			14, 30=31-1-14,			20-21=-71/160, 1							ft at joint 20.	
			14, 32=31-1-14,		WEBS	2-35=-144/127, 3							ned in accordanc	e with the 2018
			14, 34=31-1-14,			4-33=-137/60, 6-		,	62.					ions R502.11.1 and
		35=31-1-1				8-30=-140/57, 9-							ferenced standard	
		1=-163 (L	,			11-26=-140/58,		,	,					s not depict the size
	Max Uplift		C 6), 19=-45 (LC 7),			13-24=-142/62,							of the purlin along	
			LC 9), 21=-146 (LC 9	9),		16-22=-121/33,					ttom cho			,
			2 9), 23=-31 (LC 5),			18-20=-143/126		,						
			C 4), 25=-33 (LC 5),		NOTES								Con	m
			C 4), 28=-34 (LC 5),			d roof live loads ha	avo boon	considered for					TATE OF M	Also
			C 4), 30=-33 (LC 5),		this design		ave been					9	450	-20, W
			.C 4), 32=-31 (LC 5),			E 7-16; Vult=115r	nnh (3-co	cond quet)				A	NY	New mark
			.C 5), 34=-143 (LC 8)	,		ph; TCDL=6.0psf;			at			H	S/ NATHA	WIEL / Y Y
		35=-109 (Enclosed; MWFRS						K.	FO	X
	Max Grav		C 8), 19=142 (LC 9),	0)		eft and right expos						DA		
		•	_C 16), 21=217 (LC 1			ed; Lumber DOL=						- W 1	f.//	TTA
			_C 22), 23=176 (LC 2			igned for wind load						N L	ANK MANIA	V A MAS
			_C 21), 25=180 (LC 2	.∠),		tuds exposed to v						N	gyvyxnxo	BER
			_C 21), 28=180 (LC 1			ard Industry Gable						N.	ON PE-2022	042259
			_C 22), 30=180 (LC 2			qualified building c						(Y	12	1SA
			_C 22), 32=176 (LC 2			equate drainage to						1	A Ser	NO'A
			_C 15), 34=213 (LC 1	5),		re 2x4 MT20 unle			•				ONA	LETZ
		35=183 (L	_0 15)			ires continuous bo							PE-2022	Total I
					o, Gable lequ			u beanny.					March	21,2024
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Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUEDE MITEK REFERENCE PAGE MIL7473 rev. 1/2/20/23 BEHORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type		Qty	Ply	Lot 146 WO	
B240051	LAY2	Lay-In Gable		1	1	Job Reference (optional)	164360289
Wheeler Lumber, Waverly, KS -	66871,		Run: 8.73 S Feb 22 2	2024 Print: 8.	Page: 2		

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries. Inc. Wed Mar 20 09:09:19 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

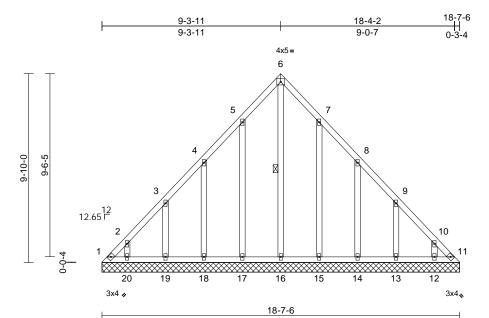
LOAD CASE(S) Standard

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



Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	LAY3	Lay-In Gable	2	1	Job Reference (optional)	164360290

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:60

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.16	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC20	018/TPI2014	Matrix-S							Weight: 98 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	6-0-0 oc purlins. Rigid ceiling direct	eathing directly applie ly applied or 10-0-0 or	ed or	NOTES 1) Unbalanced this design.	5-16=-207/27, 5-1 4-18=-160/150, 3- 2-20=-137/123, 7- 3-14=-161/151, 9- 10-12=-138/124 roof live loads hav	19=-168, 15=-171, 13=-168, /e been (/152, /146, /152, considered fo	r					
WEBS	bracing. 1 Row at midpt	6-16			7-16; Vult=115mp n; TCDL=6.0psf; B			∩at					
					closed; MWFRS (
	13=18-7 16=18-7 19=18-7 Max Uplift 1==51 (Max Uplift 1==-140 12=-106 14=-127 17=-124 19=-127 Max Grav 1=259 (12=173 14=201 16=231 18=200 20=173	(LC 6), 11=-98 (LC 7), (LC 9), 13=-127 (LC (LC 9), 15=-122 (LC (LC 8), 18=-126 (LC (LC 8), 20=-106 (LC (LC 8), 20=-106 (LC (LC 8), 11=231 (LC 9), (LC 16), 13=209 (LC (LC 16), 15=211 (LC 16), 15=211 (LC 16), 15=211 (LC 16), 15=209 (LC (LC 15), 19=209 (LC (LC 15))	-7-6, -7-6, 9), 9), 8), 8), 16), 16), 5), 15),	 cantilever lef right exposed Truss design only. For stu see Standard or consult qu All plates are Gable requir Gable studs This truss hat chord live loa * This truss for the bottor 3-06-00 tall b chord and ar 	t and right expose d; Lumber DOL=1. hed for wind loads uds exposed to wird d Industry Gable E alified building de: e 2x4 MT20 unless es continuous bott spaced at 2-0-0 or s been designed f ad nonconcurrent t has been designed n chord in all area by 2-00-00 wide wind by other members.	d; end v .60 plate in the p nd (norm nd Deta signer as otherwit tom chor c. for a 10.1 with any d for a liv s where s where	vertical left an grip DOL=1.4 lane of the tru al to the face ills as applicat s per ANSI/TF se indicated. d bearing. D psf bottom other live loar e load of 20.0 a rectangle veen the bottom	d 60 iss), ble, PI 1. ds. 0psf				THE OF I	MIC
FORCES	(lb) - Maximum Co Tension	mpression/Maximum		10) Provide mec	hanical connectior	n (by oth	ers) of truss to				1	TEOT	INSSO SET
TOP CHORD	1-2=-362/220, 2-3 4-5=-139/128, 5-6	264/186, 3-4=-165/1 113/192, 6-7=-88/17 22/79, 9-10=-226/128 -20=-108/233,	0, ,	1, 98 lb uplift uplift at joint joint 20, 122 127 lb uplift a	capable of withst at joint 11, 124 lb 18, 127 lb uplift at lb uplift at joint 15 at joint 13 and 106	uplift at joint 19, , 127 lb lb uplift	joint 17, 126 106 lb uplift a uplift at joint 1 at joint 12.	lb at				S NATHA	THEF IN A
	18-19=-108/233, 1 16-17=-108/233, 1 14-15=-108/233, 1	7-18=-108/233, 5-16=-108/233, 3-14=-108/233,		Ínternational	designed in accord Residential Code nd referenced star Standard	sections	s R502.11.1 a	nd			A L	PE-2022	042259

LOAD CASE(S) Standard

12-13=-108/233, 11-12=-108/233

March 21,2024

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Page: 1

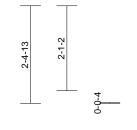
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

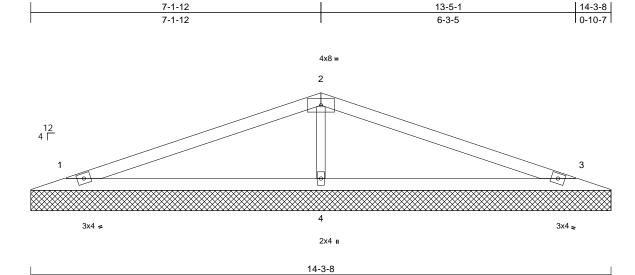


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	V3	Valley	1	1	Job Reference (optional)	164360291

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19 ID:46OpJgATn6f5Qv_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:28.4		I											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TF	기2014	CSI TC BC WB Matrix-S	0.57 0.32 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 33 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing.	applied or 10-0-0 oc 3=14-3-8, 4=14-3-8 12) C 4), 3=-58 (LC 9), 4= C 21), 3=253 (LC 22)	or 3- cch 8) Al 9) Pr be 1, 10) Tr In Ri E-58 LOAD	n the bottom 06-00 tall by nord and any Il bearings a rovide mech earing plate 58 lb uplift his truss is d ternational F	as been design o chord in all ar y 2-00-00 wide y other membe re assumed to nanical connect capable of witt at joint 3 and 5 lesigned in acc Residential Co d referenced s Standard	eas where will fit betw ers. be SPF No tion (by oth nstanding 5 i8 lb uplift a cordance w de sections	a rectangle veen the bott o.2. ers) of truss t 4 lb uplift at j t joint 4. ith the 2018 R502.11.1 a	om to joint					
this design 2) Wind: ASC Vasd=91n	1-4=-1/39, 3-4=-1/39 2-4=-450/133 ed roof live loads have	02/47 been considered for (3-second gust) :DL=6.0psf; h=25ff; C	Cat.									5500F	MISCOL

II; Exp C; Enclosed; MWFRS (envelope) exterior 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) Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc.

5) 6)

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



March 21,2024

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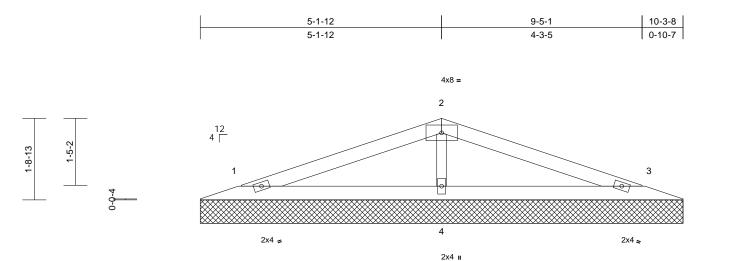


Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	V4	Valley	1	1	Job Reference (optional)	164360292

Run; 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19 ID:46OpJgATn6f5Qv_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-3-8





Scale = 1:24.6

Spacing	2-0-0										
Plate Grip DOL Lumber DOL Rep Stress Incr Code	1.15 1.15 YES	3/TPI2014	CSI TC BC WB Matrix-S	0.25 0.15 0.06	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 23 lb	GRIP 197/144 FT = 10%
y applied or 10-0-0 oc 3, 3=10-3-8, 4=10-3-8 2 8) C 4), 3=-40 (LC 9), 4= .C 21), 3=172 (LC 22)	10 40 LC	on the bottom 3-06-00 tall b chord and an All bearings a Provide med bearing plate 1, 40 lb uplift) This truss is International R802.10.2 ar	n chord in all area y 2-00-00 wide w y other members are assumed to b hanical connectic capable of withs at join 3 and 40 designed in acco Residential Code nd referenced sta	as where vill fit betw e SPF No n (by oth tanding 3 Ib uplift a rdance w e sections	a rectangle veen the botto c.2. ers) of truss to 7 lb uplift at jo t joint 4. ith the 2018 5 R502.11.1 a	o Dint					
9/32 66											
	Lumber DOL Rep Stress Incr Code eathing directly applie ly applied or 10-0-0 oc 8, 3=10-3-8, 4=10-3-8 C 8) .C 4), 3=-40 (LC 9), 4=	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018 7) eathing directly applied or 9) ly applied or 10-0-0 oc 10 8, 3=10-3-8, 4=10-3-8 C 8) C 4), 3=-40 (LC 9), 4=-40 LC LC 21), 3=172 (LC 22), LC 1) mpression/Maximum 9/32 26	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 7) * This truss h on the bottom 3-06-00 tall b chord and ar 8) All bearings a 9) Provide med bearing plate 1, 40 lb uplift 10) This truss is chord and ar 8) All bearings a 9) Provide med bearing plate 1, 40 lb uplift 10) This truss is international R802.10.2 ar LOAD CASE(S) 9/22 26	Lumber DOL 1.15 BC Rep Stress Incr YES WB Code IRC2018/TPI2014 Matrix-S 7) * This truss has been designe on the bottom chord in all area 3-06-00 tall by 2-00-00 wide w chord and any other members 8) All bearings are assumed to b eathing directly applied or by applied or 10-0-0 oc 7) 8, 3=10-3-8, 4=10-3-8 C8) 9 C 4), 3=-40 (LC 9), 4=-40 9) Horvide mechanical connection bearing plate capable of withs 1, 40 lb uplift at joint 3 and 40 LOAD CASE(S) Standard LOAD CASE(S) Standard	Lumber DOL 1.15 BC 0.15 Rep Stress Incr YES WB 0.06 Code IRC2018/TPI2014 Matrix-S * This truss has been designed for a liv on the bottom chord in all areas where 3-06-00 tall by 2-00-00 wide will fit betw chord and any other members. 7) * This truss has been designed for a liv on the bottom chord in all areas where 3-06-00 tall by 2-00-00 wide will fit betw chord and any other members. eathing directly applied or All bearings are assumed to be SPF Not bearing plate capable of withstanding 3 1, 40 lb uplift at joint 3 and 40 lb uplift at 0.15 ints russ is designed in accordance w International Residential Code sections R802.10.2 and referenced standard AN LOAD CASE(S) C 21), 3=-172 (LC 22), LC 1) Standard g/32 26	Lumber DOL 1.15 BC 0.15 Vert(TL) Rep Stress Incr YES WB 0.06 Horiz(TL) Code IRC2018/TPI2014 Matrix-S Matrix-S 7) * This truss has been designed for a live load of 20.0 on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottor chord and any other members. 8) eathing directly applied or All bearings are assumed to be SPF No.2. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4. 10) 10 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 a R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) LOAD CASE(S) Standard	Lumber DOL Rep Stress Incr 1.15 YES BC 0.15 WB Vert(TL) n/a Horiz(TL) 0.00 Code IRC2018/TPI2014 Matrix-S Vert(TL) n/a Horiz(TL) 0.00 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8) All bearings are assumed to be SPF No.2 . 9) 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 lb uplift at joint 4. 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. LOAD CASE(S) Standard 9/32 26	Lumber DOL Rep Stress Incr 1.15 YES BC 0.15 WB Vert(TL) n/a - Horiz(TL) 0.00 3 Code IRC2018/TPI2014 Matrix-S Matrix-S Vert(TL) n/a - Horiz(TL) 0.00 3 eathing directly applied or by applied or 10-0-0 oc B, 3=10-3-8, 4=10-3-8 C a) 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8) 8, 3=10-3-8, 4=10-3-8 C a) 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 lb uplift at joint 4. 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. LOAD CASE(S) Standard	Lumber DOL 1.15 BC 0.15 Vert(TL) n/a - n/a Rep Stress Incr YES WB 0.06 Horiz(TL) 0.00 3 n/a Code IRC2018/TPI2014 Matrix-S 70 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8) All bearings are assumed to be SPF No.2. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 lb uplift at joint 4. 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. LOAD CASE(S) Standard 9/322 9/32	Lumber DOL 1.15 BC 0.15 Vert(TL) n/a - n/a 999 Rep Stress Incr YES WB 0.06 Horiz(TL) 0.00 3 n/a n/a Code IRC2018/TPI2014 Matrix-S 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8) eathing directly applied or 9 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 lb uplift at joint 4. 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. LOAD CASE(S) Standard 9/32 9/32	Lumber DOL Rep Stress Incr1.15 YES IRC2018/TPI2014BC WB WB Matrix-SVer(TL) n/an/a- n/an/a999 999 Weight: 23 lb(add) CddIRC2018/TPI2014Matrix-SWB Matrix-S0.06Ver(TL) horz(TL)0.003n/an/aWeight: 23 lb(add) CddIRC2018/TPI2014Matrix-SWB0.06Ver(TL) horz(TL)0.003n/an/aWeight: 23 lb(add) CddIRC2018/TPI2014Matrix-SMatrix-SWeight: 23 lbWeight: 23 lbWeight: 23 lb(add) CddIRC2018/TPI2014Matrix-SSAll bearings are assumed to be SPF No.2.SSS(add) Cdd) Cdd9 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 lb uplift at joint 4.10This 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.(C 21), 3=172 (LC 22), C 1)CCStandard(g)/3226Standard

- 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) exterior 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.





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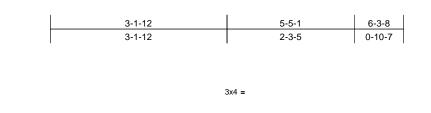


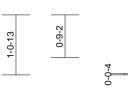
Job	Truss	Truss Type	Qty	Ply	Lot 146 WO	
B240051	V5	Valley	1	1	Job Reference (optional)	164360293

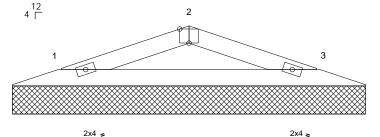
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19



 $\label{eq:linear} ID: 46 OpJgATn 6f5 Qv_RYxRc1 fz 4 SeV-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the set of the$







6-3-8

Scale = 1:20.5

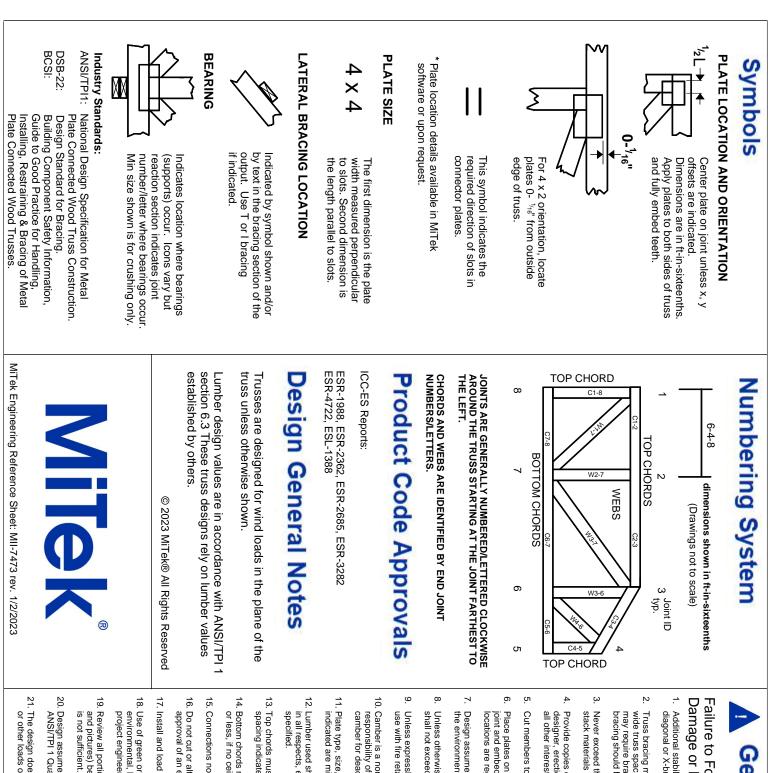
Plate Offsets (X, Y): [2:0-2-0,Edge]

Plate Offsets (X, Y): [2:0-2-0,Edge]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	CSI TC BC WB 4 Matrix-P	0.09 0.22 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 10%
	TOP CHORD 2x4 SPF No.2 bearing plate capable of withstanding 30 lb uplift at joint BOT CHORD 2x4 SPF No.2 bearing plate capable of withstanding 30 lb uplift at joint BRACING 1 and 30 lb uplift at joint 3. TOP CHORD Structural wood sheathing directly applied or 6-0-0 cc purlins. 10) This truss is designed in accordance with the 2018 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 and 30 lb uplift at joint 2. REACTIONS (size) 1 = 6-3-8, 3=6-3-8 Max Horiz 1 = -14 (LC 13) Max Grav 1 = 204 (LC 1), 3=204 (LC 1) FORCES (lb) - Maximum Compression/Maximum											
 this design Wind: ASC Vasd=91rr II; Exp C; I cantilever right expos Truss des only. For see Stand. 	1-3=-66/234 ed roof live loads have	been considered for (3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the tru (normal to the face) d Details as applicat	Cat. le; d 50 ss , ole,								STATE OF I	NIEL YE Y
 4) Gable requisition 5) Gable studies 6) This truss chord live 7) * This truss on the both 3-06-00 ta chord and 	utires continuous botton ds spaced at 2-0-0 oc. has been designed for load nonconcurrent wi s has been designed f tom chord in all areas ill by 2-00-00 wide will any other members. gs are assumed to be \$	m chord bearing. r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto	ds. psf							M	PE-2022	042259

March 21,2024

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)





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.