

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

RE: Lot 30 OS Lot 30 OS

liTek

Site Information:

Customer: Project Name: Lot 30 OS Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

No.

21

22

23

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	145421545	A1	3/31/2021
2	145421546	A2	3/31/2021
3	145421547	A3	3/31/2021
4	145421548	A4	3/31/2021
5	145421549	A5	3/31/2021
6	145421550	A6	3/31/2021
7	145421551	A7	3/31/2021
8	145421552	B1	3/31/2021
9	145421553	B2	3/31/2021
10	145421554	B3	3/31/2021
11	145421555	B4	3/31/2021
12	145421556	B5	3/31/2021
13	145421557	B6	3/31/2021
14	145421558	B7	3/31/2021
15	145421559	C1	3/31/2021
16	145421560	J1	3/31/2021
17	145421561	J2	3/31/2021
18	145421562	J3	3/31/2021
19	145421563	J4	3/31/2021
20	145421564	J5	3/31/2021

gs and 0 Additio	nal Drawings.
Seal#	Truss Na

LAY1

LAY2

P1

145421565

145421566

145421567

Name	Date
	3/31/2021
	3/31/2021
	3/31/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

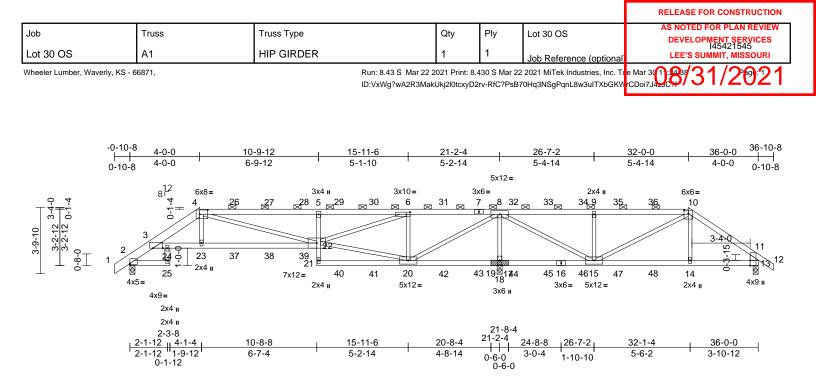
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021. Missouri COA: 001193

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





Scale = 1:66

Plate Offsets (X, Y): [2:Edge,0-0-1	1], [3:0-6-10,Edge], [4:	0-5-8,0-3-	-0], [6:0-2-8,0	-1-8], [10:0-3-0,0-2	2-3], [13:0)-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	8/TPI2014	CSI TC BC WB Matrix-S	0.55 0.89 0.89	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.18 -0.37 0.14 0.17	22-2 1	3 >999 3 >690 8 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 138 lb	GRIP 197/144 FT = 10%
UMBER FOP CHORD BOT CHORD WEBS BRACING FOP CHORD	4-7:2x4 SPF 2100F 2x4 SPF No.2 *Exc 2x3 SPF No.2 *Exc 13-11:2x6 SPF No.3 Structural wood she 4-10-5 oc purlins, e 2-0-0 oc purlins (4-4	ept* 5-21:2x3 SPF No. ept* 25-24:2x4 SPF No 2 eathing directly applied except end verticals, a	2 5.2, I or nd	 DT CHORD 2-25=0/0, 3-24=-479/2013, 23-24=-479/2013, 23-37=-483/2042, 37-38=-483/2042, 38-39=-483/2042, 22-39=-483/2042, 21-22=0/125, 5-22=-52/217, 21-40=-10/77, 40-41=-10/77, 20-41=-10/77, 21-40=-10/77, 20-42=-1888/397, 12-43=-1888/397, 13-43=-1888/397, 15-48=-1888/397, 15-48=-1888/397, 15-48=-1888/397, 15-48=-1888/397, 15-48=-1888/397, 15-48=-1888/397, 15-48=-1888/397, 15-48=-59/518, 13-14=-59/518,									
REACTIONS	(size) 2=0-3-8, bearing b Max Horiz 2=98 (LC Max Uplift 2=-232 (I 18=-566	_C 8), 13=-147 (LC 9), (LC 5) LC 1), 13=653 (LC 22)), NC	DTES	20-22=-47/318, 6 6-20=-1171/366, 8 8-18=-2788/648, 9 9-15=-535/230, 1 10-14=0/333	-22=-484 8-20=-51 8-15=-38 0-15=-62	/2037, 9/2596, 8/2101, 4/114,						
FORCES	Tension	npression/Maximum /174, 3-4=-2284/494,	1)	 2x4 SPF No.2 bearing block 12" long at jt. 18 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 									
	4-26=-2361/512, 26 27-28=-2360/512, 5 5-29=-2284/499, 29 6-30=-2284/499, 6- 7-31=-388/127, 7-8 32-33=-65/117, 33- 9-35=-65/116, 35-30	5-27=-2360/512, 5-28=-2360/512, 9-30=-2284/499,	'117, '118,	this design. Wind: ASCI Vasd=91mp II; Exp C; E cantilever le right expose Provide ade This truss h chord live le	d roof live loads ha E 7-16; Vult=115m bh; TCDL=6.0psf; I nclosed; MWFRS eft and right expose ed; Lumber DOL= equate drainage to las been designed bad nonconcurrent has been designed	ph (3-sec BCDL=6. (envelope ed ; end v 1.60 plate prevent for a 10. with any	cond gust) 0psf; h=25ft; e) exterior zo vertical left ar grip DOL=1 water pondin 0 psf bottom other live loa	Cat. ne; nd .60 g. ads.		(8	STATE OF I SCOT SEV.	BER

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.

#SSIONAL March 31,2021

EZ



Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

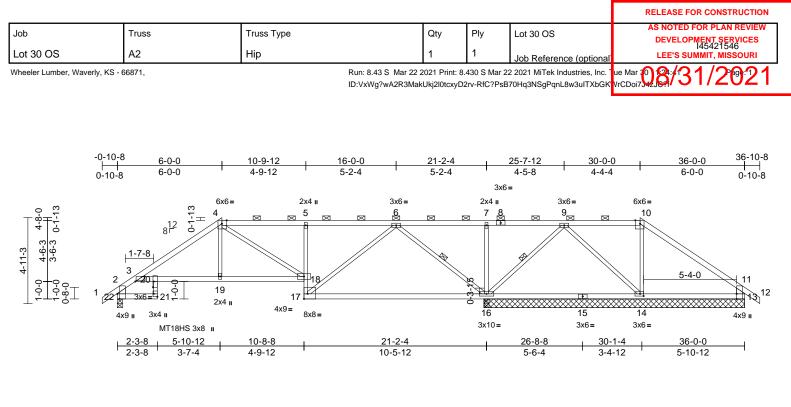
						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 30 OS	AS NOTED FOR PLAN REVIEW
Lot 30 OS	A1	HIP GIRDER	1	1	Job Reference (optional	DEVELOPMENT SERVICES 145421545 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly	ν, KS - 66871,				22 2021 MiTek Industries, Inc. Tu 370Hq3NSgPqnL8w3uITXbGKW	

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 36 lb up at 4-0-0, 92 lb down and 34 lb up at 6-0-0, 92 lb down and 34 lb up at 8-0-0, 92 lb down and 34 lb up at 10-0-0, 98 lb down and 46 lb up at 12-0-0, 98 lb down and 46 lb up at 14-0-0, 98 lb down and 46 lb up at 16-0-0, 98 lb down and 46 lb up at 18-0-0, 98 lb down and 46 lb up at 20-0-0, 98 lb down and 46 lb up at 22-0-0, 98 lb down and 46 lb up at 24-0-0, 98 lb down and 46 lb up at 26-0-0, 98 lb down and 46 lb up at 28-0-0, and 98 lb down and 46 lb up at 30-0-0, and 90 Ib down and 48 lb up at 32-0-0 on top chord, and 244 lb down and 93 lb up at 4-0-0, 45 lb down and 18 lb up at 6-0-0, 45 lb down and 18 lb up at 8-0-0, 45 lb down and 18 lb up at 10-0-0, 32 lb down at 12-0-0, 32 lb down at 14-0-0, 32 lb down at 16-0-0, 32 lb down at 18-0-0, 32 Ib down at 20-0-0, 32 Ib down at 22-0-0, 32 Ib down at 24-0-0, 32 lb down at 26-0-0, 32 lb down at 28-0-0, and 32 lb down at 30-0-0, and 226 lb down and 63 lb up at 31-11-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-4=-70, 4-10=-70, 10-11=-70, 11-12=-70,
 - 2-25=-20, 22-24=-20, 13-21=-20
 - Concentrated Loads (lb)
 - Vert: 4=-31 (B), 7=-46 (B), 23=-236 (B), 20=-25 (B), 6=-46 (B), 10=-46 (B), 14=-221 (B), 26=-31 (B), 27=-31 (B), 28=-31 (B), 29=-46 (B), 30=-46 (B), 31=-46 (B), 32=-46 (B), 33=-46 (B), 34=-46 (B), 35=-46 (B), 36=-46 (B), 37=-40 (B), 38=-40 (B), 39=-40 (B), 40=-25 (B), 41=-25 (B), 42=-25 (B), 43=-25 (B), 44=-25 (B), 45=-25 (B), 46=-25 (B), 47=-25 (B), 48=-25 (B)

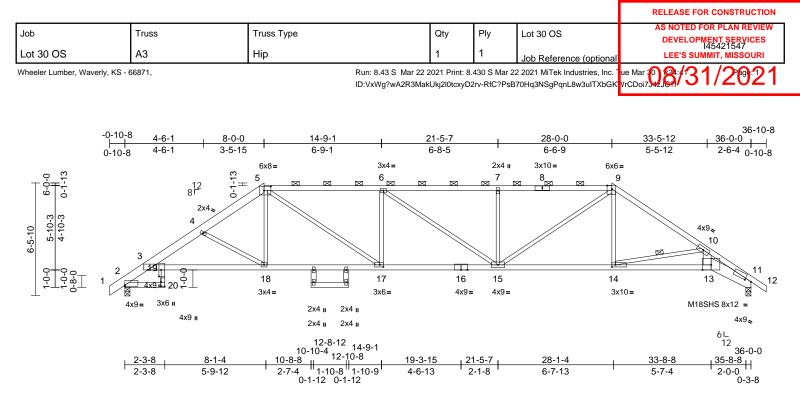




Scale =	1:66.1
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Plate Offsets ()	X, Y): [3:0-6-9,Edge],	[4:0-3-5,Edge], [10:0-	3-4,Edge	e], [13:0-3-8,Ec	lge], [14:0-2-8,0-	-1-8], [17:[Edge,0-3-8], [20:0-4-0	,0-0-8],	[21:Edg	ə,0-2-8], [22:0-3-8,Edge]
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.68 0.78 0.70	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.58 0.20	(loc) 16-17 16-17 16 19-20	l/defl >886 >437 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 128 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 5-3-0 oc purlins, ex 2-0-0 oc purlins (6-0	,	PF 2) PF 2) or 3)	this design. Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right exposed Provide aded All plates are This truss ha	roof live loads h 7-16; Vult=115r 1; TCDL=6.0psf; closed; MWFRS t and right exposed; t Lumber DOL= quate drainage t e MT20 plates ur is been designed ad nonconcurrer	mph (3-sec BCDL=6. 3 (envelope sed ; end v =1.60 plate o prevent hless other d for a 10.	cond gust) Dpsf; h=25ft; e) exterior zo rertical left ar grip DOL=1. water pondin wise indicate D psf bottom	Cat. ne; nd 60 g. ed.					
	(size) 13=14-11 16=14-11 Max Horiz 22=137 (L Max Uplift 13=-239 (16=-466 (Max Grav 13=474 (L	6-16, 9-16 -8, 14=14-11-8, -8, 22=0-3-8	, , 8)	* This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 22, 466 lb up 239 lb uplift a This truss is	has been design in chord in all are by 2-00-00 wide by other member hanical connecti e capable of with blift at joint 16, 29 at joint 13. designed in acco	ed for a liv eas where will fit betw rs. ion (by oth standing & 91 lb uplift ordance w	e load of 20. a rectangle veen the bott ers) of truss 18 lb uplift at at joint 14 ar ith the 2018	Opsf om to joint nd					
FORCES	(lb) - Maximum Com Tension		0)	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									
TOP CHORD	1-2=0/43, 2-3=-507/ 4-5=-390/118, 5-6=- 7-8=-423/1663, 8-9=	342/111, 6-7=-423/166 423/1663, 1=-385/299, 11-12=0/	L		ation of the purlir 1.			5120			Å	STATE OF M	MISSOLUT
BOT CHORD	,	21=-13/81, 3-20=-27/4 9=-86/654, 8=-359/161, -16=-684/190,	59,								R	SEVI	ER • • • • • • • • • • • • • • • • • • •
WEBS	,	857/71, 6-17=-154/987 6=-348/141,	,								A.	PE-2001	018807
NOTES													31,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale =	1:66.2
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3cale = 1.00.2													
Plate Offsets (2	X, Y): [2:Edge,0-0-11], [3:0-5-14,Edge], [5:0)-4-12,0-	·3-0], [9:0-3-5,E	Edge], [11:0-4-7,0	-0-10], [1	4:0-2-8,0-1-8], [17:0-:	2-8,0-1-8	8], [19:0-	4-8,0-′	1-8], [20:Edge,0-2	2-8]
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.81 0.61 0.46	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.28 -0.52 0.38 0.19	(loc) 15-17 15-17 11 15-17	l/defl >999 >823 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 155 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF 2100F 1.8f 2400F 2.0E, 9-12:2y 2x4 SPF No.2 *Exce 3-16,16-13:2x4 SPF SP DSS 2x3 SPF No.2 *Exce No.2, 13-10:2x6 SPI Structural wood she 2-2-0 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (3-1 Rigid ceiling directly bracing. Except: 10-0-0 oc bracing: 1 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=155 (L0 Max Grav 2=1678 (I (lb) - Maximum Corr Tension	E *Except* 1-5:2x6 SP k4 SPF No.2 ept* 20-19:2x3 SPF Nc 2100F 1.8E, 13-11:2x ept* 21-22,23-24:2x4 S F No.2 eathing directly applied cept 10-4 max.): 5-9. r applied or 10-0-0 oc 17-18 10-14 11=0-3-8 C 7) C 5), 11=-133 (LC 4) LC 1), 11=1678 (LC 1) npression/Maximum 4/119, 3-4=-3147/374, =-3104/435, =-3095/402, D=-2687/295, 1-12=0/24 D=-8/109,	1) 2) .2, 8 PF 3) 4) 0r 5) 6) 7) 8) 9) 10	Unbalanced this design. Wind: ASCE Vasd=91mpf II; Exp C; En cantilever lef right exposed Provide aded All plates are This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Bearing at jo using ANSI/T designer sho Provide mec bearing plate joint 2 and 13 This truss is International R802.10.2 ar	roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; Iclosed; MWFRS it and right expos d; Lumber DOL= quate drainage to a MT20 plates uni- is been designed an onconcurrent nas been designed n chord in all are: by 2-00-00 wide v ry other members int(s) 11 conside IPI 1 angle to gra- puld verify capacit hanical connectic e capable of withs 33 lb uplift at joind designed in accoo Residential Code nd referenced sta rlin representatio ation of the purlin d.	sph (3-see BCDL=6. (envelope ed; end ' 1.60 plate prevent less othe for a 10. with any d for a liv as where will fit betw s. rs paralle in formul cy of bear on (by oth tstanding ' t 11. rdance w e sections indard Ah n does An	considered fo considered fo cond gust) 0psf; h=25ft; e) exterior zor vertical left an e grip DOL=1. e grip DOL=1. o psf bottom other live loa ve load of 20.0. a rectangle veen the bottu I to grain valu a. Building ing surface. lers) of truss t 133 lb uplift at s R502.11.1 a vSI/TP1 1. ot depict the s	r Cat. ne; d 60 g, d. ds. Dpsf om e vo	15-17	>999	240		MISSOUR
WEBS	10-13=-81/1906, 5-1 9-15=-288/1209, 6-1	4-15=-164/2180, 1-13=-326/4452 =0/426, 10-14=-1463/2 17=-279/1159,									and the second	PE-2001	12 A
NOTES												UNA	L'ISS

March 31,2021



														RELEA	SE FOR CONSTRUCT	'ION
Job		Truss		Truss T	уре		Qty	/	Ply	Lot	30 OS				TED FOR PLAN REVI	
Lot 30 OS		A4		Hip			1		1	Jot	Refere	nce (op	tional		ELOPMENT SERVICE 145421548 'S SUMMIT, MISSOUR	
Wheeler Lumber,	Waverly, KS - 6	6871,				Run: 8.43 S Ma	r 22 2021	Print: 8.4	430 S Mar	22 202	1 MiTek	ndustries	, Inc. T	ue Mar 🗿 👰	31/201	21
						ID:VxWg?wA2R	3MakUkj2l	0tcxyD2	rv-RfC?Ps	B70Hq	3NSgPqr	nL8w3ulT	XbGK	VrCDoi7342JS?1	017202	
	-0-10-8		5-10-7	10-0-0		18-1-4			26-					33-5-12	36-1	
	0-10-8	Ę	5-10-7	4-1-9	6x8=	8-1-4	2x4	u	7-10)-12		6x8 =		7-5-12	2-6-4 0-10)-8
0-1-13 0-1-13				0-1-13 ⊤	5	× ×	6	" ⊠	×			7				
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7-9-10 7-2. 6-2.															^{6x8}	
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	4x	(9= 3x	4 u 4x9 u			2x4 u		3x6 =							M18SHS 8x12 = 5x12 _{>}	
					2x4 II 2 2x4 II	2x4 II									6∟ 12	
					12-8-12 10-10-4	2										`
	⊢	2-3-8 2-3-8	10-1-		10-8-8 12	10-8 18-1-4		3-15		26-1-4				33-8-8	36-0-0	
		2-3-8	7-9-1	2	0-1-12	1-12 5-2-12	1-3	2-11		6-9-5				7-7-4	2-0-0	
Scale = 1:66.4		0.0.441	[2:0 C 2 Edge] [5:	0 4 4 2 0 2	1-10-8		4 01 [45	0.0.00	1 01 14	0.0.4.0	20001					
			, [3:0-6-2,Edge], [5:		-0], [7:0-4-12,0		1-8], [15							_		
Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.82	DEFL Vert(L		in 0.34	(loc) 15-16	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144	
TCDL BCLL		10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES		BC WB	0.70 0.98	Vert(C Horz(,	0.63 0.43	15-16 9	>679 n/a	240 n/a	M18SHS	197/144	
BCDL		10.0	Code		8/TPI2014	Matrix-S		Wind(15-16	>999	240	Weight: 158 I	b FT = 10%	
LUMBER TOP CHORD	0x4 CDE 040		*Eugenti 4 5:000 0	2)		7-16; Vult=115m; ; TCDL=6.0psf; E				+						
	2400F 2.0E		*Except* 1-5:2x6 S		II; Exp C; En	closed; MWFRS (and right expose	envelope	e) exter	ior zone;							
	2100F 1.8E,	11-9:2x8			right exposed	l; Lumber DOL=1	.60 plate	grip D	OL=1.60							
	2x3 SPF No.2 18-20,19-21:2		ot* 11-8:2x6 SPF N ⁻ No.2	4)	All plates are	uate drainage to MT20 plates unle	ess other	wise in	dicated.							
BRACING TOP CHORD	Structural wo	od shaa	thing directly applie			s been designed										
	2-2-0 oc purli	ins, exce		6)		as been designed n chord in all area				sf						
BOT CHORD	Rigid ceiling		applied or 10-0-0 of	;	3-06-00 tall b	y 2-00-00 wide w y other members	ill fit betw	een th	e bottom							
	bracing. 1 Row at mid	lpt 8	8-12	7)	Bearing at joi	nt(s) 9 considers PI 1 angle to grai	parallel t	o grain	value							
REACTIONS (size) 2= Max Horiz 2=	0-3-8, 9 190 (I C		0	designer sho	uld verify capacity	/ of beari	ng surf	ace.							
N	/lax Uplift 2=	-147 (LC	C 8), 9=-147 (LC 9)	8)	bearing plate	nanical connection capable of withst	anding 1									
			C 2), 9=1754 (LC 2 pression/Maximum) 9)	,	I7 Ib uplift at joint designed in accor		th the 2	2018							
	Tension 1-2=0/22, 2-3	8=-1328/	/144, 3-4=-3044/25	5,		Residential Code d referenced star										
	4-5=-2664/24 6-7=-2669/26			10) Graphical pu	rlin representation tion of the purlin	n does no	t depic	t the size	e						
	8-9=-5783/43 2-17=-88/278	84, 9-10=	=0/24		bottom chord		along the	top an	10/01					OF	MISC	
	3-16=-249/24	21, 15-	16=-336/2676,	LC	DAD CASE(S)	Standard							6	ATE	MISSOL	
	13-14=-89/21	19, 13-2											A	sy sco	TT M.	λ
	12-23=-89/21 9-11=-350/49		12=-326/3983,										84		·	8
	5-15=-41/827 6-14=-659/27		-233/752, =-246/800, 7-12=0/	590,									83	leather	Soundar	ğ
	8-12=-1959/4 4-15=-755/23	35, 8-1											X?		1018807	1
NOTES													Ŷ	Also.	ST.	
 Unbalanced this design. 		is have l	been considered fo											SSION	AL EL	
-														100	ch 31,2021	
														inar		



														RELEASE	FOR CONSTRUCTION
Job		Truss		Truss T	уре		Qty		Ply	Lot	30 OS				D FOR PLAN REVIEW OPMENT SERVICES 145421549
Lot 30 OS		A5		Hip			1		1	Job	Refere	nce (op	tional	LEE'S	I45421549 SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS -	- 66871,				Run: 8.43 S Ma ID:VxWg?wA2R	r 22 2021 F 3Maki iki2i	Print: 8.4	430 S Mar	22 2021 B70Ha3	MiTek	ndustries	s, Inc. T		31/2021
		~					omanonjzn			Dronge	nogi qi		Abolt		36-10-8
	<u> -</u> -	9-11 9-11	<u>7-7-14</u> 5-10-3		-0-0 -4-2	<u>18-0-0</u> 6-0-0			<u>24-0-0</u> 6-0-0			<u>28-9-5</u> 4-9-5		<u>33-7-4</u> 4-9-15	<u>36-0-0</u> 2-4-12 ₀₋₁₀₋₈
					10x1	2=	2x4 II			6	x6=				
8_8_0 1-1-0 1-1-0					4 -0 -1 -0			1 C	× ×		6				
												\sim			
			12 81	3x6 II 3	_					//			\'	¹ x9 _≈	
5 12 2				ł									X		
8-11-3 8-6-12 8-6-12												//			2x4 II
		/					\mathbb{N}								8
	1 .	2			D	٩		<u> </u>							
	-8-0 ₽			15	21	22	14	13	23		12				11 10
<u> </u>	×	16 9 ,	5x12 II	6x6=	0.4		3x10=	4x9=			3x6=				8x12= ⊠ \
		2x4	II			(4 u (4 u		419=							5x12 _≈ 6∟
		2-3-8			12-8-12 10-10-4										12 36-0-0
	<u> -</u>	<u>9-11</u> 9-11	7-7-14 5-4-6	10-8-	8 12-7	10-0-0	19-7		<u>24-1-4</u> 4-6-3					-8-8 7-4	<u>35-8-8</u> 2-0-0
Scale = 1:65.3	-	0-5-13		5-0-1	0 ₀₋₁₋₁₂ 0-1 1-10-8	-12 5-1-6	1-7	- 1	4-0-3				9-	7-4	0-3-8
Plate Offsets ((X, Y): [1:0-8	-14,0-0-2], [2:0-2-15,0-1-14]	, [4:0-9-8,0-	3-0], [6:0-3-0,0)-2-3], [12:0-2-8,0-	-1-8], [15:	0-2-8,0)-3-0]	-		-		1	
Loading		(psf)	Spacing	2-0-0		CSI	0.05	DEFL		in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		TC BC	0.65 0.67	Vert(L Vert(C	,).43 [·]).77 [·]	11-12	>987 >555	360 240	MT20	197/144
BCLL BCDL		0.0* 10.0	Rep Stress Incr Code	YES IRC201	8/TPI2014	WB Matrix-S	0.76	Horz(Wind().40).15 <i>*</i>	9 11-12	n/a >999	n/a 240	Weight: 176 lb	FT = 10%
LUMBER				2)		7-16; Vult=115m				-	-				
TOP CHORD	2x8 SP DS 6-10:2x4 SI		t* 4-6:2x4 SPF No. ⁻ 1.8E	2,		h; TCDL=6.0psf; E iclosed; MWFRS (•					
BOT CHORD			pt* 2-13:2x4 SPF 2 SS, 13-11:2x4 SPF			ft and right expose d; Lumber DOL=1	,								
WEBS	2100F 1.8E	1	pt* 16-2,17-19,18-2	3)		quate drainage to as been designed			0						
	SPF No.2	0.2 2,00	pt 10 2,17 10,10 2	5)	chord live lo	ad nonconcurrent has been designed	with any	other li	ve loads.	f					
BRACING TOP CHORD			athing directly appl	ied or	on the botto	m chord in all area by 2-00-00 wide w	as where a	a recta	ngle						
	2-7-15 oc p 2-0-0 oc pu	,	cept -3 max.): 4-6.	6)	chord and a	ny other members	, with BC	DL = 1	0.0psf.						
BOT CHORD	Rigid ceilin bracing, E		applied or 10-0-0 o	oc 6)	using ANSI/	TPI 1 angle to grai	in formula	. Build	ding						
	6-0-0 oc br 10-0-0 oc b	-		7)	Provide med	ould verify capacity hanical connectio	n (by othe	ers) of	truss to						
REACTIONS	(size) 1	1=0-3-8, 9	9=0-3-8			e capable of withs 66 lb uplift at joint		34 lb u	plift at						
		1=-134 (L	C 8), 9=-166 (LC 9			designed in accor Residential Code									
FORCES			.C 2), 9=1764 (LC 2 pression/Maximum			nd referenced star									
TOP CHORD	Tension			0)		ation of the purlin									~
	3-4=-3280/- 5-6=-2194/	441, 4-5=	-2193/184,	LC	DAD CASE(S)									OF N	AISSO
	7-8=-4898/	412, 8-9=	-5496/285, 9-10=0)/24									B	12	N S
BOT CHORD	15-21=-179	9/1875, 21	1-22=-179/1875,										Ø	SCOT	
	13-23=-30/	1917, 12-	3-14=-30/1917, 23=-30/1917,										8*		\★₿
WEBS			1=-177/4598)1/1567, 4-14=-148	/597,									84	Cotto	inter
	5-14=-489/2 6-12=-64/7												N.	O PE-2001	018807
NOTES			1=0/723, 3-15=-96	6/363									Y	Str. Ser	ENGL A
,		ads have	been considered for	or										SIONA	LE
this desigr	n.													March	31,2021
WARN Design w	VING - Verify desig	gn paramete	rs and READ NOTES Of connectors. This design	N THIS AND IN	CLUDED MITEK R	EFERENCE PAGE MII	-7473 rev. 5/	19/2020	BEFORE US	SE.					



													RELI	EASE FOR CONSTRUCTION	1
Job		Truss		Truss	Туре		Qty	Ply		Lot 30 OS					٦
Lot 30 OS		A6		Hip			1	1		lah Datan				EVELOPMENT SERVICES 145421550 EE'S SUMMIT, MISSOURI	
Wheeler Lumber,	Waverly, KS - 66					Run: 8.43 S Mar 22	2021 Print	: 8.430 S N	/lar 22 :	Job Refere 2021 MiTek Ir				a/21/วด:01	
						ID:VxWg?wA2R3Ma	akUkj2l0tcx	yD2rv-RfC	PsB70?)Hq3NSgPqnl	L8w3ulTXb	GKW	rCDoi7J4zJC		1
		0-10-8	5-10-5	-	12-9-4	14-0-0	22-0-0			27-1-10			3-5-12	36-10-8 36-0-0	
	(0-10-8	5-10-5	I	6-10-15	1212	8-0-0		1	5-1-11	I	6	6-4-2	2-6-4 0-10-8	
						M18SHS 5x12 = 2x4 II		f	6x6=						
	0-1-13				0-1-13	5 	a 🖂	⊠ .	6						
	6 6 				-1-0	4		[<u> </u>					
											3x6👟				
				12 81			<				7				
ကု	ကိုကို			3x6 #			\\ \			//					
10-3-3	9-10-3 9-10-3			3		<u>ы</u>		、 、					\searrow		
														6x8 。 、 8	
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	°⊤ 1	2	<u> </u>				20		14	13	10			9 11 10	
\perp		18		17		====18 ≟⊥	20		14 3x10=	13 4x9=	12 3x10=			11 10 8x8=	
		8x	8 🍫	6x8=		3x6 II								5x12	
						6x12=								6∟ 12	
			5-10-5	1	12-10-8	22	2-1-4			27-1-10	1	3	33-8-8	36-0-0	
Scale = 1:73.1			5-10-5	I	7-0-3	9-2	2-12		1	5-0-7	I	6	6-6-14		
Plate Offsets (>	K, Y): [5:0-8-1	2,0-2-0]	, [6:0-3-4,Edge], [1	2:0-2-8,0-	1-8], [16:Edge,(0-2-8], [18:0-3-12,0-2-	-12]								_
Loading		(psf)	Spacing	2-0-0		CSI		EFL		in (loc)		L/d	PLATES	GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15				ert(LL) ert(CT)		10 14-15 10 14-15		360 240	M18SHS MT20	197/144 197/144	
BCLL		0.0*	Rep Stress Incr	YES		WB	0.97 Ho	orz(CT)	0.2	25 9	n/a	n/a			
BCDL		10.0	Code		18/TPI2014	Matrix-S		ind(LL)	0.1	3 11-12	>999	240	Weight: 16	57 lb FT = 10%	—
LUMBER TOP CHORD	2x4 SPF No.2	2 *Exce	pt* 5-6:2x4 SPF 21	00F	this design.	roof live loads have b			or						
BOT CHORD	1.8E 2x4 SPF 210	0F 1.8E	*Except* 18-16:2x			: 7-16; Vult=115mph (h; TCDL=6.0psf; BCD			Cat.						
			SPF No.2, 11-9:2x			nclosed; MWFRS (env ft and right exposed ;									
WEBS	2x3 SPF No.2		pt* 14-5:2x4 SPF N	No.2,	right expose	d; Lumber DOL=1.60) plate gri	p DOL=1	.60						
BRACING	11-8,18-2:2x6	5 SPF N	lo.2	2		quate drainage to pre e MT20 plates unless									
TOP CHORD			athing directly appli	ieu ui		as been designed for ad nonconcurrent witl			ads.						
		,	ept end verticals, a 12 max.): 5-6.		6) * This truss	has been designed fo	or a live lo	ad of 20.							
BOT CHORD	Rigid ceiling bracing, Exc		applied or 10-0-0 c	DC	3-06-00 tall	m chord in all areas w by 2-00-00 wide will fi	it betweer	n the bott							
1 Dow at midat	6-0-0 oc brac		17.	-		ny other members, wi bint(s) 9 considers par									
1 Row at midpt WEBS	1 Row at mid	lpt	5-14, 8-12			TPI 1 angle to grain for ould verify capacity of									
REACTIONS	(size) 9= Max Horiz 18		8=0-3-8 C 6)	8	 Provide med 	chanical connection (b	by others)	of truss							
l	Max Uplift 9=	-183 (L	C 9), 18=-184 (LC	,		e capable of withstand 183 lb uplift at joint 9.		ib uplift a	t						
FORCES			C 2), 18=1753 (LC pression/Maximum		/	designed in accordar Residential Code se			and						
TOP CHORD	Tension 1-2=0/43 2-3	3=-2439	/229, 3-4=-2275/24	14		nd referenced standa			ozizo				65	Jones	
	4-5=-2089/37	7, 5-6=	-1716/237,	,	or the orient	ation of the purlin alor			5120				FIE	F MISSOL	
		63, 9-10	=0/24, 2-18=-1660		bottom chor OAD CASE(S).							A	ST SC	сотт м.	
BOT CHORD	17-18=-259/6 4-15=-222/24		17=-60/43, 15-16= 9=-96/1704,	0/127,	(-)						4	Ø.	~ /	SEVIER Y	
	19-20=-96/17	704, 14-	20=-96/1704,								ς	õ		0	
		8860, 9-	11=-352/4794								Ž	1	catto	Merceller	>
WEBS	3-17=-261/12 3-15=-267/18										-	Nº.	PE-2	001018807 (五月	
	5-14=-177/19	91, 6-14		7/314								Y	Ser.	NOT A	
	8-11=-63/216			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									010	NAL ENG	
NOTES													1	arch 31,2021	



								RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 30 OS		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 145421551
Lot 30 OS	A7	Hip		1	1	Job Reference (c	optional	I45421551 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly,	, KS - 66871,		Run: 8.43 S ID:VxWg?w	Mar 22 2021 Print: 8 A2R3MakUkj2l0tcxyE	3.430 S Mar D2rv-RfC?Ps	22 2021 MiTek Industri sB70Hq3NSgPqnL8w3u	es, Inc. ⁻ ue IITXbGK ['] Vr	
	-0-10-8 4-4-5	9-5-4	16-0-0	20-0-0	27	7-1-11	33-6-1	
	0-10-8 4-4-5	5-0-15	6-6-12	4-0-0 6x6= 6x6		-1-11	6-5-1	2-5-4 0-10-8
11-7-3 11-2-3 11-4-0	3 - $\frac{1}{2}$	8 ¹² 4	3x6 = 5 = 5 = 5 = 5 = 5 = 5 = 5 = 5 = 5 =	6 ■ 17 23 16 3x6= 3x	7 7 8 10=	3x6 8 3x6 9 9 15 14 3x6= 3x10=		$4x9 \times 10$ 10 11 13 11 12 M18SHS 8x12 = 5x12 \times 6L 12
Scale = 1:77.9	4-4-5 4-4-5	9-6-8 5-2-3	<u>15-10-12</u> 6-4-4	<u>20-1-4</u> 4-2-8	2	7-1-11 7-0-7	<u>33-8-8</u> 6-6-13	
	6:0-3-5,Edge], [7:0-3-4,Edge], [14:0-2-8,0-1-8], [17:0)-2-8,0-1-8], [21:0-3-1	2,0-2-12]				
oading	(psf) Spacing	2-0-0	CSI	DEF		in (loc) l/def	L/d	PLATES GRIP

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.79 0.78 0.72	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.44 0.28	(loc) 13-14 13-14 11 13-14	l/defl >999 >977 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 169 lb	GRIP 197/144 197/144 FT = 10%	
l	13-11:2x8 SP DSS, 1.8E 2x3 SPF No.2 *Exce No.2, 21-2:2x6 SPF Structural wood shee 2-2-0 oc purlins, exc 2-0-0 oc purlins (4-8 Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-3-8, Max Horiz 21=-304 (Max Uplift 11=-197 (athing directly applied cept end verticals, and -0 max.): 6-7. applied or 10-0-0 oc 4-17, 6-16, 9-16, 10-1 21=0-3-8 LC 6) LC 9), 21=-198 (LC 8) (LC 16), 21=1790 (LC	2, 2) F or 3) 4) 5) 6) 4 7)	this design. Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right exposed Provide aded All plates are This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearing at jo using ANSI/I designer sho	roof live loads hav 7-16; Vult=115mp ; TCDL=6.0psf; B closed; MWFRS (t and right expose d; Lumber DOL=1 uate drainage to MT20 plates unle s been designed the nonconcurrent in chord in all area y 2-00-00 wide wi by other members, int(s) 11 considers TPI 1 angle to grai uld verify capacity hanical connection	bh (3-sec GCDL=6. envelop- d; end .60 plate prevent ses othe for a 10. with any d for a liv s where ill fit betv, with BC s paralle n formul v of bear	cond gust) Opsf; h=25ft; (i e) exterior zor ertical left an grip DOL=1. water ponding wise indicate D psf bottom other live loa e load of 20.0 a rectangle ween the bottt CDL = 10.0psf I to grain valu a. Building ing surface.	Cat. ne; d 60 g. d. ds. Opsf om e						
TOP CHORD	4-5=-1945/230, 5-6= 6-7=-1515/268, 7-8= 8-9=-1951/216, 9-10 10-11=-5537/504, 11 2-21=-1711/217 20-21=-258/614, 19- 4-18=-33/667, 18-22 17-22=-252/2359, 11 16-23=-27/1605, 15- 14-15=-50/2198, 13-	1820/258, =-2696/263, -12=0/24, 20=-21/59, 18-19=0/9 =-250/2362, 7-23=-27/1605, 16=-50/2198,	9) 10 7,	bearing plate joint 21 and This truss is International R802.10.2 ar) Graphical pu	capable of withst 197 lb uplift at join designed in accor Residential Code nd referenced star rlin representation ation of the purlin a	anding 1 t 11. dance w sections ndard AN n does no	98 lb uplift at ith the 2018 s R502.11.1 a ISI/TPI 1. ot depict the s	nd				STATE OF M SCOTT SEVI	ER ER	
WEBS	11-13=-385/4677 3-20=-509/139, 18-2 3-18=0/256, 4-17=-9 6-16=-208/209, 7-16 9-16=-967/277, 9-14 10-14=-1817/310, 10 2-20=-58/1545	89/295, 6-17=-120/83 =-81/760, ==0/518,	2,								AAA	NUMI PE-20010	LENGING	

March 31,2021



											RELEA	SE FOR CONSTRUCTION
Job	Truss		Truss Type		Q	ty	Ply	Lot 30 O	s			TED FOR PLAN REVIEW
Lot 30 OS	B1		Piggyback Base		6		1	Job Refe	rence (or	otional	LEE	ELOPMENT SERVICES 145421552 S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS	- 66871,				Mar 22 2021 A2R3MakUkj2			2021 MiTek	Industries	, Inc. Ti		/31/2021
	-0-10		9-5-4	15-7-0	20-4-1			1-11		33-6-		36-10-8 0-0
	0-10-	8 4-4-5	5-0-15	6-1-12	4-9-15 x6=	6x6	-6-8	8-11		6-5-	1 2-	5-4 0-10-8
Scale = 1:77.2 Plate Offsets (X, Y): [5:0-4 Loading	1-4,0-2-4],			3; = <u>15-8-4</u> 6-1-12 0-1-8], [19:0-3-1	5 20 66= 20-3-1 4-7-7 2,0-2-12]	14 3x10	<u>27-</u> 6-9	13 3x6= 1-11 -15	3x6 7 7 12 3x10=	33-8 6-6-1	13 '2-(5x12 _≥ 36-0-0 <u>8-8</u> H -0-3-8
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.79	· ·	LL) -0.	in (loc) 24 11-12	>999	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.72 0.72	Vert(Horz	,	44 11-12 28 9		240 n/a	M18SHS	197/144

0.14 11-12

>999

240

Weight: 168 lb FT = 10%

BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S	0.72	Wind(LL)	0.
LUMBER TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce 11-9:2x8 SP DSS, 13 1.8E	pt* 17-4:2x3 SPF No.: 3-11:2x4 SPF 2100F	2) 2,	Vasd=91mph II; Exp C; End cantilever left	7-16; Vult=115 n; TCDL=6.0ps closed; MWFR t and right exp d; Lumber DOL	f; BCDL=6.0 S (envelope osed ; end v	Opsf; h=25ft; e) exterior zo vertical left ar	ne; nd
WEBS		pt* 14-5,11-8:2x4 SPF No.2	= 3) 4)	Provide adec All plates are	uate drainage MT20 plates u	to prevent v unless other	water pondin wise indicate	g.
BRACING TOP CHORD		athing directly applied cept end verticals, and -10 max.): 5-6.		chord live loa * This truss h on the botton	s been design ad nonconcurre as been desig n chord in all a	ent with any ned for a liv reas where	other live loa e load of 20. a rectangle	0psf
BOT CHORD	Rigid ceiling directly bracing.	,	7)	chord and an Bearing at joi	y 2-00-00 wide y other membrint(s) 9 conside	ers, with BC ers parallel t	DL = 10.0ps to grain value	f.
	(size) 9=0-3-8, 1 Max Horiz 19=-299 (I Max Uplift 9=-194 (Lu Max Grav 9=1754 (L	9=0-3-8 _C 6) C 9), 19=-195 (LC 8)	8)	designer sho Provide mech bearing plate	PI 1 angle to g uld verify capa hanical connec capable of wit 194 lb uplift at	city of bear tion (by oth hstanding 1	ing surface. ers) of truss	
FORCES	(lb) - Maximum Com Tension	,, (9)	This truss is	designed in ac Residential Co	cordance w		and
TOP CHORD	4-5=-1939/264, 5-6= 6-7=-1950/248, 7-8=		,	R802.10.2 ar Graphical pu	nd referenced s rlin representa ation of the pur	standard AN tion does no	ISI/TPI 1. ot depict the s	
BOT CHORD	18-19=-254/601, 17- 4-16=-35/632, 15-16 15-20=-27/1599, 14- 13-14=-42/2181, 12- 11-12=-340/3906, 9-	20=-27/1599, 13=-42/2181,	^{7,} LO	AD CASE(S)				
WEBS	3-18=-504/138, 16-1 3-16=0/245, 4-15=-9 5-14=-197/197, 6-14	8=-285/2084, 52/287, 5-15=-118/81 =-73/755, =0/512, 8-12=-1817/3	,					
NOTES								

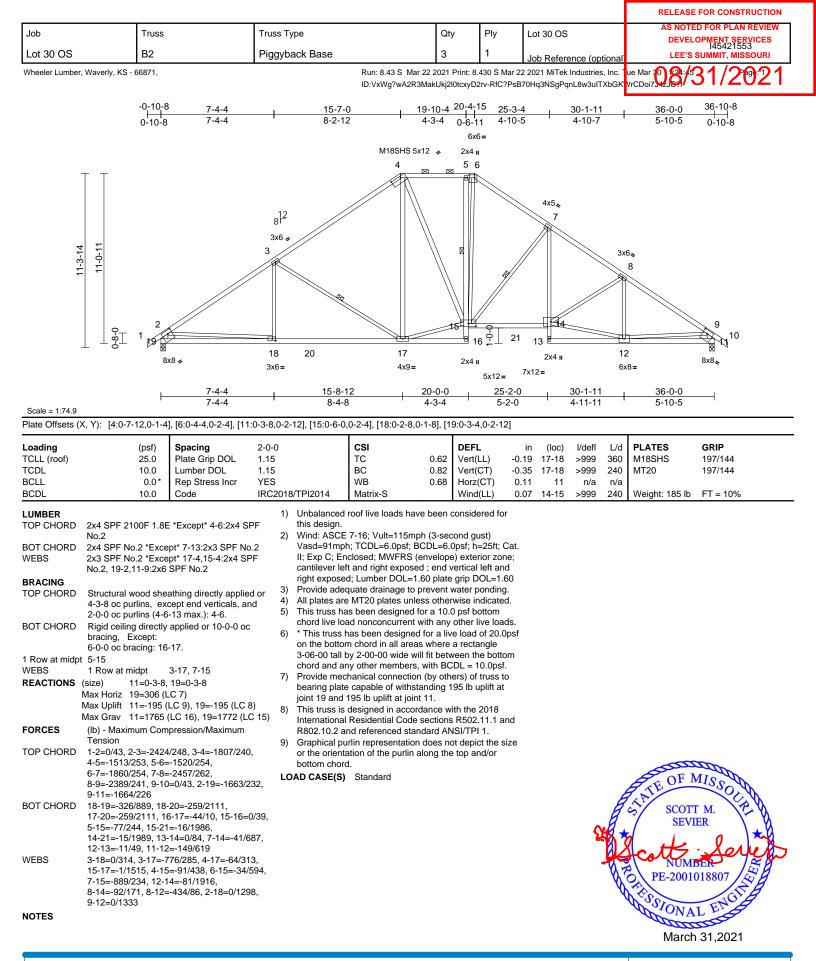
1) Unbalanced roof live loads have been considered for

this design.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

OF MISSOL E SCOTT M. SEVIER NUMBER NOTESSIONAL PE-2001018807 E March 31,2021



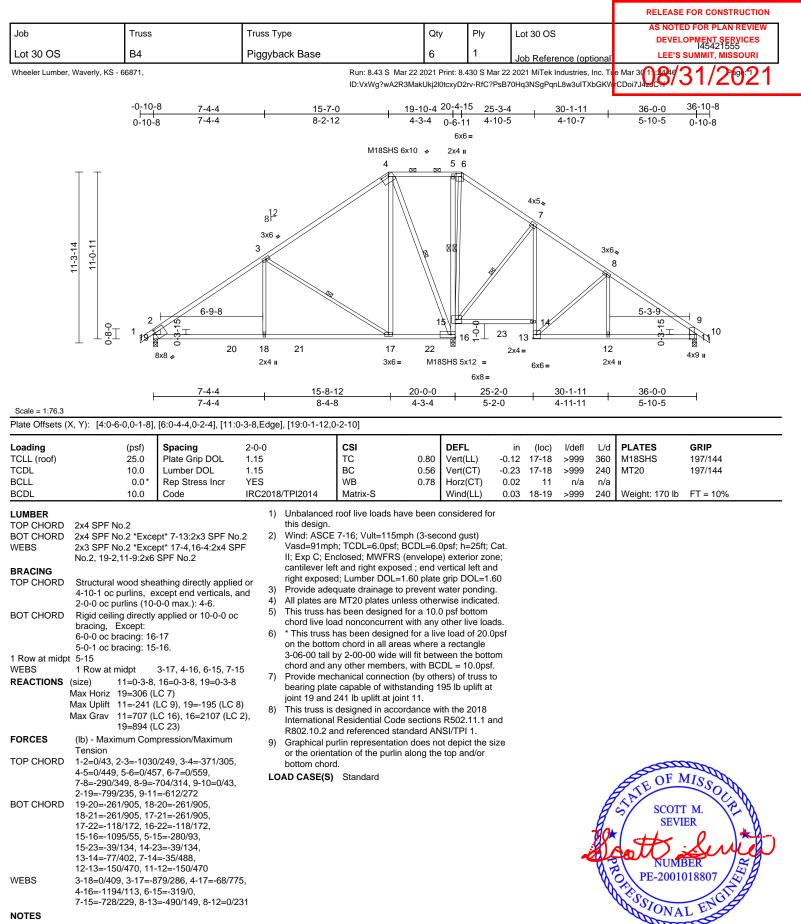




									RELEASE FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	Lot 30 OS		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 145421554
Lot 30 OS	В3		Piggyback Base		1	1	Job Reference	e (optional'	LEE'S SUMMIT, MISSOURI
Wheeler Lumber	, Waverly, KS - 66871,		•	Run: 8.43 S Mar 22	2021 Print: 8	430 S Mar 2	2 2021 MiTek Indu	stries. Inc.	ue Mar 08:431/2921
		40.0		ID:VxWg?wA2R3Ma		2rv-RfC?PsB	70Hq3NSgPqnL8\	w3ul1XbGK	
	t i i i i i i i i i i i i i i i i i i i	10-8 <u>7-4-4</u> 10-8 7-4-4	15-7		-4-15 : -7-3 :	<u>25-3-4</u> 4-10-5	<u>30-1-11</u> 4-10-7		<u>6-0-0</u> 36-10-8 10-50-10-8
	-			$8 \times 8 \neq \frac{2 \times 4}{5}$	ı 6x6= 6				
	11-3-14 0-8-0 ⊢⊢ 11-0-11	2 7x12 +	8 ¹² 3x6 = 3 19 5x12=	5x12= 3x4 II 3x6 II 7x12= 2x4	2x4 II 1 2x4 II 1 0-4	0 	x4 II	3x6 8 8 12 6x8=	
		7-4-4	15-		20-0-0 2	<u>5-2-0</u> 5-2-0	<u>30-1-11</u> 4-11-11		6-0-0 -10-5
Scale = 1:83.8 Plate Offsets (2	X, Y): [4:0-5-4,0-3-0]			,0-2-4], [15:0-2-0,0-3-0],	0-1-12				
Loading	(psf)	Spacing	2-0-0		DEFI	-	in (loc) l/o	defl L/d	PLATES GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC C).72 Vert(LL) -0.	16 14-15 >9	999 360	MT20 197/144
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	WB C).52 Vert().78 Horz	(CT) 0.	16 11	999 240 n/a n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S	Wind		05 7 >9	999 240	Weight: 196 lb FT = 10%
LUMBER TOP CHORD	2x4 SPF 2100F 1.8	E *Except* 4-6:2x6 S	PF Vasd=91n	CE 7-16; Vult=115mph (nph; TCDL=6.0psf; BCD	L=6.0psf; h	=25ft; Cat.			
BOT CHORD	No.2 2x4 SPF No.2 *Exce	·	II; Exp C; PF cantilever	Enclosed; MWFRS (env left and right exposed ;	end vertical	left and			
WEBS	No.2 2x3 SPF No.2 *Exce	ept* 14-6,22-23:2x4 \$	SPF 3) Provide ad	sed; Lumber DOL=1.60 dequate drainage to prev	vent water p	onding.			
BRACING	No.2, 20-2,11-9,21-		This truss	has been designed for a load nonconcurrent with					
TOP CHORD		athing directly applie cept end verticals, a	u Ui ' on the het	s has been designed for tom chord in all areas w					
BOT CHORD	2-0-0 oc purlins (5-3	3-0 max.): 4-6.	3-06-00 ta chord and	II by 2-00-00 wide will fit any other members.	between th	ne bottom			
DOT CHOKD	bracing, Except: 6-0-0 oc bracing: 12	r applied or 10-0-0 oc 2-13.	 Provide m bearing pl 	echanical connection (b ate capable of withstand			t		
1 Row at midp	t 5-16		11. 7) This truss	is designed in accordan	ce with the	2018			
WEBS REACTIONS	1 Row at midpt (size) 11=0-3-8	3-17 , 20=0-3-8	Internation	and referenced standard	tions R502	.11.1 and			
	Max Horiz 20=-364 Max Uplift 11=-110	· /	8) Graphical	purlin representation do	es not depi	ct the size			
	Max Grav 11=1678	(LC 22), 20=1677 (L	C 1) bottom ch		iy ine iop al	10/01			
FORCES	(lb) - Maximum Con Tension		LOAD CASE(S) Standard					
TOP CHORD	7-8=-2302/96, 8-9=-	835/0, 6-7=-2309/25 2297/107, 9-10=0/43							SE OF MISSO
BOT CHORD	2-20=-1611/0, 9-11: 19-20=0/795, 18-19 4-17=0/837, 16-17= 5-16=-8/115, 14-15: 7-14=-365/231, 12- 11-12=-128/565	=0/51, 17-18=0/149, 0/1875, 15-16=0/148 =0/58, 13-14=0/84,	,						SCOTT M. SEVIER
WEBS	3-19=-586/6, 17-19= 4-16=-266/0, 14-16= 6-14=-382/545, 12-1	=0/1907, 3-17=-87/50 =0/1664, 6-16=0/660 14=0/1816, 8-14=-80 =0/1192, 9-12=0/125	(183,					and the second s	PE-2001018807
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for							March 31,2021
WARN			THIS AND INCLUDED MITE	KREFERENCE PAGE MII-7473			E.		

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 tev. 5/19/2020 BEFORE USE. Design valid for use only with MITek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

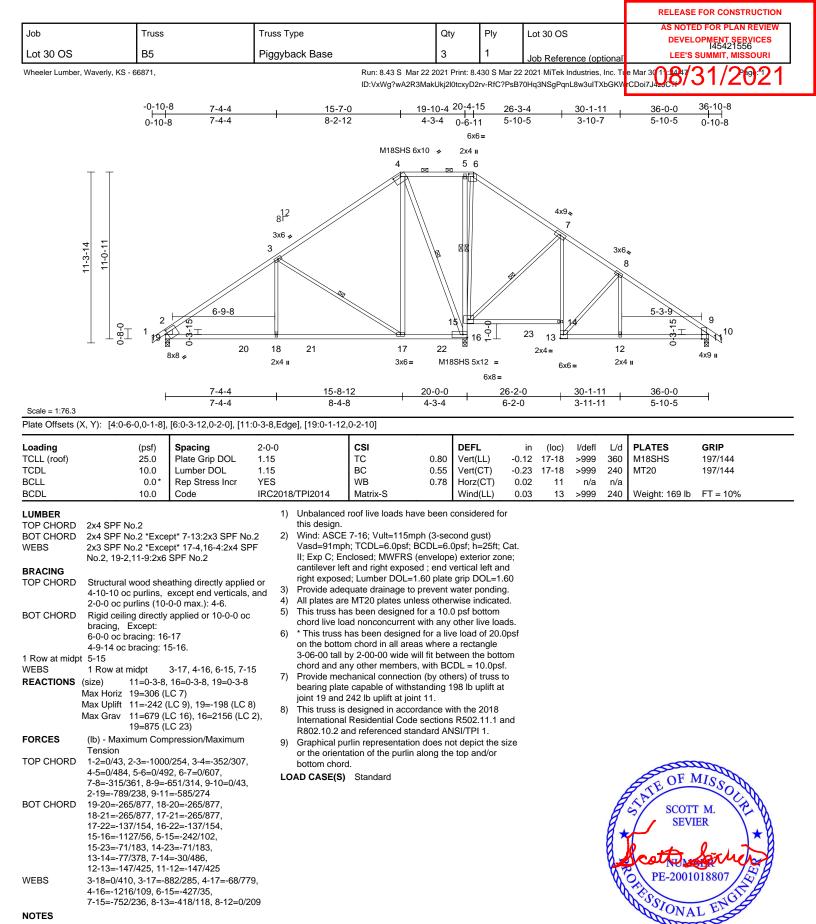


NOTES

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 31,2021



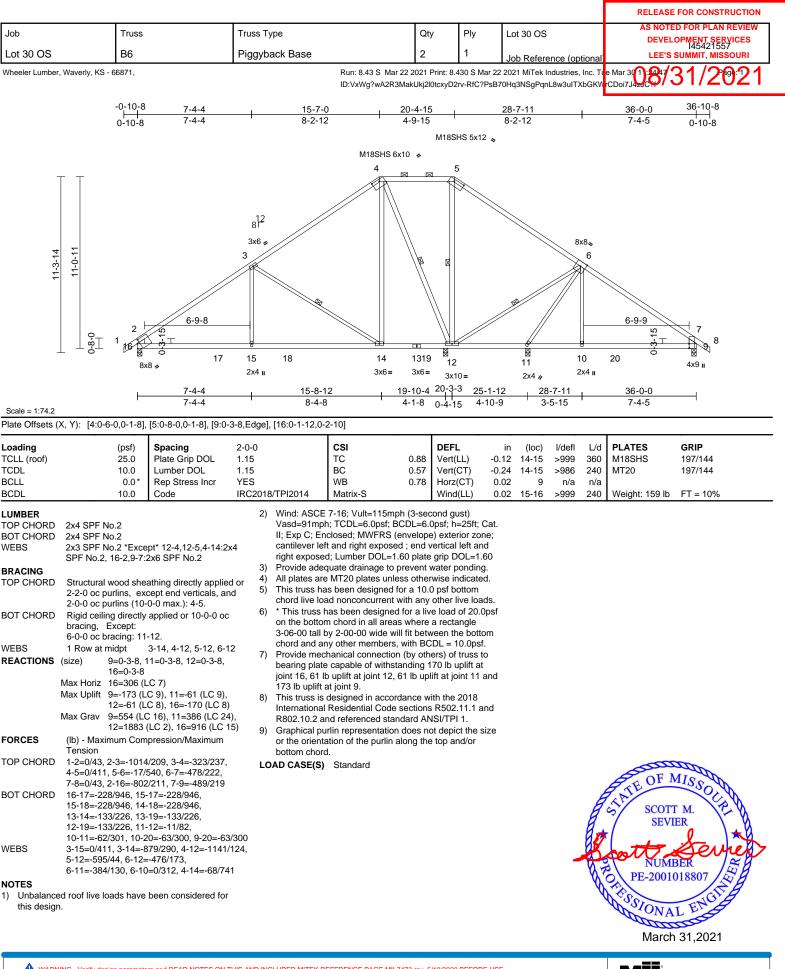
NOTES

7-15=-752/236, 8-13=-418/118, 8-12=0/209

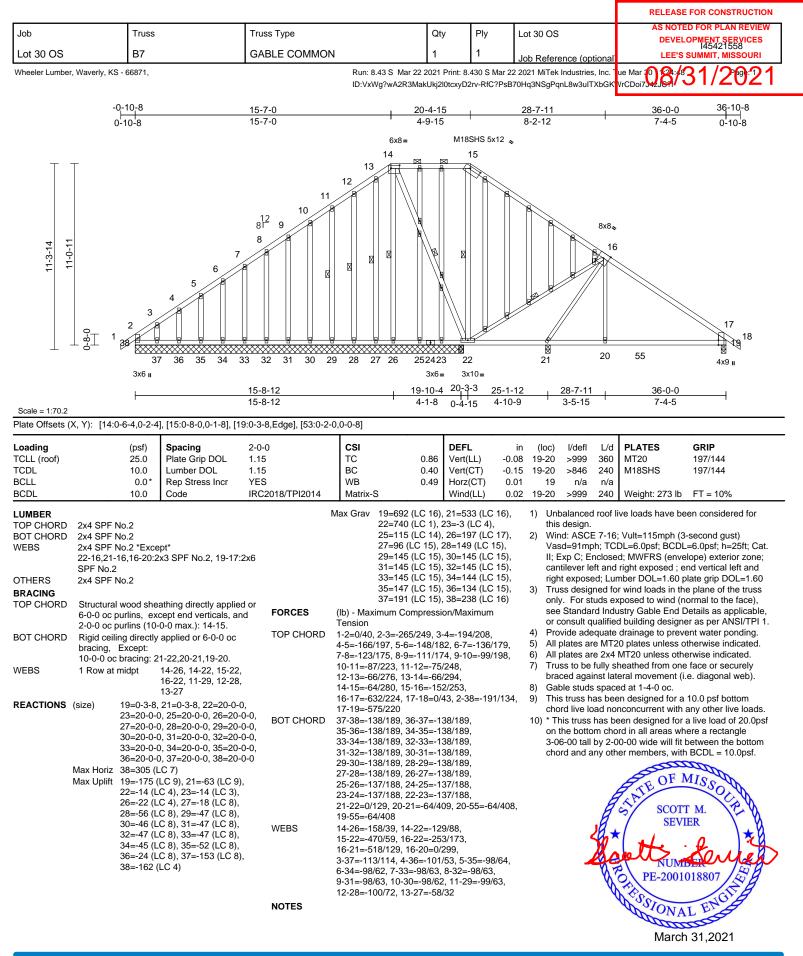
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 31,2021







16023 Swingley Ridge Rd Chesterfield, MO 63017

Continued on page 2

							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Plv	Lot 30 OS	AS NOTED FOR PLAN REVIEW
305	11035	nuss rype		Qly	I IY	LUI 30 03	DEVELOPMENT SERVICES 145421558
Lot 30 OS	B7	GABLE COMMON		1	1	Job Reference (optional	
Wheeler Lumber, Waverly, KS - 6	66871.		Run: 8.43 S Mar 22 2	021 Print: 8.	430 S Mar 22	2 2021 MiTek Industries. Inc. 1	

11) Provide mechanical connection (by others) of truss to Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 38, 22 lb uplift at joint 26, 14 lb uplift at joint 22, 63 lb uplift at joint 21, 175 lb uplift at joint 19, 153 lb uplift at joint 37, 24 lb uplift at joint 36, 52 lb uplift at joint 35, 45 lb uplift at joint 34, 47 lb uplift at joint 33, 47 lb uplift at joint 32, 47 lb uplift at joint 31, 46 lb uplift at joint 30, 47 lb uplift at joint 29, 56 lb uplift at joint 28, 18 lb uplift at joint 27 and 14 lb uplift at joint 23.

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.

13) 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

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7V2JQ/ 31/2021





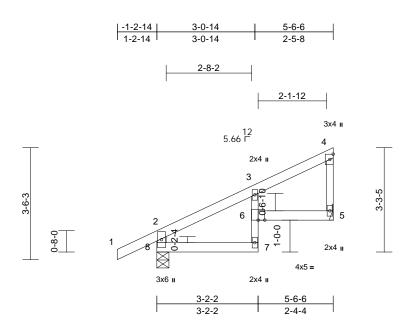
									RELEASE	E FOR CONSTRUCTION	
Job	Tru	uss	Truss Type		Qty	Ply	Lot 30 OS				' ٦
Lot 30 OS	C1	1	GABLE		1	1	lab Dafar			-OPMENT SERVICES 145421559 SUMMIT, MISSOURI	
	Waverly, KS - 66871	1,	-	Run: 8.43 S Mar 22 2	021 Print:	8.430 S Mar 2	2 2021 MiTek I	ence (optional ndustries, Inc. Tu	e Mar 3011:0049	21/2021	-1
				ID:VxWg?wA2R3Mak	Ukj2l0tcxy	D2rv-RfC?PsE	370Hq3NSgPqr	1L8w3ulTXbGKW	rCDoi7J4zJC	51/2021	
		-0-10-8	8	-4-0	I		16-8-0)	17-6-8		
		0-10-8	8	-4-0	I		8-4-0		0-10-8		
	6-5-14 6.2.11		x9 II		4x5 = 5		8 9 18 18 16-8-0	9 10 7 16	11 12 13 15 4x9 II	3	
		0-1-		2-4-8			8-4-0	,			
Scale = 1:46.3 Plate Offsets ()	X, Y): [2:0-3-8,Ed	lge], [14:0-3-8,Edge]									_
Loading TCLL (roof) TCDL BCLL BCDL	(psi 25. 10. 0. 10.	 Plate Grip DOL Lumber DOL Rep Stress Incr 	2-0-0 1.15 1.15 YES IRC2018/TPI2014	BC 0	.37 Ve .24 Ve .17 Ho	rt(CT) -(rz(CT) (in (loc) 0.02 24-25 0.05 24-25 0.01 14 0.02 24-25	I/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 93 lb	GRIP 197/144 FT = 10%	_
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 Structural wood 6-0-0 oc purlins, Rigid ceiling dire bracing.	Except* 21-5:2x4 SPF No. sheathing directly applied except end verticals. actly applied or 10-0-0 oc 1-0-0, 15=11-0-0, 16=11-0	or WEBS	24-25=-119/268, 23-24 22-23=-119/268, 21-22 20-21=-119/268, 19-20 18-19=-119/268, 15-16 14-15=-119/268, 15-16 14-15=-119/268 5-21=-191/129, 3-23=- 4-22=-162/196, 6-20=- 8-18=-97/62, 9-17=-96 11-15=-71/90	2=-119/2)=-119/2 3=-119/2 5=-119/2 476/311 56/27, 7 62, 10-1	68, 68, 68, 68, -19=-107/73 6=-107/64,	Inte R80 LOAD	ernational Resid	erenced standar	tions R502.11.1 and	
	17=11 20=11 23=11 Max Horiz 25=-1 Max Uplift 14=-1 16=-4 18=-4 20=-8 22=-1 Max Grav 14=47 16=14 18=12 20=81 22=16 24=42 (lb) - Maximum (Tension 1-2=0/43, 2-3=-3 4-5=-215/257, 5 7-8=-290/265, 8 10-11=-307/188	1-0-0, 18=11-0-0, 19=11-0 1-0-0, 21=11-0-0, 22=11-0 1-0-0, 24=0-3-8, 25=0-3-8	 Unbalancec Unbalancec Wind: ASCI Wind: ASCI Vasd=91mp II; Exp C; E cantilever le right expose Truss desig only. For st see Standa or consult q All plates ar S), Truss to be braced agai This truss h chord live lo * This truss h chord and a on the botto -06-00 tall chord and a provide me joint 14, 132 148 lb uplift at joint 19, 4 	I roof live loads have be E 7-16; Vult=115mph (3 bh; TCDL=6.0psf; BCDI nclosed; MWFRS (enve ift and right exposed ; e ed; Lumber DOL=1.60 p ned for wind loads in thi uds exposed to wind (r rd Industry Gable End I ualified building design re 2x4 MT20 unless oth fully sheathed from one inst lateral movement (i a spaced at 1-4-0 oc. as been designed for a bean designed for a by 2-00-00 wide will fit iny other members. chanical connection (by e capable of withstandi 5 lb uplift at joint 21, 33 at joint 22, 8 lb uplift at 4 joint 16, 184 lb uplift at t 25.	8-second =6.0psf; elope) ex not vertic blate grip e plane e formal to Details as er as per erwise in a face or 10.0 psf any other a live loz here a re- between v others) ing 196 ll 3 lb uplift ; joint 20, 7 lb uplift	gust) h=25ft; Cat terior zone; cal left and DOL=1.60 of the truss the face), s applicable ANSI/TPI 1 dicated. securely nal web). bottom er live loads. ad of 20.0ps ctangle the bottom of truss to o uplift at cat joint 23, 57 lb uplift c at joint 17,	, f		SCOT SEV NUM PE-2001	BER 018807	7

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



						RELEASE FOR CONSTRUCTION
lob	Truss	Truss Type	Qty	Plv	Lot 30 OS	AS NOTED FOR PLAN REVIEW
000	11035	inuss rype	Giy	1 ''y	201 30 03	DEVELOPMENT SERVICES 145421560
Lot 30 OS	J1	Diagonal Hip Girder	1	1	Job Reference (optional	
Wheeler Lumber, Waverly, K	5 - 66871,	Run: 8.4	43 S Mar 22 2021 Print: 8	.430 S Mar 2	2 2021 MiTek Industries, Inc. Tu	

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30:845 31/2021 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWcDoi7J4acC49 31/2021



Scale = 1:36.1

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	0.26	Vert(LL)	-0.04	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.07	7	>946	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	6	>999	240	Weight: 18 lb	FT = 10%
			7) Hanger(s) o	r other connecti	on device(s) shall bo						

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2
WEBS	2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-6-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 5= Mechanical, 8=0-4-9
	Max Horiz 8=118 (LC 5)
	Max Uplift 5=-58 (LC 8), 8=-62 (LC 8)
	Max Grav 5=224 (LC 1), 8=346 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	2-8=-322/88, 1-2=0/41, 2-3=-249/25,
	3-4=-71/18, 4-5=-130/48
BOT CHORD	7-8=-48/137, 6-7=0/62, 3-6=-15/62,

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

5-6=-26/50

- 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 8 and 58 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

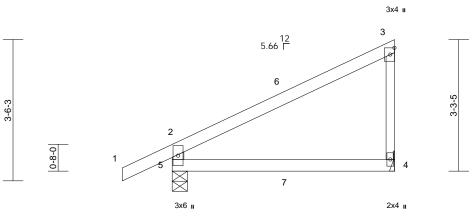
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 43 lb up at 2-9-8, and 79 lb down and 43 lb up at 2-9-8 on top chord, and 6 lb down and 1 lb up at 3-0-14, and 6 lb down and 1 lb up at 3-0-14 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
 In the LOAD CASE(S) section, loads applied to the face
- In the LOAD CASE(S) section, loads applied to the fact of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20 Concentrated Loads (lb)

Vert: 7=2 (F=1, B=1)





							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 30 OS	AS NOTED FOR PLAN REVIEW DEVEL OPMENT SERVICES
Lot 30 OS	J2	Diagonal Hip Girder		1	1	Job Reference (optional	DEVELOPMENT SERVICES 145421561 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,		Run: 8.43 S Mar 22 2 ID:VxWg?wA2R3Mak	021 Print: 8. Ukj2l0tcxyD2	430 S Mar 22 2rv-RfC?PsB	2 2021 MiTek Industries, Inc. Tu 70Hq3NSgPqnL8w3uITXbGKW	e Mar 3(1):85/31/2021 rcDoi7J4200
		<u>-1-2-14</u> 1-2-14		<u>5-6-6</u> 5-6-6		————	



S

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	0.42	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	4-5	>929	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 17 lb	FT = 10%

5-6-6

	υ	IVI	D	ᄃ	F	۲.
_	-	_	-			-

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- **REACTIONS** (size) 4= Mechanical, 5=0-4-9 Max Horiz 5=135 (LC 5) Max Uplift 4=-57 (LC 8), 5=-64 (LC 8) Max Grav 4=224 (LC 1), 5=346 (LC 1) FORCES (lb) - Maximum Compression/Maximum
- Tension TOP CHORD 2-5=-306/106, 1-2=0/41, 2-6=-160/25, 3-6=-69/44, 3-4=-160/78

5-7=-32/44, 4-7=-32/44

BOT CHORD

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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 5 and 57 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- provided sufficient to support concentrated load(s) down and 43 lb up at 2-9-8, and 79 lb down and 43 lb up at 2-9-8 on top chord, and 6 lb down and 1 lb up at 2-9-8, and 6 lb down and 1 lb up at 2-9-8 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face 8) of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

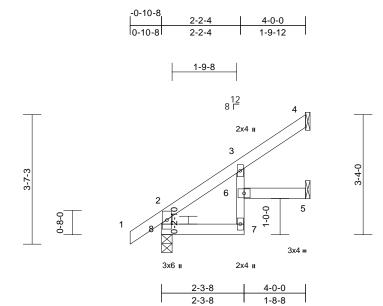
- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 7=2 (F=1, B=1)





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Lot 30 OS	AS NOTED FOR PLAN REVIEW
000	11035	indisa Type	Qty	i iy	100 30 03	DEVELOPMENT SERVICES 145421562
Lot 30 OS	J3	Jack-Open	4	1	Job Reference (optional)	
14/1 · · · I · · · I · · · 14/- · · · 14/- · · · · · · · · · · · · · · · · · · ·			0.40.0 M. 00.0004 D 0.44			



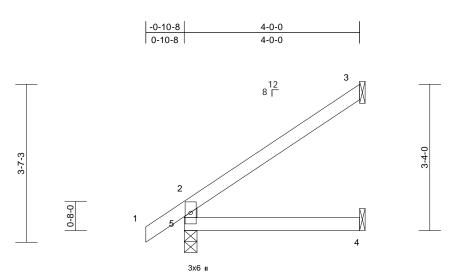
Scale = 1:32

Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.14 0.19 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.01 0.01	(loc) 6 7 5 6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 10%
8=0-3-8 Max Horiz 8=84 (LC 8 Max Uplift 4=-34 (LC Max Grav 4=104 (LC	thing directly applie ept end verticals. applied or 10-0-0 oc nical, 5= Mechanical 3) 8), 5=-6 (LC 8) 13), 5=64 (LC 13),	d or	Standard								
 Max Uplift 4=34 (LC 8), 5=-6 (LC 8) Max Grav 4=104 (LC 13), 5=-64 (LC 13), B=252 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension ToP CHOR 2-8=-235/11, 1-2=0/40, 2-3=-143/0, 3-4=-29/52 BOT CHORD 7-8=-26/70, 6-7=0/43, 3-6=-2/51, 5-6=0/0 MOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 pate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord inve load nonconcurrent with any other live loads. 3) * This truss has been designed for a 10.0 psf bottom chord and any other members. 4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 											
International Residential Code see R802.10.2 and referenced standa		nd								A SIONA March	1 31,2021



						RELEASE FOR CONSTRUCTION
lob	Truss	Truss Type	Qty	Plv	Lot 30 OS	AS NOTED FOR PLAN REVIEW
Job	Truss	Truss Type	Qiy	Fiy	LOI 30 US	DEVELOPMENT SERVICES 145421563
Lot 30 OS	J4	Jack-Open	11	1	Job Reference (optional	
						00/04/0004

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. ue Mar 08:131/2021 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi70-2017/02017



4-0-0

- ·			
Scale	= 1	1:26.3	

Scale = 1.20.3												
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	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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: 12 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 4-0-0 oc purlins, ex Rigid ceiling directly bracing.	athing directly appli cept end verticals. applied or 10-0-0 o anical, 4= Mechanica 8) 2 8)	ed or ic al,									
FORCES	(Ib) - Maximum Corr											
FURGES	(ib) - Maximum Con Tension	ipression/iviaximum										
TOP CHORD		40. 2-3=-85/54										
BOT CHORD	,	10,20 00,01										
NOTES												
	CE 7-16; Vult=115mph	(2 second quist)										
	mph; TCDL=6.0psf; BC		Cat									
	Enclosed; MWFRS (er											
	exposed ; end vertical										~	~
Lumber D	OL=1.60 plate grip DC)L=1.60									A	Aller
	s has been designed fo										TATE OF	MISS
	e load nonconcurrent wi									4		NS
	ss has been designed f		Opsf							H	SCOT	TM YEN
	ttom chord in all areas									Ø	SEV	
	all by 2-00-00 wide will	tit between the bott	om							n +	-1	
	d any other members. girder(s) for truss to tru	ss connections								\// ^		
	nechanical connection		to						_		sell ? .	Sugar
	late capable of withstar									N.	SC NUM	
3.										N'	PE-2001	018807
	s is designed in accorda	ance with the 2018								V	12	158
	nal Residential Code s		and								A Sister	ENUR
R802.10.2	2 and referenced stand	lard ANSI/TPI 1.									CSSIONA	IL D'
LOAD CASE	(S) Standard										COL	000

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

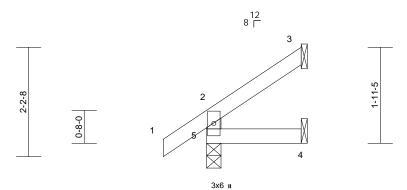


March 31,2021

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Lot 30 OS	AS NOTED FOR PLAN REVIEW
500	11033	Tuss Type		I IV	LUI 30 03	DEVELOPMENT SERVICES 145421564
Lot 30 OS	J5	Jack-Open	4	1	Job Reference (optional	
					•	

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. ue Mar 02:3/31/2021 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi7.2017/2021





1-10-15

Scale =	1:23.3
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0	* Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD		neathing directly appli										
BOT CHORD		tly applied or 10-0-0 o										
REACTIONS	(size) 3= Mec 5=0-3-8	hanical, 4= Mechanica	al,									
	Max Grav 3=50 (I (LC 1)	LC 8), 5=-16 (LC 8) .C 15), 4=31 (LC 3), 5	=171									
FORCES	()	ompression/Maximum										
TOP CHORD	Tension 2-5=-150/37, 1-2=	0/40 2 2- 49/22										
BOT CHORD	4-5=0/0	0/40, 2-3=-40/22										
NOTES												
Vasd=91n II; Exp C; cantilever right expo: 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and	Enclosed; MWFRS left and right expose sed; Lumber DOL=' has been designed load nonconcurrent s has been designe tom chord in all area ill by 2-00-00 wide w any other members	BCDL=6.0psf; h=25ft; 6 envelope) exterior zor ed; end vertical left an 60 plate grip DOL=1. for a 10.0 psf bottom with any other live load d for a live load of 20.0 is where a rectangle ill fit between the botto	ne; d 60 ds. Jpsf								STATE OF I	
5) Provide m bearing pl 5 and 37 l	ate capable of withs b uplift at joint 3.	russ connections. n (by others) of truss t tanding 16 lb uplift at j									NUM PE-2001	

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

LOAD CASE(S) Standard

BSSIONAL E the March 31,2021



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Lot 30 OS	AS NOTED FOR PLAN REVIEW
			ς.,	,		DEVELOPMENT SERVICES 145421565
Lot 30 OS	LAY1	GABLE	1	1	Job Reference (optional	
						00/01/0001

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. ue Mar 02:3131/2021

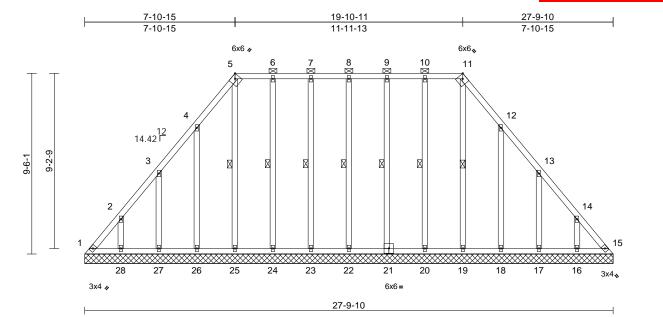


Plate Offsets (X, Y): [5:0-2-11,Edge], [11:0-2-11,Edge]

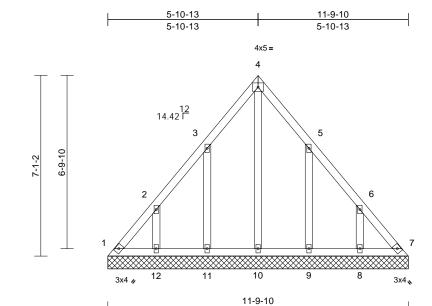
- 1010 0110010 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	joj; [: ::e = ::;=ago]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI201	WB 0.	04 Vert(TL)	in (loc) n/a - n/a - 0.01 15	n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 172 lb	GRIP 197/144 FT = 10%			
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 Structural wood sh 6-0-0 oc purlins, e: 2-0-0 oc purlins (6	-0-0 max.): 5-11. ly applied or 10-0-0 oc 8-22, 7-23, 6-24, 5-25	^{or} BOT CHOI	26-27=-108/208, 25-26 24-25=-108/209, 23-24 22-23=-108/209, 21-22 20-21=-108/209, 19-20 18-19=-108/209, 17-18	167, 6-7=-45/167, 67, 9-10=-44/166, -98/196, 147/105, -108/208, =-108/208, =-108/209, =-108/209, =-108/209, =-108/209, =-108/209,	on 3-(ch 10) Pr be joii up 25 up 20 20	 9) * 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. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 1, 82 lb uplift at joint 15, 32 lb uplift at joint 22, 35 lb uplift at joint 23, 34 lb uplift at joint 24, 24 lb uplift at joint 25, 162 lb uplift at joint 26, 152 lb uplift at joint 27, 151 lb uplift at joint 18, 152 lb uplift at joint 17 and 151 lb uplift at joint 16. 11) This truss is designed in accordance with the 2018 						
9-21, 10-20, 11-19 REACTIONS (size) 1=27-9-10, 15=27-9-10, 16=27-9-10, 17=27-9-10, 18=27-9-10, 21=27-9-10, 20=27-9-10, 21=27-9-10, 22=27-9-10, 25=27-9-10, 24=27-9-10, 25=27-9-10, 26=27-9-10, 27=27-9-10, 28=27-9-10			WEBS NOTES	16-17=-108/209, 15-16 8-22=-140/57, 7-23=-1 5-25=-151/63, 4-26=-18 3-27=-174/177, 2-28=- 9-21=-139/59, 10-20=- 12-18=-186/184, 13-17 14-16=-170/168	89/59, 6-24=-148/58, 87/185, 170/168, 148/62, 11-19=-122/0	Int R8 12) Gr 0, or bo	 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard 						
	Max Horiz 1=-252 Max Uplift 1=-150 16=-151 18=-161 21=-35 23=-35 25=-24		this de 2) Wind: Vasd= II; Exp cantile right e:	 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 					STATE OF MISSOL				
Max Grav 1=249 (LC 8), 15=206 (LC 9), 16=214 (LC 16), 17=214 (LC 16), 18=226 (LC 16), 19=162 (LC 17), 20=187 (LC 21), 21=179 (LC 1), 22=182 (LC 22), 23=179 (LC 1), 24=188 (LC 22), 25=191 (LC 18), 26=227 (LC 15), 27=213 (LC 15), 28=215 (LC 15)			only. f see St), or con: (1), 0 (2), 0 (2), 0 (3), 0 (3), 0 (3), 0 (4),	For studs exposed to wind (mandard Industry Gable End D sult qualified building designed e adequate drainage to preve es are 2x4 MT20 unless other requires continuous bottom of studs spaced at 2-0-0 oc. uss has been designed for a	ormal to the face), etails as applicable, r as per ANSI/TPI 1 et water ponding. erwise indicated. hord bearing.		-	No.	SEVI SEVI PE-2001	ER Service 018807			
FORCES		mpression/Maximum	chord	ive load nonconcurrent with a	any other live loads.				C'SSIONA	L ENCO			

March 31,2021



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 30 OS	AS NOTED FOR PLAN REVIEW DEVEL OPMENT SERVICES
Lot 30 OS	LAY2	GABLE	1	1	Job Reference (optional	DEVELOPMENT SERVICES 145421566 LEE'S SUMMIT, MISSOURI
•						

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30:55/31/2021 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J426/31/2021



Scale = 1:45.2

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15 YES	CSI TC 0.06 BC 0.04 WB 0.10	DEFLinVert(LL)n/aVert(TL)n/aHoriz(TL)0.00	(loc) - - 7	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-S					Weight: 54 lb	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 she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=11-9-1 9=11-9-1 11=11-9- Max Horiz 1=-185 (L (LC 9), 9: 8), 12=-1 Max Grav 1=175 (L (LC 16), 1 (LC 16), 2 (LC 18), (LC 15) (lb) - Maximum Con Tension	eathing directly applied y applied or 10-0-0 oc 0, 7=11-9-10, 8=11-9-1 0, 10=11-9-10, 10, 12=11-9-10 C 4) C 6), 7=-53 (LC 7), 8=-1 =-157 (LC 9), 11=-158 (51 (LC 8) C 8), 7=158 (LC 9), 8=2 9=226 (LC 16), 10=158 11=228 (LC 15), 12=21 npression/Maximum	 3) Truss design only. For stu see Standar or consult qu 4) All plates are 5) Gable requir 6) Gable studs 7) This truss ha chord live loa 8) * This truss h on the bottor 3-06-00 tall t chord and ar 9) Provide mec bearing plate 10) This truss is International R802.10.2 a LOAD CASE(S) 	 5) Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 0-0-0 oc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 1, 53 lb uplift at joint 7, 158 lb uplift at joint 11, 151 lb uplift at joint 12, 157 lb uplift at joint 9 and 151 lb uplift at 										
TOP CHORD		-143/104, 3-4=-112/129 17/68, 6-7=-220/125),											
BOT CHORD	1-12=-84/169, 11-12		9,						TATE OF M	AISSO				
WEBS	4-10=-125/13, 3-11: 2-12=-167/168, 5-9:	=-188/184, =-187/183, 6-8=-167/16	69					A	S SCOT	ГМ.				
this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever	ed roof live loads have CE 7-16; Vult=115mpt nph; TCDL=6.0psf; BC Enclosed; MWFRS (e left and right exposed	been considered for	t.					and the second sec	SEVI PE-2001	018807				

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

	RELEASE FOR CONSTRUCTION					
Job	Truss	Truss Type	Qty	Ply	Lot 30 OS	AS NOTED FOR PLAN REVIEW
	D1			4		DEVELOPMENT SERVICES 145421567
Lot 30 OS	P1	Piggyback	22	I	Job Reference (optional	
Wheeler Lumber, Waverly,	e Mar 3(1):ぬず ス1/ プ啊:71					

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zyCH731/20221

4-1-0

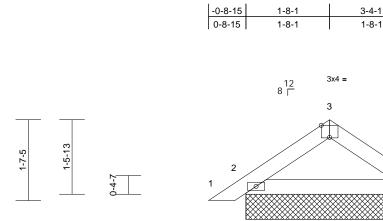
0-8-15

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2x4 =

5



Scale = 1:23

4)

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

	, Y): [3:0-2-0,Edge]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	CSI TC BC WB 4 Matrix-P	0.04 0.11 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	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: 10 lb	GRIP 197/144 FT = 10%
BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS (N FORCES TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 Structural wood she: 4-9-15 oc purlins. Rigid ceiling directly bracing. size) 2=3-4-1, 4 Aax Horiz 2=37 (LC Aax Uplift 2=-29 (LC Aax Grav 2=184 (LC (Ib) - Maximum Com Tension 1-2=0/17, 2-3=-130/: 4-5=0/17 2-4=-9/79	applied or 10-0-0 or 4=3-4-1 7) 5 8), 4=-29 (LC 9) C 1), 4=184 (LC 1) ppression/Maximum	bearin 2 and 9) This tr ed or R802. c 10) See S Detail consul	e mechanical connecti g plate capable of with 29 lb uplift at joint 4. uss is designed in acco attional Residential Cod 10.2 and referenced st andard Industry Piggy for Connection to base t qualified building des SE(S) Standard	standing 2 ordance w le sections andard AN back Trus e truss as a	9 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1. s Connection	joint and					
 this design. Wind: ASCE Vasd=91mp II; Exp C; Ei cantilever le right expose Truss desig only. For st see Standai or consult q 	I roof live loads have E 7-16; Vult=115mph sh; TCDL=6.0psf; BC nclosed; MWFRS (er sft and right exposed ad; Lumber DOL=1.6 ned for wind loads in uds exposed to wind uds exposed to wind rd Industry Gable En- ualified building design	(3-second gust) DL=6.0psf; h=25ft; (welope) exterior zor ; end vertical left an 0 plate grip DOL=1. the plane of the tru: (normal to the face; d Details as applical gner as per ANSI/TF	Cat. he; d 60 ss), ble,								STATE OF J	MISSOURI I M. IER

2x4 =

3-4-1

- Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. 5) This truss has been designed for a 10.0 psf bottom 6) 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 7) 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NUMBER

PE-2001018807

March 31,2021

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