Job	Truss	Truss Type	Qty	Ply		
22040108	F201	Floor	7	1	Job Reference (optional)	
Carter Components, Sanford, N	Run: 8.53 S Mar 2	8 2022 Print:	8.530 S Ma	r 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:39	Page: 1	

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:39

ID:ZxnVYYmMaml2DFYfq0mlo6yl9lv-OdgzV4fEKwYDoczpBm4_jjQCXNE3_3aMROb?qOyl3Xo



Scale = 1:63.1

Plate Offsets (X, Y): [5:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [22:0-4-12,Edge], [23:0-3-0,Edge], [26:0-1-12,Edge], [38:0-1-8,Edge]

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2018/TPI2014	CSI TC BC WB Matrix-SH	0.94 0.77 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.42 -0.55 0.04	(loc) 26-27 26-27 21	l/defl >592 >456 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 191 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) *E (flat) 2x4 SP No.1(flat) *E 2400F 2.0E(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 21=907/0 32=2541/ 40=582/0 Max Grav 21=970 (I 40=714 (I (lb) - Max. Comp./M	Except* T2:2x4 SP No.1 Except* B3,B4:2x4 SP eathing directly applied or except end verticals. / applied or 6-0-0 oc -3-8, (min. 0-1-8), 0-3-8, (min. 0-1-8), -3-8, (min. 0-1-8), -C 4), 32=2541 (LC 1), -C 3) ax. Ten All forces 250	WEBS NOTES 1) Unbalanced this design. 2) All plates an 3) All plates an 4) This truss is Internationa R802.10.2 a 5) Recommend	5-37=-46/252, 18- 2-40=-1104/0, 2-36 3-38=-347/396, 5- 5-34=-939/0, 7-34 9-33=0/1425, 9-32 11-31=0/1701, 12- 13-30=-1226/0, 13 14-27=0/413, 15-2 17-25=-611/78, 18 19-22=-1946/0, 20 floor live loads ha e MT20 plates unle e MT20 plates unle s 3x5 MT20 unless designed in accor lesidential Code nd referenced stat 1 2x6 strongbacks.	24=-1263 9=-30/68 36=-872/ =0/989, 7 =-1711/0 31=-1677 -29=0/84 7=-500/0 -25=0/14 -22=0/16 ve been ess otherwi dance w sections ndard AN on edge	8/0, 19-23=0/ 3, 3-39=-665 0, 6-36=0/66 33=-1399/0 1, 11-32=-212 2/0, 12-30=0 1, 14-29=-80 0, 15-26=0/25 10, 558 considered fi wise indicated. ith the 2018 is R502.11.1 <i>a</i> ISI/TPI 1. a, spaced at	924, /148, 7, , 66/0, /1267, 05/0, 57, or ed.					
TOP CHORD	(lb) or less except w 21-42=-946/0, 20-42 3-4=-2219/383, 4-5= 5-6=-2013/808, 6-7= 8-9=0/2260, 9-10=0 11-12=0/1546, 12-1: 13-14=-3177/133, 1. 15-16=-4322/0, 16-7= 17-18=-3724/0, 18-7= 19-20=-1483/0 39-40=0/882, 38-39= 37-38=-383/2219, 3= 35-36=-1122/1752, 3= 33-34=-1815/561, 3= 31-32=-2765/0, 30-5= 29-30=-395/2606, 2= 27-28=0/3720, 26-2= 24-25=0/2949, 23-2=	hen shown. 2=-944/0, 2-3=-1406/4, =-2219/383, =-1170/1446, 7-8=0/2260 /4458, 10-11=0/4459, 3=-1739/716, 4-15=-3962/0, 17=-4322/0, 19=-2949/0, =-118/1917, 6-37=-383/2219, 34-35=-1122/1752, 2-33=-3168/0, 31=-1068/842, 8-29=0/3720, 7=0/4287, 25-26=0/4205 4=0/2949, 22-23=0/2949	(0.131" X 3" at their oute (0.131" X 3" (0.131" X 3") (0.131" X 3" (0.131" X 3" (0.131" X 3") (0.131" X 3" (0.131" X 3") (0.131" X 3" (0.131" X 3") (0.131" X 3" (0.131" X 3") (0.131" X 3"	and fastened to e) nails. Strongbac r ends or restraine Do not erect truss l Standard	ach trus: ks to be d by oth backward	s with 3-10d attached to v ar means. ds.	valls					

Job	Truss	Truss Type	Qty	Ply	
22040108	F202	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:39 Page: 1 ID:20?_jD8Uef5RtnISOu?pSjyl8yU-OdgzV4fEKwYDoczpBm4_jjQPzNQn_FnMROb?qOyl3Xo



Scale = 1:38.7

Plate Offsets (X, Y): [18:0-2-0,Edge], [35:Edge,0-1-8], [36:0-1-8,0-1-0]

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.08 0.02 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a n/a	(loc) - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 88 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	eathing directly applied coept end verticals. / applied or 10-0-0 oc	l or									
REACTIONS / (lb) - l	All bearings 20-8-8. Max Grav All reactic (s) 18, 19 26, 27, 28	ons 250 (lb) or less at j 9, 20, 21, 22, 23, 24, 25 3, 29, 31, 32, 33, 34, 3	oint 5, 5									
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	50									
NOTES 1) All plates a 2) Gable requ 3) Truss to be braced aga 4) Gable stud 5) This truss i Internation. R802.10.2 6) Recommer 10-00-00 o (0.131" X 3 at their out 7) CAUTION,	The second product of	s otherwise indicated. om chord bearing. one face or securely it (i.e. diagonal web). lance with the 2018 sections R502.11.1 an dard ANSI/TPI 1. on edge, spaced at ch truss with 3-10d s to be attached to wa by other means. ackwards.	d Ils									

Job	Truss	Truss Type	Qty	Ply	
22040108	F203	Floor	3	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:40 Page: 1 ID:_P6l8v9kAHL975uqVJ2HX8yI8yS-OdgzV4fEKwYDoczpBm4_jjQE7NGv_2sMROb?qOyI3Xo

2-0-0 <u>}</u>0-1-8 <u>)0-</u>8-12 6x10= 1.5x3= 3x5 II 1.5x3 **I** 3x5= 1.5x3= 6x8= 3x5= 4x6= 3x6 II 3x10= 3x5= 3x6= 3x6 FP 3 6 10 4 5 7 89 1112 2 T: **2**5 Wę W WAW2 WRS. **1**,₿2 19 18 阇 22 21 20 17 16 15 14 6x8= 3x6 II 3x10= 3x5= 4x6= 6x8= 6x8= 3x5= 3x6= 4x6= MT20HS 3x8 FP 5-0-4 4-0-3-0-4 7-11-0 20-8-8 3-0-4 2-10-12 12-9-8 -0-0 , 1-0-0

Scale = 1:53.1

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-3-0,Edge], [13:Edge,0-1-8], [18:0-2-4,Edge], [21:0-3-0,Edge], [22:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.51	17-18	>481	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.70	17-18	>350	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat) *Except* T1:2x4 SP No.1 (flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* W3:2x4 SP No.2 (flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 13=1119/ Mechanical, (min. 0-1-8), 23=1119/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(ib) of less except when shown.
TOP CHORD	2-3=-3747/0, 3-4=-3747/0, 4-5=-5180/0, 5-6=-5857/0, 6-7=-5426/0, 7-8=-4814/0, 8-9=-4814/0, 9-10=-3557/0, 10-11=-1637/0
TOP CHORD BOT CHORD	(b) of less obspit with shown: 2-3=-3747/0, 3-4=-3747/0, 4-5=-5180/0, 5-6=-5857/0, 6-7=-5426/0, 7-8=-4814/0, 8-9=-4814/0, 9-10=-3557/0, 10-11=-1637/0 22-23=0/1653, 21-22=0/3747, 20-21=0/3747, 19-20=0/5825, 18-19=0/5825, 17-18=0/5694, 16-17=0/5271, 15-16=0/4334, 14-15=0/2751, 13-14=0/497

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated. 2)
- 3)
- Refer to girder(s) for truss to truss connections. This truss is designed in accordance with the 2018 4) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 5) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.6) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	
22040108	F204	Floor	8	1	Job Reference (optional)

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2-0-0 -<u>*o</u>¥1-8 3x8= 1.5x3 II 3x5= 3x5 II 1.5x3 I 1.5x3= 3x5= 4x5= 3x5= 4x5= 3x5= 3x6 FP 3 Δ 5 6 8 9 10 1-2-0 à в₩ W, B2 21 20 18 16 19 17 15 14 13 3x5= 3x6= 4x5= 3x6= 3x8= 1.5x3 II 3x5= 4x5= 3x5= MT20HS 3x12 FP



Scale = 1:48.6

Plate Offsets (X, Y): [5:0-1-8,Edge], [19:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.40	17-18	>544	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.55	17-18	>396	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 92 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* T2:2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* B2:2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
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, Except: 2-2-0 oc bracing: 18-19,17-18.
REACTIONS	(lb/size) 12=997/ Mechanical, (min. 0-1-8), 21=991/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2062/0, 3-4=-3853/0, 4-5=-3853/0, 5-6=-4255/0, 6-7=-4096/0, 7-8=-3238/0, 8-9=-3238/0, 9-10=-1731/0
BOT CHORD	20-21=0/1239, 19-20=0/2962, 18-19=0/3853, 17-18=0/3853, 16-17=0/4388, 15-16=0/4388, 14-15=0/3799, 13-14=0/2642, 12-13=0/792
WEBS	4-19=-529/0, 5-18=-381/0, 2-21=-1552/0, 2-20=0/1071, 3-20=-1173/0, 3-19=0/1295, 5-17=-91/674, 6-17=-279/168, 6-15=-379/0, 7-15=0/388, 7-14=-730/0, 9-14=0/775, 9-13=-1186/0, 10-13=0/1222, 10-12=-1268/0
NOTES	

 Unbalanced floor live loads have been considered for this design.

- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x5 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	
22040108	F205	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:35.1

									(1)			DI 4750			
LOa	aing	(pst)	Diata Crite DOI	2-0-0		0.00		in Tri-	(IOC)	i/defl	L/d	PLAIES	GRIP		
TOL		40.0		1.00		0.26	vert(LL)	n/a	-	n/a	999	IVI I ZU	244/190		
ICL		10.0		1.00	BC	0.02	vert(IL)	n/a	-	n/a	999				
BCI	LL DL	0.0 5.0	Code	YES IRC2018/TPI2014	WB Matrix-R	0.06	Horiz(IL)	n/a	-	n/a	n/a	Weight [.] 77 lb	FT = 20%F 11%F		
						-			-						
LU	MBER			10) Use Simpso	n Strong-Tie I	HTU26 (10-1	0d Girder,								
TOF	P CHORD	2x4 SP No.2(flat)		14-10dx1 1/	2 Truss, Singl	le Ply Girder)	or equivalent	~							
BO	T CHORD	2x4 SP No.2(flat)		spaced at 2-	0-0 oc max. s	starting at 3-0	-0 from the le	ft D) +-							
WE	BS	2x4 SP No.3(flat)		end to 17-0-		truss(es) E02	(1 piy 2x4 SF) to							
OTH	HERS	2x4 SP No.3(flat)		IFONT TACE OF	front face of top chord.										
BR/	ACING			11) WARNING:	The following	nangers are	manually app	frent							
TOF	OP CHORD Structural wood sheathing directly applied or face at 3-0-0 from the left end, HTU26 on front face at														
BO.	6-0-0 oc purlins, except end verticals. OT CHORD, Rigid calling directly applied or 6-0-0 oc														
00		bracing.		from the left	end, HTU26	on front face	at 9-0-0 from	the end							
RF		All bearings 18-4-8		HTU26 on fr	ont face at 13	3-0-0 from the	left end. HTL	J26							
	(lb) -	Max Uplift All uplift 1	100 (lb) or less at ioint(s	s) on front face	at 15-0-0 fro	m the left end	I, HTU26 on f	ront							
	()	17		face at 17-0-	-0 from the lef	ft end.									
		Max Grav All reaction	ons 250 (lb) or less at jo	bint LOAD CASE(S)	Standard										
		(s) 17, 19), 22, 25, 29, 31, 32 exc	cept 1) Dead + Flo	or Live (balan	nced): Lumbe	r Increase=1.0	00,							
		18=271 (l	LC 6), 20=261 (LC 6),	Plate Increa	Plate Increase=1.00										
		21=260 (l	LC 6), 23=260 (LC 6),	Uniform Lo	ads (lb/ft)										
		24=260 (l	LC 6), 26=259 (LC 6),	Vert: 17-	32=-10, 1-16=	=-100									
FOR		(lb) Max Comp (M	100, 30-279 (100)	Concentrat	ed Loads (ID)	3605 37	05 3805								
FUr	ACE3	(lb) or less except w	when shown.	39=-95.	40=-95, 41=-9	95 95	30, 0030,								
WE	BS	3-30=-266/0. 15-18=	=-264/2	··· ··,	,										
NO	TES														
1)	Unbalance	ed floor live loads hav	e been considered for												
•	this design	1.													
2)	All plates a	are 1.5x3 M120 unles	ss otherwise indicated.												
3)	Gable leq	a fully aboatbod from	one fees or accurate												
4)	braced ad	ainst lateral movemer	nt (i.e. diagonal web).												
5)	Gable stud	ds spaced at 1-4-0 oc).												
6)	One H2.5/	A Simpson Strong-Tie	e connectors												
	recommer	nded to connect truss	to bearing walls due to												
	UPLIFT at	t jt(s) 17. This connect	tion is for uplift only and	b											
	does not c	consider lateral forces	i.												
7)	This truss	is designed in accord	lance with the 2018												
	Internation	hal Residential Code	sections R502.11.1 and	1											
0)	K802.10.2	and referenced stan	dard ANSI/TPT1.												
8)		enu ∠xo strongbacks, (on eage, spaced at												
	(0 131" Y	3") nails Stronghook	ion muss with 3-100	le											
	at their ou	ter ends or restrained	by other means.	15											

9) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply		
22040108	F206	Floor Girder	1	4	Job Reference (optional)	
Carter Components, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:40					r 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:40	Page: 1

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:40 Page: 1 ID:VKvFzEoc6NYmTZh1xRomtXyl9It-spELiQgs5Eg4QIY?IUbDGxzOfnXhjdJVg2LYMqyl3Xn



Scale = 1:51.6

Plate Offsets (X, Y): [9:0-2-8,0-1-0], [10:0-4-0,0-1-8], [17:0-4-4,0-1-8]

												-				
Loading	(psf)	Spacing		2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL	40.0	Plate Grip DOL		1.00	TC	0.85	Vert(LL)	-0.28	14	>664	360	MT20HS	187/143			
TCDL	10.0	Lumber DOL		1.00	BC	1.00	Vert(CT)	-0.49	14	>384	240	MT20	244/190			
BCLL	0.0	Rep Stress Incr		NO	WB	0.33	Horz(CT)	0.08	10	n/a	n/a		FT 440/			
BCDL	5.0	Code	IRC2U	J18/TPI2014	Matrix-SH		-					weight: 304 lb	FT = 11%			
LUMBER			1)	4-ply truss to	be connected t	together w	ith 10d (0.13	1"x3")	12) CAI	JTION,	Do not	erect truss back	wards.			
TOP CHORD	2x4 SP 2400F 2.0E		,	nails as follo	WS:	•		,	13) Use	Simpso	on Stro	ng-Tie THA422 (6-16d Girder, 6-10d			
BOT CHORD	2x4 SP 2400F 2.0E			Top chords of	connected as fol	lows: 2x4	 2 rows stag 	gered	Truss) or equivalent spaced at 2-3-8 oc max. starting at							
WEBS	2x4 SP 2400F 2.0E			at 0-6-0 oc.			0-9-	0-9-12 from the left end to 14-3-0 to connect truss(es)								
OTHERS	2x4 SP 2400F 2.0E		ds connected as	s follows: 2	2x4 - 2 rows		F20	4 (1 ply	2x4 S	P) to front face of	bottom chord.					
BRACING				staggered at	t 0-5-0 oc.				14) Use	Simpso	on Stro	ng-Tie HTU26 (1	0-10d Girder,			
TOP CHORD	Structural wood she	eathing directly applied of	or	Attack TO w	cted as follows: 2		at 0-9-0 oc.	tor	14-	10dx1 1/	2 Irus	s, Single Ply Gird	ter) or equivalent			
	5-3-0 oc purlins, ex	cept end verticals.		Allach TC W	Attach IC W/1/2" diam. boits (ASIM A-307) in the center spaced at 2-0-0 oc max, starting at 9-3-8 from the line of the member with report truncation of 4.0.0 oc											
BOT CHORD	Rigid ceiling directly	/ 1/2" diam bolt	ς (ΔSTM Δ	-307) in the		bac	k face o	f ton c	hord	504 (1 piy 2x4 SP) to						
	bracing.				e member w/was	shers at 4-0	0-0 oc.		15) Fill	all nail h	oles w	here hanger is in	contact with lumber			
REACTIONS	(lb/size) 10=6616/	/0-3-8 (min 0-1-8)	2)	All loads are	considered equ	allv applie	d to all plies.		16) WA	RNING:	The fo	ollowing hangers	are manually applied			
	17=5930/	/0-3-8. (min. 0-1-8)	,	except if not	ed as front (F) o	r back (B)	face in the L	OAD	but	fail due	to geo	metric considera	tions: THA422 on			
	Max Grav 10=6638		CASE(S) se	ction. Ply to ply	connectior	ns have been	1	fron	t face at	0-9-1	2 from the left en	d, THA422 on front				
FORCES	(lb) - Max, Comp./N	lax. Ten All forces 250)	provided to distribute only loads noted as (F) or (B), face at 2-6-4 from the left end, THA422 on front fa												
	(lb) or less except w	vhen shown.		unless other	wise indicated.				4-9-	12 from	the le	ft end, THA422 o	n front face at 6-3-0			
TOP CHORD	1-17=-537/71, 9-10	=-793/0, 1-2=-658/0,	3)	Unbalanced	floor live loads l	have been	considered	for	fron	If the set of the set						
	2-25=-14937/0, 3-2	5=-14937/0,		this design.					leπ		A422 (on front face at 1	J-3-0 from the left			
	3-26=-23828/0, 4-2	6=-23828/0,	4)	All plates are	e MT20 plates u	nless othe	rwise indicat	ed.	THA422 on front face at 14-3-0 from the left end							
	4-5=-23828/0, 5-27	=-27600/0,	5)	All plates are 5x5 M I 20 unless otherwise indicated.												
	27-28=-27600/0, 6-2	28=-27600/0,	0)	11%		1 Joint 12 -	1170, joint 4	-		ASE(S	or Liv	iuaiu o (bolonood): Lur	mbor Increase-1 00			
	6-29=-25811/0, 29-3	30=-25811/0,	7)	Concentrate	d loads from lav	out are no	t present in l	oad	I) De	au + riu	200 LIV	00	inder increase - 1.00,			
	7-30=-25811/0, 7-3	1 = -17588/0, 2 = 670/0 = 0.22 = 670/0	• • •	Case(s): #101 1st Moving Office Safe Load: #201 2nd Lipiform Loads (Ib/#)												
	17-18=0/8531 18-1	2079/0, 9-32079/0 10-0/8531 16-10-0/853	1	Moving Offic	e Safe Load; #3	801 3rd Mo	ving Office S	Safe		Vert 10	.17=-1	0 1-27=-100 9-2	27=-280			
BOT CHOILD	16-20=0/19555 15-	-20=0/19555	1,	Load; #401	4th Moving Offic	e Safe Loa	ad; #501 5th		Co	ncentra	ted I o	ads (lb)				
	15-21=0/25972, 14-	-21=0/25972.		Moving Offic	ce Safe Load; #6	601 6th Mo	ving Office S	Safe		Vert: 14	=-987.	6=-337, 18=-989), 19=-987, 20=-987,			
	14-22=0/27452, 13-	-22=0/27452,		Load; #701	7th Moving Offic	e Safe Loa	ad; #801 8th		:	21=-987	, 22=-	987, 23=-987, 24	=-987, 30=-337,			
	12-13=0/22538, 12-	-23=0/22538,		Moving Offic	ce Safe Load; #9	01 9th Mo	ving Office S	afe	:	31=-337	, 32=-	340	, ,			
	11-23=0/22538, 11-	24=0/10780,		Load; #1001	10th Moving Of	ffice Safe I	Load; #1101	11th								
	10-24=0/10780				ce Sale Load; #1	201 12th i ffice Sefe I		e Sale								
WEBS	2-17=-9053/0, 2-16	=0/7819, 3-16=-5638/0,	0)	This trues is	designed in sec		_0au.									
	3-15=0/5216, 5-15=-2788/0, 5-14=-562/2251				Residential Co	de section	s R502 11 1	and								
	6-14=-1587/576, 6-	13 = -2003/267, 11 = 6042/0 = 9.11 = 0/924	0	R802.10.2 a	ind referenced s	tandard AN	NSI/TPI 1.	unu								
	1-13=-220/3990, 1- 8-10=-11/72/0	110042/0, 0-11=0/831	^{0,} 9)	Load case(s) 1 has/have be	en modifie	d. Building									
NOTES	0-10114/2/0		- /	designer mu	st review loads	to verify th	at they are c	orrect								
NOTES				for the inten	ded use of this t	russ.	,									
			10)) This truss ha	as been designe	d to carry	a concentrat	ed								
				load of 200	0.0lb over a spa	ce 2-6-0 so	quare, anywł	nere								
				on the top cl	hord.											

 11) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d

(0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	
22040108	F207	Floor	1	1	Job Reference (optional)

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				12-7-0
	3-11-0	, 5-3-8 6-3-8 7-3-8	12-5-4	, 16-0-0
1	3-11-0	1-4-8 1-0-0 1-0-0	5-1-12	3-5-0
				0-1-12

Scale = 1:43.9

Loa TCI TCI	i ding _L DL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.18 0.15	DEFL Vert(LL) Vert(CT)	in -0.05 -0.06	(loc) 15-16 15-16	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCI	L DL	0.0 5.0	Rep Stress Incr Code	IRC2018/TPI2014	WB Matrix-SH	0.45	Horz(CT)	0.01	12	n/a	n/a	Weight: 125 lb	FT = 20%F, 11%E
LUI TOI BO WE OTI	MBER P CHORD I CHORD BS HERS	2x4 SP No.2(flat) 2x4 SP 2400F 2.0Er 2x4 SP No.3(flat) 2x4 SP No.3(flat)	(flat)										
BR/ TOP	ACING P CHORD	 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. 											
BO	T CHORD	HORD Rigid ceiling directly applied or 6-0-0 oc bracing.											
RE	ACTIONS (Ib/size) 12=1105/0-3-8, (min. 0-1-8), 19=621/0-3-8, (min. 0-1-8) Max Grav 12=1105 (LC 1), 19=659 (LC 3)												
FOF	RCES	(lb) - Max. Comp./Max. Ten All forces 250											
TOF	CHORD	(ID) or less except w 2-3=-1388/0, 3-4=-2 5-6=-1726/0, 6-7=-6	2088/0, 4-5=-2088/0, 316/403, 7-8=0/654										
BO	r CHORD	18-19=0/927, 17-18 15-16=0/2088, 14-1 13-14=-164/1347, 1	=0/1880, 16-17=0/188 5=0/2088, 2-13=-654/0	0,									
WE	BS	7-12=-775/0, 2-19=- 3-18=-610/0, 3-16=- 6-14=0/555, 6-13=-\$ 8-12=-524/0	-1081/0, 2-18=0/573, 96/460, 5-14=-677/0, 959/0, 7-13=0/945,										
NO	TES												
1)	Unbalance this design	ed floor live loads hav 1.	e been considered for										
2) 3)	All plates are 3x6 MT20 unless otherwise indicated. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10.2 and referenced standard ANS//TPL 1												
4)	 Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means 												
5)	CAUTION, Do not erect truss backwards.												

Job	Truss	Truss Type	Qty	Ply	
22040108	F208	Floor	1	1	Job Reference (optional)

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Scale = 1:45.6

Plate Offsets (X, Y): [7:0-3-0,Edge], [9:0-3-0,Edge], [12:0-3-0,Edge], [20:0-1-8,0-0-8]

Loa	ading	(psf)	Spacing		2-0-0	CSI	0.07	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
		40.0			1.00	RC	0.27	Vert(LL)	-0.05	16 19	~999	240	IVI 1 20	244/190
BC		0.0	Ren Stress Incr		VES	WB	0.30	Horz(CT)	0.00	10-10	- 333 n/a	240 n/a		
BC	DL	5.0	Code	IRC20)18/TPI2014	Matrix-SH	0.40	11012(01)	0.01	12	n/a	n,a	Weight: 125 lb	FT = 20%F, 11%E
LUI	MBER			6)	Recommend	l 2x6 strongba	icks, on edge	e, spaced at						
TO	P CHORD	2x4 SP No.2(flat)			10-00-00 oc	and fastened	to each truss	with 3-10d						
BO	T CHORD	2x4 SP No.2(flat)			(0.131" X 3") nails. Strong	backs to be	attached to v	walls					
WE	BS	2x4 SP No.3(flat)		7)	at their outer	r ends or restra	ained by othe	er means.						
ΟΤΙ	HERS	2x4 SP No.3(flat)		()	CAUTION, L		uss backward	JS.						
BR	ACING			LO	AD CASE(S)	Standard								
TOI	P CHORD	Structural wood she 6-0-0 oc purlins, ex	eathing directly applied accept end verticals.	or										
BO	T CHORD	Rigid ceiling directly	applied or 10-0-0 oc											
		bracing, Except:												
		6-0-0 oc bracing: 12	2-13,11-12.											
RE/	ACTIONS	All bearings 3-8-8. ex	cept 19=0-3-8											
	(lb) -	Max Uplift All uplift 1	00 (lb) or less at joint(s)										
	. ,	11 except	: 10=-120 (LC 1)											
		Max Grav All reaction	ons 250 (lb) or less at jo	oint										
		(s) 10, 11	except 12=1309 (LC 1),										
		19=577 (l	_C 1)											
FOI	RCES	(lb) - Max. Comp./M	ax. Ten All forces 250)										
		(lb) or less except w	hen shown.											
TOF	P CHORD	2-3=-1173/0, 3-4=-1	546/0, 4-5=-1546/0,											
		5-6=-980/0, 6-7=0/3	56, 7-8=0/1166											
BO	I CHURD	18-19=0/805, 17-18	=0/1532, 10-17=0/1532	<u>,</u>										
		12-13=1166/0 11-1	0-0/1040, 10-14-0/400),										
WE	BS	7-12=-829/0 2-19=-	939/0 2-18=0/459											
	50	3-18=-444/0, 5-14=-	·690/0, 6-14=0/639.											
		6-13=-1018/0, 7-13=	=0/1004, 8-12=-743/0,											
		8-11=0/428, 9-11=-3	801/0											
NO	TES													
1)	All plates a	are 3x6 MT20 unless	otherwise indicated.											
2)	Gable stuc	ls spaced at 1-4-0 oc												
3)	Provide me	echanical connection	(by others) of truss to											
	bearing pla	ate capable of withsta	inding 41 lb uplift at joir	nt										
4)	11. One U2 E/	Cimmoon Strong Tio	aannaatara											
4)		ded to connect truce	to bearing walls due to											
	LIPI IFT at	it(s) 10 This connect	tion is for unlift only and	1										
	does not c	onsider lateral forces		•										
5)	This truss	is designed in accord	ance with the 2018											
,	Internation	al Residential Code s	sections R502.11.1 and											
	R802.10.2	and referenced stand	dard ANSI/TPI 1.											

Job	Truss	Truss Type	Qty	Ply		
22040108	F209	Floor Supported Gable	1	1	Job Reference (optional)	
Carter Components, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:41				r 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:41	Page: 1	

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Scale = 1:26.4

Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.08	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	1.00 YES IRC2018/TPI2014	WB Matrix-R	0.02	Horiz(TL)	n/a n/a	-	n/a n/a	999 n/a	Weight: 55 lb	FT = 20%F, 11%E
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE	 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 	eathing directly applie ccept end verticals. y applied or 10-0-0 oc	ed or c									
REACTIONS (lb)	 All bearings 12-7-0. Max Grav All reaction (s) 12, 13 20, 21, 22 	ons 250 (lb) or less at 8, 14, 15, 16, 17, 18, 1 2	t joint 19,									
FORCES	(lb) - Max. Comp./M (lb) or less except w	lax. Ten All forces 2 vhen shown.	250									
NOTES 1) All plates 2) Gable red 3) Truss to l braced ad	are 1.5x3 MT20 unles quires continuous botto be fully sheathed from painst lateral movement	ss otherwise indicated om chord bearing. one face or securely nt (i.e. diagonal web)	d.									

- 4) Gable studs spaced at 1-4-0 oc.
 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.7) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	
22040108	F210	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:22.7

Plate Offsets (X, Y): [18:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R		- -					Weight: 45 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	athing directly applie	d or									
	6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	/ applied or 10-0-0 oc										
	bracing.											
REACTIONS	All bearings 10-0-15.											
(lb) -	Max Grav All reactio	ons 250 (lb) or less at	joint									
. ,	(s) 10, 11	, 12, 13, 14, 15, 16, 1	7,									
	18											
FORCES	(lb) - Max. Comp./M	ax. Ten All forces 2 when shown	50									
NOTES	() 61 1000 0700001 1											
1) All plates a	are 1.5x3 MT20 unles	s otherwise indicated										
 Gable regulation 	uires continuous botto	om chord bearing.	•									
 Truss to be 	e fully sheathed from	one face or securely										
braced aga	ainst lateral movemer	nt (i.e. diagonal web).										
4) Gable stud	ls spaced at 1-4-0 oc											
5) This truss	is designed in accord	ance with the 2018										
Internation	International Residential Code sections R502.11.1 and											
R802.10.2	and referenced stand	dard ANSI/TPI 1.										
Recomment	nd 2x6 strongbacks, o	on edge, spaced at										
10-00-00 c	oc and fastened to ea	ch truss with 3-10d										
(0.131" X 3	3") nails. Strongback	s to be attached to wa	alls									
at their out	er ends or restrained	by other means.										

Job	Truss	Truss Type	Qty	Ply	
22040108	F211	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:24.8

Plate Offsets (X, Y): [18:Edge,0-1-8]

Loa	ding	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCL	_L	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TC	DL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCI	LL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCI	3CDL 5.0 Code IRC2018/TPI2014 Matrix-R Weight: 45 lb FT = 20%F, 11%								FT = 20%F, 11%E				
		· · ·		-									-
TOF		2x4 SP No 2(flat)											
BO	TCHORD	2x4 SP No 2(flat)											
WF	BS	2x4 SP No 3(flat)											
OTH	HERS	2x4 SP No.3(flat)											
RP/													
TOF		Structural wood she	athing directly applie	d or									
	enera	6-0-0 oc purlins, ex	cept end verticals.										
BO	T CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;									
		bracing.											
RE/	ACTIONS	All bearings 10-0-15.											
	(lb) -	Max Grav All reactio	ons 250 (lb) or less at	joint									
	()	(s) 10, 11	, 12, 13, 14, 15, 16, 1	7,									
		18											
FOF	RCES	(lb) - Max. Comp./M	ax. Ten All forces 2	250									
		(lb) or less except w	hen shown.										
NO	TES												
1)	All plates a	are 1.5x3 MT20 unles	s otherwise indicated	1.									
2)	Gable requ	ires continuous botto	om chord bearing.										
3)	Truss to be	e fully sheathed from	one face or securely										
	braced against lateral movement (i.e. diagonal web).												
4)	Gable studs spaced at 1-4-0 oc.												
5)	This truss is designed in accordance with the 2018												
	International Residential Code sections R502.11.1 and												
	R802.10.2	and referenced stand	dard ANSI/TPI 1.										
6)	Recommend 2x6 strongbacks, on edge, spaced at												
	10-00-00 oc and fastened to each truss with 3-10d												

- (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 7) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	
22040108	F212	Floor	4	1	Job Reference (optional)

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0-4-0				
	3-0-4	4-0-4 5-0-4	8-0-9	l
11	2-8-4	1-0-01-0-0	3-0-4	1
0-4-0				

Scale = 1:48.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.04	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.05	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/1PI2014	Matrix-SH							Weight: 43 lb	FI = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2D 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
BRACING	2,1101 110.0(1101)											
TOP CHORD	Structural wood she 6-0-0 oc purlins. ex	eathing directly applied	or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc										
REACTIONS	(lb/size) 1=414/0-3 6=408/0-3	3-8, (min. 0-1-8), 3-8, (min. 0-1-8)										
FORCES	(lb) - Max. Comp./M	ax. Ten All forces 250	D									
	(lb) or less except w	hen shown.										
TOP CHORD	6-12=-405/0, 5-12=- 2-3=-733/0, 3-4=-73	404/0, 1-2=-514/0, 3/0, 4-5=-425/0										
BOT CHORD	9-10=0/511, 8-9=0/7	733, 7-8=0/733										
WEBS	2-10=-324/0, 1-10=0	J/593, 2-9=0/429, 02										
NOTES	4-7-030/0, 0-7-0/4	-52										
1) Unbalance this design	ed floor live loads hav	e been considered for										
2) This truss Internation	is designed in accord al Residential Code s	ance with the 2018 sections R502.11.1 and	I									
R802.10.2	and referenced stand	dard ANSI/TPI 1.										
3) Recommendation (10,00,00,00,00,00,00,00,00,00,00,00,00,0	nd 2x6 strongbacks, o	on edge, spaced at										
(0 131" X 3	10-00-00 oc and tastened to each truss with 3-100											
at their out	router ends or restrained by other means.											
4) Gap between inside of top chord bearing and first												
diagonal o	Jiagonal or vertical web shall not exceed 0.500in.											
5) CAUTION,) CAUTION, Do not erect truss backwards.											
LOAD CASE(S	Standard											

Job	Truss	Truss Type	Qty	Ply	
22040108	F213	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:21.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 35 lb	FT = 20%F, 11%E	
	_										-		

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

bracing. **REACTIONS** All bearings 7-9-1

(lb) ·	· Max Grav	All reactions 250 (lb) or less at joint
		(s) 8, 9, 10, 11, 12, 13, 14
FORCES	(lb) - Max	. Comp./Max. Ten All forces 250

(lb) or less except when shown.

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4)
- Gable study spaced at 14-0 oc. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 5) R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	
22040108	F214	Floor Girder	1	1	Job Reference (optional)

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7-6-0 7-6-0

3x6= 1.5x3=

3x5 =

Scale = 1:34.7

			I					1					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.78	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.07	7-8	>999	240			
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.02	6	n/a	n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E	
		•		•									

LOWIDER	
TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
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	(lb/size) 6=1205/0-3-8, (min. 0-1-8), 9=858/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.
TOP CHORD	2-11=-2040/0, 3-11=-2040/0, 3-12=-1979/0,
	4-12=-1979/0
BOT CHORD	8-9=0/1486, 7-8=0/2554, 6-7=0/1371
WEBS	2-9=-1715/0, 2-8=0/656, 3-8=-609/0,
	3-7=-681/0, 4-7=0/720, 4-6=-1848/0

NOTES

- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 2) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)
 - Vert: 6-9=-10, 1-5=-100

 - Concentrated Loads (lb) Vert: 3=-314, 4=-330, 11=-314, 12=-314

Job	Truss	Truss Type	Qty	Ply	
22040108	F215	Floor Girder	1	1	Job Reference (optional)
arter Components, Sanfo	ord, NC, user		Run: 8.53 S Mar 28 2022 Prin ID:7N	t: 8.530 S M IGofDN1eQ	ar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:42 Page: 1Qh82tEnR6uMyl91K-K?ojwlgVsYox1v7BJB6So8VYOBwoSzcfui45uHyl3Xrr
				6-9	
			THA4	22	
		F1-8	THA422		
			THA422	ai	
		3x6 II		THA422	
		1.5x3=	6x8=	8x10=	
					1-2-0
		4×6=	5 3x5=	3x5=	
Scale = 1:43.1			<u>6-0-9</u> 6-0-9		

Loa TCI TCI	ading LL DL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.92 0.82	DEFL Vert(LL) Vert(CT)	in -0.03 -0.04	(loc) 6-7 6-7	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BC	LL DL	0.0 5.0	Rep Stress Incr Code	NO IRC2018/TPI2014	WB Matrix-P	0.78	Horz(CT)	0.02	5	n/a	n/a	Weight: 41 lb	FT = 20%F, 11%E
LUI TOI BO WE OTI BR TOI BO	MBER P CHORD T CHORD BS HERS ACING P CHORD T CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	athing directly applied cept end verticals. applied or 10-0-0 oc	LOAD CASE(S 1) Dead + FI Plate Incre Uniform L Vert: 5- Concentra or Vert: 4= 10=-110) Standard por Live (balance sase=1.00 bads (lb/ft) 3=-10, 1-4=-100 ted Loads (lb) -1068 (B), 3=-10 9 (F=-90, B=-10	ed): Lumber 113 (F=6, B= 119)	- Increase=1 =-1019),	.00,					
RE	ACTIONS ((lb/size) 5=2451/0- 8=1371/0-	3-1, (min. 0-1-8), 3-8, (min. 0-1-8)										
FOI	RCES	(lb) - Max. Comp./Ma (lb) or less except with 4-5=-2444/0 2-10=-1	0										
3-4=-919/0 BOT CHORD 7-8=0/2083, 6-7=0/2618 WEBS 2-8=-2568/0, 2-7=-36/360, 3-7=-320/82,													
		3-6=-2158/0, 4-6=0/	1628										
NU	IES	- 											
1)	this design.	d floor live loads have	e been considered for										
2)	This truss is Internationa	s designed in accorda al Residential Code s	ance with the 2018 ections R502.11.1 and	t									
3)	R802.10.2 Recommer 10-00-00 o (0.131" X 3 at their oute	10.2 and referenced standard ANSI/TPI 1. nmend 2x6 strongbacks, on edge, spaced at -00 oc and fastened to each truss with 3-10d " X 3") nails. Strongbacks to be attached to walls is outer endes or referenced by other means											
4) 5)	CAUTION, Use Simps Truss) or e connect tru chord	TION, Do not erect truss backwards. Simpson Strong-Tie THA422 (6-16d Girder, 6-10d s) or equivalent at 2-1-12 from the left end to tect truss(es) F216 (1 ply 2x4 SP) to front face of top											
6)	Use Simps Truss) or e 2-1-12 from F203 (1 ply	on Strong-Tie THA42 quivalent spaced at 2 n the left end to 5-11- v 2x4 SP) to back face	d at										
7) 8)	Fill all nail h WARNING but fail due back face a	piy 2x4 SP) to back face of top chord. ail holes where hanger is in contact with lumber. NG: The following hangers are manually applied due to geometric considerations: THA422 on ce at 5-11-1 from the left end											
9)	In the LOA of the truss	D CASE(S) section, lo are noted as front (F	pads applied to the fac) or back (B).	ce									

Job	Truss	Truss Type	Qty	Ply	
22040108	F216	Floor	1	1	Job Reference (optional)

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Scale = 1:38.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 4=190/ Mechanical, (min. 0-1-8), 6=184/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
NOTES	
1) Refer to g	irder(s) for truss to truss connections.
2) This truss	is designed in accordance with the 2018

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

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply		
22040108	F217	Floor Supported Gable	1	1	Job Reference (optional)	
Carter Components, Sanford, N	C, user	Run: 8.53 S Mar 28	3 2022 Print:	8.530 S Ma	r 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:42	Page: 1

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1.5x3 **п**





Scale = 1:29.9

Plate Offsets (X,	Y):	[5:Edge	,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	1	
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 19 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-8-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	All bearings 3-8-8.
(lb) -	Max Grav All reactions 250 (lb) or less at joint
	(s) 5, 6, 7, 8
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.

NOTES

- 1) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 2)
- Gable studs spaced at 1-4-0 oc. 3)
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 5) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.6) CAUTION, Do not erect truss backwards.