

MiTek, Inc. RE: B240013 - Lot 167 HM 16023 Swingley Ridge Rd. Site Information: Chesterfield, MO 63017 Project Customer: Summit Homes Project Name: 314.434.1200 Lot/Block: 167 Subdivision: Highland Meadows Model: Somerset - Mediterranean Address: 2771 SW 11th Terr 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 E7 E8 2/15/24 2/15/24 163626926 2/15/24 35 36 37 38 39 40 163626960 123456789111234 A1 2/15/24 2/15/24 2/15/24 2/15/24 163626927 A2 163626961 E9 F1 163626928 163626962 A3 2/15/24 A4 163626963 2/15/ 163626929 24 A5 A6 A7 F2 F3 163626964 163626930 2/15/24 2/15I63626931 I63626932 I63626933 163626965 2/15/24 163626966 163626967 J1 J2 J3 J4 41 42 43 44 45 46 47 2/15/24 2/15/24 A8 A9 2/15/24 2/15 163626933 163626934 163626935 163626936 163626937 2/15/24 163626968 2/15/24 A10 2/15/24 163626969 2/15/24 I63626970 I63626971 I63626972 J5 J6 J7 A11 2/15/24 2/15/24 A12 2/15/24 2/15/24 163626938 163626939 A13 B1 2/15/24 2/15/24 2/15/24 48 163626973 Ĵ8 2/15/24 15 16 17 18 163626940 163626941 B2 B3 163626974 163626975 2/15/24 4555555555556 Ĵ9 2/15/24 2/15/24 J10 2/15/24 B4 B5 163626942 2/15/24 163626976 Ĵ11 2/15 163626943 2/15/24 163626977 J12 2/15163626978 163626979 B6 2/15/24 19 20 21 22 23 24 25 26 27 29 30 32 33 33 33 163626944 J13 2/15/24 163626945 B7 2/15/24 J14 2/15 163626980 163626981 163626946 B8 C1 C2 C3 C4 D1 J15 2/15/24 2/15 163626947 2/15/24 J16 163626982 163626983 163626948 2/15/24 2/15/24 163626949 2/15/24 J18 163626950 163626951 163626984 163626985 2/15/24 2/15/24 2/15/24 2/15/2 J20 61 62 63 163626952 D2 163626986 2/15/24 2/15/24 163626953 2/15/ 163626987 D3 J22 2/15/24 E12 E23 E25 E50 163626954 15/2163626988 J23 2/15/24 64 65 66 67 163626955 163626989 J24 15 2/15/24 163626956 163626990 LAY1 2/15/24 15/2 163626957 LAY2 163626991 2/15/24 163626958 163626959 163626992 LAY3 F6 68 163626993 2/15/24

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]

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI** 03/05/2024 4:08:37



Nathan Fox



RE: B240013 - Lot 167 HM

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

No.	Seal#	Truss Name	Date
670 771 72 73 74 75 77 77 77 78 80 81 82 83 84 83 83 85	63626994 63626995 63626995 63626997 63626998 63627000 63627000 63627002 63627002 63627004 63627005 63627006 63627007 63627008 63627008 63627009 63627010	LAY5 LAY6 LAY7 LAY8 LAY9 LAY10 V1 V2 V3 V4 V5 V6 V5 V6 V7 V7 V8 V9 V11	2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24 2/15/24
~~			2, 10/24



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A1	Half Hip Girder	1	1	Job Reference (optional)	163626926

-0-10-8

0-10-8

4-11-4

4-11-4

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:36 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

11-9-12 14-0-0 6-10-8 2-2-4 6x6 = 13 15 6 14 5 \bowtie \bowtie





L	2-3-8	5-0-8	11-8-8	14-0-0	
ſ	2-3-8	2-9-0	6-8-0	2-3-8	

Scale = 1:32.7

Plate Offsets (X, Y): [2:Edge,0-0-7], [3:0-5-12,0-3-14]

Load TCLI TCD BCLI BCD	ling _ (roof) L _ L	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2011	8/TPI2014	CSI TC BC WB Matrix-S	0.85 0.98 0.66	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.25 0.22 0.12	(loc) 3-10 3-10 7 3-10	l/defl >999 >648 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 65 lb	GRIP 197/144 FT = 10%	
LUM TOP BOT WEB BRA TOP BOT REA	BER CHORD CHORD S CING CHORD CHORD CHORD	2x6 SP 2400F 2.0E 2100F 1.8E 2x6 SPF No.2 *Exc No.2, 8-7:2x4 SPF 2x3 SPF No.2 Structural wood shu 5-3-4 oc purlins, e: 2-0-0 oc purlins (4- Rigid ceiling directh bracing, Except: 6-0-0 oc bracing: 7 (size) 2=0-3-8, Max Horiz 2=118 (L Max Uplift 2=-188 (Max Grav 2=1091 ((lb) - Maximum Cor	*Except* 4-6:2x4 SF ept* 11-3,5-8:2x3 SP No.2 eathing directly applie coept end verticals, a 2-9 max.): 4-6. y applied or 10-0-0 or -8. 7=0-3-8 C 7) LC 8), 7=-158 (LC 5) LC 1), 7=-158 (LC 5) LC 1), 7=-1103 (LC 1)	5) F 6) 7) ed or nd 8) c 9) 10	* This truss h on the botton 3-06-00 tall b chord and an Bearings are SPF No.2. Provide mecl bearing plate 7 and 188 lb This truss is of International R802.10.2 ar Graphical pu or the orienta bottom chord Hanger(s) or provided suff down and 37 at 7-0-0.101	as been designed in chord in all areas by 2-00-00 wide will by other members. assumed to be: Joc hanical connection capable of withsta uplift at joint 2. designed in accord Residential Codes and referenced stan- rlin representation tion of the purlin a l. other connection of icient to support or lb up at 4-11-4, 11 b down and 35 lb	for a liv s where I fit betw bint 2 SF (by oth anding 1 lance wisections dard AN does no long the device(s oncentra 01 lb do	e load of 20.0 a rectangle een the both PF No.2, Join ers) of truss t 58 lb uplift at th the 2018 R502.11.1 a SI/TPI 1. t depict the s top and/or) shall be ted load(s) 9 wn and 35 lb -0-0. and 10	Opsf om nt 7 to t joint t joint size of lb o up j1 lb						
тор вот	CHORD CHORD	Tension 1-2=0/12, 2-3=-641 4-5=-2417/417, 5-6 6-7=-1050/181 2-11=-1/7, 3-11=-2: 9-10=-327/1733, 8- 7-9=-17(10)	/103, 3-4=-2481/401, =-1585/261, 2/169, 3-10=-472/240 9=0/63, 5-9=-821/25)0, 5,	down and 35 up at 13-0-0 up at 4-11-4 and 49 lb dow bottom chord device(s) is th	lb up at 11-0-0, a on top chord, and , 49 lb down at 7-0 wn at 11-0-0, and I. The design/select he responsibility of	nd 111 342 lb c 0-0, 49 l 53 lb dc ction of others.	b down and lown and 12- b down at 9- wn at 13-0-(such connec	46 lb 4 lb -0-0, 0 on tion				STOR N		
WEB 1) L 2) \ 2) \ 1 3) F 4) T	S ES Jnbalance his desigr Vind: ASC /asd=91n I; Exp C; I antilever ight expo: Provide ac This truss chord live	7-8=-17/19 4-10=0/264, 5-10=- 6-9=-345/1912 ed roof live loads have been control of the loads have control of the loads have control of the loads have control of the loads have sed; Lumber DOL=1.0 dequate drainage to p has been designed for load nonconcurrent w	181/713, 7-9=-47/57, e been considered fo h (3-second gust) CDL=6.0psf; h=25ft; (nvelope) exterior zor l; end vertical left an 30 plate grip DOL=1.0 revent water ponding or a 10.0 psf bottom vith any other live load	11 LC 1) r Cat. le; d 60 J. ds.) In the LOAD of the truss a DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-3 7-8=-20 Concentrate Vert: 4=-68 (E 18=-49 (E	CASE(S) section, re noted as front (I Standard of Live (balanced): ase=1.15 ads (lb/ft) =-70, 3-4=-70, 4-6= ed Loads (lb) 68 (B), 10=-342 (B) 3), 15=-85 (B), 16= 3), 19=-38 (B)	loads af F) or ba Lumber =-70, 2-), 12=-6 :-49 (B),	pplied to the strict (B). Increase=1. 11=-20, 3-9=- 8 (B), 13=-68 17=-49 (B),	face 15, -20, 3 (B),				NATHA FOI PE-20220	L ENGLISS	

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



February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A2	Half Hip	1	1	Job Reference (optional)	163626927



Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:38

Scale = 1:42.5

Plate Offsets (X, Y): [3:0-3-3,0-1-9], [4:0-4-0,0-1-15], [5:Edge,0-2-8], [8:0-3-8,0-1-8]

	, .). [e.e e e,e : e],	[],[], [,	-1									
oading	(nsf)	Spacing	2-0-0		CSI		DEEL	in	(loc)	l/defl	l /d	PLATES	GRIP	
	25.0	Plate Grin DOI	1 15		TC	0.71	Vert(LL)	-0.18	10-11	\037	360	MT20	197/144	
	10.0		1.10		BC	0.86	Vort(CT)	-0.32	10-11	~516	240	111120	10//111	
	0.0*	Ren Stress Incr	VES		WB	0.00	Horz(CT)	0.02	6	>010	240 n/a			
	0.0	Code			Notrity C	0.40		0.22	10 11	11/a	11/a	Waisht 50 lb	FT 400/	
SCDL	10.0	Code	IRC2018	/TPI2014	watrix-5		wind(LL)	0.16	10-11	>999	240	weight: 50 b	FI = 10%	
-UMBER TOP CHORD	2x4 SPF 2100F 1.8E	*Except* 4-5:2x4 S	5) PF	* This truss h on the botton	as been designed n chord in all area	d for a liv s where	e load of 20. a rectangle	0psf						
BOT CHORD WEBS	NO.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce No.2	pt* 9-7:2x3 SPF No. pt* 12-11,13-2:2x4 S	2 SPF 6) 7)	chord and an All bearings a Provide mec	y other members. are assumed to be hanical connection	e SPF No	o.2 . ers) of truss	to						
3RACING				bearing plate	capable of withst	anding 1	10 lb uplift a	t joint						
TOP CHORD	Structural wood shea 6-0-0 oc purlins, exo 2-0-0 oc purlins (6-0-	athing directly applie cept end verticals, ar -0 max.): 4-5.	ed or nd 8)	6 and 98 lb u This truss is International	plift at joint 13. designed in accor Residential Code	dance w sections	ith the 2018 R502.11.1 a	and						
BOT CHORD	Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 6-7	applied or 10-0-0 oc 7.	9)	Graphical pu or the orienta	rlin representation ation of the purlin a	does no along the	ot depict the set top and/or	size						
NEBS	1 Row at midpt	4-8		bottom chord										
REACTIONS	(size) 6=0-3-8, 1	3=0-3-8	LO	AD CASE(S)	Standard									
	Max Horiz 13=165 (L Max Uplift 6=-110 (LC Max Grav 6=616 (LC	LC 5) C 5), 13=-98 (LC 8) C 1), 13=693 (LC 1)												
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	1-2=0/32, 2-3=-305/3 4-5=-67/40, 6-8=-590 2-13=-721/130	35, 3-4=-1010/101, 0/125, 5-8=-236/100	,											
BOT CHORD	12-13=0/0, 3-11=-18 9-10=-184/863, 8-9= 6-7=-9/9	2/871, 10-11=-182/8 -191/868, 7-9=0/33,	371,									TE OF M	AISSO	ſ
NEBS	11-12=-17/69, 4-10=	0/343, 4-8=-875/144	1								A	N	- Cor	h l
NOTES											U	S/ NATHA	NIEL /	N
 Unbalance this design 	ed roof live loads have n.	been considered for									D	E E E	× Not	- T
 Wind: ASO Vasd=91n II; Exp C; cantilever right exposit 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed ; sed; Lumber DOL=1.60	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	Cat. e; d 60								ALL ALL	PE-2022	BER 042259	
 Provide ac This truss chord live 	dequate drainage to pre has been designed for load nonconcurrent wit	event water ponding a 10.0 psf bottom th any other live load	Is.								6	SIONA	L ENCE	
		,										February	15,2024	

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A3	Half Hip	1	1	Job Reference (optional)	163626928

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:39 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



2-1-12 ₀₋₁₋₁₂ 6-6-8 2-10-8 2-1-0 0-2-8		0.00		1000	
	2-1-12 ₀₋₁	-12 6-6-8	2-10-8	2-1-0 0-2-	-8

Scale = '	1:46.9
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Plate Offsets (X, Y):	[3:0-1-3,0-1-12], [4:0-4-0,0-1-15]

	, , ,). [e.e : e,e : 12],[
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.74 0.74 0.77	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.29 -0.54 0.28 0.29	(loc) 10-11 10-11 6 10-11	l/defl >574 >303 n/a >576	L/d 360 240 n/a 240	PLATES MT20 Weight: 51 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF 2100F 1.8E No.2 2x4 SPF No.2 *Exce 1.8E, 9-7:2x3 SPF N 2x3 SPF No.2 *Exce No.2 Structural wood shea 5-1-10 oc purlins, ea 2-0-0 oc purlins, (6-0 Rigid ceiling directly bracing. (size) 6=0-3-8, 1 Max Horiz 13=206 (L Max Uplift 6=-105 (L) Max Grav 6=616 (LC	*Except* 4-5:2x4 Si pt* 3-8:2x4 SPF 210 lo.2 pt* 12-11,13-2:2x4 S athing directly applie xcept end verticals, a -0 max.): 4-5. applied or 10-0-0 oc l3=0-3-8 .C 5), 13=-106 (LC 8) C 1), 13=693 (LC 1)	5) PF (00F (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 6 and 106 lb This truss is International R802.10.2 ar Graphical pu or the orienta bottom chorc DAD CASE(S)	has been designed in chord in all areas by 2-00-00 wide wi y other members. are assumed to be hanical connectior capable of withst uplift at joint 13. designed in accorr Residential Code and referenced star rlin representation ation of the purlin a l. Standard	I for a liv s where II fit betw SPF No (by oth anding 1 dance w sections ndard AN does no along the	e load of 20.0 a rectangle veen the botto o.2. ers) of truss t 05 lb uplift at ith the 2018 R502.11.1 a ISI/TPI 1. of depict the s top and/or	Opsf om to t joint and size						
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	1-2=0/32, 2-3=-337/3 4-5=-45/44, 6-8=-59 2-13=-726/147	34, 3-4=-789/91, 6/118, 5-8=-157/74,												
BOT CHORD	12-13=0/0, 3-11=-14 9-10=-147/628, 8-9= 6-7=0/15	5/635, 10-11=-145/6 -158/627, 7-9=0/41,	635,									OF M	Also	
WEBS	11-12=-23/73, 4-10=	0/368, 4-8=-790/140)								1	TIE	-20 M	
NOTES											B	NATUA		λ
 Unbalance this design 	ed roof live loads have n.	been considered for								F	-	FOL	NIEL K	8-
 Wind: ASC Vasd=91m II; Exp C; I cantilever right expos Provide ac This truss chord live 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6i dequate drainage to pri has been designed for 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 event water ponding : a 10.0 psf bottom th any other live load	Cat. e; d 50 ds.									PE-20220	BER 142259	

February 15,2024

DEVELORMENT SERVICES LEE'S SUMMIT'S MISSOURI 03/05/2024 4:08:37

TION IEW



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A4	Half Hip	1	1	Job Reference (optional)	163626929

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:39 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:48.3

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

Loa	ding	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCL	L (roof)	25.0	Plate Grip DOL	1.15		тс	0.65	Vert(LL)	-0.18	11-12	>886	360	MT20	197/144
TCE	DL	10.0	Lumber DOL	1.15		BC	0.99	Vert(CT)	-0.34	11-12	>483	240	MT18HS	197/144
BCL	L.	0.0*	Rep Stress Incr	YES		WB	0.41	Horz(CT)	0.18	7	n/a	n/a		
BCE	DL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.16	11-12	>999	240	Weight: 55 lb	FT = 10%
				0)	*				- <i>(</i>					
LUN	ABER			6)	^ I his truss h	as been designed	for a live	e load of 20.0	Upst					
IOF	CHORD	2x4 SPF No.2	** ** ** ** ** *	005	2 06 00 toll h	1 chord in all areas	s where	a reclangle	~ m					
BOI	CHORD	2x4 SPF No.2 *Exce	ept^ 13-12,10-8:2x3	SPF	chord and an	y 2-00-00 wide wi	II III Delw	een me bolu	om					
	De	INU.Z		a. 7)		y other members.		2						
		233 3FF NU.2 EXC	ept 14-2.2x4 SPF IN	8)	Refer to girde	r(s) for truss to trust		ections						
BRA			athing diseath on all		Provide mec	nanical connection	h (by oth	ers) of truss t	to.					
TOP	CHORD		athing directly appli-		bearing plate	capable of withsta	anding 3	Ib uplift at io	int					
		2-0-0 oc purlins, ex	$1 - 0 \mod 1$	inu	14 and 39 lb	uplift at joint 7.	J							
BOT		Rigid ceiling directly	/ applied or 2-2-0 oc	10) This truss is	designed in accord	dance wi	th the 2018						
001	ONOIND	bracing.			International	Residential Code	sections	R502.11.1 a	and					
RFA	CTIONS	(size) 7= Mech	anical 14-0-3-8		R802.10.2 ar	nd referenced stan	ndard AN	ISI/TPI 1.						
		Max Horiz 14=158 (11) Graphical pu	rlin representation	does no	ot depict the s	size					
		Max Uplift 7=-39 (1 ((1×3) (1×3)		or the orienta	tion of the purlin a	along the	top and/or						
		Max Grav 7=604 (L	C 1). 14=681 (LC 1)		bottom chord									
FOF	RCES	(lb) - Maximum Con	npression/Maximum	LC	DAD CASE(S)	Standard								
		Tension												
TOF	P CHORD	1-2=0/32, 2-3=-496/	0, 3-4=-977/22,											
		4-5=-1009/105, 5-6	=-5/2, 2-14=-705/43											
BOT	CHORD	13-14=-81/245, 12-	13=-16/68, 3-12=-25	/587,										
		11-12=-106/832, 10	-11=-37/266,											
		9-10=-26/270, 8-10	=0/26, 7-8=-21/0											
WE	BS	7-9=-583/55, 6-9=-8	39/21, 4-11=-446/14	4,										Th
		5-11=-109/897, 5-9	=-546/80										OFA	ALC D
NO	res .												FELL	1155
1)	Unbalance	ed roof live loads have	been considered to	r								6	A. T.	N.S.
2)	this design	1. 25 7 40: V/ult 445mm	(2 cocord such)									R	NATHA	NIEL VEN
2)	Vood 01m	DE 7-10; Vuit=115mpr	i (3-second gust)	Cat							+	-41	FO	X Y
	II: Eyn C: I	Enclosed: MWERS (e)	nvelone): cantilever	loft								₩ k	LA I	no tru
and right exposed : end vertical left and right exposed:										K	FHA.			
Lumber DOL=1.60 MAXI Kanton John John John John John John John Jo						JAS								
3)) Provide adequate drainage to prevent water ponding.						SER THUR							
4) All plates are MT20 plates unless otherwise indicated.						042259 / 8 4								
5) This truss has been designed for a 10.0 psf bottom					154									
	chord live	load nonconcurrent w	ith any other live loa	ds.									W STON	ENO
													WNA	L

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



February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A5	Half Hip	1	1	Job Reference (optional)	163626930

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:40 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:54.6

Plate Offsets (X, Y): [9:0-3-0,0-2-0], [12:0-4-0,0-0-8], [13: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		тс	0.60	Vert(LL)	-0.17	11-12	>930	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.97	Vert(CT)	-0.32	11-12	>499	240	MT18HS	197/144	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.43	Horz(CT)	0.19	7	n/a	n/a			
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.14	11-12	>999	240	Weight: 57 lb	FT = 10%	
			6)	* This truce h	as been designed	for a liv	e load of 20 (Opef						
	2v4 SPE No 2		0)	on the botton	n chord in all areas	s where	a rectangle	opsi						
BOT CHORD	2x4 SPF No 2 *Exce	nt* 13-12 10-8·2x3	SPF	3-06-00 tall b	v 2-00-00 wide wi	ll fit betw	een the botto	om						
	No.2	pt 10 12,10 0.2X0		chord and an	y other members.									
WEBS	2x3 SPF No.2 *Exce	pt* 14-2:2x4 SPF N	o.2 7)	All bearings a	are assumed to be	SPF No	o.2 .							
BRACING			8)	Refer to girde	er(s) for truss to tru	uss conr	ections.							
TOP CHORD	Structural wood shea	athing directly applie	ed or 9)	Provide mecl	nanical connection	(by oth	ers) of truss t	to						
	4-7-7 oc purlins, exe	cept end verticals, a	nd	bearing plate	capable of withsta	anding 4	5 lb uplift at j	joint						
	2-0-0 oc purlins (6-0	-0 max.): 5-6.	10	7 and 18 lb u	plift at joint 14.	donoo w	ith the 2019							
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	c it	International	Residential Code	sections	R502 11 1 a	and						
	bracing, Except:	10		R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.							
WEBS	1 Row at midnt	-12. 1-0	11) Graphical pu	rlin representation	does no	ot depict the s	size						
REACTIONS	(size) 7- Mecha			or the orienta	ition of the purlin a	long the	top and/or							
REACTIONS	Max Horiz 14-229 (I	(11021, 14=0.50)		bottom chord										
	Max Uplift 7=-45 (LC	28), 14=-18 (LC 8)	LC	DAD CASE(S)	Standard									
	Max Grav 7=604 (LC	C 1). 14=681 (LC 1)												
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORD	1-2=0/32, 2-3=-489/0	0, 3-4=-991/40,												
	4-5=-171/46, 5-6=-72	2/50, 7-9=-584/59,												
	6-9=-47/80, 2-14=-7	04/47	10.1.0											
BOT CHORD	13-14=-79/238, 12-1	3=-22/68, 3-12=-16	/613,										The	
	0-10-111/838 8-10	1=-90/800, $1=0/31 \ 7_8=-13/33$										OFA	ALC. D	
WEBS	4-11=0/352 4-9=-89	2/115 5-9=-281/10	2									FE	1080.0	
NOTES		2,110,00 201,10	-								G	N	New M	
1) Unbalance	ed roof live loads have	been considered fo	r								B	S/ NATHA	NIEL YC Y	
this design).		•								B	FO		
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									8 1	HI	1 AM	
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.								W/1	all sain	stak	
II; Exp C;	Enclosed; MWFRS (en	velope); cantilever	left								1 1	V UKUU	BER	
and right e	exposed ; end vertical I	ett and right expose	ed;								127	PE-2022	142259 159	
3) Provide or	UL=1.00 plate grip DO	L=1.00 event water ponding									N	The second	12 A	
4) All plates	are MT20 plates unless	s otherwise indicate	d.								X	1ºSer	JO'A	
5) This truss	has been designed for	r a 10.0 psf bottom	.									ONA	LEFA	
,														

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

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



Contractor

February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A6	Monopitch	4	1	Job Reference (optional)	163626931

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:40 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:49.9

Plate Offsets (X, Y): [7:0-4-9,0-2-8]

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	0.58	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.14	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.04	5-6	>999	240	Weight: 50 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

	EXTOL TOOL
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except* 7-2:2x6 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-11-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 3-5
REACTIONS	(size) 5= Mechanical, 7=0-3-8
	Max Horiz 7=245 (LC 7)
	Max Uplift 5=-55 (LC 8), 7=-16 (LC 8)
	Max Grav 5=600 (LC 1), 7=684 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/35, 2-3=-787/20, 3-4=-188/69,
	4-5=-195/51, 2-7=-615/57
BOT CHORD	6-7=-78/611, 5-6=-78/611
WEBS	3-6=0/302, 3-5=-693/108
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); 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 55 lb uplift at joint 5 and 16 lb uplift at joint 7. 7) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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 **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 167 HM	
B240013	A7	Monopitch	6	1	Job Reference (optional)	163626932

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:40 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



⁰⁻³⁻⁰ 2-8-5	7-6-0	13-8-14
0-3-8 2-4-13	4-9-11	6-2-14

Scale = 1:54.7

Plate Offsets	(X,	Y):	[9:0-1-15,Edge]
---------------	-----	-----	-----------------

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.92 0.77 0.96	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.20 0.10 0.07	(loc) 7-8 7-8 6 7-8	l/defl >999 >798 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 53 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 2.0E Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing. (size) 6= Mecha Max Horiz 9=233 (LC Max Uplift 6=-55 (LC	ept* 9-2:2x8 SP 2400 athing directly applie cept end verticals. applied or 10-0-0 oc anical, 9=0-3-8 C 5) S 8), 9=-16 (LC 8)	7) pF 8) ed or LC	Provide mecl bearing plate 6 and 16 lb u This truss is International R802.10.2 ar DAD CASE(S)	nanical connectior capable of withst plift at joint 9. designed in accorn Residential Code Id referenced star Standard	h (by oth anding 5 dance wi sections ndard AN	ers) of truss t 5 lb uplift at j th the 2018 R502.11.1 a SI/TPI 1.	o oint ind					
	Max Grav 6=596 (L0	C 1), 9=686 (LC 1)											
FORCES	(ID) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/37, 2-3=-1420	0/105, 3-4=-836/34,											
BOT CHORD WEBS	4-5=-170/59, 5-6=-1 8-9=-230/1183, 7-8= 3-8=-51/358, 3-7=-3 4-6=-818/109	69/49, 2-9=-984/85 =-201/1093, 6-7=-73/ 65/131, 4-7=0/327,	733										
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); 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. All bearings are assumed to be SPF No.2 . Refer to girder(s) for truss to truss connections. Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 										-		PE-20220	AISSOLUTE NIEL DA2259 SOLUTE L ENGINE

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



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A8	Monopitch	3	1	Job Reference (optional)	163626933

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:40 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	= 1:49.9
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Plate Offsets (X, Y): [8:Edge,0-3-8], [10:0-4-9,0-2-8]

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	0.50	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.10	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 55 lb	FT = 10%

LUMBER

2x4 SPF I	N0.2
2x4 SPF I	No.2 *Except* 8-4:2x3 SPF No.2
2x3 SPF I	No.2 *Except* 10-2:2x6 SPF No.2
Structural	wood sheathing directly applied or
5-11-7 oc	purlins, except end verticals.
Rigid ceili	ng directly applied or 10-0-0 oc
bracing.	
(size)	6= Mechanical, 10=0-3-8
Max Horiz	10=233 (LC 5)
Max Uplift	6=-55 (LC 8), 10=-15 (LC 8)
Max Grav	6=600 (LC 1), 10=684 (LC 1)
(lb) - Max	imum Compression/Maximum
Tension	
1-2=0/35,	2-3=-785/16, 3-4=-468/36,
4-5=-129/	58, 5-6=-118/37, 2-10=-608/51
9-10=-74/	612, 8-9=-74/612, 7-8=-24/286,
4-7=-5/29	9, 6-7=-53/392
3-9=0/164	1, 3-8=-326/67, 4-6=-562/82
	2x4 SPF I 2x3 SPF I 2x3 SPF I Structural 5-11-7 oci Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=0/35, 4-5=-129/ 9-10=-74/ 4-7=-5/29 3-9=0/164

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); 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 55 lb uplift at joint 6 and 15 lb uplift at joint 10.

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.

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 **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 167 HM	
B240013	A9	Half Hip	1	1	Job Reference (optional)	163626934

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:41 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

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

Loading 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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.44 0.51 0.66	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.27 0.03 0.02	(loc) 9-10 9-10 7 7-8	l/defl >999 >593 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 58 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce 1.8E Structural wood shee 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rioid ceiling directly	pt* 9-4:2x3 SPF No pt* 10-2:2x4 SPF 2 athing directly applie cept end verticals, a -0 max.): 5-6. applied or 10-0-0 o	6) .2 100F 7) 8) ed or 9) nd	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Refer to girdd Provide mec bearing plate 7 and 17 lb u) This truss is	as been designed n chord in all area by 2-00-00 wide wi y other members. are assumed to be er(s) for truss to tr hanical connection capable of withst plift at joint 10. designed in accor	I for a liv s where ill fit betv SPF No uss conr n (by oth anding 4 dance w	e load of 20. a rectangle veen the bott 0.2. nections. ers) of truss i 5 lb uplift at j ith the 2018	Opsf om to joint						
REACTIONS	(size) 7= Mecha Max Horiz 10=216 (L Max Uplift 7=-45 (LC Max Grav 7=609 (LC	nical, 10=0-3-8 .C 5) : 8), 10=-17 (LC 8) C 1), 10=672 (LC 1)	11	International R802.10.2 ar) Graphical pu or the orienta bottom chorc	Residential Code nd referenced star rlin representation ation of the purlin a l. Standard	sections ndard AN n does no along the	R502.11.1 a ISI/TPI 1. ISI depict the s top and/or	and size						
FORCES	(lb) - Maximum Com	pression/Maximum		AD CASE(S)	Stanuaru									
TOP CHORD	1-2=0/32, 2-3=-769/4 4-5=-145/49, 5-6=-7 2-10=-587/67	44, 3-4=-666/44, 7/55, 6-7=-57/70,												
BOT CHORD	9-10=-90/602, 8-9=-3	53/593, 4-8=0/342,												
WEBS	3-9=-731/138, 3-8=-6 5-7=-255/103	81/572, 4-7=-660/89	9,									Canto	ADD.	
NOTES I) Unbalance this design Wind: ASI Vasd=91r II; Exp C; and right of	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I	been considered fo (3-second gust) DL=6.0psf; h=25ft; (ivelope); cantilever l eft and right expose	r Cat. left ed;									STATE OF M NATHA FOL	ALSSOLA	

- Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3)
- The Fabrication Tolerance at joint 2 = 6%4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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



BER

PE-2022042259

February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A10	Half Hip	1	1	Job Reference (optional)	163626935

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:41 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Plate Offsets (X, Y): [10:0-1-15,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		тс	0.93	Vert(LL)	-0.11	8-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.73	Vert(CT)	-0.21	8-9	>769	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.41	Horz(CT)	0.09	7	n/a	n/a			
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S	-	Wind(LL)	0.06	8-9	>999	240	Weight: 54 lb	FT = 10%	
LUMBER			6)	All bearings a	are assumed to be	SPF No	.2 .							
TOP CHORD	2x4 SPF No.2		7)	Refer to girde	er(s) for truss to tru	ss conr	ections.							
BOT CHORD	2x4 SPF No.2		8)	Bearing at jo	int(s) 10 considers	parallel	to grain valu	ie						
WEBS	2x3 SPF No.2 *Exce	pt* 10-2:2x6 SP 240	00F	using ANSI/T	PI 1 angle to grain	formula	a. Building							
	2.0E			designer sho	uld verify capacity	of beari	ng surface.							
BRACING			9)	Provide mecl	hanical connection	(by oth	ers) of truss t	to						
TOP CHORD	Structural wood shea	athing directly applie	ed or	bearing plate	capable of withsta	nding 3	6 lb uplift at j	joint						
	2-2-0 oc purlins, exc	cept end verticals, a	nd	7 and 22 lb u	plift at joint 10.									
	2-0-0 oc purlins (6-0	-0 max.): 5-6.	10)	This truss is	designed in accord	ance w	th the 2018							
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	b	International	Residential Code s	sections	R502.11.1 a	and						
	bracing.			R802.10.2 ar	nd referenced stand	dard AN	ISI/TPL1.							
REACTIONS	(size) 7= Mecha	nical, 10=0-3-8	11)	Graphical pu	riin representation	does no	topict the s	size						
	Max Horiz 10=184 (L	-C 5)		bottom chord	alion of the putilitial	iong the	top and/or							
	Max Uplift 7=-36 (LC	5), 10=-22 (LC 8)			l. Otanaland									
	Max Grav 7=600 (LC	C 1), 10=684 (LC 1)	LO	AD CASE(S)	Standard									
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORD	1-2=0/35, 2-3=-1423	/91, 3-4=-1237/136,												
	4-5=-715/61, 5-6=-6	1/44, 6-7=-90/30,												
	2-10=-998/80	00/000 7.0 55/0	74											
	9-10=-190/1183, 8-9	-90/833, 7-8=-35/2	.71											
WEB5	3-9=0/207, 4-9=-105	/338, 4-8=-443/119, 50/56												
NOTES	5-6=-20/566, 5-7=-50	50/50										2000	TO	
	a di ana a f ille an da an	h	_									8 OF I	MICON	
 Unbalance this design 	ed roof live loads have	been considered to									4	9 TE	-0.0	
		(2 accord quat)									6	18	NSY	
2) Wind, ASC	one TCDI -6 Onef: BCI	DI -6 Opef: b-25ft: (` at								B	sy NATHA	NIEL YC Y	k.
	Enclosed: MW/ERS (en	velope): cantilever l	oft								R	FO.	X	
and right e	exposed · end vertical l	eft and right expose	d.								UA.	LA-	1 VK	ห
Lumber D	OL=1.60 plate grin DO	L=1.60	~,								WI	The	VI AI	2
3) Provide ad	dequate drainage to pre	event water ponding	I.								RIA.	N K amil	K // to	Ø
 This truss 	has been designed for	a 10.0 psf bottom									117	y / many	BER C	7
chord live	load nonconcurrent wit	th any other live load	ds.								N.	ON PE-2022	042259 / EL	1
5) * This trus	s has been designed for	or a live load of 20.0	psf								V	The last	158	
on the bot	tom chord in all areas	where a rectangle										A STON	ENOR	
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	m									WNA	L	
chord and	any other members.											Lan	555	

February 15,2024

DEVELORMENT: SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:38

TION IEW



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A11	Half Hip	1	1	Job Reference (optional)	163626936

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:41 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

13-8-14

4-10-14



8-10-0

6-1-11

2-8-5

2-4-13

0-3-8

	Scale =	1:44.2	
_			

Plate Offsets	(X,	Y):	[9:0-1-	15,Edge
---------------	-----	-----	---------	---------

Loodina	(201)	Specing	200	691		DEEL	in	(100)	l/dof	L /cł		CBID
	(pst)	Plate Grin DOI	∠-0-0 1 15		0.08		IN -0.15	(IUC) 7-9		260	MT20	107/1 <i>11</i>
	1) 25.0		1.15	BC	0.90	Vert(CT)	-0.15	7-0	>999	240	101120	197/144
BCU	0.0*	Ren Stress Incr	VES	WB	0.54	Horz(CT)	0.20	6	>000 n/a	n/a		
BCDI	10.0	Code	IRC2018/TPI2014	Matrix-S	0.07	Wind(LL)	0.12	7-8	~qqq	240	Weight: 52 lb	FT – 10%
DODL	10.0	oode	11(02010/1112014	Matrix O		WING(EE)	0.05	10	2000	240	Weight. 02 lb	11 = 1070
LUMBER			Refer to gi	der(s) for truss to tr	russ conn	ections.						
TOP CHO	RD 2x4 SPF No.2		Bearing at	joint(s) 9 considers	parallel t	o grain value	Э					
BOT CHO	RD 2x4 SPF No.2		using ANS	/TPI 1 angle to grai	in formula	a. Building						
WEBS	2x3 SPF No.2 *Exce	ept* 9-2:2x8 SP 2400	F designer s	nould verify capacity	y of beari	ng surface.						
	2.0E		9) Provide me	chanical connection	n (by othe tonding 2	E lb unlift of	t0 ioint					
BRACING			. 6 and 22 lb	unlift at joint 9	lanuing 5	o in uplin at	joint					
TOP CHO	RD Structural wood she	eathing directly applie	d, 10) This truss i	s designed in accor	dance wi	ith the 2018						
	(6.0.0 max): 4.5	s, and 2-0-0 oc purlins	Internation	al Residential Code	sections	R502.11.1 a	and					
вот сно	RD Rigid ceiling directly	applied or 2-2-0 oc	R802.10.2	and referenced star	ndard AN	ISI/TPI 1.						
Der one	bracing.		11) Graphical	ourlin representation	n does no	ot depict the	size					
REACTIO	NS (size) 6= Mecha	anical. 9=0-3-8	or the orier	tation of the purlin	along the	top and/or						
	Max Horiz 9=151 (L	C 5)	bottom cho	rd.								
	Max Uplift 6=-35 (LC	C 5), 9=-22 (LC 8)	LOAD CASE(S	5) Standard								
	Max Grav 6=596 (L	C 1), 9=686 (LC 1)										
FORCES	(lb) - Maximum Con	npression/Maximum										
	RD 1-2-0/37 2-3158	5/115 3-4666/21										
	4-5=-47/37, 5-6=-15	53/42, 2-9=-1024/73										
BOT CHO	RD 8-9=-180/1350, 7-8:	=-165/1249, 6-7=-51/	535									
WEBS	3-8=-8/418, 3-7=-71	4/162, 4-7=0/339,										
	4-6=-681/34											
NOTES												Th
1) Unbal	anced roof live loads have	e been considered for									OF	ALC D
this de	sign.										ASE	1155
2) Wind:	ASCE 7-16; Vult=115mpr	n (3-second gust)	N-4							6	AN'	N.S.Y
Vaso=	91mpn; TCDL=6.0psf; BC	DL=6.0pst; n=25π; C	vat.							8	S NATHA	NIEL YZY
n, ⊏∧µ and ri	the exposed - end vertical	left and right exposed	d.							B	FO	XV
Lumb	er DOL=1.60 plate grip DC	DL=1.60	α,							a na	LA	
3) Provid	e adequate drainage to p	revent water ponding								W/	ATT.	1 the
4) This ti	uss has been designed fo	or a 10.0 psf bottom								MG	XManad	
chord	live load nonconcurrent w	ith any other live load	ds.							117	DE 2022	042250
5) * This	truss has been designed	for a live load of 20.0	psf							N	FE-2022	2225 128
on the	bottom chord in all areas	where a rectangle	~							Y	1 C Pa	IN B
3-06-(o tail by 2-00-00 wide will	in between the botto	m								UNIA ONIA	LENA
chord	and any other members.										A TA	4

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

February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A12	Half Hip	1	1	Job Reference (optional)	163626937

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:42 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.8

Plate Offsets (X, Y):	[4:0-8-10,Edge],	[9:0-1-15,Edge]

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.94 0.74 0.19	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.37 0.12	(loc) 7-8 7-8 6	l/defl >931 >412 n/a	L/d 360 240 n/a	PLATES M18AHS MT20	GRIP 142/136 197/144	
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S		Wind(LL)	0.09	7-8	>999	240	Weight: 47 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 2.0E Structural wood shee 2-2-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 6=0-3-8, 9 Max Horiz 9=168 (LC Max Uplift 6=-102 (L Max Grav 6=567 (LC	pt* 9-2:2x6 SP 2400 athing directly applie cept end verticals, ar -0 max.): 4-5. applied or 10-0-0 oc 0=0-3-8 C 7) C 5), 9=-96 (LC 8) C 1), 9=-651 (LC 1)	7) 8) F 9) dor 10) 11) LOA	All bearings a Bearing at joi using ANSI/T designer sho Provide mech bearing plate 6 and 96 lb u This truss is of International R802.10.2 ar Graphical pu or the orienta bottom chord AD CASE(S)	are assumed to b int(s) 6, 9 conside Pl 1 angle to grai uld verify capacity nanical connectio capable of withs plift at joint 9. designed in accor Residential Code d referenced star rlin representation tion of the purlin Standard	e SPF No ers paralle in formula y of bearin n (by othe tanding 1 redance wi sections ndard AN n does no along the	b.2. a. Building ng surface. ers) of truss 02 lb uplift a th the 2018 R502.11.1 a SI/TPI 1. bt depict the top and/or	lue to t joint and size						
FORCES	(lb) - Maximum Com	pression/Maximum												
TOP CHORD	1-2=0/35, 2-3=-1429 4-5=-367/40, 5-6=-50)/196, 3-4=-1258/277 69/115, 2-9=-988/16	, 0											
BOT CHORD WEBS	8-9=-276/1203, 7-8= 3-8=0/213, 4-8=-174 5-7=-48/515	-191/650, 6-7=-62/4 /567, 4-7=-367/153,	8											
NOTES													~	
 Unbalanc this desig Wind: AS Vasd=91r II; Exp C; cantilever right expc Provide a All plates 	ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pri are MT20 plates unless	been considered for (3-second gust) DL=6.0psf; h=25ft; C welope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding s otherwise indicates	at. e; 1 00							-		STATE OF I	MISSOUP	

- ates are M120 plates unless otherw
- This truss has been designed for a 10.0 psf bottom 5)
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) 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.

A A A CENT PE-2022042259 C SSIONAL ET February 15,2024

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TION IEW DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:38

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	A13	Half Hip Girder	1	1	Job Reference (optional)	163626938

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:42 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.6

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [8:0-9-6,0-4-0], [10:0-2-8,0-4-8], [11:0-6-0,0-5-5]

		1											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.64	Vert(LL)	-0.08	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.81	Vert(CT)	-0.14	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.52	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC20 ⁷	8/TPI2014	Matrix-S		Wind(LL)	0.06	10-11	>999	240	Weight: 61 lb	FT = 10%
		•) * This truss h	as been designed	for a liv	e load of 20 ()nsf						
TOP CHORD	2x4 SPF No 2		0	on the botton	n chord in all areas	where	a rectangle	,po.					
BOT CHORD	2x8 SP 2400F 2.0E	*Except* 11-9:2x6 S	PF	3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botto	om					
	No.2, 8-7:2x4 SPF N	No.2		chord and an	y other members.								
WEBS	2x3 SPF No.2 6) Bearings are assumed to be: Joint 2 SP 2400F 2.0E,												
BRACING	Joint 7 SPF No.2.												
TOP CHORD	P CHORD Structural wood sheathing directly applied or 7) Bearing at joint(5) 7, 2 considers parallel to grain value												
3-2-6 oc purlins, except end verticals, and using ANSI/TPI 1 angle to grain formula. Building													
	2-0-0 oc purlins (4-0-13 max.): 4-6. designer should verify capacity of bearing surface.												
BOT CHORD	Rigid ceiling directly	g directly applied or 10-0-0 oc 8) Provide mechanical connection (by others) of truss to											
	6 0 0 oc bracing: 7	0		7 and 176 lb	uplift at joint 2.		oo io apiir at	Jonn					
DEACTIONS		0. 7 0 2 9	9) This truss is	designed in accord	ance w	ith the 2018						
REACTIONS	(Size) 2=0-3-0, Max Horiz 2=118 (L)	(7)		International	Residential Code s	sections	R502.11.1 a	nd					
	Max 1 Inlift 2-176 (L	(0.7) (0.8) 7-160 (1 (0.5))		R802.10.2 ar	nd referenced stand	dard AN	ISI/TPI 1.						
	Max Grav 2=997 (1)	C(1) = 7=957 (I C 1)	1	0) Graphical pu	rlin representation	does no	ot depict the s	size					
FORCES	(lb) - Maximum Con	noression/Maximum		or the orienta	ition of the purlin al	iong the	top and/or						
IONOLO	Tension	ipression/maximum	1	DOTION CHORD.									
TOP CHORD	1-2=0/8, 2-3=-2888/	/521, 3-4=-2219/383,		provided suff	icient to support co	ncentra	ted load(s) 1	05					
	4-5=-1337/229, 5-6=	=-1176/169,		lb down and	49 lb up at 4-11-4,	110 lb	down and 47	lb					
	7-9=-933/172, 6-9=-	-927/149		up at 7-0-0,	and 110 lb down a	nd 47 lb	up at 9-0-0,	and					
BOT CHORD	2-11=-551/2485, 10	-11=-494/2255,		110 lb down	and 47 lb up at 11	-0-0 on	top chord, an	nd					
WEDO	8-10=-406/1972, 8-9	9=-38/46, 7-8=-25/18	450	301 lb down	and 81 lb up at 4-1	11-4, 51	lb down at						Th
WEBS	3-11=-152/055, 4-10 5 9_ 570/212 6 9_	J=-00/089, 4-8=-00// 225/1/61 2 10- 26/	109, 1/124	7-0-0, and 51	Ib down at 9-0-0,	and 51	Ib down at	- I -				OFA	ATC D
NOTES	5-0=-579/215, 0-0=-	-223/1404, 3-10=-20-	+/134	11-0-0 0n b0	nom chora. The de	esign/se	election of suc	n				FRE	AND SCH
1) Unhalana	od roof live loads have	boon considered for	. 1	2) In the LOAD	CASE(S) section 1	loads a	onlied to the f	ace			6	AT	NSY
this desig	in			of the truss a	re noted as front (F	F) or ba	ck (B).				B	S/ NATHA	NIEL Y Y
 Wind: AS 	CE 7-16: Vult=115mph	(3-second aust)	L	OAD CASE(S)	Standard	,					N	A.FO	X
Vasd=91	mph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	Cat. 1) Dead + Roo	of Live (balanced):	Lumber	Increase=1.1	15,			W		
II; Exp C;	II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Plate Increase=1.15												
cantilever	r left and right exposed	; end vertical left and	k	Uniform Loa	ads (lb/ft)						W/	NV WAL	BER MAR
right expo	osed; Lumber DOL=1.6	60 plate grip DOL=1.6	50	Vert: 1-4:	=-70, 4-6=-70, 2-11	=-20, 8	-11=-20, 7-8=	-20			N7	PE-2022	42259 188
 Provide a This transition 	idequate drainage to pi	revent water ponding		Concentrate	ed Loads (lb)						N	-2022	2235/28
4) This truss chord live	s has been designed to	ith any other live load	10	Vert: 4=-	32 (⊢), 10=-301 (F)	, 12=-8	2 (F), 13=-82	(F),			Y	0'50	JO'A
				14=-82 (1	-), 15=-36 (F), 16=-	-36 (F),	17=-36 (F)					UN ONA	LETA
												Un in	

 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)



February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B1	Hip Girder	1	2	Job Reference (optional)	163626939

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:43 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.6

Plate Offsets	(X, Y): [1:0-3-0,0-1-8],	[2:0-6-0,0-0-15], [9	:0-2-8,Edge	e], [10:0-5-8,Ec	lge], [13:0-5-8,Ec	dge], [15:0	-8-4,0-6-8]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.84 0.71 0.98	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.31 -0.56 0.17 0.20	(loc) 13-14 13-14 10 13-14	l/defl >999 >770 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 462 lb	GRIP 197/144 142/136 FT = 10%			
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 *Exce 2100F 1.8E 2x4 SPF No.2 *Exce No.2, 17-15,12-10:2 2x3 SPF No.2 *Exce 19-2,17-2,11-7,11-9, 12-15:2x4 SPF 2100 Structural wood she	ept* 2-6,6-8:2x4 SPF ept* 20-18,14-13:2x6 x6 SP 2400F 2.0E ept* ,20-1:2x4 SPF No.2)F 1.8E athing directly appli	• W • • • • • • • • • • • • • • • • • •	EBS 2 DTES 2-ply truss to (0.131"x3") n	2-19=-5719/583, 2-17=-781/7508, 4-16=-440/103, 5 12-15=-832/8253 7-11=-4991/543, 3-11=-572/6361, 12-14=-44/415 b be connected to nails as follows:	17-19=-44 3-16=-51 -16=-209 -7-15=-22 8-11=-200 1-19=-538 ogether with	47/3891, 7/4957, 5/228, 22/1946,)/2404, 3/5705, th 10d		 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 600 lb uplift at joint 20 and 576 lb uplift at joint 10. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 							
BOT CHORD WEBS REACTIONS	 Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-4 max.): 2-8. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 2-19, 7-11 S (size) 10=0-3-8, 20=0-6-0 Max Horiz 20=-179 (LC 6) Max Grav 10=6862 (LC 1), 20=6809 (LC 1) To p chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been CASE(S) section. Ply to ply connections have been 															
FORCES	(lb) - Maximum Com Tension 1-2=-3678/398, 2-3= 3-4=-8980/917, 4-5= 5-7=-10411/1044, 7- 8-9=-6155/589, 9-10	5426/592, 8980/917, -8=-5420/541, -9=-6192/555,	3) 4)	provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mph	listribute only loa wise indicated. roof live loads ha 7-16; Vult=115m n; TCDL=6.0psf;	ds noted a ave been o nph (3-seo BCDL=6.0	as (F) or (B), considered fo ond gust) 0psf; h=25ft;	or Cat.				Fr OF M	Also			
BOT CHORD	1-20=-6413/598 19-20=-108/143, 18 17-18=-27/171, 3-17 16-17=-620/5537, 11 14-15=-49/822, 5-15 13-14=-25/343, 12-1 7-12=-112/1615, 11- 10-11=-25/43	-19=-36/241, 7=-3914/453, 5-16=-1069/10487, 5=-71/1127, 13=-69/991, -12=-901/9013,	and right exp Lumber DOL Provide adeo All plates are This truss ha chord live loa * This truss f on the bottor 3-06-00 tall £ chord and ar Bearings are 10 SP 2400F	Enclosed; MWFRS (envelope); cantilever left xposed; end vertical left and right exposed; DL=1.60 plate grip DOL=1.60 lequate drainage to prevent water ponding. rre MT20 plates unless otherwise indicated. has been designed for a 10.0 psf bottom load nonconcurrent with any other live loads. s has been designed for a live load of 20.0psf com chord in all areas where a rectangle II by 2-00-00 wide will fit between the bottom any other members, with BCDL = 10.0psf. are assumed to be: Joint 20 SPF No.2, Joint 0F 2.0E.					NATHANIEL FOX PE-2022042259							



February 15,2024

an

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

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B1	Hip Girder	1	2	Job Reference (optional)	163626939

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 14 11:02:43

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Wheeler Lumber, Waverly, KS - 66871,

13) Hanger(s) or other connection device(s) shall be

b) hanger(9) of other obtained on the concentrated load(s) 584 lb down and 51 lb up at 11-0-0, 584 lb down and 57 lb up at 13-0-0, 580 lb down and 67 lb up at 15-0-0, 576 lb down and 67 lb up at 17-0-0, 576 lb down and 67 lb up at 19-0-0, 576 lb down and 67 lb up at 21-0-0, 576 lb down and 67 lb up at 23-0-0, 576 lb down and 67 lb up at 25-0-0, 576 lb down and 67 lb up at 27-0-0, 580 lb down and 67 lb up at 29-0-0, 580 lb down and 67 lb up at 31-0-0, 580 lb down and 67 lb up at 33-0-0, 580 lb down and 67 lb up at 35-0-0, 580 lb down and 67 lb up at 37-0-0, 580 lb down and 67 lb up at 33-0-0, 580 lb down and 57 lb up at 35-0-0, 580 lb down and 67 lb up at 37-0-0, 580 lb down and 67 lb up at 39-0-0, 589 lb down and 57 lb up at 41-0-0, and 580 lb down and 48 lb up at 43-0-0, and 577 lb down and 46 lb up at 45-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 2-8=-70, 8-9=-70, 18-20=-20, 15-17=-20, 13-14=-20, 10-12=-20

Concentrated Loads (lb)

- Vert: 21=-584 (F), 22=-584 (F), 23=-580 (F), 24=-576 (F), 26=-576 (F), 27=-576 (F), 28=-576 (F), 29=-576 (F), 30=-576 (F), 31=-580 (F), 32=-580 (F), 33=-580 (F), 34=-580 (F), 36=-580 (F), 37=-580 (F), 38=-589
- (F), 39=-580 (F), 40=-577 (F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 167 HM	
B240013	B2	Нір	1	1	Job Reference (optional)	163626940

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:44 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.9

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grin DOI	1 15		TC	1 00	Vert(LL)	-0.21	10-12	<u>_</u> 000	360	MT20	197/144
	10.0		1.15		RC RC	0.07	Vort(CT)	0.21	10 12	>000	240		107/144
DOLL	10.0		1.15 VEC			0.57		-0.55	10-12	>333 m/n	240	WITTONIS	197/144
BOLL	0.0	Rep Siless Inci	TEO	TDIOGAL		0.56		0.09	9	11/a	11/a		FT 400/
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-S		Wind(LL)	0.09	12-14	>999	240	Weight: 156 lb	FI = 10%
			4)	All plates are	MT20 plates uple	ss other	wise indicate	he					
	2v4 CDE No 2			This trues ha	s been designed for	3301101) nef hottom	<i>.</i>					
	2X4 SPF NO.2		5)	chord live los	d popoopourront w	vith onv	other live log	de					
BOICHORD	2X4 SPF No.2					for a liv		105. Orof					
WEBS	2x3 SPF No.2 *Exce No.2	pt* 15-3,10-6:2x4 SF	PF 0)	on the botton	n chord in all areas	where	a rectangle	opsi					
BRACING 3-06-00 tall by 2-00-00 wide will fit between the bottom													
TOP CHORD	CHORD Structural wood sheathing directly applied chord and any other members, with BCDL = 10.0psf.												
except end verticals, and 2-0-0 oc purlins (3.7,7 max): 2.7 (3.7,7 max): 2.7													
	(3-7-7 max.). 2-7. Rigid ceiling directly	applied or 2-2-0 oc	-,	bearing plate	capable of withsta	anding 1	98 lb uplift at	t joint					
bor onone	bracing.			16 and 178 lt	o uplift at joint 9.								
WEBS	1 Row at midpt	3-15, 6-10, 1-16	9)	This truss is	designed in accord	lance w	ith the 2018						
REACTIONS	(size) 9=0-3-8, 1	6=0-3-8		International	Residential Code	sections	R502.11.1 a	and					
	Max Horiz 16=-205 (I	IC 4)		R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.						
	Max Inlift 9=-178 (I (C 4) 16=-198 (I C 5)	10	10) Graphical purlin representation does not depict the size									
	Max Grav 9=1731 (L	C 2), 16=1739 (LC 2	, 2)	or the orienta	tion of the purlin a	long the	top and/or						
FORCES	(lb) - Maximum Com	pression/Maximum	, ,		Otau da ed								
	Tension			DAD CASE(S)	Standard								
TOP CHORD	1-2=-1259/218. 2-3=	-1092/214.											
	3-4=-2175/354, 4-6=	-2289/365.											
	6-7=-1448/252, 7-8=	-1700/251.											
	8-9=-1637/210, 1-16	=-1690/220											
BOT CHORD	15-16=-150/168.14-	15=-381/1992.											
	12-14=-418/2332 10)-12=-365/2164										and	ADD
	9-10=-47/41											8 OF M	11000
WEBS	2-15=0/304, 3-15=-1	368/280, 3-14=-17/6	656,									7.TE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	4-14=-358/134, 4-12	=-170/106, 6-12=0/4	161,								4	N	New M
	6-10=-1119/253, 7-1	0=0/444,									B	S/ NATHA	NIEL YC Y
	8-10=-190/1598, 1-1	5=-202/1497								1	R	FO	
NOTES											U/k	LH.	
1) Unbalance	ed roof live loads have	been considered for									4 m		1222
this design).										NA	VI MANANA	K That
2) Wind: ASC	CE 7-16: Vult=115mph	(3-second aust)									12	S MORE	SEK L
Vasd=91m	nph: TCDL=6.0psf ⁻ BCI	DL=6.0psf: h=25ft C	Cat.								N'a	ON PE-20220	042259 / SH
II: Exp C· I	Enclosed: MWFRS (en	velope) exterior zon	e:								N	2	18A
cantilever	left and right exposed	: end vertical left and	4								N.	h Ser	NO'A
right expos	sed: Lumber DOI =1 60	0 plate grip DOI =1 6	50									ONA	LEFA
 Provide ac 	lequate drainage to pre	event water ponding										an	and a

February 15,2024

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:38

TION IEW



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B3	Нір	1	1	Job Reference (optional)	163626941

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:44 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:66.2

Plate Offsets (X, Y):	[1:Edge,0-2-11], [8:0-2-0,0-1-8], [9:0-3-8,Edge], [10:0-2-8,0-2-0]	

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	0.95 0.76 0.63	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.25 0.08 0.08	(loc) 11-13 11-13 9 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 170 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce SPF No.2 Structural wood shea except end verticals, (3-8-14 max.): 2-6. Rigid ceiling directly bracing. 1 Row at midpt (size) 9=0-3-8, 1 Max Horiz 17=-218 (I Max Uplift 9=-141 (LI Max Grav 9=1727 (L (Ib) - Maximum Com Tension 1-2=-1496/222, 2-3= 3-5=-2050/323, 5-6= 6-7=-1739/255, 7-8= 8-9=-1665/163, 1-17 16-17=-158/182, 14- 13-14=-324/1972, 11 10-11=-108/1134, 9- 2-16=0/340, 3-16=-1 3-13=-46/163, 5-13=	pt* 16-3,13-3,11-5:2x athing directly applied and 2-0-0 oc purlins applied or 10-0-0 oc 3-16, 5-11, 1-17 7=0-3-8 LC 4) C 4), 17=-157 (LC 5) C 2), 17=1740 (LC 2 pression/Maximum -1269/226, -1503/248, -1308/167, =-1641/192 16=-324/1972, I-13=-307/2050, 10=-47/37 119/221, 3-14=0/372 0/296, 5-11=-894/19	4) 5) 4 6) 1, 7) 8) 9) 10) LC	All plates are This truss has chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mect bearing plate 17 and 141 lt This truss is of International R802.10.2 ar) Graphical put or the orienta bottom chord DAD CASE(S)	MT20 plates unles s been designed fo d nonconcurrent w as been designed in c hord in all areas y 2-00-00 wide will y other members, v are assumed to be nanical connection capable of withsta o uplift at joint 9. designed in accord Residential Code s d referenced stand tion of the purlin al Standard	s other r a 10.0 ith any for a liv where fit betw with BC SPF No (by oth- nding 1 ance wi ections dard AN does no ong the	wise indicated o psf bottom other live load e load of 20.0p a rectangle even the botton DL = 10.0psf. 5.2. ers) of truss to 57 lb uplift at j th the 2018 R502.11.1 ar SI/TPI 1. t depict the si: top and/or	I. Is. psf m joint nd ze				ATE OF M	IISSOUL
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos	6-11=0/449, 7-11=-1 8-10=-107/1509, 1-1 ed roof live loads have b DE 7-16; Vult=115mph iph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed sed; Lumber DOL=1.60	been considered for (3-second gust) DL=6.0psf; h=25ft; Cr velope) exterior zone ; end vertical left and 0 plate grip DOL=1.60	27, 27, at. >; 0									NATHAI FOX FOX POX PE-20220 PE-20220	HER HARD

right exposed; Lumber DOL=1.60 plate grip DOL=1.603) Provide adequate drainage to prevent water ponding.

Contra February 15,2024



TION IEW DEVELOPMENT SERVICES LEE'S'SUMMIT,SMISSOURI 03/05/2024 4:08:38

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B4	Нір	1	1	Job Reference (optional)	163626942

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:44 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:66.6

Plate Offsets (X, Y): [8:0-2-0,0-1-8], [9:0-3-8,Edge], [10:0-2-8,0-2-0]

3) Provide adequate drainage to prevent water ponding.

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	0.54	Vert(LL)	-0.25	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.43	15-16	>999	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES		WB	0.80	Horz(CT)	0.07	9	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.06	11-13	>999	240	Weight: 164 lb	FT = 10%
			4)	All plates are	MT20 plates unles	ss other	wise indicate	d.					
TOP CHORD	2X4 SPF No.2		5)	chord live loc	s been designed it	vith any	other live lea	de					
BOICHORD	2X4 SPF No.2		6)	* This trues h		for a liv		us. Inef					
WEBS	2X3 SPF N0.2		0)	on the botton	n chord in all areas	where	e loau ol 20.0	ры					
BRACING	0 (m	and the second second second lite		3-06-00 tall b	v 2-00-00 wide will	l fit betw	leen the bott	om					
TOP CHORD	Structural wood sr	eathing directly applie	ed or	chord and an	v other members.	with BC	DL = 10.0psf						
	2-0-0 oc purlins, e	except end verticals, a	nd 7)	All bearings a	are assumed to be	SPF No).2 .						
BOT CHORD	Rigid ceiling direct bracing. Except:	ly applied or 10-0-0 or	c 8)	bearing plate	capable of withsta	nding 1	17 lb uplift at	io i joint					
	2-2-0 oc bracing:	13-15.		16 and 136 ll	o uplift at joint 9.								
WEBS	1 Row at midpt	2-16, 4-15, 5-13, 5-	11 ⁹⁾	This truss is	designed in accord	lance w	ith the 2018						
REACTIONS	(size) 9=0-3-8	. 16=0-3-8		International	Residential Code s	sections	R502.11.1 a	ind					
	Max Horiz 16=-231	(LC 6)		R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.						
	Max Uplift 9=-136	(LC 9), 16=-117 (LC 8	3) 10)) Graphical pu	rlin representation	does no	ot depict the s	size					
	Max Grav 9=1724	(LC 2), 16=1769 (LC	, 2)	or the orienta	ition of the purlin a	long the	top and/or						
FORCES	(lb) - Maximum Co Tension	mpression/Maximum	Ĺ	DAD CASE(S)	Standard								
TOP CHORD	1-2=-106/79, 2-3=	-1596/211, 3-4=-1366	/209,										
	4-5=-1828/238, 5-	6=-1523/224,											
	6-7=-1776/229, 7-	8=-1515/158,											
	8-9=-1639/160, 1-	16=-100/47											
BUICHURD	10-10=-207/830, 1	3-13=-239/1742,										000	The
	0 10- 42/27	10-11=-107/1300,										A OF M	ALC. D
WEBS	9-10=-43/37 2-161749/171 2	-1581/815 3-15-0/	426									FRE	AND SCH
WEBO	4-15772/197 4-	13-0/323 5-13-60/1	77								6	AN AN	N.S.
	5-11=-600/177 6-	11=-2/486 7-11=-86/4	111								R	S NATHA	NIEL
	7-10=-704/120. 8-	10=-95/1550	,								1	EO2	
NOTES											06	11	1 m Fr
1) Unbalance	ad roof live loads hav	e been considered fo	r								W	17# V	J. LEN
this design			•								XL	A KARA	W Mark
 Wind: AS0 	 CE 7-16: Vult=115mr	h (3-second aust)									NB	sy - never	EK L
Vasd=91n	nph: TCDL=6.0psf: B	CDL=6.0psf; h=25ft: (Cat.								N	ON PE-20220	042259
II; Exp C;	Enclosed; MWFRS (envelope) exterior zor	ne;								Q	The last	188
cantilever	left and right expose	d ; end vertical left an	d									138 A	NO'B
right expo	sed; Lumber DOL=1	.60 plate grip DOL=1.0	60									ONA	LEIS

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)



Course

February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B5	Half Hip	1	1	Job Reference (optional)	163626943

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:45 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.7 Plate Offsets (X, Y): [3:0-4-0,0-1-15]

Loading	(psf)	Spacing	2-0-0		CSI	0.70	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	25.0	Fiate Grip DOL	1.15			0.76	Vert(LL)	-0.27	9-10	>999	300	WI120	197/144
BCU	10.0	Ren Stress Incr	VES		WB	0.74		-0.45	9-10	>022 n/a	240 n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	0.07	Wind(LL)	-0.02	6-7	>999	240	Weight: 119 lb	FT = 10%
		•	6)	All bearings	are assumed to h		2	-				_	
	2x4 SPF No 2		7)	Provide mec	hanical connectio	on (by oth	ers) of truss t	to					
BOT CHORD	2x4 SPF No 2		• • • •	bearing plate	e capable of withs	standing 2	36 lb uplift at	t ioint					
WEBS	2x3 SPF No.2 *Exce	pt* 5-6.9-4.6-4:2x4	SPF	6 and 105 lb	uplift at joint 10.	5							
	No.2		8)	This truss is	designed in acco	ordance wi	ith the 2018						
BRACING				International	Residential Code	e sections	R502.11.1 a	and					
TOP CHORD	Structural wood she	athing directly appli	ed or	R802.10.2 a	nd referenced sta	andard AN	ISI/TPI 1.						
	5-8-4 oc purlins, ex	cept end verticals, a	and 9)	Graphical pu	Irlin representatio	on does no	ot depict the s	size					
	2-0-0 oc purlins (5-1	1-7 max.): 3-5.		bottom chore		along the	top anu/or						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o		DAD CASE(S)	standard								
WEBS	1 Row at midot	5-6 3-0 4-0 4-6 2	2_10		Otaridard								
DEACTIONS		0-0, 0-9, 4-9, 4-0, 2	-10										
REACTIONS	Max Horiz 10=349 (I	C 5)											
	Max Uplift 6=-236 (L	.C 5), 10=-105 (LC 8	8)										
	Max Grav 6=1168 (L	_C 2), 10=1153 (LC	2)										
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=-106/79, 2-3=-9	17/118, 3-4=-760/14	44, 7										
BOT CHORD	9-10=-305/548, 7-9=	=-230/732, 6-7=-230	/)/732										
WEBS	2-9=-45/401, 3-9=-6	7/152, 4-9=-72/129	,										
	4-7=0/423, 4-6=-112	29/244, 2-10=-1049/	/158										The
NOTES												O DE M	ALL OF
1) Unbalance	ed roof live loads have	been considered for	or									ARENT	ISS OF
this design	n.	(a									6	A.M.	N.S.
2) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)	0-4								R	S NATHA	NIEL
Vasa=91n	npn; TCDL=6.0pst; BC	DL=6.0pst; n=25tt;	Cat.								-A	FO	x Y
cantilever	left and right exposed	· end vertical left an	ne, nd										A MAY
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.	.60								N	TAT	VI HA.
3) Provide ad	dequate drainage to pr	event water ponding	g.								ML	N/Name	et J lan
4) This truss	has been designed for	r a 10.0 psf bottom	-								Wy		042250 AB
abard live	load nonconsurrent wi	th any other live log	do								IN I	1 N PE-2022	042239 1 45 M

chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5)

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B6	Half Hip	1	1	Job Reference (optional)	163626944

Scale = 1:58.4

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:45 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [1:Edge,0-2-11], [2:0-4-0,0-1-15], [5:Edge,0-2-8]

											_		
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		тс	0.81	Vert(LL)	-0.16	6-7	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.78	Vert(CT)	-0.27	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.87	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	-0.05	6-7	>999	240	Weight: 105 lb	FT = 10%
			7)	Drovido moo		(by oth	oro) of truco	to		-			
			7)	bearing plate	capable of withst	anding 2	22 lb unlift a	lU tioint					
	2X4 SPF NO.2			6 and 89 lb u	nlift at joint 10		.52 ib upint a	t joint					
	2X4 SFF NU.2		8)	This truss is	designed in accord	dance wi	ith the 2018						
VEDS	2X3 3PF NU.2		0)	International	Residential Code	sections	R502 11 1 2	and					
	Other strengthere and all a	- de la se allas a de sia a de la		R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.						
OP CHORD	Structural wood she	athing directly applie	aor 9)	Graphical pu	rlin representation	does no	ot depict the	size					
	2-2-0 oc purlins, ex	cept end verticals, ar	na -,	or the orienta	ation of the purlin a	along the	top and/or						
	2-0-0 oc punins (6-0	-0 max.): 2-5.		bottom chord	l.	J							
	bracing	applied of 10-0-0 oc	Ĺ	DAD CASE(S)	Standard								
VEBS	1 Row at midnt	5-6 3-0 3-7 1-6		(-)									
		0.000											
CEACTIONS	(SIZE) $0=0-3-0, I$	0=0-3-0											
	Max Holiz 10=306 (L	(0,0)											
		(10), $10=-89$ (LC 8)	ור										
		LC 2), 10=1120 (LC 2	<u><</u>)										
ORCES	(lb) - Maximum Com Tension	pression/Maximum											
OP CHORD	1-2=-907/118. 2-3=-	743/133. 3-4=-809/1	47.										
	4-5=-114/84, 5-6=-1	45/74, 1-10=-1030/1	16										
BOT CHORD	9-10=-281/168, 7-9=	-272/869, 6-7=-205/	602										
VEBS	2-9=-112/131, 3-9=-	286/145, 3-7=-262/1	63,										
	4-7=-35/611, 4-6=-1	087/258, 1-9=-99/86	5										
NOTES													m
) Unbalanc	ed roof live loads have	been considered for										A	and the
this desig	٦.											B.F. OF M	ALSS W
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									E	1 AL	No
Vasd=91r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	Cat.								B	NATHA	NIFI XA
II; Exp C;	Enclosed; MWFRS (er	velope) exterior zon	e;								R		
cantilever	left and right exposed	; end vertical left and	ł								21	FU2	
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	60								8/7	Ltt	1 H
 Provide a 	dequate drainage to pr	event water ponding	_								YX /		1/ 17 / 14

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4)
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. All bearings are assumed to be SPF No.2. 6)

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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 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 167 HM	
B240013	B7	Half Hip	1	1	Job Reference (optional)	163626945

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:45

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Wheeler Lumber, Waverly, KS - 66871,

10-2-0 16-11-8 4-11-4 23-6-0 4-11-4 5-2-12 6-9-8 6-6-8 1<u>2</u> 6 3x4 = 3x4 = 2x4 🛛 4x5= 6x6 = 7-2₋₁₀ 3 ⊠ 0-1-11 <u>-</u>---2 4 5 6 \bowtie \bowtie \bowtie \bowtie \bowtie \bowtie \bowtie \bowtie \bowtie 5 2x4 II 1 7-0-15 7-2-10 7-0-15 7-0-15 X 4-9-0 7 11 ۰, Ø 149 8 12 13 10 15 16 3x6= 3x4 II 4x5= 3x4= 4x8= 7-6-10 16-11-8 23-6-0 7-6-10 9-4-14 6-6-8 Scale = 1:51.5

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-S	0.69 0.84 0.73	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.23 -0.38 0.02 0.04	(loc) 8-10 8-10 7 8-10	l/defl >999 >730 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 101 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ep 2-0-0 oc purlins (5-7 Rigid ceiling directly bracing. 1 Row at midpt (size) 7=0-3-8, Max Horiz 11=266 (eathing directly applie coept end verticals, ar 7-10 max.): 2-6. 7 applied or 10-0-0 oc 6-7, 3-8, 2-11 11=0-3-8 LC 7)	6) 7) 8) ed or nd 9) c LO	All bearings a Provide mech bearing plate 7 and 94 lb u This truss is of International R802.10.2 ar Graphical pur or the orienta bottom chord AD CASE(S)	are assumed to be nanical connection capable of withsta plift at joint 11. designed in accord Residential Code s d referenced stan lin representation tion of the purlin a Standard	SPF No (by oth anding 2 lance wi sections dard AN does no long the	b.2. ers) of truss to 27 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. to depict the s top and/or	o joint nd ize					
FORCES	Max Horiz $11=266$ (Max Uplift $7=-227$ (I Max Grav $7=1155$ ((Ib) - Maximum Cont	LC 7) LC 5), 11=-94 (LC 4) LC 2), 11=1151 (LC 2 npression/Maximum	2)										
TOP CHORD BOT CHORD WEBS	Tension 1-2=-131/99, 2-3=-8 5-6=-856/180, 6-7= 10-11=-257/651, 8- 2-10=-71/714, 3-10 5-8=-519/222, 6-8=	397/146, 3-5=-856/18 -1045/247, 1-11=-164 10=-299/986, 7-8=-96 =-375/196, 3-8=-184/ -246/1233,	80, 8/71 6/71 /101,										
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91n II; Exp C; cantilever right expo 3) Provide ac 4) This truss chord live 5) * This trus on the bot 3-06-00 ta chord and	2-11=-1100/177 ed roof live loads have b. CE 7-16; Vult=115mpf nph; TCDL=6.0psf; BC Enclosed; MWFRS (e left and right exposed sed; Lumber DOL=1.6 dequate drainage to p has been designed fo load nonconcurrent w s has been designed tom chord in all areas any other members, w	e been considered for (3-second gust) CDL=6.0psf; h=25ft; C nvelope) exterior zon ; end vertical left and 50 plate grip DOL=1.6 revent water ponding or a 10.0 psf bottom ith any other live load for a live load of 20.0 where a rectangle fit between the botto with BCDL = 10.0psf.							T /		PE-20220 February	AISSOLUTION	

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	B8	Half Hip	1	1	Job Reference (optional)	163626946

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:46 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [2:0-3-5.Edge], [6:Edge.0-2-8]

	(, .). [=	[===g=;= = =]												
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	0.63 0.56 0.99	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.29 -0.49 0.03 0.04	(loc) 10-11 10-11 7 8-10	l/defl >963 >570 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 97 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF 2400F 2.0E No.2 2x3 SPF No.2 Structural wood she: 6-0-0 cc purlins, exi 2-0-0 oc purlins (4-7 Rigid ceiling directly	*Except* 9-7:2x4 S athing directly applie cept end verticals, a -3 max.): 2-6. applied or 10-0-0 or	5) SPF 6) ed or 7) nd c 8)	* This truss h on the bottor 3-06-00 tall b chord and ar Bearings are Joint 7 SPF I Provide mec bearing plate 7 and 140 lb This truss is	has been designed in chord in all area by 2-00-00 wide w by other members assumed to be: J No.2. hanical connection e capable of withst uplift at joint 11. designed in accor	d for a liv is where ill fit betv , with BC loint 11 \$ n (by oth canding 2 dance w	e load of 20. a rectangle veen the bott DL = 10.0ps SPF 2400F 2 ers) of truss i 21 lb uplift a ith the 2018	0psf om f. .0E , to t joint						
WEBS REACTIONS	bracing. 1 Row at midpt (size) 7=0-3-8, 1 Max Horiz 11=225 (L Max Uplift 7=-221 (L Max Grav 7=1134 (L	5-7, 2-11 11=0-3-8 .C 5) C 5), 11=-140 (LC 4 .C 2), 11=1138 (LC	9)) LC 2)	International R802.10.2 an Graphical pu or the orienta bottom chorc DAD CASE(S)	Residential Code nd referenced star Irlin representatior ation of the purlin a d. Standard	sections ndard AN n does no along the	R502.11.1 a ISI/TPI 1. t depict the s top and/or	and size						
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
	1-2=-109/71, 2-3=-1 5-6=-84/64, 6-7=-203	195/210, 3-5=-1194/ 3/88, 1-11=-107/42	/209,											
WEBS	7-8=-258/1035 2-10=-158/993, 3-10 5-10=-62/208, 5-8=0 2-11=-997/253	0=-238/1033,)=-506/208,)/344, 5-7=-1331/27(0,									OF I	des sin	
NOTES											4	9 TE	-0.0	
 Unbalanci this desig Wind: ASI Vasd=91r II; Exp C; cantilever right expo Provide a 	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=1.6i dequate drainage to pri	been considered for (3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left and 0 plate grip DOL=1.6 event water ponding	r Cat. ne; d 60 J.							ſ	R.	NATHA FO PE-2022	NIEL X BER 042259	A DO

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

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Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	C1	Half Hip	1	1	Job Reference (optional)	163626947

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:46 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.5

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

			_											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0 F	Plate Grip DOL	1.15		тс	0.83	Vert(LL)	-0.25	15-16	>999	360	MT20	197/144	
TCDL	10.0 L	Lumber DOL	1.15		BC	0.78	Vert(CT)	-0.49	15-16	>811	240	M18AHS	142/136	
BCLL	0.0* F	Rep Stress Incr	YES		WB	0.76	Horz(CT)	0.25	10	n/a	n/a			
BCDL	10.0 0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.19	15-16	>999	240	Weight: 143 lb	FT = 10%	
			2)	Wind: ASCE	7-16: Vult=115mp	h (3-seo	cond aust)							
	2x4 SPE No 2 *Excent	* 1-4·2x4 SPF 210)F _/	Vasd=91mpl	n: TCDL=6.0psf: B	CDL=6.	Dpsf: h=25ft:	Cat.						
	1 8F		51	II: Exp C: En	closed: MWFRS (e	envelop	e) exterior zo	ne:						
	2x4 SPE No 2 *Excent	* 2-16·2x10 SP 24	00F	cantilever lef	t and right exposed	d:end	ertical left ar	nd						
	2 0F 16-14-2x4 SPF 2	2100F 1 8F 8-11-2	x3	right exposed	: Lumber DOL=1.	60 plate	arip DOL=1.	.60						
	SPF No.2		3)	Provide adec	uate drainage to p	revent	water pondin	q.						
WEBS	2x3 SPF No.2 *Except*	* 16-3.15-3:2x4 SP	νF 4)	All plates are	MT20 plates unle	ss othei	wise indicate	ed.						
	No.2		5)	This truss ha	s been designed fo	or a 10.) psf bottom							
			- /	chord live loa	ad nonconcurrent v	vith anv	other live loa	ads.						
	Structural wood sheath	hing directly applied	1 or 6)	* This truss h	as been designed	for a liv	e load of 20.	0psf						
	2-2-0 oc purlins excer	ont end verticals an	h lo r	on the bottor	n chord in all areas	where	a rectangle							
	2-0-0 oc purlins (3-4-1	max): 4-9	ŭ	3-06-00 tall b	y 2-00-00 wide wil	I fit betv	veen the bott	tom						
	Rigid ceiling directly ar	nolied or 6-0-0 oc		chord and ar	y other members.									
	bracing		7)	All bearings a	are assumed to be	SPF N	o.2 .							
WEBS	1 Row at midpt 9-	-10, 3-15, 6-12	8)	Bearing at jo	int(s) 2 considers p	barallel	o grain value	Э						
REACTIONS	(size) 2-0-3-8 10-	-0-3-8		using ANSI/1	PI 1 angle to grair	n formul	a. Building							
LAGHONO	Max Horiz 2 = 241 (1 C 7)	=0 0 0 7)		designer sho	uld verify capacity	of bear	ng surface.							
	Max 1012 2=241 (LC 7	') 8) 10–₋271 (I C 5)	9)	Provide mec	hanical connection	(by oth	ers) of truss	to						
	Max Gray 2=1560 (LC	(1), 10 = 1/105 (1 C 1))	bearing plate	capable of withsta	anding 2	271 lb uplift a	t joint						
		, 1), 10–1433 (LO 1)	10 and 159 ll	b uplift at joint 2.									
FORCES	(Ib) - Maximum Compr	ression/Maximum	10)	This truss is	designed in accord	lance w	ith the 2018							
		000 0 4 0007/054		International	Residential Code	sections	R502.11.1 a	and						
I OP CHORD	1-2=0/14, 2-3=-5296/6	086, 3-4=-2697/351	,	R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.							
	4-5=-2303/341, 5-6=-2	2039/380,	11)	Graphical pu	rlin representation	does no	ot depict the	size					M	
	0-8=-15/4/2/0, 8-9=-1	1570/278,		or the orienta	ation of the purlin a	long the	e top and/or					S OF M	ALCON	
	9-10=-1438/307	0 770/4040		bottom chord	1.							ALE OF T	USS A	
BOTCHORD	2-10=-835/4729, 15-16	0=-//9/4342, 12 /05/2257	LO	AD CASE(S)	Standard						4		N.S.	
	11 12_0/122 0 12-1	13=-495/2557,	6								H	NATHA	NIEL YPY	1
WEBS	3-16-167/1444 3-15-	+2/190, 10-11=-13/ 20/0//07	0								g	FO		0
**LD0	4-1531/716 5-155	- 20+3/+3/,									KA		'n Vie	N
	5-13158/102 6-13-0	0/380 6-121040/	199									Litt	11 15	2
	10-12=-81/74 9-12=-3	884/2006	,								NT		Y CM	12
NOTES											MA	XVMAKA	SER VIE	XU
	ad soof live loods been be	aan aanaldanad for									NZ	PE-2022	142259 18	7
u unoalance	-n rool live loads have he	een considered tor									V		I MADO I NOT.	1

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

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



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SIONAL

February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	C2	Half Hip	1	1	Job Reference (optional)	163626948

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:47 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.4

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

cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

	(7, 1). [2:0 12,0 0 10], [1.0 T 0,0 T 10]											
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	0.84 0.92 0.80	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.29 -0.60 0.27 0.23	(loc) 14-15 12-14 10 14-15	l/defl >999 >661 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 134 lb	GRIP 197/144 142/136 FT = 10%
2022		0000			induite o			0.20		- 000	2.0	troigita to the	
LUMBER TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce 2.0E, 16-13:2x4 SPF SPF No 2	ept* 2-16:2x10 SP 24 F 2100F 1.8E, 8-11::	3) 4) 400F 5) 2x3 6)	Provide ade All plates are This truss ha chord live lo * This truss l	quate drainage to e MT20 plates unle as been designed ad nonconcurrent has been designed	prevent v ess other for a 10.0 with any d for a liv	water ponding wise indicate) psf bottom other live loa e load of 20.0	g. d. ds.)psf					
WEBS BRACING	2x3 SPF No.2 *Exce	pt* 16-3:2x4 SPF N	0.2	on the botton 3-06-00 tall I	m chord in all area by 2-00-00 wide w	as where vill fit betv	a rectangle	om					
TOP CHORD	2-2-0 oc purlins, ex 2-0-0 oc purlins (2-8	athing directly applie cept end verticals, a -15 max.): 4-9.	ed or ind 7) 8)	All bearings Bearing at jo	are assumed to b bint(s) 2 considers	e SPF No parallel 1	o.2 . o grain value						
BOT CHORD	Rigid ceiling directly bracing.	applied or 2-2-0 oc		designer sho	ould verify capacity	y of bear	ng surface.						
WEBS	1 Row at midpt	9-10, 3-15, 5-15, 6-	12 9)	Provide med	hanical connectio	n (by oth	ers) of truss t	0					
REACTIONS	(size) 2=0-3-8, 1 Max Horiz 2=199 (LC Max Uplift 2=-153 (L Max Grav 2=1569 (L	10=0-3-8 C 7) C 5), 10=-274 (LC 5 -C 1), 10=1495 (LC	5) 10) 1)	10 and 153 l This truss is International	b uplift at joint 2. designed in accou Residential Code	rdance w sections	ith the 2018 R502.11.1 a	nd					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	, 11	Graphical pu or the orient	Ind referenced sta Irlin representation ation of the purlin	ndard An n does no along the	ot depict the s	size					
TOP CHORD	1-2=0/14, 2-3=-5099 4-5=-2563/401, 5-6= 6-8=-1999/354, 8-9= 9-10=-1437/309	9/730, 3-4=-2937/42 3262/514, 1987/358,	4, LC	bottom chore AD CASE(S)	d. Standard								
BOT CHORD	2-16=-825/4513, 15- 14-15=-662/3289, 12 11-12=0/122, 8-12=-	-16=-763/4145, 2-14=-630/3069, -464/196, 10-11=-16	5/8									E OF M	AISSO
WEBS	3-16=-194/1367, 3-1 4-15=-68/884, 5-15= 6-14=0/383, 6-12=-1 9-12=-451/2343	5=-1595/346, -976/279, 5-14=-43 255/249, 10-12=-58	/150, 3/67,								Å	ST NATHA FOZ	NIEL P
NOTES											81	HAL .	p p a
1) Unbalance	ed roof live loads have	been considered fo	r								8-	a hand	BER TAT
2) Wind AS	⊓. CF 7-16 [,] Vult=115mph	(3-second qust)									N	O PE-20220	042259 SA
Vasd=91r	nph: TCDL=6.0psf BC	DL=6.0psf: h=25ft* (Cat.								N	The last	18A
II; Exp C;	Enclosed; MWFRS (er	velope) exterior zor	ne;								X	1.380	NO'A



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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	C3	Half Hip	1	1	Job Reference (optional)	163626949

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:47 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

TION

IFW

February 15,2024



Scale = 1:64.4

Plate Offsets (X, Y): [2:0-3-12,0-2-0]

			-											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.85	Vert(LL)	-0.41	13-15	>971	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.62	Vert(CT)	-0.75	13-15	>531	240	M18AHS	142/136	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.92	Horz(CT)	0.29	10	n/a	n/a	MT18HS	197/144	
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.33	13-15	>999	240	Weight: 131 lb	FT = 10%	
			- 1									-		
LUMBER			2)	Wind: ASCE	7-16; Vult=115mph	1 (3-sec	cond gust)	• •						
TOP CHORD	2x4 SPF No.2 *Exce	pt* 4-7:2x4 SPF 210	0F	Vasd=91mpr	n; TCDL=6.0psf; BC	DL=6.	Jpsf; n=25ft;	Cat.						
	1.8E			II; EXP C; EN	CIOSED; IVIVVERS (ei	nvelope	e) exterior zor	ne;						
BOICHORD	2X4 SPF 2100F 1.8E	2 CDE No 2 44 40/2	5P	right exposed	t and fight exposed		arin DOI -1	10 60						
	2400F 2.0E, 8-11:2X	3 SPF NO.2, 11-10:2	X4 3)	Provide adec	u ate drainage to pr	rovent v	vater ponding	.00 a						
NERS	2v2 SDE No 2 *Evoo	nt* 12 0.2v4 SDE No	(2 4)	All plates are	MT20 plates unles	s other	wise indicate	g. ad						
WEBS	ZXJ OFF INU.Z EXCE	pt 12-9.2x4 OFF NU	·.2 +) 5)	This trues ha	s heen designed fo	r a 10 i) nef hottom	<i>.</i>						
	Other strengthere and all all a	- 4		chord live loa	ad nonconcurrent w	ith anv	other live loa	aha						
I OP CHURD	3 a conversion and sheat	aming directly applied	uor d 6)	* This truss h	as been designed f	for a liv	e load of 20.0	Opsf						
	2-2-9 00 purins, ext		iu -/	on the bottor	n chord in all areas	where	a rectangle	-1						
	Pigid ceiling directly	applied or 8-7-5 oc		3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botte	om						
	hracing			chord and ar	y other members.									
WEBS	1 Row at midpt	6-12	7)	Bearings are	assumed to be: Jo	int 2 SI	2400F 2.0E	,						
REACTIONS	(size) 2-0-3-8 1	0-0-3-8		Joint 10 SPF	No.2 .									
	Max Horiz 2-157 (I C	7)	8)	Bearing at jo	int(s) 2 considers pa	arallel t	o grain value	9						
	Max I Inlift 2=-182 (1)	C 5) 10=-277 (I C 5)		using ANSI/1	PI 1 angle to grain	formula	a. Building							
	Max Grav 2=1569 (L	C(1) = 10 = 1495 (IC)		designer sho	uld verify capacity of	of bear	ng surface.							
FORCES	(lb) Maximum Com		/ 9)	Provide mec	nanical connection	(by oth	ers) of truss t	to						
FORCES		pression/maximum		bearing plate	capable of withsta	nding 2	17 Ib uplift at	t joint						
	1-2=0/8 2-3=-4815/2	756 3-4=-3264/526	10)	TU and T82 II	o upint at joint 2.		ith the 2019							
	4-5=-4416/790. 5-6=	-4414/788.	10,	International	Residential Code s	ance w	R502 11 1 a	and						
	6-8=-2718/499, 8-9=	-2692/499.		R802 10 2 a	d referenced stand	Aard AN	IQI/TDI 1	anu						
	9-10=-1431/314	,	11)	Graphical pu	rlin representation (does no	of denict the s	size				Sugar	TOP	
BOT CHORD	2-17=-799/4202, 16-	17=-740/3896,	,	or the orients	ation of the purlin al	ona the	top and/or	5120				A OF M	Alson	
	15-16=-553/2906, 13	3-15=-836/4332,		bottom chord	l.	ong					1	7.50	~0.V	
	12-13=-836/4332, 11	1-12=0/122,	10	AD CASE(S)	Standard						A	N		8
	8-12=-490/205, 10-1	1=-3/53		//2 0//02(0)	olandara						H	S/ NATHA	NIEL YC	X
WEBS	3-17=-207/1273, 4-1	6=0/432,									K	FO		A
	4-15=-375/1727, 5-1	5=-543/217,										14	1-1	k li
	6-15=-44/94, 6-13=0	/292, 6-12=-1741/30	0,								8/1	Att ~	1 A	2
	10-12=-67/43, 9-12=	-580/2954,									V -	a l'hani	Do J K	
	3-16=-1027/208										27	DE 2022	10050	S B
NOTES											N.	PE-20220	142239	A
1) Unbalance	d roof live loads have	been considered for									Y	Nº CO	1.5	7
this design											6	STON:	FN	8
												ANNA		
												Ma	as a	

NOTES



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	C4	Half Hip Girder	1	2	Job Reference (optional)	163626950

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:49 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.3

Plate Offsets (X, Y): [2:0-3-12,0-2-0],	[14:0-8-0,0-7-0], [18:0-2-0,0-4	4-8], [19:0-4-0,	,0-5-4]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.79 0.65 0.91	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.61 -1.10 0.33 0.45	(loc) 15-17 15-17 11 15-17	l/defl >656 >363 n/a >884	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 373 lb	GRIP 197/144 186/179 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x6 SPF No.2 *Except 2x6 SP 2400F 2.0E *E 2400F 2.0E, 8-13:2x4 SPF No.2 2x4 SPF No.2 Structural wood sheatt 4-1-1 oc purlins, exce 2-0-0 oc purlins (3-6-1 Rigid ceiling directly a bracing. 1 Row at midpt 5- (size) 2=0-3-8, 11 Max Horiz 2=109 (LC Max Uplift 2=-341 (LC Max Grav 2=2557 (LC (lb) - Maximum Compu	t* 1-4:2x4 SPF No Except* 2-19:2x8 S SPF No.2, 13-11: thing directly applic tend verticals, a 44 max.): 4-10. pplied or 10-0-0 or -18 =0-3-8 7) 5), 11=-351 (LC 5 5), 11=-351 (LC 5 5), 11=2562 (LC ression/Maximum	1) .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	2-ply truss to (0.131"x3") r Top chords c oc, 2x6 - 2 rc Bottom chorr staggered at oc, 2x4 - 1 rc Web connec All loads are except if note CASE(S) see provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mpJ II; Exp C; En cantilever lef	b be connected tog nails as follows: connected as follo bws staggered at (ds connected as follo bws staggered at (ds connected as fol- 0-9-0 oc, 2x6 - 2 bw at 0-9-0 oc. ted as follows: 2x- considered equal ed as front (F) or t ction. Ply to ply co distribute only load wise indicated. roof live loads hav 7-16; Vult=115mp h; TCDL=6.0psf; E closed; MWFRS (gether wi ws: 2x4 - 0-9-0 oc. ollows: 2 rows sta 4 - 1 row ly applie- back (B) innection is noted ve been of bacDL=6. genveloped; end v	th 10d 1 row at 0-6 x8 - 2 rows ggered at 0-9 at 0-9-0 oc. d to all plies, face in the L0 s have been as (F) or (B), considered for cond gust) Dpsf; h=25ft; a) exterior zo vertical left ar	G-0 DAD Dr Cat. ne; nd	13) Gra or tt bott	phical p ne orient om chor	urlin re tation c	presentation doe f the purlin along	s not depict the size the top and/or
TOP CHORD	1 ension 1-2=0/8, 2-3=-7585/11 4-5=-6491/991, 5-6=-1 6-8=-12590/1767, 8-9: 9-10=-67/34, 10-11=-2	166, 3-4=-7191/10 12590/1767, =-10509/1492, 236/87	78, 5) 6) 7)	right exposed Provide adec All plates are This truss ha	d; Lumber DOL=1 quate drainage to MT20 plates unle as been designed	.60 plate prevent v ess other for a 10.0	grip DOL=1 water pondin wise indicate) psf bottom	.60 g. ed.					
BOT CHORD	2-19=-1101/6581, 18- 17-18=-1736/11672, 1 14-15=-1627/11171, 1 8-14=-795/244, 12-13: 11-12=-501/3488	19=-1029/6212, 5-17=-1736/11672 3-14=0/125, =-109/634,	2, 3)	* This truss h on the bottor 3-06-00 tall b chord and ar Bearings are	nas been designed n chord in all area by 2-00-00 wide w ny other members	d for a liv s where ill fit betv loint 2 S	e load of 20. a rectangle veen the bott	opsf om			A	STATE OF M	AISSOL R
WEBS NOTES	3-19=-192/883, 4-18= 5-18=-5372/759, 5-17: 6-15=-755/279, 8-15= 12-14=-413/3004, 9-14 9-12=-851/243, 9-11= 3-18=-104/690	-244/2260, =0/374, 5-15=-109 -194/1473, 4=-1095/7436, -4091/562,	9)/999, 10 11 12	Joint 11 SPF) Bearing at jo using ANSI/I designer sho) Provide mec bearing plate 11 and 341 I) This truss is International B202 40 2 2	int(s) 2 considers FPI 1 angle to grai uld verify capacity hanical connection e capable of withst b uplift at joint 2. designed in accor Residential Code	parallel t in formula y of bear n (by oth tanding 3 rdance w	o grain value a. Building ng surface. ers) of truss 51 lb uplift a R502.11.1	to t joint				PE-20220	L ENGINE

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

Continued on page 2 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)

ION EW DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:38

February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	C4	Half Hip Girder	1	2	Job Reference (optional)	163626950

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 14 11:02:49

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Wheeler Lumber, Waverly, KS - 66871,

14) Hanger(s) or other connection device(s) shall be

provided sufficient to support concentrated load(s) 105 Ib down and 49 lb up at 4-11-4, 110 lb down and 47 lb up at 7-0-0, 110 lb down and 47 lb up at 9-0-0, 110 lb down and 47 lb up at 11-0-0, 110 lb down and 47 lb up at 13-0-0, 110 lb down and 47 lb up at 15-0-0, 110 lb down and 47 lb up at 17-0-0, 110 lb down and 47 lb up at 19-0-0, 110 lb down and 47 lb up at 21-0-0, 110 lb down and 47 lb up at 23-0-0, 110 lb down and 47 lb up at 25-0-0, 109 lb down and 47 lb up at 27-0-0, 109 lb down and 47 lb up at 29-0-0, and 109 lb down and 47 lb up at 31-0-0, and 121 lb down and 44 lb up at 33-0-0 on top chord, and 300 lb down and 76 lb up at 4-11-4, 51 lb down at 7-0-0, 51 lb down at 9-0-0, 51 lb down at 11-0-0, 51 lb down at 13-0-0, 51 lb down at 15-0-0, 51 Ib down at 17-0-0, 51 Ib down at 19-0-0, 51 Ib down at 21-0-0, 51 lb down at 23-0-0, 51 lb down at 25-0-0, 51 Ib down at 27-0-0, 51 lb down at 29-0-0, and 51 lb down at 31-0-0, and 64 lb down at 33-0-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-4=-70, 4-10=-70, 2-19=-20, 14-19=-20, 11-13=-20
 - Concentrated Loads (lb)
 - Vert: 4=-82 (B), 7=-82 (B), 16=-36 (B), 18=-300 (B),
 - 12=-37 (B), 9=-81 (B), 20=-82 (B), 21=-82 (B),
 - 22=-82 (B), 23=-82 (B), 24=-82 (B), 25=-82 (B),
 - 26=-82 (B), 27=-82 (B), 28=-82 (B), 29=-81 (B),
 - 30=-81 (B), 31=-104 (B), 32=-36 (B), 33=-36 (B),
 - 34=-36 (B), 35=-36 (B), 36=-36 (B), 37=-36 (B), 38=-36 (B), 39=-36 (B), 40=-36 (B), 41=-37 (B),

 - 42=-37 (B), 43=-43 (B)

 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 167 HM	
B240013	D1	Hip Girder	1	1	Job Reference (optional)	163626951

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:49 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







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

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	0.28	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.03	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.01	8-9	>999	240	Weight: 26 lb	FT = 10%
LUMBER			7) Provide me	chanical connecti	ion (by othe	ers) of truss	to					
TOP CHORD	2x4 SPF No.2		bearing pla	te capable of with	standing 1	08 lb uplift at	t joint					
BOT CHORD	2x4 SPF No.2		10 and 108	lb uplift at joint 7.	•							
WEBS	2x3 SPF No.2 *Exce No.2	pt* 10-2,7-5:2x4 SPF	= 8) This truss i Internation	s designed in accord al Residential Coc	ordance wi de sections	th the 2018 R502.11.1 a	and					
BRACING			R802.10.2	and referenced st	andard AN	SI/TPL1.						
TOP CHORD	Structural wood shea 6-0-0 oc purlins, exc	athing directly applie cept end verticals, ar	d or 9) Graphical p or the orier	tation of the purlir	on does no n along the	t depict the s	size					
BOT CHORD	2-0-0 oc purlins (6-0 Rigid ceiling directly bracing	-0 max.): 3-4. applied or 10-0-0 oc	10) Hanger(s) provided si	or other connectio	on device(s t concentra) shall be ated load(s) 1	102					
REACTIONS	(size) 7=0-3-8 1	10=0-3-8	lb down an	d 88 lb up at 1-9-	8, and 52 l	b down and	31 lb					
	Max Horiz 10=-37 (L)	C 6)	up at 3-9-8	, and 102 lb dowr	n and 88 lb	up at 5-9-8	on					
	Max Uplift 7=-108 (L	C 9), 10=-108 (LC 8)	top chord,	and 7 lb down and	d 34 lb up a	at 1-9-8, and	16 lb					
	Max Grav 7=397 (LC	C 1), 10=397 (LC 1)	at 5-8-12	n b up at 3-9-8, a	The design	vn and 34 ib	e up F					
FORCES	(lb) - Maximum Com	pression/Maximum	such conne	ction device(s) is	the respor	sibility of oth	hers					
	Tension		11) In the LOA	D CASE(S) sectio	n. loads ar	oplied to the	face					
TOP CHORD	1-2=0/32, 2-3=-385/2	123, 3-4=-300/111,	of the truss	are noted as fron	nt (F) or bad	ck (B).						
	4-5=-386/123, 5-6=0)/32, 2-10=-333/101,	LOAD CASE(S) Standard								
	5-7=-333/101		1) Dead + R	, oof Live (balanced	d): Lumber	Increase=1.	15,					
BOICHORD	9-10=-99/308, 8-9=-9	97/309, 7-8=-92/309	Plate Incr	ease=1.15								
WEBS	3-9=-19/95, 3-8=-13/	/13, 4-8=-24/96	Uniform L	oads (lb/ft)								
NOTES			Vert: 1-	2=-70, 2-3=-70, 3	-4=-70, 4-5	5=-70, 5-6=-7	70,				000	TOP
 Unbalance this design 	ed roof live loads have	been considered for	7-10=-2 Concentry	20 stod Loads (lb)							FOF I	Also
2) Wind AS(∩. ℃E 7-16: \/ult–115mnh	(3-second quist)	Vort: 0	-2 (E) 8-2 (E) 12	2_1 (F)					1	750	~30,W
Vasd=91n	nph: TCDL=6.0psf: BC	DL=6.0psf: h=25ft: C	at.	-2 (1), 0-2 (1), 12						R	NATUA	Mar / Sal
II; Exp C;	Enclosed; MWFRS (en	velope) exterior zon	e;							4	S NATHA	UNIEL / Y
cantilever	left and right exposed	; end vertical left and	l							2		A A A
right expo	sed; Lumber DOL=1.60	0 plate grip DOL=1.6	0							87	Att	N-T X
Provide ad	dequate drainage to pre	event water ponding.								8/	A The are	N PA
4) This truss	has been designed for	r a 10.0 psf bottom	-							83		KR C MAL
chord live	load nonconcurrent wit	th any other live load	IS.							NS	O PE-2022	042259
on the bot	tom chord in all aroas a	or a rive load of 20.0	USI							N	The second	12A
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	m							X	A Ser	JO'A
chord and	any other members.										NA ONA	LELA
6) All bearing	gs are assumed to be S	SPF No.2 .									an	TTTT -
	-										- 1	45 0004

- * This truss has been designed for a live load of 20.0psf 5) 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.
- 6) All bearings are assumed to be SPF No.2 .

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February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	D2	Common	1	1	Job Reference (optional)	163626952

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:50

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Wheeler Lumber, Waverly, KS - 66871,

-0-10-8 3-9-8 7-7-0 8-5-8 0-10-8 3-9-8 3-9-8 0-10-8 4x5 = 12 6 Г 3 3-5-12 2-7-15 2-7-12 3-5-12 2 ო 0-6-0 5 D 4 ĥ \mathbb{X} 7 3x6 II 3x6 II 2x4 II 3-9-8 7-7-0 3-9-8 3-9-8

Scolo -	- 1.27 /
Scale =	= 1:27.4

_oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	7	>999	360	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	7-8	>999	240	Weight: 23 lb	FT = 10%
LUMBER FOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		7) This truss is Internationa R802.10.2 a LOAD CASE(S	designed in ac Residential Co and referenced Standard	cordance w ode sections standard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	and					
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex	athing directly appli cept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(size) 6=0-3-8, 8	8=0-3-8										
	Max Horiz 8=-49 (LC	C 6)										

	Max Uplift 6=-63 (LC 9), 8=-63 (LC 8)
	Max Grav 6=400 (LC 1), 8=400 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/31, 2-3=-355/55, 3-4=-355/55,
	4-5=0/31, 2-8=-350/87, 4-6=-350/87
BOT CHORD	7-8=-2/256. 6-7=-2/256

3-7=0/141

BOT CHORD WEBS

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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.
- 5) All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 8 and 63 lb uplift at joint 6.



Page: 1

February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	D3	Common	1	1	Job Reference (optional)	163626953

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 14 11:02:50 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:32

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

		-											
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	0.30	Vert(LL)	-0.01	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	5	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5-6	>999	240	Weight: 21 lb	FT = 10%	

- LUMBER
- TOP CHORD

2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SP No.3 *Except* 5-2:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS 4=0-3-8, 6=0-3-8 (size) Max Horiz 6=-43 (LC 4) Max Uplift 4=-40 (LC 9), 6=-40 (LC 8) Max Grav 4=328 (LC 1), 6=328 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-358/55, 2-3=-358/55, 1-6=-272/63,

3-4=-272/63 BOT CHORD 5-6=-11/264, 4-5=-11/264 WFBS 2-5=0/130

NOTES

- Unbalanced roof live loads have been considered for 1) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 40 lb uplift at joint 6 and 40 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.
- LOAD CASE(S) Standard



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 167 HM	
B240013	E1	Hip Girder	1	1	Job Reference (optional)	163626954

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:50 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.4

Plate Offsets (X_Y)	[1:Edge 0-0-13] [2:0)-4-0 0-1-151	[5:0-5-15 0-4-0]
	[1.Lugo,0 0 10], [2.0	, - 0,0 i i0j, j	[0.00, 010, 040]

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	0.75	Vert(LL)	-0.13	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-0.23	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.81	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.09	7-9	>999	240	Weight: 81 lb	FT = 10%
												-	
LUMBER			5	* This truss h	has been design	ed for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SPF No.2		_	on the bottor	n chord in all are	eas where	a rectangle						
BOT CHORD	2x6 SP 2400F 2.0	E *Except* 8-1:2x6 SP	F	3-06-00 tall t	by 2-00-00 wide	will fit betw	een the bott	om					
	NO.2	** 0 5 0 40 05 040		Pooringo or	iy other member	5. Joint 1 CF		nt G					
WEBS	2x3 SPF No.2 ^Ex	cept^ 6-5:2x10 SP 240	0F 0	SPF No 2	assumed to be.	JUIILI SF	-F NO.2 , JOI	111 0					
WEDCE	Z.UE	, ,	7	Refer to gird	er(s) for trues to	truss conn	ections						
NEDGE	Leit. 233 SPF 10.2	<u>-</u>	8	Provide med	hanical connecti	on (by oth	ers) of truss	to					
			u an	bearing plate	e capable of with	standing 2	15 lb uplift a	t ioint					
TOP CHORD	3 1 1 oc purling	reathing directly applie		6 and 213 lb	uplift at joint 1.			.,					
	2-0-0 oc purlins, e	-1.8 max > 2.4	9	This truss is	designed in acco	ordance wi	th the 2018						
	Rigid ceiling direct	-4-0 max.). 2-4. Iv applied or 10-0-0 or		International	Residential Cod	le sections	R502.11.1 a	and					
BOT ONORD	bracing		,	R802.10.2 a	nd referenced st	andard AN	ISI/TPI 1.						
WEBS	1 Row at midpt	3-7	1	Graphical pu	Irlin representation	on does no	ot depict the	size					
REACTIONS	(size) 1=0-3-8	6= Mechanical		or the orienta	ation of the purlir	n along the	top and/or						
	Max Horiz 1=53 (I	C 5)		bottom chore	d								
	Max Uplift 1=-213	(C8) = -215 (C9)	1	1) Hanger(s) or	other connectio	n device(s) shall be						
	Max Grav 1=1478	(I C 1) 6=1502 (I C 1))	provided suf	ficient to support	concentra	ited load(s) 1	104					
FORCES	(lb) - Maximum Co		,	ID down and	48 lb up at 4-11	-4, 109 ID	down and 4/	/ ID N Ib					
TORCES	Tension	Inpression/maximum		down and 47	Ibup at 11 0.0	247 10 up a	al 9-0-0, 10:	110 17 lb					
TOP CHORD	1-2=-2649/386. 2-3	3=-2197/355.		up at 13-0-0	and 104 lb dow	, and 109 i	buo at 15-0	47 IU)_12					
	3-4=-1940/319, 4-	5=-2261/340.		on top chord	and 303 lb dow	n and 73 l	bupat 4-11	-4					
	5-6=-1143/202	,		51 lb down a	t 7-0-0, 51 lb do	wn at 9-0	-0. 51 lb dov	vn.at					
BOT CHORD	1-10=-342/2225, 9	-10=-448/3001,		11-0-0, and	51 lb down at 13	3-0-0, and	303 lb down	and				an	ADD.
	7-9=-448/3001, 6-	7=-271/1958		73 lb up at 1	5-0-0 on bottom	chord. Th	ne design/					A OF M	MIS.
WEBS	2-10=-66/867, 3-1	0=-981/163, 3-9=0/410),	selection of s	such connection	device(s) i	s the				1	750	- SOLA
	3-7=-1251/200, 4-	7=-30/609		responsibility	/ of others.						R	NATUA	NIET X
NOTES			1:	2) In the LOAD	CASE(S) sectio	n, loads ap	oplied to the	face			A	S/ NAIRA	TATEL / Y
1) Unbalance	ed roof live loads hav	e been considered for		of the truss a	are noted as fron	t (F) or ba	ck (B).				20.	I I TO	
this desigr	n.		L	OAD CASE(S)	Standard						N	411	1 - 1 - 1
Wind: ASC	CE 7-16; Vult=115mp	h (3-second gust)	1	Dead + Ro	of Live (balanced	d): Lumber	Increase=1.	15,			WI	1 han he	
Vasd=91n	nph; TCDL=6.0psf; B	CDL=6.0psf; h=25ft; 0	Cat.	Plate Increa	ase=1.15						N H	V Y W MAR	BER S MAR
II; Exp C;	Enclosed; MWFRS (envelope) exterior zor	ie;	Uniform Lo	ads (lb/ft)						N2	PE-2022	042259
cantilever	and right expose	60 ploto grip DOI -1 (2	Vert: 1-2	=-70, 2-4=-70, 4	-5=-70, 1-6	5=-20				N	The second	A A
3) Provide a	dequate drainage to	orevent water ponding	50	Concentrat	ed Loads (Ib)	40.000		(F)			Y	0.00	1019
4) This trues	has been designed	for a 10.0 nsf hottom	•	Vert: 2=-	81 (F), 4=-81 (F)	10 = -303	$(\Gamma), 7 = -303$	(⊢),				VONA	LETA
chord live	load nonconcurrent	with any other live load	de .	11=-81 (F), 12=-01 (F), 1 F) 16_ 27 (F) 4	З=-01 (Г), 7 – 27 (Г)	14 = -01 (F), 10 = 27 (F)					Um	- A
				15=-37 (F), 10=-37 (F), 1	<i>i=-31</i> (F),	10=-37 (F)					Echruce	15 2024
												rebluary	10,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E2	Roof Special Girder	1	2	Job Reference (optional)	163626955

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:51 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:39

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February 15,2024

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Scale = 1:57.8

Plate Offsets (X, Y): [1:Edge,0-5-13]], [3:0-4-0,0-1-15], [4	:0-7-0,0-2	-0], [6:0-2-8,0-2	2-8], [8:Edge,0-0-	13], [13:0	-11-12,0-4-0]], [17:0-2	2-8,0-1-8	8]				
Loading TCLL (roof) TCDL BCLL BCDI	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO IBC2012	8/7012014	CSI TC BC WB Matrix-S	0.84 0.87 0.97	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(L)	in -0.39 -0.70 0.16 0.27	(loc) 13-14 13-14 8 13-14	I/defI >904 >509 n/a ⊳999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 235 lb	GRIP 197/144 142/136 ET - 10%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce 12-8:2x6 SPF No.2, 1.8E 2x3 SPF No.2 *Exce No.2 Right: 2x3 SPF No.2 Structural wood shee	pt* 5-12:2x3 SPF No 16-13:2x4 SPF 2100 pt* 13-6,18-1:2x4 SF athing directly applie	1) 0.2, 0F PF d or ²⁾	2-ply truss to (0.131"x3") n Top chords c oc. Bottom chord staggered at rows stagger Web connect 1 row at 0-9- All loads are	be connected tog ails as follows: connected as follo is connected as follo is connected as follo is connected as follows: a considered equal	gether wir ws: 2x4 - ollows: 2: row at 0- 3 - 1 row ly applied	th 10d 1 row at 0-6- x4 - 2 rows 9-0 oc, 2x6 - at 0-9-0 oc, 2 d to all plies,	-0 2 2x4 -	12) Gra or ti bott 13) Har pro lb d lb u 25-i 19-i 23-i	phical p he orient com chor nger(s) o vided su own and p at 23- 0-12 on 9-12, 51 0-0, and	urlin retation of d. rother fficient 47 lb 0-0, ar top cho 1b dow 303 lb	presentation doe of the purlin along connection devic to support conce up at 21-0-0, and ard, and 1134 lb o rn at 21-0-0, and down and 73 lb	s not depict the s the top and/or es(s) shall be ntrated load(s) 1 d 131 lb down at d 48 lb up at lown and 162 lb 51 lb down at up at 25-0-0 on	size I31 nd 47 up at
BOT CHORD REACTIONS FORCES	5-5-15 oc purlins, ex 2-0-0 oc purlins (2-8 Rigid ceiling directly bracing. (size) 8=0-3-8, 1 Max Horiz 18=-110 (I Max Uplift 8=-416 (LI Max Grav 8=2656 (L (lb) - Maximum Com	xcept end verticals, a -14 max.): 2-3, 4-7. applied or 10-0-0 oc (8=0-3-8 LC 9) C 9), 18=-174 (LC 8) C 1), 18=1842 (LC 2) pression/Maximum	and 3) , 4)	except if note CASE(S) sec provided to d unless othen Unbalanced this design. Wind: ASCE Vasd=91mpt II; Exp C; En cantilever lef	ed as front (F) or b ction. Ply to ply co istribute only load wise indicated. roof live loads hav 7-16; Vult=115m; 1; TCDL=6.0psf; E closed; MWFRS (1 and right expose	back (B) f innection is noted a ve been o ph (3-sec 3CDL=6.0 (envelope ad ; end y	ace in the LC s have been as (F) or (B), considered fo cond gust) Opsf; h=25ft; (e) exterior zor certical left an	DAD r Cat. ne;	bott dev LOAD (1) De Pla Ur	com chor ice(s) is CASE(S) ead + Ro ate Incre hiform Lo Vert: 1-2 13-18=- oncentra	d. The the rest of Live ease=1 bads (II 2=-70, 20, 8-1 ted Lo	e design/selectior sponsibility of oth ndard (balanced): Lum .15 5/ft) 2-3=-70, 3-4=-70 (2=-20 ads (lb)	of such connec ers. ber Increase=1. , 4-7=-70, 7-9=-7	tion 15, 70,
TOP CHORD	Tension 1-2=-3184/327, 2-3= 3-4=-4899/599, 4-5= 5-6=-11398/1569, 6- 7-8=-4821/725, 8-9= 17-18=-166/633, 15-	-4303/564, -9782/1296, 7=-5692/851, 0/6, 1-18=-1766/210 17=-262/2761	5) 6) 7)	right exposed Provide adec All plates are This truss ha chord live loa	d; Lumber DOL=1 juate drainage to MT20 plates unle s been designed to ad nonconcurrent	.60 plate prevent v ess other for a 10.0 with any	grip DOL=1.0 water ponding wise indicate) psf bottom other live load	60 g. d. ds.		(F), 20=	-81 (F)	, 13=-1134 (F), 1 , 21=-37 (F), 22=	-37 (F)	-01
WEBS	14-15=-1184/9801, 1 12-13=0/154, 5-13=- 10-11=-550/4083, 8- 2-17=-46/159, 2-15= 3-15=-170/1791, 4-1 4-14=-99/455, 5-14= 11-13=-729/5639, 6- 7-1042/415, 6-11=	13-14=.1472/11534, 101/795, 11-12=.62, 10=-552/4099 -303/1911, 5=-6033/900, -2076/345, 13=-838/6654, -3896/556	8) /466, 9) 10	on the bottom 3-06-00 tall b chord and ar Bearings are SPF No.2.) Provide mecl bearing plate	has been designed in chord in all area by 2-00-00 wide w by other members. assumed to be: J hanical connection capable of withst	ill fit betw ill fit betw Joint 18 S n (by other tanding 1	a rectangle veen the botto GPF No.2 , Jo ers) of truss to 74 lb uplift at	יסקיס om iint 8 o joint				STATE NATHA	NIEL NIEL	
NOTES	7-11=-293/2359, 1-1	7=-211/2133	11) This truss is International R802.10.2 ar	designed in accor Residential Code nd referenced star	dance wi sections ndard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	Ind			A.	PE-2022	142259	ÿ

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

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E3	Roof Special	1	1	Job Reference (optional)	163626956

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:52 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [1:Edge,0-2-0], [10:0-3-8,0-2-12]

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	0.67	Vert(LL)	-0.21	13-14	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.68	Vert(CT)	-0.48	13-14	>735	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.64	Horz(CT)	0.12	10	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.14	13-14	>999	240	Weight: 120 lb	FT = 10%	
								-				, j		•
LUMBER			2)	Wind: ASCE	7-16; Vult=115mph	n (3-sec	ond gust)	_						
TOP CHORD	2x4 SPF No.2			Vasd=91mpr	; TCDL=6.0pst; BC	DL=6.0	0psf; h=25ft;	Cat.						
BOT CHORD	2x4 SPF No.2 *Exce	o.2,	II; Exp C; En	closed; MWFRS (e	nvelope	e) exterior zoi	ne;							
	15-13:2x4 SPF 2100)F 1.8E		cantilever ler	and right exposed	; end v	ertical left an	a						
WEBS	2x3 SPF No.2 *Exce	ept* 10-8:2x6 SPF No).2, 2)	Brovido ador	i; Lumber DOL=1.6	o plate	grip DOL=1.	00						
	11-8:2x4 SPF N0.2,	17-1:2x4 SP N0.3	3) 4)	This trues ha	s been designed fo	r o 10 (nater portuiri	J.						
	o			chord live los	d nonconcurrent w	ith anv	other live loa	de						
TOP CHORD	Structural wood she	athing directly applie	d or 5)	* This truss h	as been designed t	for a liv	e load of 20 (nsf						
	3-0-13 oc purlins, e	except end verticals, a	and ^o	on the botton	n chord in all areas	where	a rectangle	por						
	2-0-0 oc punins (2-8	-15 max.): 3-4, 5-7.		3-06-00 tall b	v 2-00-00 wide will	fit betv	een the bott	om						
BOT CHORD	bracing Except:	applied of 10-0-0 00		chord and an	y other members.									
	6-0-0 oc bracing: 11	-12	6)	All bearings a	are assumed to be	SPF No	o.2 .							
WEBS	1 Row at midpt	5-14 2-17	7)	Provide mecl	nanical connection	(by oth	ers) of truss t	0						
REACTIONS	(cize) 10-0-3-8	17-0-3-8		bearing plate	capable of withsta	nding 2	33 lb uplift at	joint						
REAGNONO	Max Horiz 17-117	(1 C 9)		10 and 112 ll	o uplift at joint 17.									
	Max Uplift 10=-233 ((LC 9) 17=-112 (LC 8	8) 8)	This truss is	designed in accord	ance w	ith the 2018							
	Max Grav 10=1412	(I C 1) 17=1332 (I C	1)	International	Residential Code s	ections	R502.11.1 a	ind						
FORCES	(lb) Maximum Corr		')	R802.10.2 ar	id referenced stand	ard AN	ISI/TPI 1.							
FORCES		ipression/iviaximum	9)	Graphical pu	fin representation of	does no	ot depict the s	size						
	1-2=-532/40 2-3=-1	996/239 3-4=-1933/	281	or the orienta	nion of the punin al	ong the	top and/or							
	4-5=-2243/281 5-6=-3199/490													
	6-7=-3164/489, 7-8=	=-2153/329, 8-9=0/35	j. LC	DAD CASE(S)	Standard									
	8-10=-1344/271, 1-1	17=-361/67	,									COUL	TOP 1	
BOT CHORD	16-17=-169/1841, 1	4-16=-42/1725,										A OF M	Alson	
	13-14=-366/3437, 1	2-13=0/33,									1	750	1,0°	
	6-13=-380/145, 11-1	12=-46/59,									A	N/ MATTIA	New York	
	10-11=-230/666										a	S/ NATHA	NIEL / Y	
WEBS	3-16=-24/212, 3-14=	-126/582, 4-14=-46/	760,							-	M.	FO		
	5-14=-1842/387, 5-1	13=-280/91,										1th		
	11-13=-157/1858, 7	-13=-195/1758,									10		High	
	7-11=-523/118, 8-11	I=-84/1163,								/	W	Nand	RER / AND	
	2-1/=-10/8/238, 2-	10=-201/182									17	DE 20220	12250 18	
NOTES											N	FE-20220	26237 288	
 Unbalance 	ed root live loads have	been considered for									Y	1 Ce	1088	
this design	1.											UNIONTA"	TENA	
												AVIA	L'A	

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February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E4	Roof Special	1	1	Job Reference (optional)	163626957

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:52 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

21-0-12 30-10-8 6-5-6 10-0-0 13-0-12 19-9-12 25-4-4 30-0-0 1-3-0 6-5-6 3-6-10 3-0-12 6-9-0 4-3-8 4-7-12 0-10-8 4x5 II 3 8x8= 4x8≈ 12 61 3x4 II -9-0 10 4x5 🍃 4 5 6 2 5-2-3 6 4x5 👟 6-9-3 5-0-15 4-0-15 7 8x8= 1 8x8= 0-6-0 P 8 16 П 1-0-0 0-0-1 9 15 14 12 101 5x8= 4x5= 11 10x12= 2x4 II 6x8= 10-0-0 19-8-8 30-0-0 21-2-0 10-0-0 9-8-8 1-5-8 8-10-0

Scale = 1:58.7

Plate Offsets (X, Y): [1:Edge,0-3-8], [6:0-4-10,Edge], [8:Edge,0-3-4]

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		тс	0.96	Vert(LL)	-0.24	13-15	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.81	Vert(CT)	-0.56	13-15	>636	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.87	Horz(CT)	0.13	10	n/a	n/a			
BCDL	10.0	Code	IRC2018/	/TPI2014	Matrix-S		Wind(LL)	0.13	13-15	>999	240	Weight: 117 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SPF No.2 2x4 SPF No.2 *Exce 2100F 1.8E, 5-12:2x 2x3 SPF No.2 *Exce 16-1:2x4 SP No.3 Structural wood shea 3-9-8 oc purlins, exc 2-0-0 oc purlins (2-2 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 11: 1 Row at midpt (size) 10=0-3-8, Max Horiz 16=-128 (I Max Grav 10=4100 (Ib) - Maximum Com Tension 1-2=-719/133, 2-3=- 3-4=-1927/262, 4-5= 5-6=-2400/431, 6-7= 7-8=-601/107, 8-9=0 1-16=-496/135 15-16=-155/1842, 13 15-16=-155/1842, 13 12-13=-189/0, 5-13= 10-11=-280/1837 2-15=-312/212, 3-15 4-13=-211/83, 11-13 6-13=-288/2018, 6-1 7-10=-1610/293, 2-1 4-15=-1422/346, 7-1 ed roof live loads have n.	pt* 16-14:2x4 SPF 3 SPF No.2 pt* 10-8:2x4 SPF No athing directly applied cept end verticals, an -0 max.): 4-6. applied or 10-0-0 oc -12. 7-10, 2-16 16=0-3-8 LC 9) LC 9), 16=-123 (LC 8 (LC 1), 16=1336 (LC pression/Maximum 1926/272, -2423/430, -2010/341, /32, 8-10=-481/129, 3-15=-215/2542, -557/221, 11-12=-90. =-187/1514, =-113/2162, 1=-1033/126, 6=-1488/214, 1=-129/154 been considered for	2) .2, 3) 4) for 5) 6) 7) 1) 8) 9) LO /27,	Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever left right exposed Provide adeq * This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Bearings are Joint 10 SPF Provide mect bearing plate 10 and 123 lt This truss is of International R802.10.2 ar Graphical pui or the orienta bottom chord AD CASE(S)	7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (et and right exposed ; Lumber DOL=1.6 uate drainage to pr s been designed fo d nonconcurrent w as been designed fo n chord in all areas y 2-00-00 wide will y other members. assumed to be: Jo No.2. nanical connection capable of withstap o uplift at joint 16. designed in accorda Residential Code s dr efferenced stand tion of the purlin all Standard	(3-sec DL=6.0 DL=6.0 Nvelope ; end v 0 plate revent v ra 10.0 ith any for a live where fit betw int 16 S (by othen nding 2 ance wi ections lard AN does no ong the	ond gust) opps; h=25ft; () exterior zor ertical left an grip DOL=1. vater ponding o psf bottom other live loa e load of 20.0 a rectangle veen the bottot SPF 2100F 1. ers) of truss t 36 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. t depict the s top and/or	Cat. ne; id 60 J. ds. Dpsf om 8E , joint size				STATE OF M NATHA FO2 PE-20220	MISSOLPH MEL 42259	

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February 15,2024

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E5	Roof Special	1	1	Job Reference (optional)	163626958

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:52 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

30-10-8 9-0-12 12-3-4 20-3-4 24-8-8 30-0-0 3-2-8 0-10-8 9-0-12 8-0-0 4-5-4 5-3-8 12 16 4x5 🛛 6x8= 9 2 == \bowtie ∇ 7-2-11 0-1 4x10 5x8= ÷ φ 3 두 4 ഹ è S 3x4. 7-2-13 -0-9 5 4-5-11 5-5-11 16 0-6-0 X --18 15 14 13 3x10= 6x6= 3x4= 10 9 2x4 II 8x8= 4x8= 4x10= 2x4 II 2x4 II 5x8= 20-4-8 4 20-3-10-3-4 12-4-8 9-2-0 19-8-8 24-8-8 30-0-0 0-6-12 1-1-4 2-1-4 9-2-0 7-4-0 4-4-0 5-3-8 0-1-4

Scale = 1:62.9

WEBS

NOTES 1)

2)

this design.

Blota Offecte (V. V):	[2:0.4.10 Edge] [4:0.4.0.0.1.15] [9:Edge 0.5.12] [12:0.5.12.0.2.4] [15:0.2.8.0.2.0]	
Plate Offsets (Λ, T) .	[2.0-4-10,Euge], [4.0-4-0,0-1-15], [6.Euge,0-5-15], [12.0-5-12,0-5-4], [15.0-2-6,0-5-0]	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.24	12-13	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.47	12-13	>765	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.09	8	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	12-13	>999	240	Weight: 128 lb	FT = 10%	
LUMBER TOP CHORD	2x4 SPF No.2 *Exce	pt* 1-2:2x4 SPF 21	 Provide ade 00F 4) This truss h 	quate drainage as been design	e to prevent v led for a 10.0	vater pondin) psf bottom	g.						

	1.8E, 3-4.2X4 SPF 2400F 2.0E
BOT CHORD	2x4 SPF 2100F 1.8E *Except* 17-11:2x3 SPF No.2
WEBS	2x3 SPF No.2 *Except* 16-1,16-2,8-6:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-4-12 oc purlins, except end verticals, and
	2-0-0 oc purlins (3-2-6 max.): 1-2, 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 2-16
REACTIONS	(size) 8=0-3-8, 16=0-3-8
	Max Horiz 16=-273 (LC 4)
	Max Uplift 8=-233 (LC 9), 16=-148 (LC 4)
	Max Grav 8=1461 (LC 2), 16=1414 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-16=-309/130, 1-2=-101/74, 2-3=-1832/258,
	3-4=-2454/352, 4-5=-2579/403,
	5-6=-2272/344, 6-7=0/32, 6-8=-1359/258
BOT CHORD	15-16=-81/1585, 13-15=-150/2452,

12-13=-194/2269, 10-11=0/0, 9-10=-3/21,

3-15=-1426/283, 3-13=-3/140, 4-13=-64/247, 9-12=-236/2007, 10-12=0/99, 4-12=-15/624,

5-9=-545/141, 6-9=-108/1448, 5-12=-86/346

2-16=-1838/227, 2-15=-150/1440,

Unbalanced roof live loads have been considered for

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

Wind: ASCE 7-16; Vult=115mph (3-second gust)

8-9=-123/521

- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle
 - 3-06-00 tall by 2-00-00 wide will fit between the bottom
 - chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF 2100F 1.8E . 6)
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 148 lb uplift at joint 16 and 233 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1

February 15,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E6	Roof Special	1	1	Job Reference (optional)	163626959

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:53 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59.5

Plate Offsets (X, Y): [2:0-4-0,0-1-15], [3:0-6-0,0-2-0], [8:0-3-4,0-2-12], [11:0-5-12,0-4-4]

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	0.92	Vert(LL)	-0.24	11-12	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.42	11-12	>838	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.70	Horz(CT)	0.12	8	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.16	11-12	>999	240	Weight: 129 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce 2100F 1.8E, 4-10:2x 2x3 SPF No.2 *Exce SPF No.2, 8-6:2x6 S Structural wood sheat except end verticals, (2-7-12 max.): 1-2, 3 Bioid ceiling directly	pt* 15-13:2x4 SPF 3 SPF No.2 pt* 15-1,14-3,9-6:2x4 P 2400F 2.0E athing directly applied , and 2-0-0 oc purlins 9-5. applied or 9-10-14 or	3) 4) 5) 4 d, 6) 6 7)	Provide adec This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Bearings are Joint 8 SPF N Provide mech bearing plate	uate drainage to p s been designed f id nonconcurrent v has been designed n chord in all areas by 2-00-00 wide wi y other members, assumed to be: J No.2. hanical connectior capable of withst	orevent v for a 10.0 with any I for a liv s where II fit betw with BC oint 15 S oint 15 S oint 25 S	vater pondin) psf bottom other live loa e load of 20.1 a rectangle veen the bott DL = 10.0ps SPF 2100F 1 ers) of truss i 57 lb uplift a	g. ads. Opsf om f. .8E , to t joint						
BOT CHORD	bracing.	applied of 9-10-14 of		15 and 244 lt	o uplift at joint 8.									
WEBS	1 Row at midpt	1-15, 3-14	8)	This truss is	designed in accord	dance w	ith the 2018							
REACTIONS	(size) 8=0-3-8, 1 Max Horiz 15=-315 (Max Uplift 8=-244 (L Max Grav 8=1437 (L	15=0-3-8 LC 4) C 9), 15=-157 (LC 9) .C 2), 15=1413 (LC 2	9)	Graphical pu or the orienta	residential Code and referenced star rlin representation ation of the purlin a	dard AN does no along the	ISI/TPI 1. ISI/TPI 1. Ist depict the set top and/or	size						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	LC	AD CASE(S)	Standard									
TOP CHORD	1-15=-1272/197, 1-2 2-3=-1360/201, 3-4= 4-5=-3033/505, 5-6= 6-8=-1340/287	e=-1136/236, 3198/496, 2187/349, 6-7=0/35	,											
BOT CHORD	14-15=-44/253, 12-1 11-12=-351/3064, 10 4-11=-428/133, 9-10	4=-332/3198, D-11=-13/3, 9=-23/54, 8-9=-290/80)7									E OF M	AISSO	
WEBS	1-14=-233/1547, 2-1 3-14=-2266/447, 3-1 9-11=-200/2031, 5-1 5-9=-770/161, 6-9=-	4=-9/235, 2=-42/139, 4-12=0/1 1=-222/1835, 62/1095	82,								A	S NATHA FOZ	NIEL TE	à
NOTES											MT.		1 th	6
1) Unbalanc	ed roof live loads have	been considered for									Mu	x name	BER	
this design 2) Wind: ASI	11. CE 7-16: \/ult-115mph	(3-second qust)									N	O PE-20220	142259 JEL	1

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

 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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February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E7	Roof Special	1	1	Job Reference (optional)	163626960

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:53 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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

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	0.77	Vert(LL)	-0.41	13-15	>863	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.93	Vert(CT)	-0.75	13-15	>476	240	M18AHS	142/136
BCLL	0.0	* Rep Stress Incr	YES		WB	0.96	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2	2018/TPI2014	Matrix-S		Wind(LL)	0.29	12-13	>999	240	Weight: 133 lb	FT = 10%
-											-		
LUMBER				Wind: ASC	E 7-16; Vult=115m	ph (3-seo	ond gust)						
TOP CHORD	2x4 SPF No.2 *E	xcept* 2-4:2x4 SPF 2	2100F	Vasd=91m	ph; TCDL=6.0psf; E	BCDL=6.	Opsf; h=25ft;	Cat.					
	1.8E			II; Exp C; E	nclosed; MWFRS	(envelope	e) exterior zo	ne;					
BOT CHORD	2x4 SPF No.2 *E	xcept* 5-11:2x3 SPF	No.2,	cantilever l	eft and right expose	ed;end	ertical left ar	nd					
	14-12:2x4 SPF 2	100F 1.8E		right expos	ed; Lumber DOL=1	.60 plate	grip DOL=1.	.60					
WEBS	2x3 SPF No.2 *E	kcept*		 Provide ad 	equate drainage to	prevent	water pondin	g.					
	16-1,16-2,13-3,9-	7,10-7:2x4 SPF No.2	2	 All plates a 	re MT20 plates unl	ess othei	wise indicate	ed.					
BRACING				5) This truss I	has been designed	tor a 10.) pst bottom						
TOP CHORD	Structural wood s	heathing directly app	olied or	chord live I	oad nonconcurrent	with any	other live loa	ads.					
	3-0-15 oc purlins	except end verticals	s, and	6) 1 his truss	s has been designe	d for a liv	e load of 20.	Upst					
	2-0-0 oc purlins (2-2-2 max.): 1-2, 4-6.	•	on the bott	om chord in all area	as where	a rectangle						
BOT CHORD	Rigid ceiling dired	ctly applied or 10-0-0	OC	3-06-00 tai	Dy 2-00-00 wide w								
	bracing, Except			7) All booring	any other members		DL = 10.0ps	d.					
	2-2-0 oc bracing:	13-15.		 All bearing Provide model 	s are assumed to b	e orr iv	J_{2} .	to					
WEBS	1 Row at midpt	1-16, 2-16, 3-15		o) Provide me	te canable of withs	tanding 1	91 lb unlift at	t ioint					
REACTIONS	(size) 9=0-3-	8, 16=0-3-8		16 and 24	the unlift at joint 9	lanung	ST ID uplint a	John					
	Max Horiz 16=-35	i6 (LC 4)		9) This truss i	s designed in acco	rdance w	ith the 2018						
	Max Uplift 9=-245	5 (LC 9), 16=-191 (LC	C 9)	Internation	al Residential Code	sections	R502 11 1 a	and					
	Max Grav 9=1442	2 (LC 2), 16=1419 (L	C 2)	R802.10.2	and referenced sta	ndard AN	ISI/TPI 1.						
FORCES	(lb) - Maximum C	ompression/Maximur	m	10) Graphical	ourlin representation	n does no	ot depict the	size					
	Tension			or the orier	ntation of the purlin	along the	top and/or						
TOP CHORD	1-16=-167/81, 1-2	2=-114/87, 2-3=-1422	2/265,	bottom cho	ord.	0	•						
	3-4=-5070/791, 4	-5=-4595/664,		LOAD CASE(S	S) Standard								Th
	5-6=-4511/721, 6	-7=-2272/363, 7-8=0	/32,	(,							A	and
	7-9=-1350/274											B.C. OF I	AISS W
BOT CHORD	15-16=0/809, 13-	15=-134/1928,									6	7.01	N'Sol
	12-13=-608/4560	, 11-12=0/80, 5-12=-	427/99,								B	NATHA	NIEI XP.V
	10-11=-12/164, 9	-10=-160/496									R	S INAILA	
WEB5	2-16=-1372/237,	2-15=-230/1527,									0		
	3-15=-1338/380, 4.12=-2414/450	3-13=-533/3512, 5 12-0/152									197	affin	INT T
	4-13=-2414/430,	6-12-300/2797									8/	Alka A	1 stand
	6-10-12=-242/10/0	, 0-12=-350/2787, -1082/1490									24	WW WILLIAM	SER V VAL
NOTES	0-10400/140,7	-1002/1490									17	PE-2022	042259 188
	al as af Base Law 1		(N.	FE-2022	54655 158
1) Unbalance	ed root live loads ha	ive been considered	TOL								Y	1 Ce	1 ONB

NOTES

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



February 15,2024

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Page: 1

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

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E8	Roof Special Girder	1	2	Job Reference (optional)	163626961

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:54 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

February 15,2024

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Plate Offsets (X, Y): [4:0-3-6,Edg	ge], [6:0-2-8,0-3-0], [8:Edge,0-0-13], [13	3:0-8-0,0-3-0], [14:0-4-0,0-2-4], [16:0-2-8,0-1-8]
------------------------------------	--	--

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	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.96 0.82 1.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.56 -1.03 0.19 0.44	(loc) 13-14 13-14 8 13-14	l/defl >637 >346 n/a >805	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 272 lb	GRIP 197/144 142/136 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SPF No.2 *Exce 12-8:2x6 SPF No.2, *Exce 12-8:2x6 SPF No.2, *Exce 1.8E, 11-13,13-6:2x4 Right: 2x3 SPF No.2 Structural wood shee 6-0-0 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (2-3 Rigid ceiling directly bracing. 1 Row at midpt (size) 8=0-3-8, 1 Max Horiz 17=-386 (I Max Uplift 8=-444 (LI Max Grav 8=2132 (L (lb) - Maximum Com Tension 1-17=-97/73, 1-2=-12 5-6=-11210/2019, 6- 7-8=-3733/765, 8-9= 3-4=-2832/459 16-17=0/599, 14-16=	pt* 5-12:2x3 SPF No 15-13:2x4 SPF 2100 pt* 14-4:2x4 SPF 210 \$ SPF No.2 athing directly applied cept end verticals, an -7 max.): 1-2, 4-7. applied or 10-0-0 oc 1-17, 4-14 7=0-3-8 LC 25) C 9), 17=-282 (LC 9) C 1), 17=1595 (LC 1 pression/Maximum 25/96, 4-5=-11477/20 7=-5206/1044, 0/6, 2-3=-744/164, 232/2463,	1) F DOF d 3) 4)) 031, 6) 7) 8)	2-ply truss to (0.131"x3") n Top chords oc, 2x4 - 1 rc Bottom chorc 0-5-0 oc, 2x3 at 0-4-0 oc. Web connect 1 row at 0-9- All loads are except if note CASE(S) see provided to d unless othern Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right exposee Provide adec All plates are This truss ha chord live loa * This truss ha	be connected toge ails as follows: onnected as follow wat 0-6-0 oc. Is connected as follow - 1 row at 0-9-0 oc ed as follows: 2x3 0 oc. considered equally d as front (F) or batton. Ply to ply con istribute only loads vise indicated. roof live loads have 7-16; Vult=115mpt; ; TCDL=6.0psf; BC closed; MWFRS (e and right exposed d; Lumber DOL=1.6 uate drainage to pi MT20 plates unles s been designed for d nonconcurrent w as been designed for	ther wi s: 2x3 - lows: 2: ; 2x6 - - 1 row applie = - 1 row applie = - 1 row applie = - 1 row applie =	th 10d 1 row at 0-9-1 (4 - 1 row at 2 rows stagge at 0-9-0 oc, 2: d to all plies, ace in the LO s have been as (F) or (B), considered for ond gust) 0psf; h=25ft; C exterior zon ertical left and grip DOL=1.6 vater ponding wise indicated 0 psf bottom other live load e load of 20.00	0 ered x4 - AD Cat. e; d S0 J. J. Js. psf	12) Gra or tf bott 13) Har prov dow 23-(lb d dow lb d dow lb d dow des resp LOAD (1) De Pla Ur	phical phe orient om chor ger(s) o vided sui n and 6-)-0, and own and 6- own and 8- own and 5- gn/select oonsibilit :ASE(S) ad + Ro tel Incre iform Lc Vert: 1-2 8-12=-20 (21=-20)	urlin re tation of d. r other fficient 4 lb up 91 lb o 16 6 lb 5 lb up 23-0-0 5 lb up 23-0-0 5 lb up 23-0-0 5 lb up 23-0-0 5 lb up 0 5 lb up 0 5 lb up 0 f dt 0 b 1 22=-70, 0, 0, 2-4 teted Lo. -41 (B, 18)	presentation doe of the purlin along r connection devid to support conce o at 21-0-0, 91 lb down and 64 lb uj up at 26-3-4 on fo at 19-9-12, 28 ll and 28 lb down o at 26-2-8 on bo f such connection hers. ndard e (balanced): Lurr .15 b/ft) 4-7=-70, 7-9=-70 ads (lb)), 13=-554 (B), 6= =-41 (B), 19=-41	s not depict the size the top and/or :e(s) shall be intrated load(s) 91 lb down and 64 lb up at p at 25-0-0, and 91 top chord, and 598 lb b down at 21-0-0, 28 at 25-0-0, and 200 lb ttom chord. The in device(s) is the her Increase=1.15, .13-17=-20, :-41 (B), 10=-200 (B), (B), 20=-20 (B),	
WEBS	13-14=-1944/11174, 5-13=-385/121, 11-1 10-11=-595/3123, 8 2-17=-1588/311, 2-1 3-16=-2321/528, 3-1 4-14=-8829/1735, 4- 11-13=-842/4755, 6- 7-10=-23/312, 6-11= 7-11=-434/2514	12-13=0/135, 2=-143/623, 10=-596/3138 6=-258/1401, 4=-175/1661, 13=-210/689, 13=-1038/6386, -2713/561,	9) 10 11	3-06-00 tall b chord and an Bearings are SPF No.2.)) Provide mecl bearing plate 17 and 444 ll) This truss is International R802.10.2 ar	y 2-00-00 wide will y other members. assumed to be: Jo nanical connection capable of withsta puplift at joint 8. designed in accord Residential Code s ad referenced stand	fit betw int 17 S (by oth nding 2 ance w ections lard AN	PECAUSE PF No.2 , Joi ers) of truss to 82 lb uplift at j th the 2018 R502.11.1 ar SI/TPI 1.	m nt 8 joint nd				NATHA FOI PE-20220 PE-20220	NIEL P)

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	E9	Half Hip	1	1	Job Reference (optional)	163626962

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:55 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:65

Plate Offsets (X, Y): [6:Edge,0-5-8]

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.62	Vert(LL)	-0.29	8-10	>794	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.48	Vert(CT)	-0.48	8-10	>480	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.73	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.10	8-10	>999	240	Weight: 85 lb	FT = 10%
LUMBER			6)	Bearings are	assumed to be: J	oint 10 S	SPF 2400F 2	2.0E .					
TOP CHORD	2x4 SPF No.2		- /	Joint 7 SPF I	No.2 .			- ,					
BOT CHORD	2x4 SPF 2400F 2.0E		7)	Refer to gird	er(s) for truss to tr	uss conr	ections.						
WEBS	2x3 SPF No.2 *Exce	pt* 10-1:2x4 SPF No	0.2, 8)	Provide mech bearing plate	hanical connectior capable of withst	n (by oth anding 2	ers) of truss 00 lb uplift a	to at ioint					
BRACING	7 0.2X0 01 21001 2.	.02		10 and 110 I	b uplift at joint 7.	5		,					
TOP CHORD	Structural wood she	athing directly applie	ed or 9)	This truss is	designed in accord	dance w	ith the 2018						
	4-4-1 oc purlins ex	cent end verticals a	nd	International	Residential Code	sections	R502.11.1	and					
	2-0-0 oc purlins (6-0	-0 max.): 1-2.		R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	_c 10) Graphical pu	rlin representation	n does no	ot depict the	size					
	bracing.			or the orienta	ation of the purlin a	along the	top and/or						
WEBS	1 Row at midpt	1-10, 2-10, 4-10		bottom chord	ł.								
REACTIONS	(size) 7= Mecha	nical, 10=0-3-8	LC	DAD CASE(S)	Standard								
	Max Horiz 10=-404 (LC 4)											
	Max Uplift 7=-110 (L	C 9), 10=-200 (LC 9)										
	Max Grav 7=910 (LC	C 2), 10=947 (LC 2)											
FORCES	(lb) - Maximum Com	pression/Maximum											
		156/112 2 4 224	101										
TOP CHORD	1-10=-100/127, 1-2= 1-5=-1060/147, 5-6=	-120/113, 2-4=-234/	2/158										
BOT CHORD	8-10=0/729 7-8=-10	1230/100, 0-7=-73. 14/1083	2/100										
WEBS	2-10=-293/232 4-10	=-841/273 4-8=-34	/637										
	5-8=-354/230	01.,210,1000.	,										~
NOTES												O TE	and the second
1) Unbalanc	ed roof live loads have	been considered for	r									ALE OF T	VIISS OF
this desig	n.										A	A. A.	N.S.
2) Wind: AS	Wind: ASCE 7-16; Vult=115mph (3-second gust)		. .								A	NATHA	NIEL
Vasd=91r	mph; [CDL=6.0psf; BC	DL=6.0psf; h=25ft; (Jat.								4	FO'	X
II; Exp C;	II; Exp C; Enclosed; MWFRS (envelope) exterior zone;										^Ø A	1 In	1 - 4
cantilever	ieit and right exposed	u								0/1	4		

- right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	F1	Hip Girder	1	1	Job Reference (optional)	163626963

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:55 ID:Tgq13n6JNqHjvuKiy4ALd7zIGAR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.3

Plate Offsets (X, Y): [1:0-5-8,Edge], [2:0-4-0,0-1-15], [3:0-4-0,0-1-15], [4:0-5-8,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		тс	0.99	Vert(LL)	-0.04	5-6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.19	Vert(CT)	-0.08	5-6	>999	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.08	Horz(CT)	0.01	4	n/a	n/a			
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S		Wind(LL)	0.03	5-6	>999	240	Weight: 66 lb	FT = 10%	
BCDL BCDL BCDL LUMBER TOP CHORD WEBS WEDGE BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD SOT CHORD WEBS NOTES 1) Unbalance this desig 2) Wind: AS Vasd=911 II; Exp C; cantilevel right expc 3) Provide a 4) This truss chord live	10.0 10.0 10.0 10.0 10.0 10.0 2x4 SPF No.2 *Exce 1.8E 2x6 SP 2400F 2.0E 2x4 SPF No.2 Right: 2x3 SPF No.2 Right: 2x3 SPF No.2 Structural wood sheat 4-4-1 oc purlins, exc 2-0-0 oc purlins (3-3 Rigid ceiling directly bracing. 1 Row at midpt (size) 1=0-3-8, 4 Max Horiz 1=-35 (LC Max Uplift 1=-168 (LI Max Grav 1=805 (LC (lb) - Maximum Com Tension 1-2=-1473/306, 2-3= 3-4=-1431/296 1-6=-273/1253, 5-6= 4-5=-247/1207 2-6=0/371, 2-5=-72/3 red roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BCI Enclosed; MWFRS (en cleft and right exposed bsed; Lumber DOL=1.6(dequate drainage to pre- s has been designed for a load nonconcurrent without the second 1-2=-160 - 100 -	the outers incl Code pt* 2-3:2x4 SPF 210 pt* 2-3	IRC2018/ IRC2018/ 0F 5) 0F 6) 7) d or 8) 9) 10) 11) LOA 1) at. a; 0 s.	TPI2014 * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mect bearing plate 1 and 168 lb This truss is of International R802.10.2 ar Graphical puu or the orienta bottom chord Hanger(s) or provided suff lb down and at 5-4-12, 77 down and 59 up at 11-4-0 lb down and 54 at 9-3-4, ano The design/s responsibility In the LOAD of the truss a AD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 26 7=-27 (B) (B), 12=-1	Matrix-S Matrix-S as been designed n chord in all areas y 2-00-00 wide will y other members. are assumed to be hanical connection capable of withsta uplift at joint 4. designed in accord Residential Code s id referenced stan- refrin representation tion of the purlin al. other connection of idi referenced stan- refrin representation tion of the purlin al. other connection of idi at 3-4-0, 1b down and 59 lb lb up at 3-3-4, and on top chord, and 4-12, 22 lb down at 53 lb down at 11- election of such co of others. CASE(S) section, I re noted as front (F Standard f Live (balanced): ise=1.15 ads (lb)ft) =-70, 2-3=-70, 3-4= ad Loads (lb) 3 (B), 3=-63 (B), 6 , 8=-27 (B), 9=-27 15 (B)	for a liv where I fit betw SP 240 (by oth- unding 1 lance wisections dard AN does no long the device(s oncentra , 77 lb d d 161 lb 53 lb dd at 7-4-0 -3-4 on nnection loads ap F) or bar Lumber =-70, 1-4 S=-35 (E (B), 10=	Wind(LL) e load of 20. a rectangle veen the bott OF 2.0E . ers) of truss : 68 lb uplift al th the 2018 R502.11.1 al SJ/TPI 1. top and/or) shall be ted load(s) 1 own and 59 7-4-0, and 77 down and 1 war at 3-4-0 bottom chore n device(s) is oplied to the ck (B). Increase=1. 4=-20), 5=-35 (B), -15 (B), 11=	0.01 0.03 0.05	4 5-6	>999	240	Weight: 66 lb	FT = 10%	
												1000	5555	

- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.

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TION IEW

February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	F2	Нір	1	1	Job Reference (optional)	163626964

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:55

Wheeler Lumber, Waverly, KS - 66871,



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

Loading	(psf)	Spacing	2-0-0		CSI	0.40	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (root)	25.0	Plate Grip DOL	1.15			0.40	Vert(LL)	-0.08	6-7	>999	360	MT20	197/144	
	10.0	Lumber DOL	1.15		BC	0.46	Vert(CT)	-0.14	6-7	>999	240			
	0.0*	Rep Stress Incr	TES		VVB	0.06	Horz(CT)	0.02	5	n/a	n/a		FT 400/	
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.04	6-7	>999	240	weight: 45 lb	FT = 10%	
LUMBER			7)	Provide mec	hanical connectio	n (by oth	ers) of truss	to						
FOP CHORD	2x4 SPF No.2		,	bearing plate	e capable of withs	tanding 6	2 lb uplift at	joint						
BOT CHORD	2x4 SPF No.2			8 and 62 lb ι	uplift at joint 5.									
WEBS	2x3 SPF No.2 *Exce	pt* 8-1,5-4:2x6 SPF	No.2 8)	This truss is	designed in accor	dance w	ith the 2018	اممد						
				R802 10 2 a	nd referenced star	ndard AN	R302.11.18	and						
BRACING			. 9)	Graphical pu	In representation	nuaiu An	t denict the	size						
FOP CHORD	Structural wood she	athing directly applie	ed or ³⁾	or the orienta	ation of the purlin	along the	top and/or	3126						
	2-0-0 oc purlins (6-0	except end venticals	, anu	bottom chore	d.	•								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	, LC	AD CASE(S)	Standard									
	bracing.		-											
REACTIONS	(size) 5=0-3-8, 8	3=0-3-8												
	Max Horiz 8=54 (LC	5)												
	Max Uplift 5=-62 (LC	9), 8=-62 (LC 8)												
	Max Grav 5=636 (LC	C 1), 8=636 (LC 1)												
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	1-2=-857/68, 2-3=-66 1-8=-547/97, 4-5=-54	85/102, 3-4=-858/68 47/97	8,											
BOT CHORD	7-8=-52/687, 6-7=-5	4/685, 5-6=-22/687												
WEBS	2-7=0/160, 2-6=-99/	100, 3-6=0/160												
NOTES														
1) Unbalanc	ed roof live loads have	been considered for	r										Th	
this desig	n.											OF I	ALC AL	
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										AREUTI	NIS'S	
Vasd=91r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.								A		NSY	
II; Exp C;	Enclosed; MWFRS (en	velope) exterior zor	ie;								A	NATHA	NIEL	
cantilever	left and right exposed	; end vertical left and	d								4	FO	X V	,
right expo	sea; Lumber DOL=1.6	U plate grip DOL=1.6	50								X)+	I LA		
 Provide a This trues 	bas been designed for	event water ponding									RV	ITH	11 In	1.
chord live	load nonconcurrent wi	th any other live load	de								X 1	al Kami		r -
	INVESTIGATION OF THE VERY STATES		41.4.											

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

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anno February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	F3	Common	3	1	Job Reference (optional)	163626965



7-3-8

7-3-8

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.76 0.38 0.09	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.12 0.01 0.03	(loc) 5-6 5-6 4 5-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 39 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2x4 SOT CHORD 2x4 WEBS 2x4 WEBS 2x4 No BRACING TOP CHORD Str 3-5 SOT CHORD Str 3-5 SOT CHORD Str 3-5 BOT CHORD ST 3-5 Max Max Max Max Max Max SOT CHORD 1-2 3-4 SOT CHORD 5-6	4 SPF No.2 4 SPF No.2 4 SPF 2100F 1.8E 2 4 SPF 2100F 1.8E 2 9 12 oc purlins, e: gid ceiling directly acing. e) 4=0-3-8, 6 (Horiz 6=66 (LC 4 Uplift 4=-79 (LC 5 Grav 4=643 (LC) - Maximum Com nsion 2=-806/109, 2-3=-14 4=-566/126 5=-31/618, 4-5=-3	*Except* 5-2:2x3 SF athing directly applied xcept end verticals. applied or 10-0-0 oc 5=0-3-8 5) 9), 6=-79 (LC 8) 21), 6=643 (LC 1) pression/Maximum 806/109, 1-6=-566/12 1/618	7) This truss is International R802.10.2 ar PF LOAD CASE(S) d or	designed in accorda Residential Code se nd referenced standa Standard	nce wi ctions ard AN	th the 2018 R502.11.1 ar SI/TPI 1.	nd					
NEBS 2-5 NOTES	5=0/298											
 Unbalanced rot this design. Wind: ASCE 7- Vasd=91mph;⁻ II; Exp C; Enclo cantilever left a right exposed; This truss has l chord live load * This truss has on the bottom c 3-06-00 tall by chord and any All bearings are bearing plate c 6 and 79 lb upl 	of live loads have -16; Vult=115mph TCDL=6.0psf; BCI ossed; MWFRS (en and right exposed Lumber DOL=1.60 been designed for nonconcurrent will s been designed for chord in all areas v 2-00-00 wide will f other members. e assumed to be S unical connection (tapable of withstar lift at joint 4.	been considered for (3-second gust) DL=6.0psf; h=25f; C; velope) exterior zone; end vertical left and D plate grip DOL=1.6(a 10.0 psf bottom th any other live loads or a live load of 20.0p where a rectangle fit between the bottor SPF No.2 . by others) of truss to iding 79 lb uplift at joi	at. ;;) s. ssf n							A State	PE-20220 February	AISSOCIAL ER 042259 LENGT 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J1	Diagonal Hip Girder	1	1	Job Reference (optional)	163626966

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

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Scale =	1:33.3
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Plate Offsets (X, Y)	: [3:0-5-5,0-1-4],	[5:Edge,0-2-8]
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Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2011	8/TPI2014	CSI TC BC WB Matrix-R	0.63 0.56 0.02	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.23 0.11 0.16	(loc) 5-6 5-6 5 5-6	l/defl >580 >343 n/a >487	L/d 360 240 n/a 240	PLATES MT20 Weight: 22 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 6-0-0 cc purlins, ex Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 8=118 (LC Max Uplift 5=-121 (L Max Grav 5=321 (LC (Ib) - Maximum Com Tension 2-8=-418/176, 1-2=(3-4=-159/31, 4-5=-1 7-8=0/0, 3-6=-49/97 6-7=0/67	ept* 8-2:2x4 SPF No athing directly applie cept end verticals. applied or 10-0-0 or unical, 8=0-4-9 C 5) C 8), 8=-144 (LC 4) C 1), 8=427 (LC 1) pression/Maximum 0/32, 2-3=-152/5, 84/83 , 5-6=-49/97	7) 2 8) 2 3 2 9) LC 1)	This truss is International R802.10.2 a Hanger(s) or provided suf down and 27 up at 4-1-7, an bottom chore device(s) is i In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Lo Vert: 1-2 Concentrat Vert: 10=	designed in accord Residential Code s nd referenced stand r other connection d ficient to support cc 7 lb up at 4-1-7, and on top chord, and 3 d 31 lb down and 4 d. The design/selec the responsibility of CASE(S) section, I are noted as front (F Standard of Live (balanced): I ase=1.15 ads (lb/ft) ==70, 2-4=-70, 7-8= ed Loads (lb) ==56 (F=-28, B=-28)	ance w sections dard AN levice(s ncentra d 69 lb 1 lb do 6 lb up ction of others. loads a -) or ba Lumber	ith the 2018 R502.11.1 a ISI/TPI 1.) shall be ted load(s) 6 down and 27 wn and 46 lb at 4-1-7 on such connect oplied to the f ck (B). Increase=1. 6=-20	nd 9 lb lb up ion face 15,						
1) Wind: AS Vasd=91ı II; Exp C; cantilever right expo 2) This truss	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er r left and right exposed bsed; Lumber DOL=1.6 s has been designed for	(3-second gust) DL=6.0psf; h=25ft; (velope) exterior zor ; end vertical left an 0 plate grip DOL=1.0 r a 10.0 psf bottom	Cat. ne; d 50								B	ATE OF M	MISSOL	

- 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 144 lb uplift at joint 8 and 121 lb uplift at joint 5.



February 15,2024

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RELEASE OF CONTRUCTION AS NOTED ON TLANS REVIEW DEVELORMENT SERVICES LEETS SUMMITY MISSOURI 03/05/2024 4:08:39

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J2	Jack-Open	2	1	Job Reference (optional)	163626967

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



3x6 II

2-2-4





2x4 II

Scale = 1:30.1

Loading FCLL (roof) FCDL 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-R	0.07 0.09 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 0.00 0.00	(loc) 7 7 5 7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%	
LUMBER FOP CHORD BOT CHORD WEBS BRACING	2x4 SPF N 2x4 SPF N 2x3 SPF N	No.2 No.2 *Exce No.2	pt* 7-3:2x3 SPF No.	7) 2 L(This truss is International R802.10.2 ar DAD CASE(S)	designed in acc Residential Co nd referenced s Standard	cordance w ode sections standard AN	th the 2018 R502.11.1 ISI/TPI 1.	and						
TOP CHORD	Structural 2-10-3 oc Rigid ceili bracing	2x3 SPF No.2 LOAD CASE(S) Standard Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc													
REACTIONS	(size) Max Horiz Max Uplift Max Grav	4= Mecha 8=0-3-8 8=65 (LC 4=-14 (LC (LC 8) 4=52 (LC (LC 1)	nical, 5= Mechanica 8) 8), 5=-29 (LC 8), 8= 1), 5=56 (LC 1), 8=2	I, 24 02											
OPCES	(lb) - Mavi	imum Com	pression/Maximum												

FORCES (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 2-8=-181/46, 1-2=0/31, 2-3=-77/0, 3-4=-9/22

 BOT CHORD
 7-8=-22/30, 6-7=0/42, 3-6=-23/40, 5-6=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.
- 6) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 24 lb uplift at joint 8, 14 lb uplift at joint 4 and 29 lb uplift at joint 5.



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J3	Jack-Open	4	1	Job Reference (optional)	163626968

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:31

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-R	0.27 0.32 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.07 0.04 0.03	(loc) 6 6 5 7	l/defl >999 >834 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 10%
		0000	7) This te				0.00			2.0	rroigini r ib	
LUMBER			7) This tru	iss is designed in acco	ordance w	th the 2018	and					
POT CHORD	2X4 SPF N0.2	004* 7 2:2:2 CDE No	NO R802 1	0.2 and referenced st	andard AN	ISI/TPI 1	anu					
WERS	2x4 SPF N0.2 EXCE	pt 7-3.2x3 SPF NU		SE(S) Standard		0,00,00						
REACING	273 011 10.2		LOAD CA									
	Structural wood cho	athing directly appli	od or									
TOP CHORD		atting unectly appli vcent end verticals										
BOT CHORD	 Rigid ceiling directly 	applied or 10-0-0 o	iC.									
201 0110112	bracing.											
REACTIONS	(size) 4= Mecha	anical, 5= Mechanica	al,									
	8=0-3-8	,	,									
	Max Horiz 8=75 (LC	8)										
	Max Uplift 4=-37 (LC	8)										
	Max Grav 4=138 (L0	C 1), 5=78 (LC 3), 8	=290									
	(LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension	04 0 0 407/0										
TOP CHORD	2-8=-272/20, 1-2=0/	31, 2-3=-187/0,										
	3-4=-30/33 7-834/107 6-7-0/	44 3-6-0/74 5-6-0	1/ ∩									
NOTES	1 0= 04/101, 0 1=0/	++, 0 0=0/1+, 0 0=0										
1) Wind: AS	CE 7 16: \/ult_115mph	(2 second quet)										
1) Wind. AS	mph: TCDI =6 0psf: BC	DI -6 Onsf: h-25ft: i	Cat									
	Enclosed: MWFRS (er	velope): cantilever	left									
and right	exposed ; end vertical l	left and right expose	ed;								- march	alle
Lumber D	DOL=1.60 plate grip DO	L=1.60									6 OF	MISSIM
2) This truss	s has been designed for	r a 10.0 psf bottom								9	A.T.E.	-050 M
chord live	e load nonconcurrent wi	th any other live loa	ıds.							A	N	New
3) * This true	ss has been designed f	or a live load of 20.0	Opsf							U	S/ NATHA	WIEL / CAN
on the bo	ttom chord in all areas	where a rectangle								NA	FO	X
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	om									
 All bearing 	u any other members.	SPE No 2									ATTA	VI TARA
5) Refer to c	nys are assumed to be a nirder(s) for trues to tru	ss connections								MA	W W Vann	RER VADA
6) Provide n	nechanical connection ((by others) of truss t	to							177	PE-2022	042259
bearing p	late capable of withstar	nding 37 lb uplift at i	ioint							N	-2022	223728

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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



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February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J4	Jack-Open	14	1	Job Reference (optional)	163626969

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





			ļ		4-1	1-4							
Scale = 1:26.3													
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	0.36	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.06	4-5	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%	
LUMBER			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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

LU	MBER				LOAD CASE(S)	Standard
TO	P CHORD	2x4 SPF	No.2			
BO	T CHORD	2x4 SPF	No.2			
WE	BS	2x3 SPF	No.2			
BR	ACING					
то	P CHORD	Structura 4-11-4 or	I wood sheathing direct	y applied or rticals.		
BO	T CHORD	Rigid cei bracing.	ing directly applied or 1	0-0-0 oc		
RE	ACTIONS	(size)	3= Mechanical, 4= Me 5=0-3-8	chanical,		
		Max Horiz	5=75 (LC 8)			
		Max Uplift	3=-51 (LC 8)			
		Max Grav	3=151 (LC 1), 4=91 (L (LC 1)	C 3), 5=290		
FO	RCES	(lb) - Max Tension	kimum Compression/Ma	ximum		
то	P CHORD	2-5=-252	/37, 1-2=0/31, 2-3=-82/	53		
BO	T CHORD	4-5=0/0				
NO	TES					
1)	Wind: ASC	CE 7-16; Vu	Ilt=115mph (3-second g	ust)		
	Vasd=91n	nph; TCDL=	=6.0psf; BCDL=6.0psf; h	=25ft; Cat.		
	II; Exp C;	Enclosed; N	/IWFRS (envelope); can	tilever left		
	and right e	exposed; e	nd vertical left and right	exposed;		
2)	Lumber D	DL=1.60 pl	ate grip DOL=1.60 losigned for a 10.0 pcf b	ottom		
2)	chord live	load nonco	ncurrent with any other	live loads		
3)	* This trus	s has been	designed for a live load	of 20.0psf		
,	on the bot	tom chord i	n all areas where a rect	angle		
	3-06-00 ta	II by 2-00-0	0 wide will fit between t	he bottom		
	chord and	any other i	nembers.			
4)	All bearing	s are assu	med to be SPF No.2.			
5)	Refer to g	irder(s) for	truss to truss connectio	ns.		
6)	bearing pl	ate capable	of withstanding 51 lb u	plift at joint		
7)	5. This truss	is designed	t in accordance with the	2018		
• /	Internation	nal Residen	tial Code sections R502	2.11.1 and		
	R802.10.2	and refere	nced standard ANSI/TP	41.		



TION 'IEW DEVELOPMENT SERVICES LEE'S'SUMMIT,SMISSOURI 03/05/2024 4:08:40

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J5	Diagonal Hip Girder	1	1	Job Reference (optional)	163626970

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:34.4

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-R	0.57 0.39 0.03	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.23 0.07 0.14	(loc) 6 5 6	l/defl >609 >344 n/a >571	L/d 360 240 n/a 240	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 7=119 (LC Max Unlift 5=-80 (LC	athing directly applic cept end verticals. applied or 10-0-0 or nical, 7=0-3-7 2 5) 83 7=-112 (I C 4)	7) 8) ed or 9) c	Provide mec bearing plate 7 and 80 lb u This truss is International R802.10.2 at Hanger(s) or provided suff down and 61 up at 4-3-9 of 13 lb down a selection of a	hanical connect e capable of wit uplift at joint 5. designed in ac Residential Co nd referenced a other connect ficient to suppo Ib up at 4-3-9 on top chord, a tt 4-3-9 on bott such connectio	ction (by othe thstanding 1 ecordance wi ode sections standard AN ion device(s ort concentra 6, and 84 lb do and 13 lb dov tom chord.	ers) of truss i 12 lb uplift a th the 2018 R502.11.1 a SI/TPI 1. shall be ted load(s) & down and 61 wn at 4-3-9, Fhe design/ s the	to t joint and 34 lb lb and						_
FORCES	Max Grav 5=293 (LC (lb) - Maximum Com	C 1), 7=405 (LC 1) pression/Maximum	10) In the LOAD of the truss a	of others. CASE(S) sect are noted as fro	ion, loads ap ont (F) or bac	plied to the k (B).	face						
TOP CHORD BOT CHORD WEBS	Tension 2-7=-358/127, 1-2=0 3-4=-140/37, 4-5=-17 6-7=-53/121, 5-6=-57 3-6=-23/83)/31, 2-3=-210/8, 79/68 7/122	LC 1)	Dead + Roc Plate Increa Uniform Loc	Standard of Live (balance ase=1.15 ads (lb/ft)	ed): Lumber	Increase=1.	15,						
NOTES 1) Wind: ASI Vasd=91r II; Exp C; cantilever right expo	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed ; sed; Lumber DOL=1.6((3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1.0	Cat. ne; d 60	Vert: 1-2 Concentrate Vert: 9=-	=-70, 2-4=-70, ed Loads (lb) 5 (F=-3, B=-3)	ю- <i>1</i> =-20, 5-6	i=-20					TE OF I	MISSOL	

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)
- Refer to girder(s) for truss to truss connections. 5)
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building 6) designer should verify capacity of bearing surface.

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



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PE-2022042259

February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J6	Jack-Open	2	1	Job Reference (optional)	163626971

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

February 15,2024

DEVELORMENT: SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:40

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Scale = 1:27

Loading TCLL (roof) TCDL BCLL		(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.10 0.07 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 -0.01	(loc) 5-6 5-6 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5-6	>999	240	Weight: 9 lb	FI = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No. 2x4 SPF No. 2x3 SPF No.	2 2 2	athing directly applie	8) This truss i Internationa R802.10.2 LOAD CASE(S	s designed in acco al Residential Cod and referenced sta) Standard	ordance wi le sections andard AN	th the 2018 R502.11.1 a SI/TPI 1.	and						
BOT CHORD	2-11-11 oc p Rigid ceiling bracing.	directly	except end verticals. applied or 6-0-0 oc											
REACTIONS	(size) 3= 6= Max Horiz 6= Max Uplift 3= Max Grav 3=	= Mechar =0-3-8 =67 (LC 8 =-53 (LC =85 (LC	nical, 4= Mechanica 8) 8), 6=-23 (LC 8) 1), 4=53 (LC 3), 6=2	ı, 107										
FORCES	(Ib) - Maximu	um Com	pression/Maximum											
TOP CHORD	Tension 2-6=-180/51,	, 1-2=0/3	31, 2-3=-57/29											
BOT CHORD	5-6=-22/13, 4	4-5=0/0												
 Wind: ASC Vasd=91m II; Exp C; E cantilever I right expose This truss chord live I * This truss on the bott 3-06-00 tal 	E 7-16; Vult=1 ph; TCDL=6.0 Enclosed; MWI left and right e sed; Lumber D has been desig load nonconcu s has been desi tom chord in al ll by 2-00-00	115mph psf; BCI FRS (en' xposed ; OL=1.60 gned for urrent wit signed for ll areas v <i>r</i> ide will f	(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 h any other live load or a live load of 20.0 where a rectangle it between the botto	Cat. e; d b0 ds. psf m								STATE OF J	MISSOLP INIEL	à
 chord and All bearing Searing at using ANS designer si Provide me bearing pla 6 and 53 lb 	any other men is are assumed rder(s) for trus joint(s) 6 cons i/TPI 1 angle t hould verify ca echanical conr ate capable of p uplift at joint :	nbers. d to be S ss to trus siders pa to grain f apacity of nection (I withstan 3.	PF No.2. rallel to grain value ormula. Building f bearing surface. by others) of truss to ding 23 lb uplift at jo) vint								PE-2022	ER 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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J7	Diagonal Hip Girder	2	1	Job Reference (optional)	163626972

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:58 ID:1gP3KRET6uesCwPjpJNmIEzIGCt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







4-7-1

Scale	_	1.24 5
Judie	_	1.24.0

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 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-R	0.32 0.20 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.01 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: 13 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood s 4-7-1 oc purlins, Rigid ceiling direc bracing. (size) 3= Mec 5=0-4-5 Max Horiz 5=81 (L Max Uplift 3=-67 (Max Grav 3=135 (LC 1)	heathing directly applie except end verticals. tly applied or 10-0-0 or hanical, 4= Mechanica C 4) LC 8), 5=-83 (LC 4) LC 1), 4=84 (LC 3), 5=	8) ed or c 9) al, LC 1) =306	Hanger(s) or provided suff down and 31 up at 1-10-3 3 lb down and design/selec responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Incree Uniform Loc Vert: 1-2 Concentrat	other connect licient to supp lb up at 1-1 on top chorc d 3 lb up at of others. CASE(S) set are noted as f Standard of Live (balan ase=1.15 ads (lb/ft) =-70, 2-3=-7(ed Loads (lb)	ction device(s port concentra 0-3, and 67 lb d, and 3 lb dov 1-10-3 on bott connection dev ction, loads ag (ront (F) or back need): Lumber 0, 4-5=-20) shall be (ted load(s) (down and 1 vn at 1-10-3 om chord. vice(s) is the oplied to the ck (B). Increase=1	66 lb 19 lb 3, and The 9 face .15,						
FORCES	(lb) - Maximum Co Tension 2-5=-268/120, 1-2	mpression/Maximum =0/31. 2-3=-81/35		vert: 7=2	2 (F=-1, B=3)									
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.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 83 lb uplift at joint 5 and 67 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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February 15,2024



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with with with the contractions. This design is based only door plantaters 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/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 167 HM	
B240013	J8	Jack-Open	4	1	Job Reference (optional)	163626973

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:58 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:29

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.36	Vert(LL)	-0.03	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	5-6	>992	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	5-6	>999	240	Weight: 14 lb	FT = 10%
LUMBER			8) This truss is	designed in accordar	nce w	ith the 2018						
TOP CHORD	2x4 SPF No.2		International	Residential Code se	ctions	R502.11.1 a	nd					
BOT CHORD	2x4 SPF No.2		R802.10.2 ar	nd referenced standa	ard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood shea	athing directly applie	d or									
	4-11-4 oc purlins, ex	xcept end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc										
REACTIONS	(size) 3= Mecha 6=0-3-8	nical, 4= Mechanica	l,									
	Max Horiz 6=75 (LC	8)										
	Max Uplift 3=-52 (LC	8)										
	Max Grav 3=152 (LC	C 1), 4=91 (LC 3), 6=	290									
	(LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum										
		24 2 2 22/52										
	2-6=-251/36, 1-2=0/3	31, 2-3=-82/53										
	5-6=-30/3, 4-5=0/0											
NUIES	CE 7 16: \/ult_115mph	(2 second quist)										
Vasd=91n	DE 7-10, $Vull=11511p11$	(3-3econd gust) DI =6 0nsf: h=25ft: C	at									
II: Exp C:	Enclosed: MWFRS (en	velope): cantilever le	eft									
and right e	exposed ; end vertical l	eft and right exposed	d;									
Lumber D	OL=1.60 plate grip DO	L=1.60									Com	TON
This truss	has been designed for	a 10.0 psf bottom									A. OF M	AIS.C.
chord live	load nonconcurrent with	th any other live load	ls.							E	750	W.Oo
3) * This trus	s has been designed fo	or a live load of 20.0	psf							B	NATUA	NIET X
on the bot	tom chord in all areas v	where a rectangle	~							R		
3-06-00 la	any other members	III between the botto	m							▓∠		
 All bearing 	any other members.	SPE No 2								M/	the	
5) Refer to a	irder(s) for truss to trus	ss connections.								VI.	All and	The
6) Bearing at	joint(s) 6 considers pa	arallel to grain value								1	KU UKUM	BER J MAY
using ANS	SI/TPI 1 angle to grain f	formula. Building								N	ON PE-2022	042259
designer s	hould verify capacity o	f bearing surface.								S	- Ch	188
7) Provide m	echanical connection (by others) of truss to) 								Size	ENU'S
bearing pl	ate capable of withstan	nding 52 lb uplift at jo	Dint								WNA NA	L

bearing plate capable of withstanding 52 lb uplift at joint 3.



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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J9	Diagonal Hip Girder	1	1	Job Reference (optional)	163626974

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:02:58 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:34.4

Plate Offsets (X, Y): [4:0-3-3,Edge], [5:0-3-8,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-R	0.57 0.35 0.02	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.10 -0.18 0.04 0.10	(loc) 6-7 6-7 5 6-7	l/defl >810 >448 n/a >782	L/d 360 240 n/a 240	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 7=119 (LC	athing directly applie cept end verticals. applied or 10-0-0 o unical, 7=0-4-3 C 5)	7) 8) ed or 9) c	Provide mec bearing plate 7 and 76 lb u This truss is International R802.10.2 at Hanger(s) or provided suff down and 59 up at 4-1-7 (12 lb down a selection of s	hanical connection e capable of withste plift at joint 5. designed in accord Residential Code nd referenced star other connection icient to support c lb up at 4-1-7, ar on top chord, and t 4-1-7 on bottom	h (by oth anding 1 dance wi sections ndard AN device(s oncentra nd 82 lb do 12 lb dov chord.	ers) of truss i 10 lb uplift al th the 2018 R502.11.1 a SI/TPI 1.) shall be ted load(s) 8 down and 59 vn at 4-1-7, The design/ s the	to t joint and 32 lb lb and						
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: AS	Max Uplift 5=-76 (LC Max Grav 5=292 (LC (lb) - Maximum Com Tension 2-7=-362/137, 1-2=0 3-4=-123/48, 4-5=-1 6-7=-59/138, 5-6=-6 3-6=-35/82 CE 7-16; Vult=115mph	 (2), 7=-110 (LC 4) (LC 1), 7=404 (LC 1) (LP 1), 7=404 (LC 1) (2), 7=-222/13, 62/46 (2), 46 (3)-second gust) 	10) LC 1)	presponsibility) In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Loc Vert: 1-2: Concentrate Vert: 9=-	of others. CASE(S) section, ire noted as front (Standard of Live (balanced): ase=1.15 adds (lb/ft) =-70, 2-4=-70, 6-7 ed Loads (lb) 4 (F=-2, B=-2)	loads ar (F) or ba Lumber =-20, 5-6	pplied to the h ck (B). Increase=1. S=-20	face 15,						
Vasd=91ı II; Exp C; cantilever right expo	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed psed; Lumber DOL=1.6	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1.	Cat. ne; id 60								4	FE OF M	AISSO	

itilever left a and right end vertical 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)
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building 6) designer should verify capacity of bearing surface.

FOX **MBER** PE-2022042259 SSIONAL E February 15,2024

NATHANIEL

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



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J10	Jack-Open	2	1	Job Reference (optional)	163626975

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:59 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2-10-3

2-10-3

Scale = 1:26.8

Loading TCLL (roof) TCDL BCU	(p 29 10	osf) 5.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.09 0.06 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL	1	0.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural woo 2-10-3 oc purli Rigid ceiling di	od shea ins, ex irectly a	thing directly applie cept end verticals. applied or 6-0-0 oc	8) This truss is Internationa R802.10.2 a LOAD CASE(S	designed in accor I Residential Code and referenced star Standard	dance wi sections ndard AN	th the 2018 R502.11.1 a ISI/TPI 1.	and				-		
REACTIONS	bracing. (size) 3= N 5=0 Max Horiz 5=6 Max Uplift 3=-5 Max Grav 3=8	Mechar I-3-8 I4 (LC 8 50 (LC 1	nical, 4= Mechanica 8) 8), 5=-23 (LC 8)), 4=51 (LC 3), 5=2	I, 202										
FORCES TOP CHORD BOT CHORD	(LC (lb) - Maximum Tension 2-5=-176/49, 1 4-5=-18/13	1) n Comp I-2=0/3	pression/Maximum 1, 2-3=-54/27											
NOTES 1) Wind: ASC Vasd=91m II; Exp C; E cantilever I right expos 2) This truss I chord live I 3) * This truss on the bott 3-06-00 tal chord and 4) All bearing 5) Refer to gii 6) Bearing at	CE 7-16; Vult=11 hph; TCDL=6.0ps Enclosed; MWFF left and right exp sed; Lumber DO has been design load nonconcurr s has been desig tom chord in all a II by 2-00-00 wid any other memb is are assumed to rder(s) for truss joint(s) 5 consid	5mph (sf; BCE RS (env posed ; L=1.60 ned for rent with gned for areas w de will fi pers. to be S to trus ders par	3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon end vertical left and plate grip DOL=1.6 a 10.0 psf bottom n any other live load r a live load of 20.0 where a rectangle t between the botto PF No.2. s connections. allel to grain value	Cat. le; d 50 ds. psf m						,		State OF M State OF M NATHA FO	MISSOLIA NIEL X BER	100
using ANS designer sl 7) Provide me bearing pla 5 and 50 lb	SI/TPI 1 angle to hould verify capa echanical conne ate capable of wi o uplift at joint 3.	grain fo acity of ction (b ithstand	ormula. Building bearing surface. by others) of truss to ding 23 lb uplift at jo	D bint							A.	PE-2022	L ENGL	1



February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J11	Jack-Open	11	1	Job Reference (optional)	163626976

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:59 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-2-10



-0-10-8 4-11-4 0-10-8 4-11-4 3 12 6 ┌ 3-2-13 • 2 5 4 0-6-0 3x4 = 6 \bigotimes _ 4 12 3x6 II



Scale = 1:29

Loading		(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	тс	0.36	Vert(LL)	-0.03	5-6	>999	360	MT20	197/144
TCDL		10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	5-6	>994	240		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	5-6	>999	240	Weight: 14 lb	FT = 10%
				8) This truss is	designed in accor	dance w	ith the 2018						
TOP CHORD	2x4 SPF	No 2		Internationa	Residential Code	sections	R502.11.1 a	ind					
BOT CHORD	2x4 SPF	No.2		R802.10.2 a	ind referenced star	ndard AN	ISI/TPI 1.						
WEBS	2x3 SPF	No.2		LOAD CASE(S)	Standard								
BRACING													
TOP CHORD	Structura	l wood shea	athing directly applie	ed or									
	4-11-4 oc	purlins, ex	xcept end verticals.										
BOT CHORD	Rigid ceili bracing.	Rigid ceiling directly applied or 6-0-0 oc bracing.											
REACTIONS	(size)	3= Mecha	nical, 4= Mechanica	al,									
		6=0-3-8											
	Max Horiz	6=75 (LC	8)										
	Max Uplift	3=-52 (LC	(8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	000									
	wax Grav	3=152 (LC (LC 1)	5 1), 4=91 (LC 3), 6=	=290									
FORCES	(lb) - Max	imum Com	pression/Maximum										
1011020	Tension		procedent/maximum										
TOP CHORD	2-6=-251/	/37, 1-2=0/3	31, 2-3=-82/53										
BOT CHORD	5-6=-31/6	6, 4-5=0/0											
NOTES													
1) Wind: AS	CE 7-16; Vu	lt=115mph	(3-second gust)										
Vasd=91r	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.									
II; Exp C;	Enclosed; N	1WFRS (en	ivelope); cantilever l	left									
and right o	exposed ; er	te arin DO	en and right expose	a,								000	The
 This truss 	has been d	esigned for	a 10.0 psf bottom									A OF M	ALC. D
chord live	load nonco	ncurrent wit	th any other live load	ds.								8 TE	10801
3) * This trus	ss has been	designed for	or a live load of 20.0)psf							A	N	Ne
on the bot	ttom chord in	n all areas v	where a rectangle								U	S/ NATHA	NIEL / CAN
3-06-00 ta	all by 2-00-0	0 wide will f	fit between the botto	om								FO.	X \ Y
4) All booring	any other n	nempers.									8		1 million
5) Refer to a	ys are assur irder(s) for	truss to true	SFF INU.2.								8/	FTT .	FL &
6) Bearing a	t ioint(s) 6 c	onsiders pa	arallel to grain value								W7	a Manie	BER
using ANS	SI/TPI 1 ang	le to grain f	formula. Building								N3	O PE-2022	042259
designer	should verify	capacity o	of bearing surface.								N	The last	18A
7) Provide m	nechanical c	onnection (by others) of truss to	0							X	A Ser	NO'A
bearing pl	late capable	of withstan	nding 52 lb uplift at jo	oint								ONA	LEIS
3.												low	DCC -

February 15,2024





Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J12	Diagonal Hip Girder	3	1	Job Reference (optional)	163626977

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:59 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.4

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

_oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.08	4-5	>986	360	MT20	197/144	
FCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.17	4-5	>471	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)	0.03	4-5	>999	240	Weight: 20 lb	FT = 10%	
CUMBER TOP CHORD SOT CHORD SOT CHORD SOT CHORD REACTIONS FORCES	0.0° 10.0 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 4= Mecha Max Horiz 5=135 (LC Max Uplift 4=-72 (LC Max Grav 4=295 (LC (Ib) - Maximum Com Tension 2-5=-352/161, 1-2=0 3-4=-208/101 4-5=-41/58	Rep Stress Incr Code athing directly applie cept end verticals. applied or 10-0-0 oc nical, 5=0-4-9 2 5) : 8), 5=-112 (LC 4) 2 1), 5=406 (LC 1) pression/Maximum 1/31, 2-3=-172/22,	NO IRC2018/TPI2014 8) Hanger(s) o provided suf down and 5d up at 4-1-7 12 lb down a selection of responsibilit 9) In the LOAD of the truss a LOAD CASE(S) 1) Dead + Ro Plate Incre Uniform Lo Vert: 1-2 Concentrat Vert: 7=	WB Matrix-R r other connection de ficient to support con 8 lb up at 4-1-7, and on top chord, and 12 at 4-1-7 on bottom cl such connection devi y of others. I CASE(S) section, lo CASE(S) section, lo CASE(S) section, lo Case-1.15 adds (lb/ft) [=-70, 2-3=-70, 4-5=- ed Loads (lb) 8 (F=-6, B=-2)	0.00 evice(s acentra 81 lb (lb dou- nord. ~ ice(s) i ads ap or back umber 20	Horz(C1) Wind(LL)) shall be ted load(s) 8 down and 58 down and 4-1-7, . The design/ s the oplied to the f ck (B). Increase=1.	0.00 0.03	4 4-5	n/a >999	n/a 240	Weight: 20 lb	FT = 10%	
 World: ASC Vasd=91m Wind: ASC Vasd=91m Wasd=91m II; Exp C; I cantilever right expose This truss chord live * This truss on the bott 3-06-00 tai All bearing platic chord and All bearing platic platic	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed sed; Lumber DOL=1.6(has been designed for load nonconcurrent with s has been designed for tom chord in all areas v ll by 2-00-00 wide will 1 any other members. Is are assumed to be S rder(s) for truss to trus echanical connection (ate capable of withstar to uplift at joint 4. is designed in accorda and referenced stand	(3-second gust) DL=6.0psf; h=25ft; C vvelope) 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 ding 112 lb uplift at j ance with the 2018 ections R502.11.1 ar ard ANSI/TPI 1.	e; e; H O Is. psf m ioint								NATHA FO PE-2022	MISSOLA MIEL BER DA D42259	

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February 15,2024

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J13	Jack-Open	5	1	Job Reference (optional)	163626978

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:59 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





2-10-3

Scale = 1:24.1		
	-	

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0 BC 0 WB 0 Matrix-R).09).06).00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 -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: 8 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF I 2x4 SPF I 2x3 SPF I Structural 2-10-3 oc Rigid ceili bracing.	No.2 No.2 No.2 wood shea purlins, ex ng directly	athing directly applie ccept end verticals. applied or 10-0-0 oc	LOAD CASE(S)	Standard								
REACTIONS	(size) Max Horiz Max Uplift Max Grav (lb) - Max	3= Mecha 5=0-3-8 5=65 (LC 3=-49 (LC 3=80 (LC (LC 1) imum Com	nical, 4= Mechanical 8) 8), 5=-24 (LC 8) 1), 4=51 (LC 3), 5=2 pression/Maximum	, 02									
TOP CHORD BOT CHORD	Tension 2-5=-176/ 4-5=0/0	50, 1-2=0/3	31, 2-3=-54/27										
NOTES 1) Wind: ASC Vasd=91m II; Exp C; E cantilever I right expos 2) This truss chord live I 3) * This truss on the bott 3-06-00 tal chord and 4) All bearing 5) Refer tog 6) Provide me bearing pla 5 and 49 lk 7) This truss i Internation R802.10.2	CE 7-16; Vul hph; TCDL= Enclosed; N left and right has been du load noncor s has been du load noncor s has been to bom chord ir ll by 2-00-00 any other m s are assur rder(s) for di echanical cu ate capable to uplift at joi is designed hal Resident and referen	It=115mph 6.0psf; BCI IWFRS (en t exposed ; r DOL=1.60 esigned for nourrent with designed for nourrent with designed for all areas v 0 wide will f nembers. ned to be S truss to trus on ection (i of withstan nt 3. in accorda ial Code se need standa	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon; ; end vertical left anc) 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 it between the bottor SPF No.2. ss connections. by others) of truss to idding 24 lb uplift at jo nce with the 2018 ections R502.11.1 ar ard ANSI/TPI 1.	at. 2; 0 s. 2sf m						- ,		PE-20220 February	AISSOLUTION NIEL A22259 L ENGINE 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J14	Jack-Open	1	1	Job Reference (optional)	163626979

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:02:59 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-8-11 12 6 _ 2 1

2-2-2

Page: 1



3x10 u

L	2-8-11	
ſ		

Scale = 1:21.4 Plate Offsets (X, Y): [4:0-3-8,Edge]

	()]]]]]]]											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.11	DEFL Vert(LL)	in 0.00	(loc) 3-4	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	3-4	>999	240		
BCLL	10.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.00	2 3-4	n/a >999	n/a 240	Weight [,] 9 lb	FT = 10%
	1010			manix	-		0.00	<u> </u>	1000	2.0	Troigini o io	
LUMBER			This truss is	s designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SP No.2		Internationa	al Residential Cod	e sections	S R502.11.1 a	ina					
BOICHORD	2X4 SP No.3			Stondard	anuaru An	J/1F11.						
	2X4 3F N0.3		LOAD CASE(S	J Stanuaru								
TOP CHORD	Structural wood she	athing directly applie	ed or									
	2-10-3 oc purlins. e	except end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	0									
REACTIONS	(size) 2= Mecha	anical, 3= Mechanica	al, 4=									
	Max Horiz 4-44 (LC	al 5)										
	Max I Inlift 2=-48 (LC	- 5) - 8)										
	Max Grav 2=82 (LC	1), 3=48 (LC 3), 4=1	113									
	(LC 1)	.,, (,,										
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	1-4=-94/24, 1-2=-49	/29										
BOT CHORD	3-4=0/0											
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)	. .									
Vasd=91r	npn; TCDL=6.0psf; BC	DL=6.0pst; h=25tt; (Jat.									
cantilever	left and right exposed	· end vertical left an	ne, d								Same	ADD.
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	60								B.C. OF I	MISC
2) This truss	has been designed fo	r a 10.0 psf bottom								6	9.010	N Sol
chord live	load nonconcurrent w	ith any other live load	ds.							a	NATHA	NIEL CON
3) * This trus	ss has been designed f	for a live load of 20.0	psf						-	H	FO	x V N
On the bol 3-06-00 to	ttom chord in all areas	fit between the botto	m							14	1 11	
chord and	any other members	in between the bollo	////							KI	11	
 All bearing 	gs are assumed to be	SPF No.2 .								WA	VINAM	the star
5) Refer to g	jirder(s) for truss to trus	ss connections.							· · ·	149	BL DE 2022	DADDED AND
										IA I	CIN PH-/1//	14/179 / 125 19

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

7) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 48 lb uplift at joint 2.



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



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J15	Jack-Open Girder	2	1	Job Reference (optional)	163626980

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:00 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





2-4-14



3x6 i

Scale = 1:22.9													
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	0.08	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	NO	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%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		 This truss is Internationa R802.10.2 a Hanger(s) o provided suf- density of the second s	designed in ac I Residential Co and referenced r other connect fficient to suppo	ccordance w ode sections standard AN tion device(s ort concentra	ith the 2018 R502.11.1 a ISI/TPI 1.) shall be ated load(s) 1	and 4 lb						

DIGIGONICO		
TOP CHORD	Structural	wood sheathing directly applied or
	2-4-14 00	purlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	3= Mechanical, 4= Mechanical,
		5=0-4-9
	Max Horiz	5=58 (LC 7)
	Max Uplift	3=-36 (LC 12), 4=-8 (LC 19),
		5=-121 (LC 6)
	Max Grav	3=27 (LC 1), 4=23 (LC 3), 5=61
		(LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
	0 5 07/4	10 10 0/11 00 01/0

TOP CHORD 2-5=-67/118, 1-2=-3/11, 2-3=-21/6 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.
- * 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 121 lb uplift at joint 5, 36 lb uplift at joint 3 and 8 lb uplift at joint 4.

- down and 5 lb up at -1-2-14, and 14 lb down and 5 lb up at -1-2-14 on top 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
- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Concentrated Loads (lb)
 - Vert: 1=-21 (F=-10, B=-10)
 - Trapezoidal Loads (lb/ft)
 - Vert: 1=0 (F=35, B=35)-to-6=-14 (F=28, B=28), 6=0 (F=35, B=35)-to-2=-9 (F=30, B=30), 2=-9 (F=30, B=30)-to-3=-49 (F=10, B=10), 5=17 (F=19, B=19)to-4=-12 (F=4, B=4)



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J16	Jack-Open	3	1	Job Reference (optional)	163626981

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:00 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





1-9-8



Saal	6		4	.00	
Sca	le.	=	1	:23	

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	0.07 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 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: 6 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF N 2x4 SPF N 2x3 SPF N Structural 1-9-8 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav	lo.2 lo.2 lo.2 wood shea urlins, exin ng directly 3= Mecha 5=0-3-8 5=44 (LC 3=-30 (LC 3=41 (LC	athing directly applie cept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 8) .8), 5=-23 (LC 8) 1), 4=31 (LC 3), 5=1	LOAD CASE(S)	Standard								
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos 2) This truss chord live 3) * This truss chord live 3) * This truss on the bott 3-06-00 tal chord and 4) All bearing pla 5 Refer to gi 6) Provide mu bearing pla 5 and 30 ll 7) This truss Internation R802.10.2	(lb) - Maxi Tension 2-5=-145/ 4-5=0/0 2E 7-16; Vul ph; TCDL=I Enclosed; M left and righ sed; Lumber has been de load noncor is has been de load noncor is de segued is de segued has been de load noncor is de segued has de load	(LC 1) mum Com 40, 1-2=0/3 t=115mph 5.0psf; BC WFRS (er t exposed DOL=1.6 asigned for iccurrent wi designed for iccurrent wi designed for iccurrent wi designed for iccurrent wi designed for iccurrent wi designed for iccurrent wi designed for incurrent wi designed for iccurrent	pression/Maximum 31, 2-3=-36/13 (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon; end vertical left and 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 iding 23 lb uplift at jot ance with the 2018 bections R502.11.1 ar ard ANSI/TPI 1.	Cat. e; d 50 ds. psf m oint								PE-2022 February	MISSOLUTION NIEL X BER 042259 L ENGLAND 15,2024

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



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J17	Jack-Closed Girder	1	1	Job Reference (optional)	163626982

4-11-4

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:00 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20.3

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

	(, .). [=.=.ge;e = e]											
Loading FCLL (roof) FCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.33 0.25 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.06 0.00	(loc) 3-4 3-4 3	l/defl >999 >946 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 30 lb	GRIP 197/144 FT = 10%
LUMBER FOP CHORD 30T CHORD WEBS BRACING FOP CHORD REACTIONS FORCES FOP CHORD 30T CHORD WEBS	2x10 SP 2400F 2.0E 2x4 SPF No.2 2x3 SPF No.2 2-0-0 oc purlins: 1-2 Rigid ceiling directly bracing. (size) 3= Mecha Max Horiz 4=-47 (LC Max Uplift 3=-150 (L Max Grav 3=1154 (L (lb) - Maximum Com Tension 1-4=-839/119, 1-2=- 3-4=-41/36 1-3=-24/24	except end vertical applied or 10-0-0 oc anical, 4=0-3-8 24) C 5), 4=-91 (LC 4) LC 1), 4=887 (LC 1) apression/Maximum 17/13, 2-3=-1106/172	 9) Graphical pu or the orients bottom chord 10) Hanger(s) or provided suff s. design/selec responsibility 11) In the LOAD of the truss a LOAD CASE(S) 1) Dead + Roo Plate Increa Uniform Lo Vert: 1-2 2 	Irlin representation d ation of the purlin alc d. other connection de ficient to support cor tion of such connect y of others. CASE(S) section, Ic are noted as front (F, Standard of Live (balanced): L ase=1.15 ads (lb/ft) =-70, 3-4=-20 ed Loads (lb) 113 (B), 6=-1502 (B	loes no ong the evice(s ncentra ion de oads ap) or ba umber	ot depict the set top and/or) shall be ted load(s) . vice(s) is the oplied to the set ck (B). Increase=1.	The face 15,					
NOTES I) Wind: AS(Vasd=91n II; Exp C; cantilever right expo 2) Provide at 3) This truss chord live 4) * This trus and the back	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 has been designed for load nonconcurrent wi is has been designed for	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 event water ponding. r a 10.0 psf bottom th any other live load or a live load of 20.0p	at. 2; 0 s. ssf								STATE OF M	MISSOLURI NIEL

- on the bottom chord in all areas where a rectan 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)
- Refer to girder(s) for truss to truss connections. 6)
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 4 and 150 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 8) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

FOX R PE-2022042259 SSIONAL E



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CTION **IEW** DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:40

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J18	Diagonal Hip Girder	1	1	Job Reference (optional)	163626983

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 14 11:03:01 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









ЮX Δ

2x4 II



2-6-14

0-6-0

5-1-13

7

Scale = 1:26.1												
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)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	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)	0.01	4-5	>999	240	Weight: 15 lb	FT = 10%

TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural 5-1-13 oc	wood sheathing directly applied or purlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc
REACTIONS	(size)	4= Mechanical, 5=0-4-9
	Max Horiz	5=108 (LC 5)
	Max Uplift	4=-47 (LC 8), 5=-96 (LC 4)
	Max Grav	4=208 (LC 1), 5=327 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-288/132, 1-2=0/31, 2-3=-130/16, 3-4=-151/70

4-5=-26/41

BOT CHORD

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 96 lb uplift at joint 5 and 47 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.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 31 lb up at 2-4-14, and 68 lb down and 31 lb up at 2-4-14 on top chord, and 3 lb down and 2 lb up at 2-4-14, and 3 lb down and 2 lb up at 2-4-14 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

2

3x6 II

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)
 - Vert: 7=3 (F=2, B=2)



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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J19	Jack-Open	2	1	Job Reference (optional)	163626984

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:01 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8	1-7-11
0-10-8	1-7-11



1-7-11

Scale =	1:22.8
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														_
Loading TCLL (roof) TCDL BCLL		(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.07 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%	
LUMBER TOP CHORE BOT CHORE WEBS	2x4 SPF 1 2x4 SPF 1 2x3 SPF 1	No.2 No.2 No.2		LOAD CASE(S)	Standard									-
BRACING TOP CHORE	Structural	wood she	athing directly applie	ed or										
BOT CHORE	Rigid ceili bracing.	ng directly	applied or 10-0-0 oc	\$										
REACTIONS	Max Horiz Max Uplift Max Grav	3= Mecha 5=0-3-8 5=41 (LC 3=-27 (LC 3=34 (LC	nical, 4= Mechanica 8) : 8), 5=-23 (LC 8) 1), 4=28 (LC 3), 5=1	l, 59										
FORCES	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CHORE	2-5=-141/ 4-5=0/0	39, 1-2=0/3	31, 2-3=-34/11											
NOTES														
 Wind: AS Vasd=91 II; Exp C cantileve right exp chord liv This trus chord liv * This tru on the bo 3-06-00 chord an 	SCE 7-16; Vu mph; TCDL= ; Enclosed; M r left and righ osed; Lumbe s has been du e load noncor ss has been ottom chord ir all by 2-00-00 d any other n	It=115mph 6.0psf; BC IWFRS (en tt exposed r DOL=1.60 esigned for neurrent wi designed for n all areas 0 wide will nembers.	(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 botto	Cat. le; d 30 ds. psf								THE OF M	MISSOLA	
 All bearin Refer to Provide n bearing p and 27 This trus Internation R802.10 	ngs are assur girder(s) for t nechanical co plate capable Ib uplift at joi s is designed onal Resident 2 and referer	ned to be S truss to trus onnection (of withstar int 3. in accorda ial Code se need stand	SPF No.2 . ss connections. by others) of truss to ading 23 lb uplift at jo ance with the 2018 actions R502.11.1 ar ard ANSI/TPI 1.	o bint nd								PE-2022	BER (104) 042259 (5) L ENGINE	
												robradry	10,2021	

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J20	Jack-Open	4	1	Job Reference (optional)	163626985

3-8-12

3-8-12

12 6 ┌

3-8-12

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

2-7-9

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:01 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3



Scale = 1:25								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	0.18	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	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: 10 lb	FT = 10%	
			LOAD CASE(S	Standard			-		-				

LUMBER	LOAD CASE(S) Standard
TOP CHORD 2x4 SPF No.2	
BOT CHORD 2x4 SPF No.2	
WEBS 2x3 SPF No.2	
BRACING	
TOP CHORD Structural wood sheathing directly applied or	
3-8-12 oc purlins, except end verticals.	
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc	
bracing.	
REACTIONS (size) 3= Mechanical, 4= Mechanical,	
5=U-3-8	
Max Holl 2 = 83 (LC 8)	
Max Upilit $3=-05$ (LC 8), $5=-27$ (LC 8) Max Cray $2, 111$ (LC 1) $4-68$ (LC 2) $5-228$	
Max Grav $3=111$ (LC 1), $4=08$ (LC 3), $5=238$	
EOPCES (Ib) - Maximum Compression/Maximum	
TOP CHORD 2-5=-207/60. 1-2=0/31. 2-3=-71/38	
BOT CHORD 4-5=0/0	
NOTES	
1) Wind: ASCE 7-16: Vult=115mph (3-second aust)	
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.	
3) * This truss has been designed for a live load of 20.0pst	
on the bottom chord in all areas where a rectangle	
shord and any other members	
 All bearings are assumed to be SPE 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 27 lb uplift at joint	
5 and 65 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.	



TION 'IEW DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 03/05/2024 4:08:40

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent touls be 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 167 HM	
B240013	J21	Jack-Closed Girder	1	1	Job Reference (optional)	163626986

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:01 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:20.3

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

	(,,,); [=:==ago;o = o]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.14 0.13 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 3-4 3-4 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 23 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x10 SP 2400F 2.0E 2x4 SPF No.2 2x3 SPF No.2 2-0-0 oc purlins: 1-2 Rigid ceiling directly bracing. (size) 3= Mecha Max Horiz 4=-47 (LC Max Uplift 3=-73 (LC Max Grav 3=588 (LC (lb) - Maximum Com Tension 1-4=-594/98, 1-2=-1 3-4=-41/36 1-3=-25/25	, except end vertical: applied or 10-0-0 oc inical, 4=0-3-8 : 4) : 5), 4=-77 (LC 4) C 15), 4=629 (LC 16) ipression/Maximum 7/13, 2-3=-546/87	 9) Graphical p or the orien bottom cho 10) Hanger(s) o provided su design/sele responsibili 11) In the LOAI of the truss LOAD CASE(S 1) Dead + R Plate Incm Uniform L Vert: 1- Concentra Vert: 5= 	purlin representation tratiation of the purlin rd. or other connection fficient to support of ection of such connection ty of others. D CASE(S) section are noted as front D CASE(S) section are noted as front Standard oof Live (balanced) ease=1.15 oads (lb/ft) 2=-70, 3-4=-20 ated Loads (lb) =-867 (F)	n does no along the o device(s concentra ection de n, loads ar (F) or ba	bt depict the top and/or) shall be tted load(s) . vice(s) is the oplied to the ck (B). Increase=1.	The face 15,					
 NOTES Wind: ASG Vasd=91n II; Exp C; cantilever right expo Provide at This truss chord live * This truss on the bot 3-06-00 tz chord and All bearing Refer to g Provide m bearing pI This truss Internation 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed used; Lumber DOL=1.6 dequate drainage to pr has been designed fo load nonconcurrent wi ss has been designed fo ttom chord in all areas all by 2-00-00 wide will any other members. gs are assumed to be S jirder(s) for truss to tru- nechanical connection (late capable of withstar b uplift at joint 3. is designed in accorda nal Residential Code so	(3-second gust) DL=6.0psf; h=25ft; C welope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 event water ponding. r a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor SPF No.2. ss connections. (by others) of truss to ading 77 lb uplift at join ance with the 2018 ections R502.11.1 an	at. e; 0 s. ssf n int								PE-2022	MISSOLUT INTEL DER COM 042259

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

> **FRUCTION VIEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:41

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February 15,2024

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

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J22	Jack-Open	5	1	Job Reference (optional)	163626987

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:02 ID:Y9JryaPhxcatXFHKmtGVRIzIGLh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:24.6			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	тс	0.14	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	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: 10 lb	FT = 10%

3-4-0

	BER	0 4 ODE		LOAD CASE(S)	Standard
TOP	CHORD	2x4 SPF	No.2		
BOT	CHORD	2x4 SPF	No.2		
WEB	S	2x3 SPF	No.2		
BRAG	CING				
TOP	CHORD	Structura	I wood sheathing directly applied or		
		3-4-0 oc	ourlins, except end verticals.		
BOT	CHORD	Rigid ceil	ing directly applied or 10-0-0 oc		
		bracing.			
REAC	CTIONS	(size)	3= Mechanical, 4= Mechanical,		
			5=0-3-8		
		Max Horiz	5=75 (LC 8)		
		Max Uplift	3=-58 (LC 8), 5=-26 (LC 8)		
		Max Grav	3=97 (LC 1), 4=60 (LC 3), 5=222		
			(LC 1)		
FORC	CES	(lb) - Max	imum Compression/Maximum		
		Tension			
TOP	CHORD	2-5=-193/	/56, 1-2=0/31, 2-3=-63/33		
BOT	CHORD	4-5=0/0			
NOTE	ES				
1) W	Vind: AS	CE 7-16: Vu	lt=115mph (3-second aust)		
ν ν	asd=91	nph; TCDL=	6.0psf; BCDL=6.0psf; h=25ft; Cat.		
11	; Exp C;	Enclosed; N	IWFRS (envelope) exterior zone;		
C	antilever	left and righ	nt exposed ; end vertical left and		
ri	ght expo	sed; Lumbe	r DOL=1.60 plate grip DOL=1.60		
2) T	his truss	has been d	esigned for a 10.0 psf bottom		
c	hord live	load nonco	ncurrent with any other live loads.		
3) *	This trus	s has been	designed for a live load of 20.0psf		
0	n the bot	tom chord i	n all areas where a rectangle		
3	-06-00 ta	all by 2-00-0	0 wide will fit between the bottom		
c	hord and	l any other r	nembers.		
4) A	II bearing	gs are assur	med to be SPF No.2 .		
5) R	leter to g	irder(s) for	truss to truss connections.		
6) P	rovide m	echanical c	onnection (by others) of truss to		
h	ooring pl	ato conchio	of withstanding 26 lb unlitt at joint		

- bearing plate capable of withstanding 26 lb uplift at joint 5 and 58 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. 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 167 HM	
B240013	J23	Jack-Open	2	1	Job Reference (optional)	163626988

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:02 ID:ndrpGrJgp8Z0a0goIB6d6czIGLp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8 0-10-8

<u>1-2-15</u> 1-2-15

1-2-15

L oading 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	0.07 0.01 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 0.00 0.00	(loc) 5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 4 lb	GRIP 197/144 FT = 10%	
-											-	- 5		
LUMBER TOP CHOR BOT CHOR WEBS BRACING TOP CHOR BOT CHOR	D 2x4 SPF I 2x3 SPF I 2x3 SPF I D Structural 1-2-15 oc	No.2 No.2 No.2 I wood shea purlins, ex ing directly	athing directly applie xcept end verticals. applied or 10-0-0 oc	LOAD CASE(S)	Standard									
	bracing.													
REACTION	S (size) Max Horiz Max Uplift Max Grav	3= Mecha 5=0-3-8 5=34 (LC 3=-18 (LC 3=14 (LC (LC 1)	nical, 4= Mechanical 5) 58), 5=-24 (LC 8) 1), 4=20 (LC 3), 5=1	49										
FORCES	(lb) - Max	imum Com	pression/Maximum											
	Tension													
	D 2-5=-133/	/37, 1-2=0/3	31, 2-3=-29/3											
	D 4-5=0/0													
 Wind: A Vasd=9 II; Exp (cantilev right exl chord lin This tru chord lin * This tr on the b 3.06-00 chord a All bear Refer to bearing 5 and 1 This tru 	SCE 7-16; Vu 1mph; TCDL= C; Enclosed; M er left and righ posed; Lumbe ss has been d ve load noncol uss has been bottom chord in to tall by 2-00-0 nd any other n ings are assur b girder(s) for mechanical c plate capable 8 lb uplift at jo ss is designed	It=115mph 6.0psf; BC 1WFRS (en at exposed r DOL=1.60 esigned for ncurrent wi designed for n all areas 0 wide will 0 wide will truss to trus onnection (of withstar int 3.	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zone; 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 20.0p where a rectangle fit between the botton SPF No.2. ss connections. by others) of truss to iding 24 lb uplift at jo unce with the 2018	at. e; 1 0 ls. osf m								PE-2022	MISSOLIE NIEL BER 042259	
Internat R802.10	ional Resident 0.2 and refere	tial Code se nced stand	ections R502.11.1 an ard ANSI/TPI 1.	ıd								February	L English 15,2024	

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RELEASE ICREDIATRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENTS SERVICES LEETS SUMMIT'S MISSOURI 03/05/2024 4:08:41

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	J24	Jack-Open	2	1	Job Reference (optional)	163626989

4

1-2-15

12 6 Г

2

3

Wheeler Lumber, Waverly, KS - 66871,

TCDI

BCLL

BCDL

WEBS

1)

2)

3)

4) 5)

6)

7)

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 14 11:03:02 ID:cVgfz4AmPmBalKKg9NQ2AIzIGM_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-4-8

l/defl

>999

>999

n/a n/a

(loc)

4 >999

2

3-4

3-4

L/d

360

240

240

PLATES

Weight: 3 lb

MT20

GRIP

197/144

FT = 10%

Page: 1

1-4-8

0-6-0

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

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY1	Lay-In Gable	1	1	Job Reference (optional)	163626990

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:02 ID:J9I0Vh5N3claQFIKFPoPOpzIGM5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:34.4

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.06 0.02 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sh 6-0-0 oc purlins. Rigid ceiling direct bracing. (size) 1=7-9-8 8=7-9-8 Max Horiz 1=-108 Max Uplift 1=-27 (L (LC 9), 8 Max Grav 1=99 (LI (LC 16), 15)	eathing directly applied y applied or 10-0-0 oc 5=7-9-8, 6=7-9-8, 7=7 LC 4) C 4), 5=-10 (LC 5), 6= i=-154 (LC 8) C 17), 5=91 (LC 18), 6- 7=122 (LC 18), 8=229	6) This chore 7) * Thii on th 3-06- d or 8) All be 9) Provi- beari 7-9-8, uplift 10) This -154 Interr R802 =228 LOAD C	truss has been designe it live load nonconcurrent is truss has been designe e bottom chord in all am 00 tall by 2-00-00 wide and any other membe earings are assumed to de mechanical connect ing plate capable of with 1b uplift at joint 5, 154 I at joint 6. truss is designed in acc national Residential Cor .10.2 and referenced si ASE(S) Standard	d for a 10. It with any ed for a liv eas where will fit betw rs. be SPF Nc ion (by oth istanding 2 b uplift at jo ordance w le sections andard AN	D psf bottom other live load e load of 20.0 a rectangle veen the botto 5.2. ers) of truss t 7 Ib uplift at jo joint 8 and 15/2 ith the 2018 s R502.11.1 a JSI/TPI 1.	ds. psf om Doint Ib				weight: 29 ib	<u>F1 = 10%</u>
FORCES	(lb) - Maximum Co Tension	mpression/Maximum										
TOP CHORD	1-2=-121/92, 2-3=- 4-5=-106/69	101/79, 3-4=-92/64,										
BOT CHORD	1-8=-45/94, 7-8=-4 5-6=-45/94	5/94, 6-7=-45/94,										
WEBS	3-7=-82/0, 2-8=-18	9/178, 4-6=-189/178										
NOTES											(COLOR	TOP
 Unbalance this design 	ed roof live loads hav	e been considered for									FE OF M	AISS

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) 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.

 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)

DEVELORMENTSERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:41

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY2	Lay-In Gable	1	1	Job Reference (optional)	163626991

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:03 ID:4Qiccc_kArArqt6cD07IWwzIGME-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:48.2

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.02	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.12	Horiz(TL)	0.00	7	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 57 lb	FT = 10%	
LUMBER			4)	Gable require	es continuous botto	om chor	d bearing.							
TOP CHORD	2x4 SPF No.2		5)	Gable studs	spaced at 0-0-0 oc									
BOT CHORD	2x4 SPF No.2		6)	This truss ha	s has been designed for a 10.0 psf bottom									
WEBS	2x4 SPF 2100F 1.8E			chord live loa	ad nonconcurrent w	ith any	other live loa	ds.						
OTHERS	2x4 SPF No.2		7)	* This truss h	as been designed	for a liv	e load of 20.0)psf						
BRACING				on the bottor	n chord in all areas	where	a rectangle							
TOP CHORD	Structural wood she	athing directly applie	d or	3-06-00 tall t	by 2-00-00 wide will	l fit betv	veen the botto	om						
	6-0-0 oc purlins, ex	cept end verticals.	8)	All bearings	are assumed to be	SPF N	2							
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	; 0) 9)	Provide mec	hanical connection	(by oth	ers) of truss to	0						
WEBS	1 Row at midpt	6-7, 5-8		bearing plate capable of withstanding 164 lb uplift at joint										
REACTIONS	(size) 1=8-7-12.	7=8-7-12. 8=8-7-12		1, 135 lb upli	ft at joint 7, 138 lb i	uplift at	joint 11, 133	lb						
	9=8-7-12,	10=8-7-12, 11=8-7-	, 12	uplift at joint	10, 150 lb uplift at j	oint 9 a	nd 78 lb uplifi	t at						
	Max Horiz 1=364 (LC	C 5)	10	JOINT 8.	designed in second		ith the 2010							
	Max Uplift 1=-164 (L	C 6), 7=-135 (LC 7),	10	Inis truss is	Residential Code of	ance w	DE02 11 1 0	nd						
	8=-78 (LC	8), 9=-150 (LC 8),		R802 10 2 a	nd referenced stan	dard AN	ISI/TPI 1	nu						
	10=-133 (LC 8), 11=-138 (LC 8	⁸⁾	LOAD CASE(S) Standard										
	Max Grav 1=304 (LC	C 5), 7=97 (LC 4), 8=	-157 LC											
	(LC 15), 9	=219 (LC 15), 10=20	05											
	(LC 15), 1	1=211 (LC 15)												
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORD	1-2=-411/281, 2-3=-	338/228, 3-4=-277/1	80,											
	4-5=-242/168, 5-6=-	193/140, 6-7=-100/1	31											
BOT CHORD	1-11=-130/99, 10-11	=-130/99, 9-10=-130)/99,									COOL	ADA	
WERS	0-9=-130/99, 7-0=-1	30/99 										A OF I	MIS.	
WEB3	4-9-178/175 5-8	123/98									1	750	W.Oo	
NOTES	10-110,110,00-	120/00									a	NATHA	NIEL	
1) Wind: AS(CE 7-16: Vult=115mph	(3-second gust)									H	FO	x VY	
Vasd=91n	nph; TCDL=6.0psf: BC	DL=6.0psf; h=25ft: C	Cat.								m.	10.		
II; Exp C:	Enclosed; MWFRS (er	velope) exterior zon	e:								00		1 4 8	
, , , , , , , , , , , , , , , , , , ,	left and right averaged	, and youthool loft and	۰ ١								U	T-4-#		

- cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) Truss designed for wind loads in the plane of the truss
- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.

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

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ICALBER

February 15,2024

PE-2022042259

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Com

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM		
B240013	LAY3	Lay-In Gable	1	1	Job Reference (optional)	163626992	

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:03 ID:JuDawttj3O9_teV3IL_QCEzIGMM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:56.3

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 IRC20	18/TPI2014	CSI TC BC WB Matrix-P	0.20 0.27 0.10	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.19	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 52 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF I 2x4 SPF I 2x4 SPF I 2x4 SPF I Structural 6-0-0 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav	No.2 No.2 No.2 No.2 wood shea purlins, exc ng directly 1=8-8-2, 7 10=8-8-2, 1=301 (LC 1=-157 (LL (LC 8), 10 (LC 8), 12 1=293 (LC (LC 15), 9 15), 11=2 ⁻ 15)	athing directly applie cept end verticals. applied or 10-0-0 oc '=8-8-2, 8=8-8-2, 9= 11=8-8-2, 12=8-8-2 C 5) C 6), 7=-76 (LC 7), 8 =-120 (LC 8), 11=-1: =-136 (LC 8) C 5), 7=-78 (LC 4), 8= =23 (LC 3), 10=190 12 (LC 15), 12=210	ed or 8-8-2, \$ 3=-74 40 =135 (LC	 3) All plates are 2x4 MT20 unless otherwise indicated. 4) Gable requires continuous bottom chord bearing. 5) Gable studs spaced at 0-0-0 oc. 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 1, 76 lb uplift at joint 7, 74 lb uplift at joint 8, 136 lb uplift at joint 12, 140 lb uplift at joint 11 and 120 lb uplift at joint 10. 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7. 12) This truss is designed in accordance with the 2018 									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		R802.10.2 and referenced standard ANSI/TPI 1.									
TOP CHORD	1-2=-406/ 4-5=-214/	273, 2-3=-3 146, 5-6=-7	324/220, 3-4=-251/1 131/91, 6-7=-72/87	65, I	LOAD CASE(S)	Standard								The
BOT CHORD	1-12=-40/ 9-10=-40/ 7-8=-76/5	'30, 11-12= '30, 8-9=0/(8	-40/30, 10-11=-40/3 0, 5-8=-125/80,	60,	TE OF MISSOL								AISSOL	
WEBS	2-12=-169 4-10=-151	9/161, 3-11 1/143	=-172/164,		RATHANIEL PART									NIEL TR
NOTES 1) Wind: AS(Vasd=91n II; Exp C; cantilever right expo	CE 7-16; Vu nph; TCDL= Enclosed; N left and righ	It=115mph 6.0psf; BCl IWFRS (en it exposed	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and	Cat. ie; d									PE-20220	SER 042259

right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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

ΤΙΟΝ 'IEW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:41

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY4	Lay-In Gable	1	1	Job Reference (optional)	163626993

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:03

Wheeler Lumber, Waverly, KS - 66871,

Plate Offsets (X, Y): [5:0-1-6,Edge], [13:0-1-6,Edge]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(lo	c) l/def	I L/c	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	0.11	Horiz(TL)	0.01	1	7 n/a	ı n/a	ι.						
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S		-				-	Weight: 138	lb FT = 10%					
				٦	OP CHORD	ORD 1-2=-298/173, 2-3=-195/136, 3-4=-122/85, 9) * This truss has been designed for a live load													
		No.2				7-831/84 8-93	1/84 Q_	1031/84		2	3-06-00 ta	all by 2	-00-00 wide will	fit between the bot	tom				
	284 366	No.2				10-11=-31/84 11-1	2=-31/8	4 12-13=-31	/84	Ì	chord and	anv o	ther members	in between the bot					
DRACING	274 366	110.2				13-14=-81/84 14-1	5=-92/3	9 15-16=-16	7/93	10)	All bearin	ns are	assumed to be	SPF No 2					
	Christeline	السوم ما مام م	athing directly opplie			16-17=-269/130	0 02/0	0, 10 10 10	.,,	11)	Provide m	echan	ical connection	(by others) of truss	to				
TOP CHORD	Structura		athing directly applie	ed or E	BOT CHORD	1-31=-83/188, 30-3	1=-83/1	88.		,	pearing p	ate ca	bable of withsta	ndina 113 lb uplift a	at ioint				
	6-0-0 0C	purlins, exc				29-30=-83/188, 28-	29=-83/	188,			1.81 lb u	olift at i	oint 17, 110 lb u	uplift at ioint 31, 15	2 lb				
	Z-U-U UC Digid coil	ing directly	-0 max.). 5-13.			27-28=-83/188, 26-	27=-83/	188,			uplift at jo	int 30,	83 lb uplift at jo	int 29, 30 lb uplift a	t joint				
	bracing	ing unecuy		,		25-26=-83/188, 24-	25=-83/	188,		2	28, 43 lb	uplift at	joint 27, 34 lb ι	uplift at joint 26, 34	lb				
PEACTIONS	(cizo)	1-26 / 9	17_26 / 9 19_26 /	1.0		22-24=-83/188, 21-	22=-83/	188,			uplift at jo	int 25,	33 lb uplift at joi	int 24, 39 lb uplift a	t joint				
REACTIONS	(5120)	19-26-4-0,	20-26-4-8 21-26	-0, -4-8		20-21=-83/188, 19-	20=-83/	188,		2	22, 15 lb	uplift at	joint 21, 71 lb u	uplift at joint 20, 15	5 lb				
		22-26-4-8, $24-26-4-8$, $25-26-4-8$, $25-26-4-8$				18-19=-83/188, 17-	18=-83/	188		uplift at joint 19 and 109 lb uplift at joint 18.									
		26=26-4-8	3 27=26-4-8 28=26	-4-8	VEBS	2-31=-139/127, 3-3	0=-176/	177,		12) -	This truss	is des	igned in accord	ance with the 2018					
		29=26-4-8	3. 30=26-4-8. 31=26	-4-8		4-29=-152/107, 6-2	8=-127/	54, 7-27=-14	5/67,		nternatio	nal Res	sidential Code s	ections R502.11.1	and				
	Max Horiz	1=-180 (L	C 6)			8-26=-140/58, 9-25=-140/58, 10-24=-140/57,					(, R802.10.2 and referenced standard ANSI/TPI 1.								
	Max Uplift	1=-113 (L	C 6). 17=-81 (LC 7).		11-22=-145/63, 12-21=-127/39,						13) Graphical purlin representation does not depict the siz								
		18=-109 (LC 9), 19=-155 (LC	9),		14-20=-138/95, 15-	-20=-138/95, 15-19=-180/180,					or the orientation of the punin along the top and/or							
		20=-71 (L	C 9), 21=-15 (LC 5),																
		22=-39 (L	C 4), 24=-33 (LC 5),	r	NOTES			LOAD CASE(S) Standard											
		25=-34 (L	C 4), 26=-34 (LC 5),	1) Unbalanced	roof live loads have	e been o	considered fo	r										
		27=-43 (L	C 4), 28=-30 (LC 5),		this design.	7 40 1/11 445		l											
		29=-83 (L	C 8), 30=-152 (LC 8), 4	2) Wind: ASCE	- 7-16; Vuit=115mp		ond gust)	0										
		31=-110 (LC 8)			n; TCDL=6.0psi; Bi		psi; n=25ii; n					000	ma					
	Max Grav	1=219 (LC	C 8), 17=198 (LC 9),		II, EXP C, EI	ie,				A OF	MISCO								
		18=173 (L	_C 16), 19=221 (LC	16),	right expose	d Lumber DOI -1	a, enu v 60 plata	arin $DOI = 1$	10 60				ASE	1.0°					
		20=178 (L	.C 16), 21=167 (LC 2	22),		ined for wind loads	in the n	ane of the tru	100			4	121	New York	y				
		22=185 (L	C 21), 24=180 (LC 2	22),	only For st	uds exposed to win	d (norm	al to the face)			6	S/ NAL	HANIEL VV	<i>N</i>				
		25=180 (L	C 21), 20=180 (LC 2	∠1), 21)	see Standar	d Industry Gable E	nd Deta	ils as applical	ble.	The Fox									
		27=105 (L	C 15) 20 217 (LC 2	21), 15)	or consult a	ualified building des	ioner as	per ANSI/T	PI 1.										
		29=191 (L 31-174 (l	C(15), 30=217 (LC	13),	 Provide ade 	vater ponding	a.	Mar In Ana											
FORCES	(lb) Max		propoion/Movimum	5	5) All plates are 2x4 MT20 unless otherwise indicated.								Moler /						
FURGES	(III) - IVIAX	amum Com	pression/waximum	6	6) Gable requi	res continuous botto	om chor	d bearing.		W PL CONDER									
	161121011			7	Gable studs	spaced at 0-0-0 oc		-				y	PE-20	22042239	A				
				8	This truss h	as been designed fo	or a 10.0) psf bottom					1.00	155	1				

chord live load nonconcurrent with any other live loads.

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

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February 15,2024
Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY5	Lay-In Gable	1	1	Job Reference (optional)	163626994

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:04 ID:yrJ_cw?wFzyLdQQ1zVAlkqzIGNV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

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DEVELORMENT: SERVICES LEE'S'SUMMIT'SMISSOURI 03/05/2024 4:08:41



Scale = 1:57.4

Plate Offsets (X, Y): [5:0-2-10,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 IRC20	018/TPI2014	CSI TC BC WB Matrix-S	0.33 0.13 0.12	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.01	(loc) - - 18	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 194 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF I 2x4 SPF I 2x4 SPF I 2x4 SPF I Structural 6-0-0 oc p 2-0-0 oc p Rigid ceili bracing. 1 Row at (size)	No.2 No.2 No.2 No.2 I wood shea ourlins, exc ourlins (6-0 ing directly midpt 1=28-5-4, 20=28-5-4 23=28-5-4 23=28-5-4 1=338 (LC	athing directly applied cept end verticals, an -0 max.): 5-17. applied or 10-0-0 oc 17-18, 5-29, 6-28, 7-: 8-26, 9-24, 11-23, 12 13-21, 14-20, 15-19, 16-18 18=28-5-4, 19=28-5- 4, 21=28-5-4, 22=28-5 4, 21=28-5-4, 22=28-5 4, 31=28-5-4, 32=28-5 55	4 or d 27, 2-22, 5-4, 5-4, 5-4, 5-4, 5-4	FORCES TOP CHORD BOT CHORD WEBS	(ib) - Maximum Cor Tension 1-2=-372/253, 2-3= 4-5=-205/139, 5-6= 7-8=-117/89, 8-9=- 11-12=-117/89, 14- 15-16=-117/89, 14- 15-16=-117/89, 16- 17-18=-145/111 1-32=-126/95, 31-3 30-31=-126/95, 31-3 30-31=-126/95, 29- 28-29=-125/94, 22- 21-22=-125/94, 22- 21-22=-125/94, 22- 21-22=-125/94, 22- 21-22=-125/94, 22- 21-22=-125/94, 22- 21-22=-125/94, 23- 21-22=-125/94, 18- 2-32=-165/155, 3-3 4-30=-173/163, 5-2 6-28=-153/67, 7-27 9-24=-140/58, 11-2	-300/20 -118/89 117/89, 13117 15=-117 17=-119 22=-126/ 30=-126 23=-126 23=-126 23=-126 23=-126 21=-126 19=-125 1=-168 9=-134/ =-134/ 21=-144	n/Maximum 1, 3-4=-245/1 , 6-7=-117/89 9-11=-117/89 7/89, 7/89, 3/90, 95, 5/94, 5/94, 5/94, 5/94, 5/94, 162, 137, 8, 8-26=-140/ 58, 0/59, 00, 00, 00, 00, 00, 00, 00, 0	59, 9, ,,	8) * - or 3- ct 9) Al 10) Pr be 11, up joi joi bb joi bb 11) Tr In R 7 12) Gi or bc LOAD	This truss the botto 06-00 tall ord and a l bearings ovide me aring pla 39 lb upli lift at join nt 29, 43 uplift at join nt 23, 34 uplift at join th 23, 34 uplift at join struss is ternationa 302.10.2 i "aphical p the orien totom cho CASE(S	has be m cho by 2-0 my oth a are as chanice te capa ft at joint to a desig ll buplif inint 20 lb uplif inint 20 lb uplin	een designed for rrd in all areas wi 00-00 wide will fit rer members. ssumed to be SF al connection (by able of withstand int 18, 137 lb upl 40 lb uplift at join ft at joint 28, 34 ll 34 lb uplift at join ft at joint 22, 37 ll and 56 lb uplift at joned in accordan dential Code sec ferenced standar appresentation do of the purlin alon ndard	a live load of 20 ere a rectangle between the bot F No.2 . 'others) of truss ng 144 lb uplift a ft at joint 32, 136 t 30, 110 lb uplift o uplift at joint 27 nt 24, 34 lb uplift o uplift at joint 21 t joint 19. 2e with the 2018 tions R502.11.1 d ANSI/TPI 1. ss not depict the g the top and/or	.0psf .tom at joint 6 lb t at 7, 34 t at 1, 41 and size
	Max Uplift Max Grav	1=-144 (L1 19=-56 (L) 21=-37 (L1 23=-34 (L2 23=-34 (L2 28=-43 (L1 30=-140 (I) 32=-137 (I) 1=276 (LC 19=198 (L 23=180 (L 26=180 (L 26=180 (L 30=214 (L 32=211 (L	C 6), 18=-39 (LC 5), C 4), 20=-41 (LC 5), C 4), 22=-34 (LC 5), C 4), 24=-34 (LC 5), C 5), 27=-34 (LC 4), C 5), 29=-110 (LC 5), LC 8), 31=-136 (LC 8) LC 8) S 5), 18=101 (LC 1), C 1), 20=177 (LC 1), C 1), 22=180 (LC 1), C 1), 22=180 (LC 1), C 1), 22=177 (LC 1), C 1), 29=174 (LC 15), C 15), 31=206 (LC 1), C 15)), 2), 2), 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	NOTES 1) Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose 2) Truss desig only. For str see Standar or consult qu 3) Provide ade 4) All plates ard 5) Gable requir 6) Gable studs 7) This truss ha chord live lo	16-18=-79/122 7-16; Vult=115mpl h; TCDL=6.0psf; BC iclosed; MWFRS (e ft and right exposed d; Lumber DOL=1.6 ned for wind loads i Jds exposed to wind d Industry Gabble Er ualified building des quate drainage to p e 2x4 MT20 unless es continuous botto spaced at 0-0-0 oc as been designed for ad nonconcurrent w	n (3-sec CDL=6.0 nvelope ; end v 30 plate n the pl d (norm d Detai igner as revent v otherwi- om chor	bond gust) opsf; h=25ft; C) exterior zon rertical left and grip DOL=1.6 ane of the tru al to the face) ils as applicat s per ANSI/TP water ponding se indicated. d bearing.) psf bottom other live load	Cat. he; d 50 ss ss sle, ple, Pl 1. J.		-		STATE OF 2 STATE OF 2 NATHA FO PE-2022	MISSOLA NIEL 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY6	Lay-In Gable	1	1	Job Reference (optional)	163626995

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:04

Page: 1

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20-6-0

Scale = 1:53.3

Plate Offsets ((X, Y): [5:0-1-6	6,Edge],	[13:Edge,0-2-8], [14	4:Edge,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 IRC2	018/TPI2014		CSI TC BC WB Matrix-S	0.56 0.12 0.15	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 128 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SPF No. 2x4 SPF No. 2x3 SPF No. 2x4 SPF No. Structural w 6-0-0 oc pur	.2 .2 .2 ood shea lins, exc	athing directly applic tept end verticals, a	ed or nd	BOT CHORD	1 1 1 2 2 8 1	1-23=-114/85, 22-23 20-21=-114/85, 19-2 18-19=-114/85, 17-1 15-17=-114/85, 14-1 2-23=-167/153, 3-22 1-21=-174/113, 6-20 3-18=-140/60, 9-17= 1-15=-151/77, 12-1	8=-114, 20=-11, 18=-11, 15=-11, 2=-166, 0=-140, 14=-91,	/85, 21-22=-11 4/85, 4/85 4/85 (174, (110, 7-19=-14 (8, 10-16=-138 (116	14/85, 12/74, 3/62,	12) This Inte R80 13) Gra or th bott LOAD (s truss is rnationa 2.10.2 a phical p ne orient om chor CASE(S)	a desig and ref urlin re tation o rd.) Sta	ned in accordanc dential Code sect erenced standarc spresentation doe of the purlin along ndard	e with the 2018 ions R502.11.1 and I ANSI/TPI 1. s not depict the size the top and/or
BOT CHORD	Rigid ceiling	directly	applied or 10-0-0 or	C	NOTES 1) Unbaland	ed	roof live loads have	been	considered for						
REACTIONS	(size) 1= 16 16 17 18 18 18 17 18 17 19 22 Max Uplift 1= 15 17 15 24 25 Max Grav 1= 15 15 15 22 23 24 25 25 25 25 25 25 25 25 25 25	=20-6-0, 6=20-6-0 9=20-6-0 2=20-6-0 =301 (LC 5=-61 (LC 7=-37 (LC 9=-51 (LC 1=-89 (LC 3=-136 (L 3=-136 (L 5=198 (L 5=198 (L 5=198 (L 5=198 (L 5=198 (L 5=198 (L 3=213 (L 3=213 (L	14=20-6-0, 15=20-6 , 17=20-6-0, 18=20 , 20=20-6-0, 21=20 , 23=20-6-0 5-5) C 6), 14=-47 (LC 5), C 4), 16=-42 (LC 5), C 4), 18=-37 (LC 5), C 4), 20=-86 (LC 5), C 5), 22=-148 (LC 8), C 5), 14=108 (LC 1), C 22), 16=176 (LC C 22), 18=180 (LC C 22), 20=180 (LC C 15), 22=205 (LC C 15),	6-0, -6-0, -6-0, , , , , , , , , , , , , , , , , , ,	 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated. Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all errors where a refute and 								la l	STATE OF M	ALSSOUR A
TOP CHORD	(ib) - Maximu Tension 1-2=-329/22 4-5=-134/96 7-8=-102/78 10-11=-102/ 12-13=-105/	um Comp 8, 2-3=-2 5, 5-6=-10 8, 8-9=-10 78, 11-12 79, 13-14	pression/Maximum 255/176, 3-4=-217/1)2/78, 6-7=-102/78,)2/78, 9-10=-102/78 2=-102/78, 4=-124/94	146, 3,	 a-06-00 t cho6-00 t cho6-00 t cho7 ani 10) All bearing p 1, 47 lb u uplift at jc 20, 51 lb uplift at jc joint 15. 	all b d an ogs a late plift oint : upli	y 2-00-00 wide will by other members. are assumed to be shanical connection or capable of withstar at joint 14, 136 lb u 22, 89 lb uplift at joi ft at joint 19, 37 lb u 17, 42 lb uplift at joi	fit betv SPF No (by oth nding 1 uplift at nt 21, 8 uplift at nt 16 a	veen the botto o.2. ers) of truss to 25 lb uplift at joint 23, 148 l 36 lb uplift at ji joint 18, 37 lb nd 61 lb uplift	m joint b oint at		,		PE-20220 PE-20220 February	SER 042259 L EN OT 15,2024

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

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY7	Lay-In Gable	1	1	Job Reference (optional)	163626996

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:05 ID:ISTIpZ1k50th07lfHilYVzzIGOI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.5

Loading FCLL (roof) FCDL BCLL BCDI	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-P	0.41 0.04 0.17	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 53 lb	GRIP 197/144 ET = 10%	
LUMBER FOP CHORD SOT CHORD WEBS DTHERS BRACING FOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF 2100F 1 2x4 SPF No.2 Structural wood s 6-0-0 oc purlins, Rigid ceiling direc bracing. 1 Row at midpt (size) 1=8-11 8=8-11 Max Horiz 1=377 Max Uplift 1=-137 7=-145 9=-186 Max Grav 1=303 (LC 15) 15)	8E heathing directly applie except end verticals. Ily applied or 10-0-0 oc 5-6 4, 6=8-11-4, 7=8-11-4 4, 9=8-11-4 LC 5) (LC 6), 6=-139 (LC 7), (LC 8), 8=-121 (LC 8), (LC 8), 6=137 (LC 4), 7 , 8=181 (LC 15), 9=28	5) 6) 7) 9) 9) , 9) , 10) 	Gable studs: This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and ar All bearings a Provide meci bearing plate 1, 139 lb upii uplift at joint. This truss is International R802.10.2 ar AD CASE(S)	spaced at 2-0-0 or s been designed f ad nonconcurrent has been designed n chord in all area by 2-00-00 wide wi hy other members. are assumed to be hanical connection capable of withst ft at joint 6, 145 lb 8 and 186 lb uplift designed in accor Residential Code nd referenced star Standard	c. for a 10. with any d for a liv s where ill fit betv e SPF Ne h (by oth anding 1 o uplift at at joint s dance w sections hdard AN) psf bottom other live load e load of 20.0 a rectangle veen the botto 0.2. ers) of truss t 37 lb uplift at joint 7, 121 lb 0. th the 2018 R502.11.1 a ISI/TPI 1.	ds. Dpsf om joint nd						
	(lb) - Maximum Co Tension	mpression/Maximum	82											
BOT CHORD	4-5=-232/162, 5-6 1-9=-135/102, 8-9 6-7=-135/102	=-129/153 =-135/102, 7-8=-135/1	02, 02,									Contra la	all h	
NEBS NOTES I) Wind: ASC Vasd=91m II; Exp C; I	4-7=-183/172, 3-8 CE 7-16; Vult=115m nph; TCDL=6.0psf; F Enclosed; MWFRS	=-147/142, 2-9=-231/2 bh (3-second gust) BCDL=6.0psf; h=25ft; (envelope) exterior zon	19 Cat. e;									SATE OF INATHA	NIEL K	

- 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) 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.
 All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.



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February 15,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY8	Lay-In Gable	1	1	Job Reference (optional)	163626997

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:05 ID:2vr3D2I6DyKCqvj7m6gT3JzIGPh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:39.5

Loading TCLL (roof) TCDL SCLL SCDL		(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	TC BC WB Matrix-S	0.08 0.05 0.04	Vert(LL) Vert(TL) Horiz(TL)	n/a n/a 0.00	(IOC) - - 5	n/a n/a n/a n/a	L/d 999 999 n/a	Weight: 39 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD DTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF I 2x4 SPF I 2x4 SPF I Structural 6-0-0 oc p Rigid ceili bracing.	No.2 No.2 No.2 wood shea purlins. ng directly	athing directly applied	6) 7) d or 8) 9)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall h chord and an All bearings Provide mec bearing plate 1. 1 b uplift	as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w hy other members are assumed to be hanical connectio e capable of withs at joint 5, 194 lb u	for a 10.0 with any d for a liv as where rill fit betw e SPF No n (by oth tanding 2 plift at ioi) psf bottom other live load e load of 20.0 a rectangle reen the botto 0.2. ers) of truss to 3 lb uplift at jo t 8 and 194	ds. Opsf om o pint					
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=9-11-0, 7=9-11-0, 1=-140 (L' 1=-23 (LC (LC 9), 8= 1=141 (LC 6=299 (LC 8=300 (LC	5=9-11-0, 6=9-11-0, 8=9-11-0 C 4), 5=-1 (LC 5), 6=- -194 (LC 8) C 16), 5=125 (LC 15) C 16), 7=125 (LC 18) C 15)	10 194 , Lu	uplift at joint)) This truss is International R802.10.2 a DAD CASE(S)	6. designed in accor Residential Code nd referenced star Standard	rdance w sections ndard AN	th the 2018 R502.11.1 a SI/TPI 1.	nd					
FORCES	(lb) - Max	imum Com	pression/Maximum											
TOP CHORD BOT CHORD	1-2=-139/ 4-5=-121/ 1-8=-61/1 5-6=-61/1	116, 2-3=- 93 27, 7-8=-6 27	103/102, 3-4=-92/83, 1/127, 6-7=-61/127,											
NEBS	3-7=-96/9	, 2-8=-232/	215, 4-6=-232/215											

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) 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.

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





Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY9	Lay-In Gable	1	1	Job Reference (optional)	163626998

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:05 ID:CPsf7xC1f_s7PwFexVX7t7zIGR6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.2

Plate Offsets (X, Y): [5:0-1-6,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		тс	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.11	Horiz(TL)	0.00	9	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 67 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF 2x4 SPF 2x4 SPF Structural 6-0-0 oc p 2-0-0 oc p Rigid ceil bracing. (size)	No.2 No.2 No.2 I wood shea purlins, exc purlins (6-0 ing directly 1=14-1-5.	athing directly applie ept -0 max.): 5-9. applied or 10-0-0 oc 9=14-1-5. 10=14-1-1	2) ed or 3)	Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right expose Truss design only. For stu see Standard or consult qu Provide adec All plates are	7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (el t and right exposed t; Lumber DOL=1.6 hed for wind loads i ds exposed to wind d Industry Gable En alified building desi uate drainage to p 2x4 MT20 unless of	n (3-sec CDL=6.0 nvelope I ; end v 60 plate n the pl d (norm nd Deta igner as revent v otherwi	ond gust) opsf; h=25ft; exterior zo ertical left ar grip DOL=1. ane of the tru al to the face Is as applica b per ANSI/T vater pondin- se indicated.	Cat. ne; nd .60 uss e), bble, PI 1. g.				rroign: or io	
REACTIONS	Max Horiz Max Uplift Max Grav	1=14-1-3, 11=14-1-5 1=289 (LC 1=-86 (LC (LC 5), 11 15), 13=-2 15=-145 (I 1=253 (LC 10=270 (L 12=69 (LC 14=197 (L 14=197 (L	9=14-1-5, 10=14-1- 5, 12=14-1-5, 13=14- 5, 13=14-1-5, 13=14- 5, 15=14-1-5, 16=14- 2, 8) 6), 9=-59 (LC 8), 10=-22 21 (LC 4), 14=-117 (LC 7, 8), 9=-112 (LC 5) 2, 8), 9=-129 (LC 1), C 1), 11=152 (LC 22 2, 8), 13=157 (LC 1), C 15), 15=217 (LC 7)	$\begin{array}{ccc} 5, & 6) \\ .1-5, & 7) \\ .1-5 & 8) \\ (LC \\ .C & 8), \\ 8) & 9) \\ 2), & 1(\\ 15), \\ \end{array}$	Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings a 0) Provide mec bearing plate 1, 59 lb uplift at joint 16, 11	spaced at 0-0-0 oc. s been designed for ad nonconcurrent w las been designed in n chord in all areas by 2-00-00 wide will by other members. are assumed to be hanical connection capable of withsta at joint 9, 22 lb upl 45 lb uplift at joint 1	or a 10.0 ith any for a liv where fit betw SPF No (by oth nding 8 ift at joi 5, 117) psf bottom other live loz e load of 20. a rectangle veen the bott 0.2. 6 lb uplift at j nt 12, 112 lb b uplift at jou	ads. Opsf com to joint uplift nt 14,					
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		21 lb uplift at uplift at joint	joint 13, 36 lb uplif 10.	t at join	11 and 49 l	D				OF	Alla Alla
TOP CHORD	1-2=-342/ 4-5=-78/4 7-8=-30/5	/135, 2-3=-2 4, 5-6=-30/ 4, 8-9=-30/	238/98, 3-4=-111/43 /54, 6-7=-30/54, /54	, 12 , 12) N/A 2) This truss is International R802 10 2 3	designed in accord Residential Code s	ance w ections	th the 2018 R502.11.1 a	and			Å	STATE NATHA	NIEL R
BOT CHORD	1-16=-54/ 13-14=-54 10-11=-83	/30, 15-16= 4/30, 12-13 7/66, 9-10=	-54/30, 14-15=-54/3 =-54/30, 11-12=-87/ -94/58	0, 13 58,	B) Graphical pu or the orienta	rlin representation of the purlin al	does no ong the	ot depict the stop and/or	size			n	FOI	x A A A A A A A A A A A A A A A A A A A
WEBS	2-16=-139 4-14=-150 8-10=-204	9/129, 3-15 6/141, 6-13 4/80	=-176/170, =-126/40, 7-11=-125	5/55, L	DAD CASE(S)	Standard							PE-2022	SER 2259
NOTES 1) Unbalance this design	ed roof live l n.	oads have	been considered for									Ŷ	SSIONA	L ENGLISH

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	LAY10	Lay-In Gable	1	1	Job Reference (optional)	163626999

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:05 ID:Y00QKaEr/VPnTpd8GFh5NeFzIGSM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.8

Plate Offsets (X, Y): [4:0-1-6,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(ps 25. 10. 0. 10.	7) Spac D Plate D Luml D* Rep D Code	e Grip DOL ber DOL Stress Incr le	2-0-0 1.15 1.15 YES IRC2018/	/TPI2014	CSI TC BC WB Matrix-S	0.05 0.04 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 58 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood 6-0-0 oc purlins, 2-0-0 oc purlins, Rigid ceiling dire bracing. (size) 1=12- 10=11 12=11 14=12 Max Horiz 1=23 Max Uplift 1=-29 (LC 4 4), 13 15=-1 Max Grav 1=170 10=11 12=11 12=11 Max 4), 13	sheathing except (6-0-0 maxictly applie 10-13, 9=1 2-10-13, 11 2-10-13, 12 4 (LC 8) (LC 6), 9= 42 (LC 8), 9= 42 (LC 8), 9= 50 (LC 22), 7 (LC 22), 7 (LC 22), 8 (LC 15), 8 (LC 15),	directly applied (x.): 4-9. ed or 10-0-0 oc 12-10-13, 1=12-10-13, 3=12-10-13, 5=12-10-13 =-50 (LC 8), 10=- (LC 5), 12=-44 (L 5), 14=-122 (LC 4), 1, 13=165 (LC 1), 1, 13=165 (LC 1), 1, 15=214 (LC 15)	2) or 3) 4) 5) 6) 7) 8) -30 .C 8), 9) 10)	Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever left right exposed Truss design only. For stu see Standard or consult qui- Provide adeq All plates are Gable studs s This truss hai chord live loa * This truss has on the bottor 3-06-00 tall b chord and an All bearings a Provide mech bearing plate 1, 50 lb uplift at joint 15, 12	7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (er and right exposed i; Lumber DOL=1.6 led for wind loads ii ds exposed to winc Industry Gable En alified building desi uate drainage to pr 2x4 MT20 unless c spaced at 0-0-0 oc. s been designed fo d nonconcurrent w as been designed fo d nonconcurrent w as been designed fo d nonconcurrent w as been designed fo a chord in all areas y 2-00-00 wide will y other members. are assumed to be nanical connection capable of withstai at joint 9, 44 lb upli 2 lb uplift at joint 1 ioint 11 and 30 lb :	(3-secc CDL=6.0 nveloped (00 plate (00 plate)(0) plate) (00 plate)(0) plate) (00 plate)(0) pl	ond gust) opsf; h=25ft; () exterior zor ertical left an grip DOL=1. ane of the tru- al to the face Is as applical s per ANSI/TF se indicated.) psf bottom other live loa e load of 20.0 a rectangle veen the botto 0.2. ers) of truss t 9 lb uplift at joint t 10.	Cat. ne; d 60 iss), ble, PI 1. J. ds. Opsf om o int uplift 13,					
FORCES	(lb) - Maximum (Tension 1-2=-243/99, 2-3 4-5=-27/44, 5-6= 7-8=-29/45, 8-9	Compressi 3=-117/49, 27/44, 6- 29/45	ion/Maximum , 3-4=-76/32, -7=-29/45,	11) 12)	N/A This truss is o International R802.10.2 an	, designed in accord Residential Code s id referenced stanc	ance w ections lard AN	th the 2018 R502.11.1 a ISI/TPI 1.	nd			ŧ.	TATE OF M	AISSOUT
BOT CHORD	1-15=-44/27, 14 12-13=-45/27, 1 9-10=-73/45	-15=-44/27 1-12=-77/6	7, 13-14=-44/27, 62, 10-11=-77/57	13) 7,	Graphical pui or the orienta bottom chord	tion of the purlin al	does no ong the	top and/or	size		۲	h	FOX	TH
WEBS	2-15=-169/160, 5-13=-125/40, 6 8-10=-118/49	3-14=-159/ -12=-143/6	9/147, 61, 7-11=-145/59	LO/),	AD CASE(S)	Standard					/		PE-20220	BER 2259
NOTES 1) Unbalance this design	ed roof live loads h n.	ave been o	considered for									Q	FESSIONA	L ENGINE

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RELEASE OR STRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT: SERVICES LEE'S SUMMIT'S MISSOURI 03/05/2024 4:08:41

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V1	Valley	1	1	Job Reference (optional)	163627000

2-2-0

2-2-0

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



03/05/2024 4:08:41

4-4-0 3-9-1 0-6-15 1-7-1





4-4-0

Scale = 1:21.6

Plate Offsets (X, Y): [2:0-2-0,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 0.0	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15	BC 0.1) Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES	WB 0.0) Horiz(TL)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P						Weight: 9 lb	FT = 10%
LUMBER				9) Provide med	hanical connection (by c	thers) of truss	to					
TOP CHORD	2x4 SPF No.2	2		bearing plate	e capable of withstanding	18 lb uplift at	joint					
BOT CHORD	2x4 SPF No.2	2		1 and 18 lb t	plift at joint 3.		-					
BRACING				10) This truss is	designed in accordance	with the 2018						
TOP CHORD	Structural wo	od she	athing directly applie	d or International	Residential Code sectio	ns R502.11.1 a	and					
	4-5-0 oc purli	ns.		R802.10.2 a	nd referenced standard	ANSI/TPL1.						
BOT CHORD	Rigid ceiling o bracing.	directly	applied or 10-0-0 oc	; LOAD CASE(S)	Standard							
REACTIONS	(size) 1=	4-4-0, 3	3=4-4-0									
	Max Horiz 1=	14 (LC	8)									
	Max Uplift 1=	-18 (LC	8), 3=-18 (LC 9)									
	Max Grav 1=	142 (LC	, 1), 3=142 (LC 1)									
FORCES	(Ib) - Maximu Tension	m Com	pression/Maximum									
TOP CHORD	1-2=-143/42,	2-3=-1	43/42									
BOT CHORD	1-3=-26/110											
NOTES												
1) Unbalance	ed roof live load	s have	been considered for									
2) Wind: AS	n. CE 7 16: Vult_1	15mph	(2 second quist)									
2) Willu. ASV Vasd=91n	CE 7-10, $Vuii=1$	nsf: BC	(3-second gust) DI =6 Onsf: h=25ft: (.at								
II: Exp C:	Enclosed: MWF	RS (er	velope) exterior zon	e:								
cantilever	left and right ex	posed	; end vertical left and	d t								(The
right expo	sed; Lumber DO) plate grip DOL=1.€	60							O OF	MIL
Truss des	signed for wind l	loads ir	the plane of the tru	SS						6	ALE OF	MISSON
only. For	studs exposed t	to wind	(normal to the face)	,						B	TAN .	W.S
see Stand	lard Industry Ga	able En	J Details as applicab	ole,						R	S NATH	ANIEL VE V
 A) Gable reg 	qualified buildir	ig desig	iner as per ANSI/TP	11.							FC	X
 Gable req Gable stur 	ds snaced at 2-0	0-0 oc	n choru beanng.							UA.		1 CARE
 This truss 	has been desig	ined for	a 10.0 psf bottom								FIT	1 the
chord live	load nonconcur	, rrent wi	th any other live load	ds.						MA	NUMM	BER V AZZO
7) * This trus	s has been des	igned f	or a live load of 20.0	psf						117	PE 2022	042250 88
on the bot	ttom chord in all	areas	where a rectangle							N	-2022	N42233 5 8
3-06-00 ta	all by 2-00-00 wi	de will	it between the botto	m						Y	A CPC	ICN B
chord and	any other mem	ibers.									UN ONA	LEN
o) Ali beanni	ys are assumed	to be a	FF NU.2 .								an	
											Februar	v 15 2024
											robradi	y 10,2021
WAR	NING - Verify design	n parame	ters and READ NOTES O	N THIS AND INCLUDED MITER	REFERENCE PAGE MII-7473	rev. 1/2/2023 BEF(ORE USE.				N / :	Tale
a truss s	valid for use only with ystem. Before use, t	he buildir	connectors. This design i a designer must verify the	s based only upon parameters e applicability of design parame	shown, and is for an individual ters and properly incorporate the	is design into the c	it, not overall				RELEASE	OR CONSTRUCTION
building	design. Bracing indi	cated is t	o prevent buckling of indiv	vidual truss web and/or chord m	embers only. Additional tempo	rary and permaner	nt bracing				AS NOTED	ON PLANS REVIEW
is always fabricatio	s required for stability on, storage, deliverv.	y and to p , erection	and bracing of trusses ar	d truss systems, see ANSI/TP	y damage. For general guidan I1 Quality Criteria, and DSB-2	ce regarding the 2 available from Ti	russ Plate Ir	nstitute (w	ww.tpinst.	org)	DEVELO	RMENT SERVICES
and BCS	SI Building Compor	nent Safe	ty Information availabl	e from the Structural Building C	omponent Association (www.sl	cscomponents.com	m)	,		5.	I PPP 484.48	MMATUSMISSOURI
L												

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V2	Valley	1	1	Job Reference (optional)	163627001

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



9-10-12

Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0		CSI	0.00	DEFL	in r/s	(loc)	l/defl	L/d		GRIP
TCLL (1001)	25.0	Plate Grip DOL	1.15			0.30	Vert(LL)	n/a	-	n/a	999	WI120	197/144
RCU	10.0	Ron Stross Incr	1.15 VES			0.19		0.00	-	n/a	999		
BCDL	10.0	Code	IRC2018/T	PI2014	Matrix-S	0.09		0.00	4	n/a	11/a	Weight: 29 lb	FT = 10%
LUMBER			8) H	Provide mec	nanical connectio	n (by oth	ers) of truss t	i0 oint					
POT CHORE	2X4 SPF NO.2		L	1 and 157 lb	unlift at joint 5	lanuing z	o ib upilit at j	UIII					
WERS	2x4 SPF N0.2		9)	This truss is	designed in accor	dance w	ith the 2018						
OTHERS	2x3 SPF No 2		s, I	nternational	Residential Code	sections	R502.11.1 a	ind					
BRACING	2/0 011 110.2		F	R802.10.2 aı	nd referenced star	ndard AN	ISI/TPI 1.						
TOP CHORE	Structural wood she 6-0-0 oc purlins. ex	athing directly applie cept end verticals.	ed or LOA	D CASE(S)	Standard								
BOT CHORE	 Rigid ceiling directly bracing. 	applied or 10-0-0 o	C										
REACTIONS	EACTIONS (size) 1=9-10-12, 4=9-10-12, 5=9-10-12 Max Horiz 1=192 (LC 5) Max Uplift 4=-28 (LC 5), 5=-157 (LC 8) Max Grav 1=192 (LC 1), 4=112 (LC 1), 5=524 (LC 1)												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORE	1-2=-151/95. 2-3=-1	28/50. 3-4=-90/40											
BOT CHORE	1-5=-65/50, 4-5=-65	/50											
WEBS	2-5=-396/209												
NOTES													
 Wind: AS Vasd=91 II; Exp C cantileve right exp Truss de only. Fo see Stan 	SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (er r left and right exposed osed; Lumber DOL=1.6 ssigned for wind loads in r studs exposed to wind dard Industry Gable En te suplified building dosi	(3-second gust) DL=6.0psf; h=25ft; (velope) exterior zor ; end vertical left an 0 plate grip DOL=1. the plane of the tru (normal to the face) d Details as applical graps on any ANS/IT	Cat. he; d 60 iss), ole, 01 4									STATE OF I	MISSOLP
3) Gable re	Gable requires continuous bottom chord bearing.												

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

- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- 6) 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) All bearings are assumed to be SPF No.2 .

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PE-20220422 SSIONAL E February 15,2024



Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V3	Valley	1	1	Job Reference (optional)	163627002

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:06 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.8

Loading	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.21	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
CDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(IL)	n/a	-	n/a	999		
BCLL BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.06	Horiz(TL)	0.00	4	n/a	n/a	Weight: 22 lb	FT = 10%
LUMBER TOP CHORD SOT CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing.	athing directly appli cept end verticals. applied or 10-0-0 o	8) Provide m bearing pli 4 and 122 9) This truss Internation R802.10.2 ed or LOAD CASE(s	echanical connec ate capable of wit Ib uplift at joint 5. is designed in acc al Residential Co and referenced s 5) Standard	tion (by oth hstanding 2 cordance w de sections standard AN	ers) of truss 26 lb uplift at ith the 2018 3 R502.11.1 ISI/TPI 1.	to joint and					
REACTIONS	(size) 1=7-10-12	2, 4=7-10-12, 5=7-1	0-12									

- Max Horiz 1=150 (LC 5) Max Uplift 4=-26 (LC 5), 5=-122 (LC 8) Max Grav 1=112 (LC 16), 4=137 (LC 1), 5=407 (LC 1) FORCES (lb) - Maximum Compression/Maximum
- Tension TOP CHORD 1-2=-123/69, 2-3=-112/44, 3-4=-107/44 BOT CHORD 1-5=-51/39, 4-5=-51/39 WEBS 2-5=-316/176

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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) All bearings are assumed to be SPF No.2.

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V4	Valley	1	1	Job Reference (optional)	163627003

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:07 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-10-12

Scale = 1.24.0													
oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
CLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
CDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%	

LUMBER TOP CHORD 2x4 SPF No.2

alo - 1·24 9 90

BOT CHORD	2x4 SPF I	No.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	5-11-4 oc	purlins, except end verticals.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	1=5-10-12, 3=5-10-12
	Max Horiz	1=109 (LC 5)
	Max Uplift	1=-30 (LC 8), 3=-57 (LC 8)
	Max Grav	1=234 (LC 1), 3=234 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum

2-11-10

Tension TOP CHORD 1-2=-99/65, 2-3=-182/89 BOT CHORD 1-3=-37/28

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 4-0-0 oc. 4)
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) 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 . 7)

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 57 lb uplift at joint 3.

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



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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V5	Valley	1	1	Job Reference (optional)	163627004

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:07 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

JIOYIGMUrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4z

2x4 🛚





3-10-12

Scale	=	1:20.9	

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	тс	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 10%
LUMBER			9) This truss i	s designed in acc	cordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2		Internation	al Residential Co	de sections	R502.11.1 a	and					
BOT CHORD	2x4 SPF No.2		R802.10.2	and referenced s	standard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S	 Standard 								
BRACING												
TOP CHORD	Structural wood she 3-11-4 oc purlins.	eathing directly appliexcept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 o	C									
REACTIONS	(size) 1=3-10-1	2, 3=3-10-12										
	Max Horiz 1=67 (LC	5)										
	Max Uplift 1=-18 (L0	C 8), 3=-35 (LC 8)										
	Max Grav 1=144 (L	C 1), 3=144 (LC 1)										
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	1-2=-61/40, 2-3=-11	2/55										
BOT CHORD	1-3=-23/17	2,00										
NOTES												
1) Wind: AS	CE 7-16: Vult=115mpl	n (3-second aust)										
Vasd=91r	nph: TCDL=6.0psf: BC	CDL=6.0psf: h=25ft:	Cat.									
II; Exp C;	Enclosed; MWFRS (e	nvelope) exterior zo	ne;									
cantilever	left and right exposed	; end vertical left an	nd									
right expo	sed; Lumber DOL=1.6	60 plate grip DOL=1.	60									
Truss de	signed for wind loads i	n the plane of the tru	uss									m
only. For	studs exposed to wind	d (normal to the face	:), 								6 OF	MIG
see Stand	and industry Gable Er	id Details as applica	DIE,							6	AREUT	MIS'S
3) Cable rec	uires continuous botto	igner as per ANOI/ II	FT 1.							A		NSY
 Gable req Gable stu 	ds snaced at 2-0-0 oc	in chora bearing.								A	NATH	ANIEL CAN
 5) This truss 	has been designed for	or a 10.0 psf bottom								4	FC	X
chord live	load nonconcurrent w	ith any other live loa	ids.							04		15 50
6) * This trus	ss has been designed	for a live load of 20.0	Opsf							W/	F // .	
on the bo	ttom chord in all areas	where a rectangle								XL	R/(Aan	12X Mars
3-06-00 ta	all by 2-00-00 wide will	fit between the bott	om							N	K VIIII	BER DE
chord and	any other members.									N.	OX PE-2022	2042259
All bearing	gs are assumed to be	SPF No.2 .								Q V	The second	158
8) Provide m	nechanical connection	(by others) of truss t	to							2	NºS'STON	ENUS
bearing pl	late capable of withsta	nding 18 lb uplift at j	oint								WNA	IL D'
	io apint at joint o.										Februar	v 15 2024
											rebiual	y 10,2024

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Job	Truss	Truss Type	Qty Ply Lot 167 HM		Lot 167 HM	
B240013	V6	Valley	1	1	Job Reference (optional)	163627005

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:07 ID:LfX8C3e_7LhzWbCx91kyQvzIGVj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.2

_oading FCLL (roof) FCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.25 0.13 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 30T CHORD WEBS DTHERS BRACING FOP CHORD 30T CHORD REACTIONS	2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 1=8-7-0,4 Max Horiz 1=164 (LC Max Uplift 4=-27 (LC Max Grav 1=139 (LC 5=443 (LC	athing directly appli cept end verticals. applied or 10-0-0 o 4=8-7-0, 5=8-7-0 C 5) 5 5), 5=-133 (LC 8) C 16), 4=131 (LC 1), C 1)	8) 9) ed or LC c	Provide mec bearing plate 4 and 133 lb This truss is International R802.10.2 ar DAD CASE(S)	hanical connection capable of withst uplift at joint 5. designed in accor Residential Code nd referenced star Standard	n (by oth tanding 2 rdance wi sections ndard AN	ers) of truss t 7 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1.	to joint and					
FORCES FOP CHORD BOT CHORD WEBS NOTES	(lb) - Maximum Com Tension 1-2=-132/79, 2-3=-1 1-5=-56/43, 4-5=-56/ 2-5=-345/192	npression/Maximum 18/43, 3-4=-102/44 /43											
 Wind: ASC 	Wind: ASCE 7-16; Vult=115mph (3-second gust)												

8-7-0

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face),
- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf
- * 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) All bearings are assumed to be SPF No.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 **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 167 HM	
B240013	V7	Valley	1	1	Job Reference (optional)	163627006

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:07 ID:a626XKXz0uh6YMbPhMb45DzIGVr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

.



6-7-0

Scale	- 1	.27	2
CACHER	_		

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/TPI2	CSI TC BC WB 014 Matrix-P	0.19 0.10 0.05	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood sh	eathing directly appli	8) Prov bear 4 an 9) This Inter R802 ed or LOAD C	de mechanical conne ng plate capable of wi d 109 lb uplift at joint 5 truss is designed in ac national Residential C 2.10.2 and referenced ASE(S) Standard	ection (by othe ithstanding 2 5. ccordance wi ode sections standard AN	ers) of truss t 8 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1.	io oint and						
BOT CHORD	Rigid ceiling direct bracing.	y applied or 10-0-0 o	с										
REACTIONS	bracing. INCTIONS (size) 1=6-7-0, 4=6-7-0, 5=6-7-0 Max Horiz 1=123 (LC 5) Max Uplift 4=-28 (LC 8), 5=-109 (LC 8) Max Grav 1=49 (LC 16), 4=143 (LC 1), 5=362 (LC 1)												
FORCES	(lb) - Maximum Co Tension	mpression/Maximum											
TOP CHORD BOT CHORD WEBS	1-2=-106/55, 2-3=- 1-5=-42/32, 4-5=-4 2-5=-281/157	103/43, 3-4=-111/47 2/32											
NOTES 1) Wind: AS Vasd=91r II; Exp C; cantilever right expo 2) Truss der only. For	CE 7-16; Vult=115mp nph; TCDL=6.0psf; B Enclosed; MWFRS (left and right expose sed; Lumber DOL=1. signed for wind loads studs exposed to wir	h (3-second gust) CDL=6.0psf; h=25ft; invelope) exterior zoi d; end vertical left ar 60 plate grip DCL=1. in the plane of the tru d (normal to the face	Cat. ne; id 60 Jss),							B	TATE OF N	MISSOLUP	

- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.6) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SPF No.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 **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)





Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V8	Valley	1	1	Job Reference (optional)	163627007

2-3-12

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:08 ID:tBRKRvQhMpQXMqqU6FQkh6zIGW?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-3-12

2x4 🛚

Page: 1

4-7-0 2x4 🛛 2 ø 12 6 _ 0 3 0-0-4

4-7-0

2x4 🍃

Scale = 1:22.2												
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC C BC C WB C	0.28 0.15 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	GRIP 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she	athing directly applie	9) This truss is Internationa R802.10.2 a LOAD CASE(S)	designed in accordan Residential Code sec nd referenced standa Standard	nce wi ctions ird AN	ith the 2018 R502.11.1 a ISI/TPI 1.	nd					
BOT CHORD	4-7-8 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 oc	0									
REACTIONS	(size) 1=4-7-0, 3 Max Horiz 1=81 (LC Max Uplift 1=-22 (LC Max Grav 1=175 (LC	3=4-7-0 7) 2 8), 3=-43 (LC 8) C 1), 3=175 (LC 1)										
FORCES	(lb) - Maximum Com Tension 1-2=-74/49, 2-3=-13	pression/Maximum 6/66										
NOTES	10-20/21											
 Wind: AS Vasd=91I II; Exp C; cantilever right expc Truss de only. For see Stand crossel 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed bsed; Lumber DOL=1.6 signed for wind loads ir studs exposed to wind dard Industry Gable En	(3-second gust) DL=6.0psf; h=25ft; C tvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the tru I (normal to the face) d Details as applicat	Cat. le; d 60 sss), ole, 21								FE OF I	MISSO
 Gable rec Gable stu This truss 	qualified building designuites continuous botto lds spaced at 4-0-0 oc. s has been designed for	gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom	11.								S NATHA FO	NIEL E
 chord live 6) * This true on the bo 3-06-00 ta chord and 	chord live load nonconcurrent with any other live loads.) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord any other members PE-2022042259											
 All bearin Provide n bearing p and 43 	All bearings are assumed to be SPF No.2. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 43 lb uplift at joint 3.											

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



LEE'S' SUMMIT'S MISSOURI 03/05/2024 4:08:42

Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V9	Valley	1	1	Job Reference (optional)	163627008

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 14 11:03:08 ID:eSOxYqJ2U3HpnRel4sIdqDzIGW8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



8-6-4

Scale = 1:31.1

Loading FCLL (roof) FCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.25 0.13 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shee 6-0-0 oc purlins, exe Rigid ceiling directly	athing directly applic cept end verticals. applied or 10-0-0 or	8) 9) ed or LC	Provide mecl bearing plate 4 and 132 lb This truss is of International R802.10.2 ar DAD CASE(S)	nanical connectior capable of withst uplift at joint 5. designed in accor Residential Code d referenced star Standard	n (by oth anding 2 dance w sections ndard AN	ers) of truss t 7 lb uplift at j ith the 2018 5 R502.11.1 a ISI/TPI 1.	o oint nd					
REACTIONS	(size) 1=8-6-4, 4 Max Horiz 1=163 (LC Max Uplift 4=-27 (LC Max Grav 1=137 (LC 5=440 (LC	4=8-6-4, 5=8-6-4 C 7) S 5), 5=-132 (LC 8) C 16), 4=131 (LC 1), C 1)											
FORCES	(lb) - Maximum Com Tension 1-2=-131/78, 2-3=-1 1-5=-56/42, 4-5=-56/ 2-5=-342/191	pression/Maximum 17/43, 3-4=-102/44 /42											
NOTES	CE 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 6)
- 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) All bearings are assumed to be SPF No.2 .

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





Job	Truss	Truss Type Qty Ply Lot 167 HM		Lot 167 HM		
B240013	V10	Valley	1	1	Job Reference (optional)	163627009

3-3-6

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:08 ID:xXo9RPBmr_1DavtqUmaHQ6zIGWI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6-6-4

Scal	e =	1:27

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 10%
UMBER OP CHORD OT CHORD VEBS OTHERS BRACING OP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc	 8) Provide m bearing pla 4 and 108 9) This truss Internation R802.10.2 ed or LOAD CASE(echanical connect te capable of wit lb uplift at joint 5 is designed in ac al Residential Cc and referenced a 5) Standard	ction (by oth thstanding 2 .cordance w ode sections standard AN	ers) of truss i 8 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1.	to joint and					
REACTIONS	(size) 1=6-6-4, 4 Max Horiz 1=122 (LC Max Uplift 4=-28 (LC Max Grav 1=47 (LC 9 (LC 1) (lb) - Maximum Comm	=6-6-4, 5=6-6-4 5 5) 8), 5=-108 (LC 8) 5), 4=143 (LC 1), 5=	-361									

Top CHORD 1-2=-106/55, 2-3=-103/42, 3-4=-111/47 BOT CHORD 1-5=-41/31, 4-5=-41/31 WEBS 2-5=-281/157

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf
- 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) All bearings are assumed to be SPF No.2.

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Job	Truss	Truss Type	Qty	Ply	Lot 167 HM	
B240013	V11	Valley	1	1	Job Reference (optional)	163627010

4-6-4

4-6-4

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 14 11:03:08 ID:PSq55x_kc30VfRfIYPIXmkzIGWY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale	1 = 1	:22.1	

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
FCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%	
UMBER			9) This truss is	designed in accorda	nce w	ith the 2018							
TOP CHORD	2x4 SPF No.2		International	Residential Code se	ctions	R502.11.1 an	d						
BOT CHORD	2x4 SPF No.2		R802.10.2 ai	nd referenced standa	ard AN	ISI/TPI 1.							
VEBS	2x3 SPF No.2		LOAD CASE(S)	Standard									
BRACING	o		1										
OP CHORD	4-6-12 oc purlins ex	athing directly applies	d or										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc											
	bracing.												
REACTIONS	(size) 1=4-6-4, 3	3=4-6-4											
	Max Horiz 1=80 (LC	5)											
	Max Uplift 1=-22 (LC	3), 3=-42 (LC 8)											
	Max Grav 1=172 (LC	C 1), 3=172 (LC 1)											
ORCES	(lb) - Maximum Com	pression/Maximum											
	Tension	1/05											
OP CHORD	1-2=-73/48, 2-3=-134	4/65											
	1-3=-27/21												
NOTES		(0											
) Wind: ASC	E 7-16; Vult=115mph	(3-second gust)	- 4										
	ipn; TCDL=6.0psi; BCI	DL=6.0psi; n=25ii; C	al.										
cantilever l	eft and right exposed	· end vertical left and	5, I										
right expos	ed: Lumber DOL=1.60	0 plate grip DOL=1.6	0										
 Truss desi 	igned for wind loads in	the plane of the trus	ŝŝ										
only. For s	studs exposed to wind	(normal to the face),									CODY	alle	
see Standa	ard Industry Gable End	d Details as applicab	le,								A OF M	MIS.C.	
or consult of	qualified building desig	gner as per ANSI/TP	l 1.							E	750	N.O.	
 Gable requ 	ires continuous bottor	m chord bearing.								8	NATHA	NIEI X	
 Gable stud 	ls spaced at 4-0-0 oc.									R	> NATHA		
b) This truss I	has been designed for	r a 10.0 pst bottom								th.			
Chord live I	bad nonconcurrent with the back hoor designed for	th any other live load	IS.							8	+ the	1 HAR	
on the bottom chord in all rease where a rectangle													
3-06-00 tal	by 2-00-00 wide will	fit between the botto	m							NE	K V WKINA	BER V	
chord and	any other members.									N	PE-20220	042259	
7) All bearing	s are assumed to be S	SPF No.2 .								N	12	18A	
 Provide me 	echanical connection ((by others) of truss to	1								1380	TNO'B	
bearing pla	ate capable of withstan	nding 22 lb uplift at jo	int								W NA	LEY	
1 and 42 lb	o uplift at joint 3.										lan	DEC.	

February 15,2024

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





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

4:08:42

03/05/2024