

9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	G1	Common Supported Gable	1	1	
					Job Reference (optional)
C&R Building St	upply, Autryville NC	8	8.430 s Jar	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:35 2024 Page 2
			ID:Ziqxzcr2	2ufjj07ldJ7	cQGdzZ6yX-7RK7SGdLn0SNS45Fc2UUJV5ajxEK7xpDxcyndNz2P1_

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=159, 14=119, 23=146, 15=132. 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.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\J	ohnson
28103	GR1	Common Girder	1	3		1)
C&R Building Supply,	, Autryville NC			20 2021		Wed Jun 26 14:17:36 2024 Page 1
	<u> </u>	<u>4-8-10</u> 9-1- 4-8-10 4-5-		14	18-3-8	JaE4DgR9m?jsjeliKTPsD3MAGhL8pz2P0z
	I.	4-8-10 4-5	-2 4-5-2	2	4-8-10	
			4x6			Scale = 1:54.6
	3x8 / 1 10 4x6		3 W5 W4 14 8 15 8x8 =	16	$3x6 \times 4$ $4$ $4$ $3x8 \times 5$ $7$ $7$ $17$ $18$ $6$ $4x6$	1-2-11
Plate Offsets (X,Y)	- [6:Edge,0-2-0], [7:0-3-8,0	0x0 — <u>4-8-10 9-1-</u> <u>4-8-10 4-5</u> -4-4], [8:0-4-0,0-4-8], [9:0-3-	-12 13-6- -2 4-5-2	14	+ 18-3-8 + 4-8-10	
LOADING (psf)	SPACING- 2-0			in (loc)		PLATES GRIP
TCLL 20.0 TCDL 10.0	Lumber DOL 1.	15 TC 0.23 15 BC 0.51	Vert(LL) -0.0 Vert(CT) -0.1	0 7-8		MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr N Code IRC2018/TPI20	IO WB 0.80 14 Matrix-MS	Horz(CT) 0.0 Wind(LL) 0.0	1 6		Weight: 429 lb FT = 20%
		1	BRACING- TOP CHORD BOT CHORD	exce	pt end verticals.	directly applied or 6-0-0 oc purlins, d or 10-0-0 oc bracing.
Max	ze) 10=6090/0-3-8 (min. Horz 10=237(LC 26) Uplift10=-520(LC 8), 6=-47	0-2-6), 6=5586/0-3-8 (min. /5(LC 8)	0-2-3)			
TOP CHORD 1-2: 1-10 BOT CHORD 10- 13- 7-10 WEBS 3-8:	=-6224 <sup>)</sup> 569, 2-3=-4563/513 0=-5118/463, 5-6=-4908/44 11=-256/905, 11-12=-256/9 14=-388/4516, 8-14=-388/4 6=-305/4301, 7-17=-61/638	905, 9-12=-256/905, 9-13=-3 1516, 8-15=-305/4301, 15-16 3, 17-18=-61/638, 6-18=-61/6 3, 4-7=-144/1858, 2-8=-1875	/543, 88/4516, 5=-305/4301, 638			
<ul> <li>Top chords connected Bottom chords co Webs connected</li> <li>2) All loads are cons section. Ply to ply</li> <li>3) Unbalanced roof I</li> <li>4) Wind: ASCE 7-16 eave=4ft; Cat. II; I exposed; Lumber</li> <li>5) This truss has be</li> <li>6) * This truss has b</li> </ul>	ected as follows: 2x4 - 1 ro nnected as follows: 2x6 - 2 as follows: 2x4 - 1 row at 0 sidered equally applied to a connections have been pr live loads have been consis ; Vult=140mph (3-second g Exp B; Enclosed; MWFRS DOL=1.60 plate grip DOL= en designed for a 10.0 psf een designed for a live loa bottom chord and any oth cal connection (by others) of 475.	Il plies, except if noted as fro ovided to distribute only load dered for this design. gust) Vasd=111mph; TCDL= (directional); cantilever left a =1.60 bottom chord live load nonco d of 20.0psf on the bottom cl	taggered at 0-9-0 oc ont (F) or back (B) fa is noted as (F) or (B 6.0psf; BCDL=6.0ps and right exposed ; e oncurrent with any of hord in all areas with	ce in the ), unless of; h=20 and vertion ther live a clear	s otherwise indicated. ft; B=45ft; L=24ft; cal left and right loads. ance greater than	

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	GR1	Common Girder	1	3	Job Reference (optional)
C&R Building Supply, A	utryville NC	8.4	30 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:36 2024 Page 2

age z ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-bduVgbezYJaE4DgR9m?jsjeliKTPsD3MAGhL8pz2P0z

## NOTES-

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1357 lb down and 125 lb up at 2-0-12, 1357 lb down and 125 lb up at 4-0-12, 1357 lb down and 125 lb up at 4-0-12, 1357 lb down and 125 lb up at 6-0-12, 1357 lb down and 125 lb up at 3-0-12, 1357 lb down and 125 lb up at 10-0-12, 1357 lb down and 125 lb up at 3-0-12, 135 down and 125 lb up at 12-0-12, and 1053 lb down and 98 lb up at 14-0-12, and 1053 lb down and 98 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

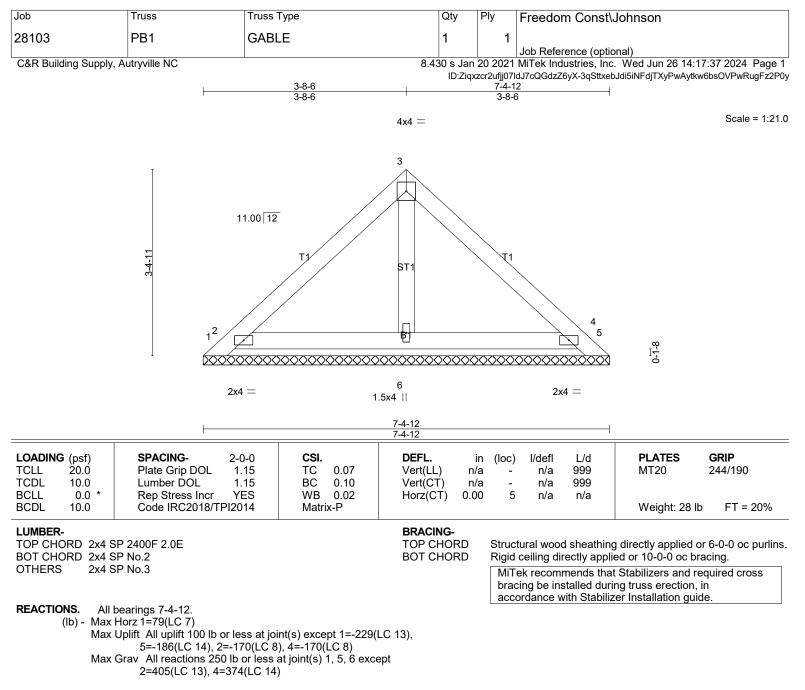
## LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 11=-1357(B) 12=-1357(B) 13=-1357(B) 14=-1357(B) 15=-1357(B) 16=-1357(B) 17=-1053(B) 18=-1053(B)



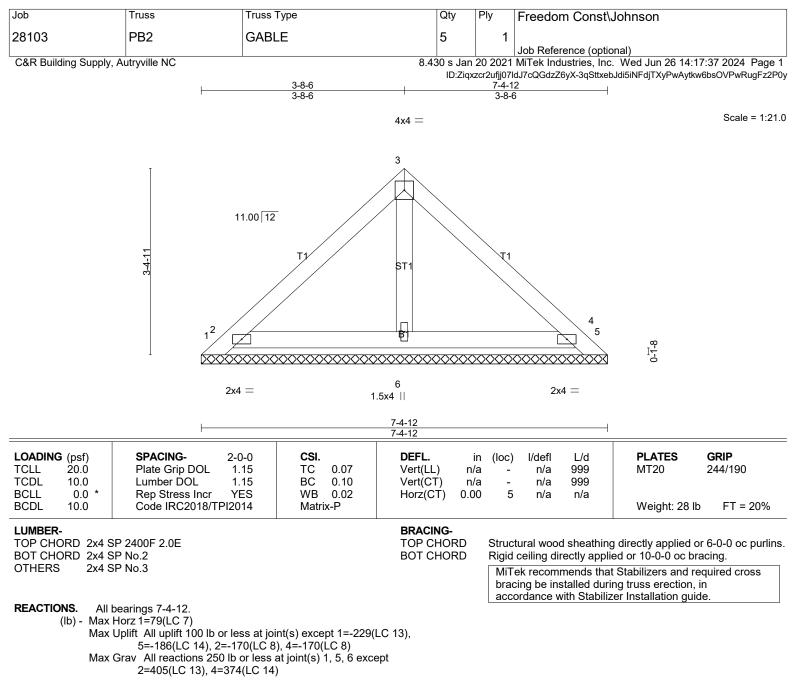
#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

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

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 1, 186 lb uplift at joint 5, 170 lb uplift at joint 2 and 170 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



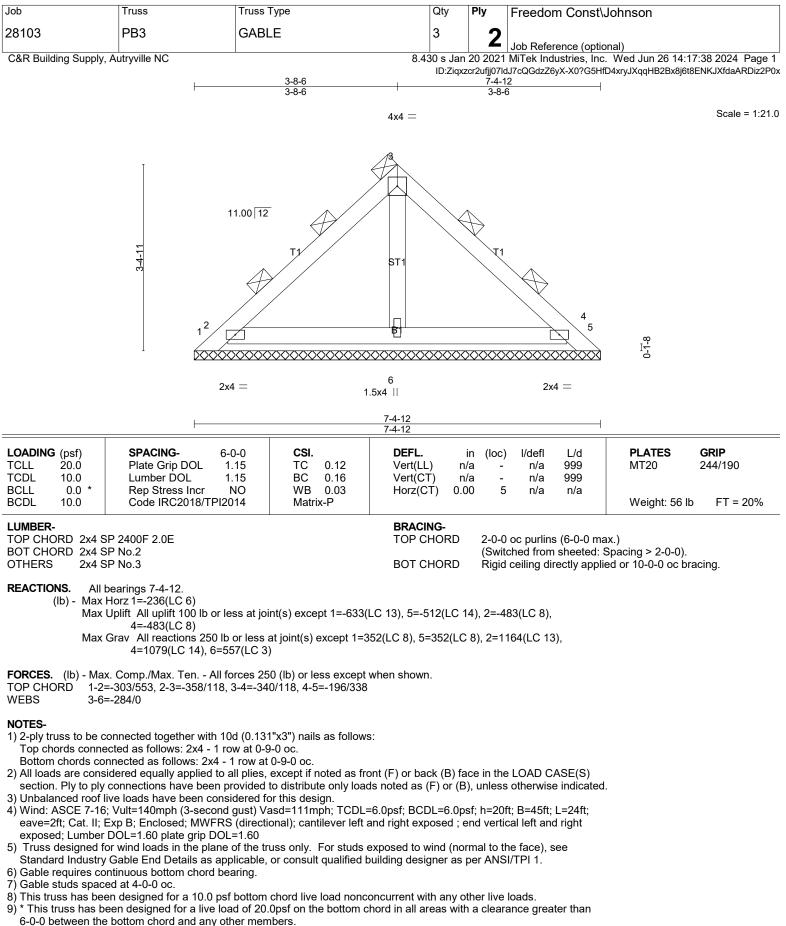
#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

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

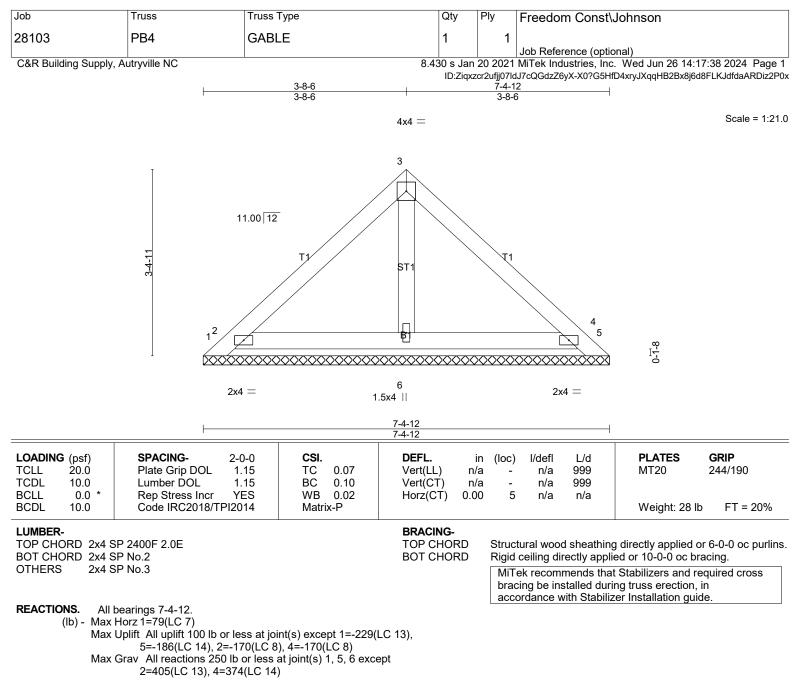
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 1, 186 lb uplift at joint 5, 170 lb uplift at joint 2 and 170 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint 1, 512 lb uplift at joint 5, 483 lb uplift at joint 2 and 483 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson			
28103	PB3	GABLE	3	2				
				-	Job Reference (optional)			
C&R Building Supply, A	Autryville NC	8.4	30 s Jan	20 202	21 MiTek Industries, Inc. Wed Jun 26 14:17:38 2024 Page 2			
ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-X0?G5HfD4xryJXqqHB2Bx8j6t8ENKJXfdaARDiz								

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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



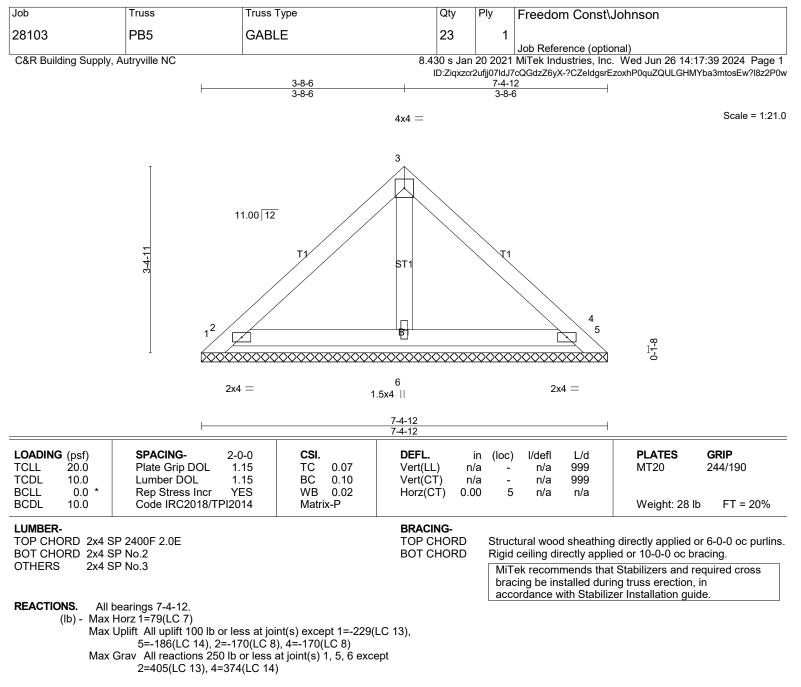
#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

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

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 1, 186 lb uplift at joint 5, 170 lb uplift at joint 2 and 170 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



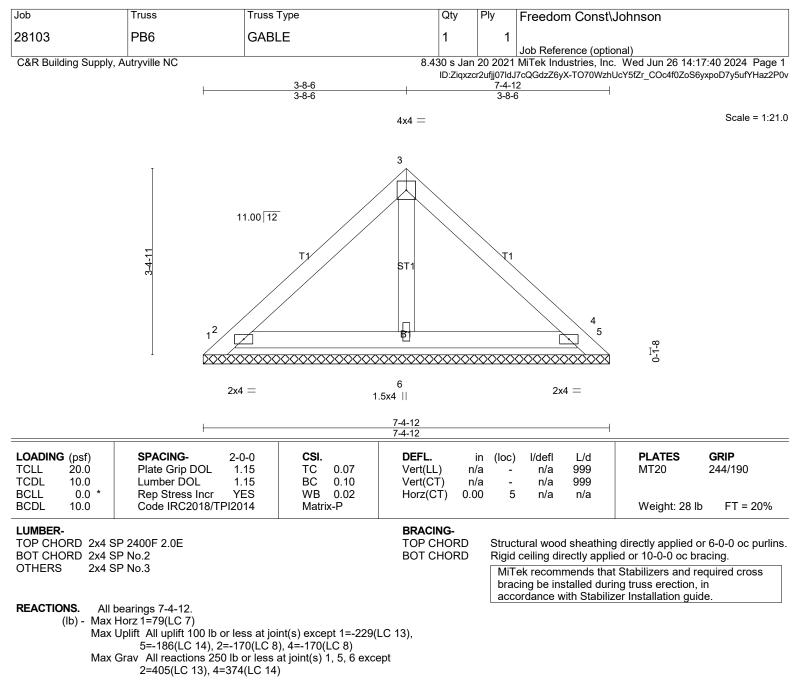
#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

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

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
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- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



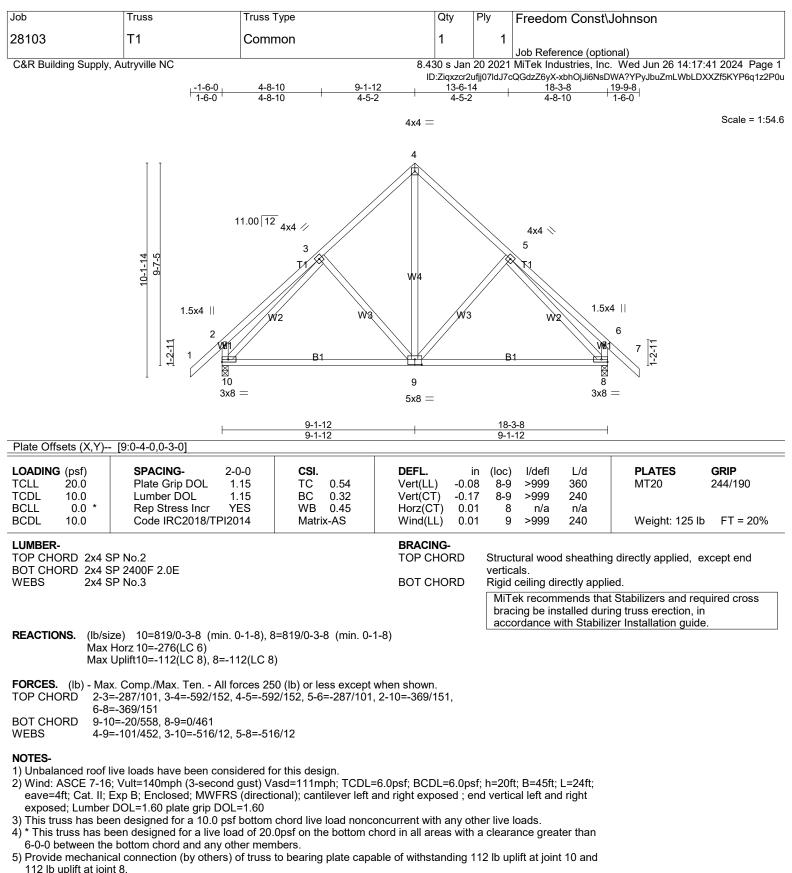
#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

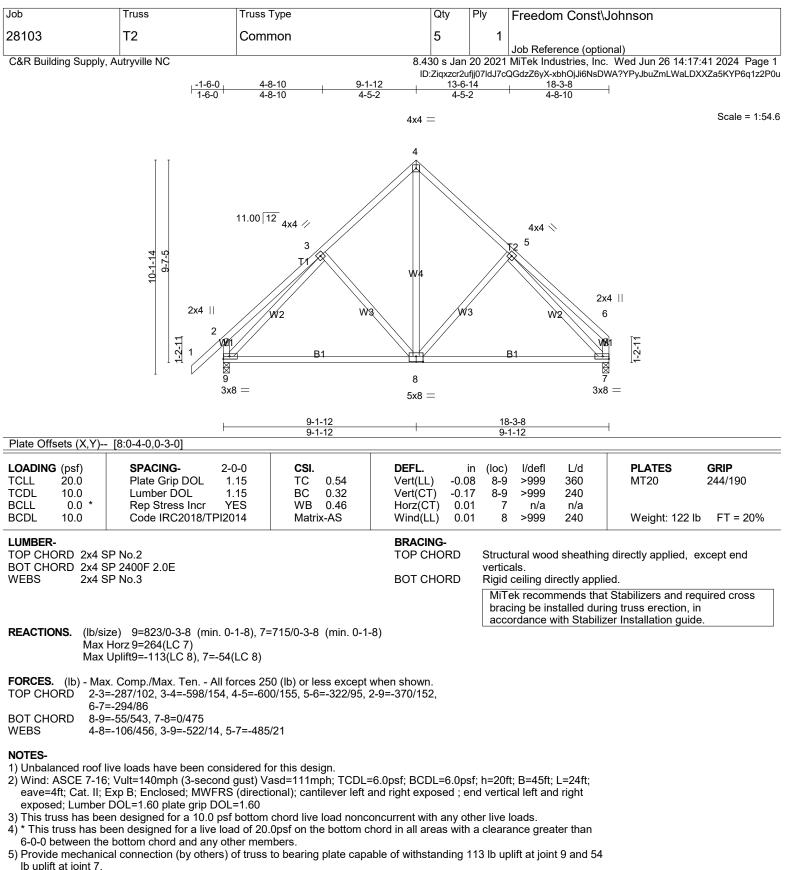
5) Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 1, 186 lb uplift at joint 5, 170 lb uplift at joint 2 and 170 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



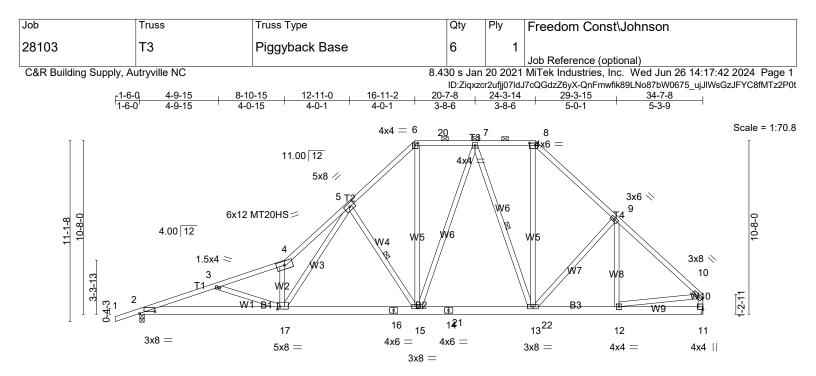
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



		8-10-15			16-11-2		24-3-14			9-3-15	34-7-8	
		8-10-15			8-0-3		7-4-12	40.0.4		5-0-1	5-3-9	
Plate Offse	ets (X,Y)	[2:0-11-4,0-1-6], [6:0	-2-4,0-1-12	, [8:0-4-4,	0-1-12], [1	1:Edge,0-3-8], [	17:0-1-	12,0-1-	12]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.20	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.41	15-17	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS	Wind(LL)	0.16	15-17	>999	240	Weight: 266 lb	FT = 20%
LUMBER-						BRACING	i-				-	
TOP CHO	RD 2x4 S	P 2400F 2.0E				TOP CHC	RD	Struct	ural woo	d sheathir	ng directly applied, e	except end
BOT CHO	RD 2x6 S	P No.1						vertica	ls, and	2-0-0 oc p	urlins (6-0-0 max.): 6	5-8.
WEBS	2x4 S	P No.3 *Except*				BOT CHC	RD	Rigid o	eiling d	irectly app	lied.	
	W3,V	/4: 2x4 SP No.2				WEBS		1 Row	at midp	ot	5-15, 7-13	
											at Stabilizers and rec ring truss erection, ir	

accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1471/0-3-8 (min. 0-1-12), 11=1377/Mechanical Max Horz 2=285(LC 7) Max Uplift2=-159(LC 8), 11=-105(LC 8)

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

- TOP CHORD
   2-3=-3714/318, 3-4=-3293/246, 4-5=-4330/436, 5-6=-1701/271, 6-20=-1220/239, 7-20=-1220/239, 7-8=-1026/229, 8-9=-1444/245, 9-10=-1579/161, 10-11=-1309/131

   BOT CHORD
   2-17=-270/3574, 16-17=-48/1832, 15-16=-48/1832, 15-21=0/1210, 14-21=0/1210, 14-22=0/1210, 13-22=0/1210, 12-13=-15/1091

   WEBS
   3-17=-462/112, 4-17=-2047/279, 5-17=-245/2785, 5-15=-1019/216,
  - EBS 3-17=-462/112, 4-17=-2047/279, 5-17=-245/2785, 5-15=-1019/216, 6-15=-102/894, 7-15=-7/275, 7-13=-478/80, 8-13=-70/710, 10-12=0/934

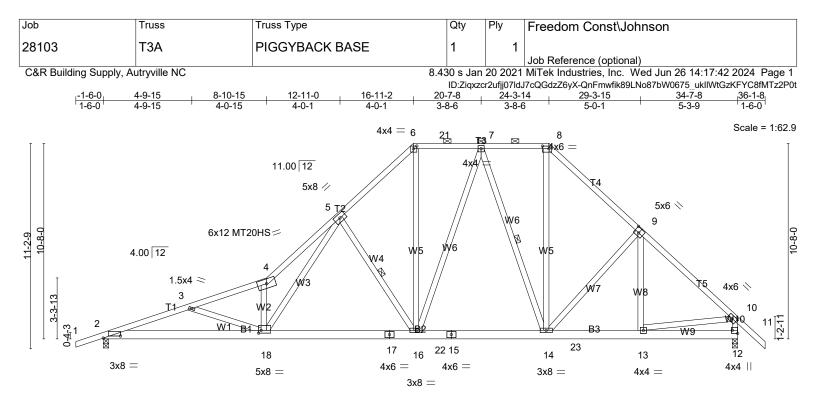
## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6)\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than
- 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2 and 105 lb uplift at joint 11.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson			
28103	Т3	Piggyback Base	6	1				
					Job Reference (optional)			
C&R Building Supply, A	utryville NC	8.4	30 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:42 2024 Page 2			
ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-QnFmwfik89LNo87bW0675_ujJIWsGzJFYC8fMT								

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
   10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied
- directly to the bottom chord. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



	8-10-15 8-10-15			16-11-2 8-0-3			24-3-14 7-4-12			29-3-15 5-0-1	<u>34-7-8</u> 5-3-9	
Plate Of	fsets (X,Y)	- [2:0-11-4,0-1-6], [6:0	-2-4,0-1-12	], [8:0-4-4,	0-1-12], [9	:0-3-0,0-3-0], [1	0:0-2-1	5,0-2-0]	, [12:Ed	ge,0-3-8],	[18:0-1-12,0-1-12]	
LOADIN	<b>G</b> (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.20	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.41	16-18	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matr	x-AS	Wind(LL)	0.16	16-18	>999	240	Weight: 269 lb	FT = 20%
LUMBEF	۶-					BRACING	-					
TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1					TOP CHO	RD				g directly applied, ex Irlins (6-0-0 max.): 6-		

2x4 SP No.3 \*Except\* WEBS W3,W4: 2x4 SP No.2

BOT CHORD WEBS

Rigid ceiling directly applied.

1 Row at midpt 5-16, 7-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1469/0-3-8 (min. 0-1-12), 12=1478/0-3-8 (min. 0-1-12) Max Horz 2=300(LC 7) Max Uplift2=-158(LC 8), 12=-162(LC 8)

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

- 2-3=-3706/315, 3-4=-3286/243, 4-5=-4321/431, 5-6=-1697/269, TOP CHORD 6-21=-1218/238, 7-21=-1218/238, 7-8=-1021/227, 8-9=-1435/240, 9-10=-1568/159, 10-12=-1411/190
- 2-18=-198/3588, 17-18=0/1847, 16-17=0/1847, 16-22=0/1225, 15-22=0/1225, BOT CHORD 15-23=0/1225, 14-23=0/1225, 13-14=0/1098 3-18=-462/113, 4-18=-2043/277, 5-18=-242/2780, 5-16=-1018/215, WEBS
  - 6-16=-100/892, 7-16=-8/277, 7-14=-478/80, 8-14=-65/704, 10-13=0/950

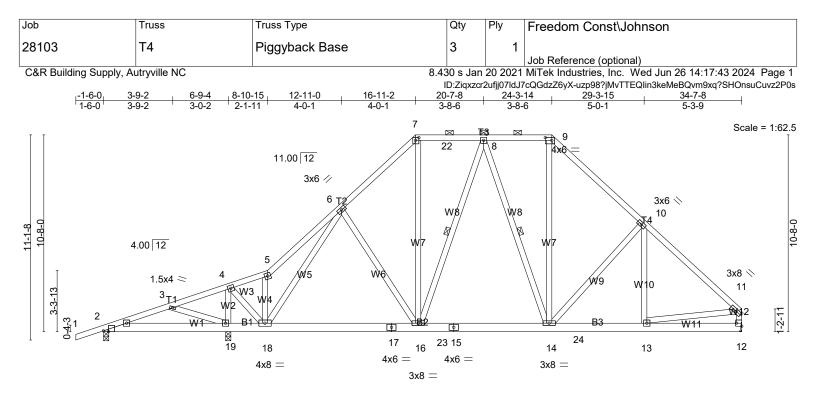
# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than
- 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2 and 162 Ib uplift at joint 12.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	ТЗА	PIGGYBACK BASE	1	1	
					Job Reference (optional)
C&R Building Supply, A	utryville NC	8.43	30 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:43 2024 Page 2
			ID:Ziqxzc	r2ufjj07ldJ	7cQGdzZ6yX-uzp98?jMvTTEQlin3keMeBQv29s6?QaOnsuCuvz2P0s

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

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



	6-9-4 6-9-4	8-10-15 2-1-11	<u>16-11-2</u> 8-0-3	24-3-14		29-3-15 5-0-1	34-7-8 5-3-9	—
Plate Offsets (X	,Y) [2:0-3-4,Edge], [7:	0-2-4,0-1-12],	[9:0-4-4,0-1-12], [12:E	Edge,0-3-8]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	* SPACING- Plate Grip DOI Lumber DOL Rep Stress Inc Code IRC2018	1.15 r YES	<b>CSI.</b> TC 0.36 BC 0.21 WB 0.57 Matrix-AS	Vert(LL) -0.05	(loc) l/defl 14-16 >999 14-16 >999 12 n/a 14 >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 271 lb	<b>GRIP</b> 244/190 FT = 20%
BOT CHORD 2	x4 SP 2400F 2.0E x6 SP No.1 x4 SP No.3			BRACING- TOP CHORD BOT CHORD WEBS		2-0-0 oc pui irectly applie	g directly applied, ex rlins (6-0-0 max.): 7- ed. 8-16, 8-14	
1	lb/size) 2=227/0-3-8 ( Лах Horz 2=285(LC 7) Лах Uplift2=-50(LC 4), 1 Лах Grav2=234(LC 19),	9=-137(LC 8),	12=-78(LC 8)	1-13), 12=1073/Mech	bracing be in accordance	stalled durin	Stabilizers and req ng truss erection, in er Installation guide	

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

 TOP CHORD
 3-4=-86/458, 4-5=-522/15, 5-6=-709/120, 6-7=-1012/209, 7-22=-706/193, 8-22=-706/193, 8-9=-751/202, 9-10=-1076/209, 10-11=-1211/128, 11-12=-1021/104

 BOT CHORD
 18-19=-430/120, 17-18=-49/837, 16-17=-49/837, 16-23=0/803, 15-23=0/803, 15-24=0/803, 13-14=0/816

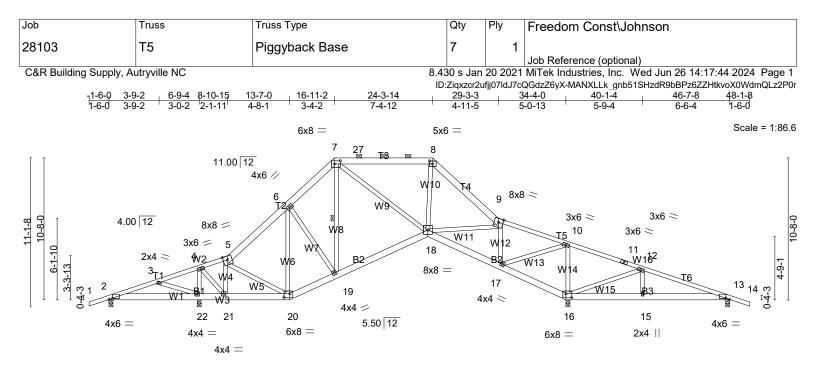
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2, 137 lb uplift at joint 19 and 78 lb uplift at joint 12. Continued on page 2

WEBS 3-19=-313/70, 4-19=-1293/144, 4-18=-88/1173, 5-18=-424/119, 6-18=-513/32, 7-16=-59/460, 9-14=-47/441, 10-14=-254/141, 11-13=0/681

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson					
28103	T4	Piggyback Base	3	1						
					Job Reference (optional)					
C&R Building Sup	pply, Autryville NC		8.430 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:43 2024 Page 2					
			ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-uzp98?jMvTTEQIin3keMeBQvm9xq?SHOnsuCuvz2P							

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
   10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied
- directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



	<u>6-9-4</u> 6-9-4	8-10-15	13-7-0	16-11-2		3-11-8		-3-3			5-12 40-1-4	46-7-8	—
Plate Offsets ()	6-9-4 (,Y) [2:0-3-4,0-0	- · · ·	4-8-1 5-8.0-3-01.			7-0-6 13:0-3-		3-11 16:0-5-		)-13 0-1 <sup>!</sup> ]. [20:0-5		6-6-4	·
`			<u> </u>		], [		.,		.,	, <u>[_</u> 0.0 (	.,		
LOADING (psf)		-	2-0-0	CSI.			DEFL.	in	( )	l/defl	L/d	PLATES	GRIP
TCLL 20.0	-		1.15	TC	0.23		Vert(LL)	-0.03	18	>999	360	MT20	244/190
TCDL 10.0			1.15	BC	0.15		Vert(CT)		18-19	>999	240		
BCLL 0.0 BCDL 10.0			YES	WB	0.56		Horz(CT)	0.05	16 19	n/a ⊳ooo	n/a 240	Mainht 220 lb	FT - 200/
BCDL 10.0		RC2018/TF	12014	Matri	x-A5		Wind(LL)	0.02	19	>999	240	Weight: 330 lb	FT = 20%
LUMBER-							BRACING	-					
TOP CHORD	2x4 SP 2400F 2.0	E *Except	*				TOP CHO	RD	Structu	ural woo	d sheathing	directly applied, ex	cept
	T2,T3,T4: 2x6 SP	No.1									ıs (6-0-0 ma		
BOT CHORD							BOT CHO	RD			irectly applie		
WEBS 2	2x4 SP No.3						WEBS			at midp		7-19	
												Stabilizers and rec	
												ng truss erection, in	
REACTIONS.	All bearings 0-3-	.8							acco	ruance	with Stabiliz	er Installation guide	
	Max Horz 2=-245(												
	Max Uplift All upli		or less at joi	int(s) 2, 13	except	16=-12	23(LC 8),						
	. 22=-10	9(LC 8)	,		•		( <i>//</i>						
	Max Grav All rea				2 ехсер	t 16=20	023(LC 1),						
	13=282	(LC 20), 2	2=1411(LC	; 1)									
	- Max. Comp./Max	v Ton /	Il forces 25	(lb) or le		ont who	n chown						
TOP CHORD	3-4=-25/499, 4-5												
	8-27=-804/94, 8-												
	12-13=0/306		,	,		,	,						
BOT CHORD	21-22=-395/91, 2	20-21=0/3	88, 19-20=	0/714, 18-	19=0/75	51, 17-′	18=0/410,						
	16-17=-1090/113	,	,										
WEBS	3-22=-311/70, 4-							1,					
	6-20=-370/0, 7-1												
	10-17=0/1342, 1	U-10=-118	59/113, 12-	10=-198/1	1, 12-1	0/282	<u> </u>						
NOTES-													

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

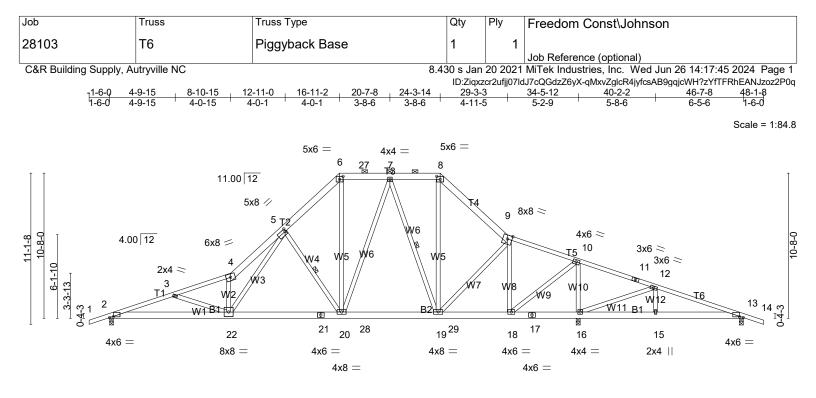
3) Provide adequate drainage to prevent water ponding.

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson					
28103	T5	Piggyback Base	7	1						
					Job Reference (optional)					
C&R Building Sup	pply, Autryville NC		8.430 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:44 2024 Page 2					
		ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-MANXLLk_gnb51SHzdR9bBPz6ZZHtkvoX0WdmQLz2F								

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 16=123, 22=109.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
   8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



H	8-10-15 8-10-15	<u>16-</u> 8-0			24-3-14 7-4-12		<u>29-3-3</u> 4-11-5	;	34-5-12 5-2-9	40-2-		
Plate Offsets (X,Y)-	- [2:0-3-4,0-0-11], [5:0-	-0-12,0-2-8]	, [6:0-3-0,	0-2-12],	[8:0-3-0,0	)-2-12], [	13:0-3-	4,0-0-1	1]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.25 0.50 0.98		<b>EFL.</b> ert(LL) ert(CT) orz(CT)	-0.17	(loc) 20-22 20-22 16	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2018/TF	PI2014	Matri	x-AS	V	/ind(LL)	0.13	20-22	>999	240	Weight: 350 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP 2400F 2.0E *Except* T2,T3,T4: 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3				Т В	RACING OP CHO OT CHO /EBS	RD	2-0-0 o Rigid o 1 Row	oc purlins ceiling dir at midpt	s (6-0-0 ma rectly applie	ed. 5-20, 7-19		
Max Max	REACTIONS. (Ib/size) 2=1313/0-3-8 (min. 0-1-9), 16=2463/0-3-8 (min. 0-2-15), 13=133/0-3-8 (min. 0-1-8) Max Horz 2=-245(LC 6) Max Uplift2=-146(LC 8), 16=-188(LC 8), 13=-101(LC 19) Max Grav 2=1313(LC 1), 16=2463(LC 1), 13=243(LC 20)											
$\begin{array}{llllllllllllllllllllllllllllllllllll$												

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

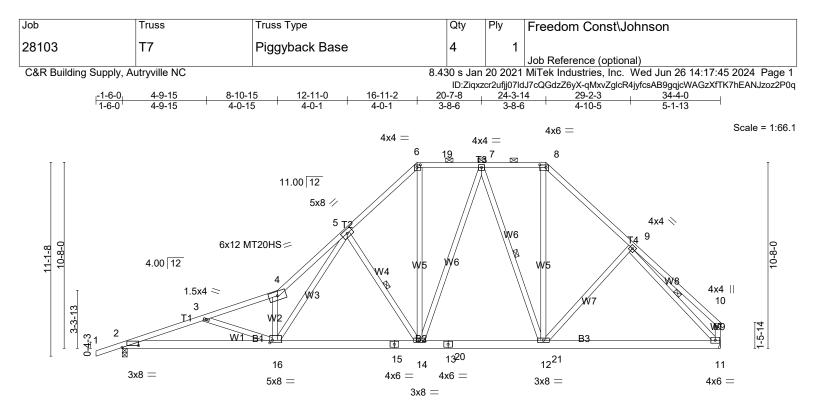
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	Т6	Piggyback Base	1	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC			8.430 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:45 2024 Page 2
	ID:Ziqxzcr2ufjl07ldJ7cQGdzZ6yX-qMxvZqlcR4jyfcsAB9qqjcWH?zYfTFRhEAt				

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=146, 16=188, 13=101.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
   8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



	8-10-15 8-10-15		-	6-11-2 8-0-3	+	24-3-14 7-4-12	•			34-4-0 10-0-2	1
Plate Offsets	(X,Y) [2:0-11-4,0-1-6], [6:	J-2-4,0-1-12	<u> , [8:0-4-4,0</u> ⊤	J-1-12], [16]	:0-1-12,0-1-12]						
LOADING (ps	f) SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	,	1.15	тс	0.68	Vert(LL)	-0.20	1 <b>4</b> -16	>999	360	MT20	244/190
TCDL 10.	0 Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.41	14-16	>999	240	MT20HS	187/143
BCLL 0.	0 * Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	11	n/a	n/a		
BCDL 10.	0 Code IRC2018/1	PI2014	Matri	x-AS	Wind(LL)	0.16	14-16	>999	240	Weight: 260 lb	FT = 20%
LUMBER-					BRACING	-				1	
TOP CHORD	2x4 SP 2400F 2.0E				TOP CHO	RD	Struct	ural woo	d sheath	ing directly applied, ex	cept end
BOT CHORD	2x6 SP No.1						vertica	ils, and 2	-0-0 oc	ourlins (6-0-0 max.): 6-	-8.

WEBS 2x4 SP No.3 \*Except\* W3,W4: 2x4 SP No.2

BOT CHORD WEBS

Rigid ceiling directly applied.

1 Row at midpt 5-14, 7-12, 9-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1459/0-3-8 (min. 0-1-12), 11=1366/Mechanical Max Horz 2=288(LC 7) Max Uplift2=-158(LC 8), 11=-104(LC 8)

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

- 2-3=-3678/314, 3-4=-3258/242, 4-5=-4285/431, 5-6=-1674/271, TOP CHORD 6-19=-1201/239, 7-19=-1201/239, 7-8=-1003/221, 8-9=-1410/233, 9-10=-411/115, 10-11=-369/100 BOT CHORD 2-16=-268/3540, 15-16=-48/1809, 14-15=-48/1809, 14-20=0/1188, 13-20=0/1188, 13-21=0/1188, 12-21=0/1188, 11-12=-31/1015 WEBS
  - 3-16=-462/113, 4-16=-2027/277, 5-16=-239/2765, 5-14=-1013/214, 6-14=-102/877, 7-14=-17/280, 7-12=-473/90, 8-12=-61/685, 9-11=-1264/77

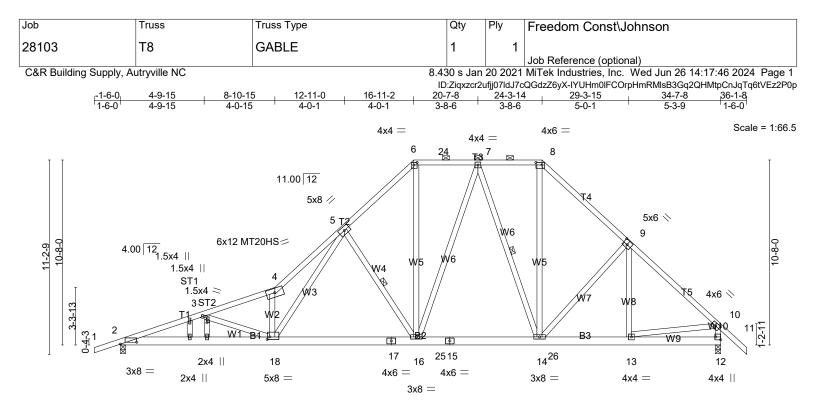
## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than
- 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 11=104.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	T7	Piggyback Base	4	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC			8.430 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:45 2024 Page 2
ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-qMxvZglcR4jyfcsAB9gqjcWAGzXfTK7hE					

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
   10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied
- directly to the bottom chord. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



	8-10-15 8-10-15	<u>16-11-2</u> 8-0-3	24-3-14 7-4-12	<u>29-3-15</u> 5-0-1	<u>34-7-8</u> 5-3-9
Plate Offsets (X,Y)	[2:0-11-4,0-1-6], [3:0-2-0,0-0-2]	, [6:0-2-4,0-1-12], [8:0-4-4	,0-1-12], [9:0-3-0,0-3-0	)], [10:0-2-15,0-2-0], [1	2:Edge,0-3-8], [18:0-1-12,0-1-12]
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.35 BC 0.57 WB 0.68 Matrix-AS	DEFL.         in         (lo           Vert(LL)         -0.20         16-7           Vert(CT)         -0.41         16-7           Horz(CT)         0.06         7           Wind(LL)         0.16         16-7	18 >999 360 18 >999 240 12 n/a n/a	PLATES         GRIP           MT20         244/190           MT20HS         187/143           Weight: 272 lb         FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x6 WEBS 2x4			ver	uctural wood sheathing ticals, and 2-0-0 oc pu id ceiling directly appli	

WEBS	2x4 SP No.3 *Except*
	W3,W4: 2x4 SP No.2
OTHERS	2x4 SP No.3

WEBS

1 Row at midpt 5-16, 7-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1469/0-3-8 (min. 0-1-12), 12=1478/0-3-8 (min. 0-1-12) Max Horz 2=300(LC 7) Max Uplift2=-158(LC 8), 12=-162(LC 8)

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

2-3=-3706/315, 3-4=-3286/243, 4-5=-4321/431, 5-6=-1697/269, TOP CHORD 6-24=-1218/238, 7-24=-1218/238, 7-8=-1021/227, 8-9=-1435/240, 9-10=-1568/159, 10-12=-1411/190 2-18=-198/3588, 17-18=0/1847, 16-17=0/1847, 16-25=0/1225, 15-25=0/1225, BOT CHORD 15-26=0/1225, 14-26=0/1225, 13-14=0/1098 3-18=-462/113, 4-18=-2043/277, 5-18=-242/2780, 5-16=-1018/215, WEBS

6-16=-100/892, 7-16=-8/277, 7-14=-478/80, 8-14=-65/704, 10-13=0/950

## NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Provide adequate drainage to prevent water ponding. 5) All plates are MT20 plates unless otherwise indicated.

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

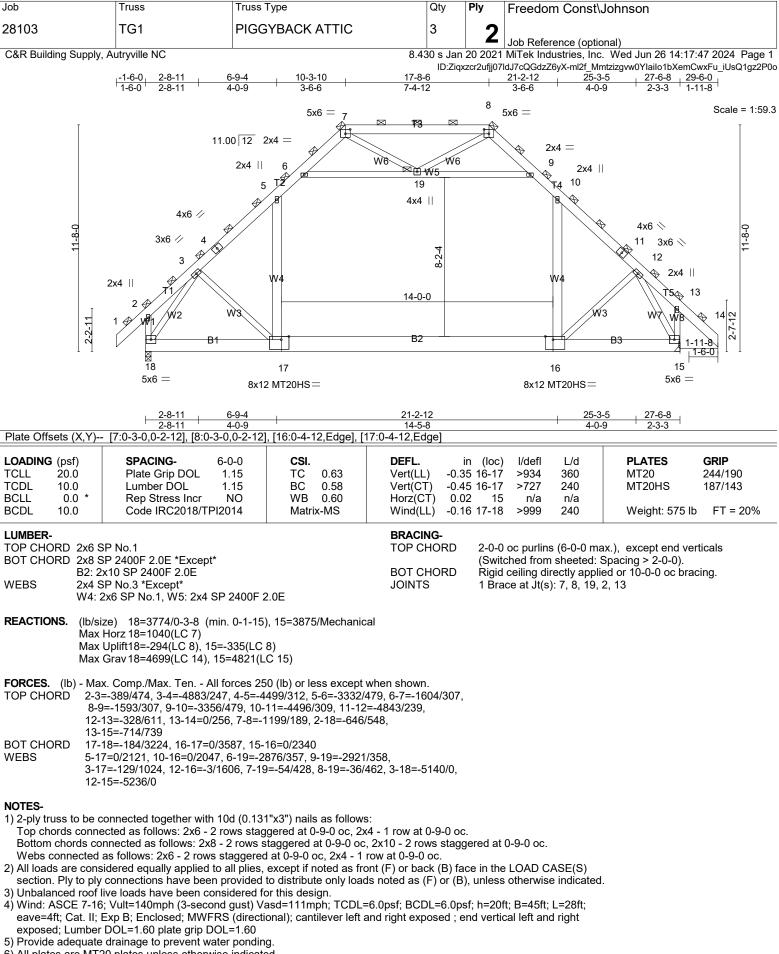
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson	
28103	Т8	GABLE	1	1		
					Job Reference (optional)	
C&R Building Supply, Autryville NC 8.430 s Jan 2				20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:46 2024 Page 2	
	ID:Ziqxzcr2ufij07ldJ7cQGdzZ6yX-IYUHm0IFCOrpHmRMlsB3Gq2QHMtpCnJqTq6t					

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 12=162.
  10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



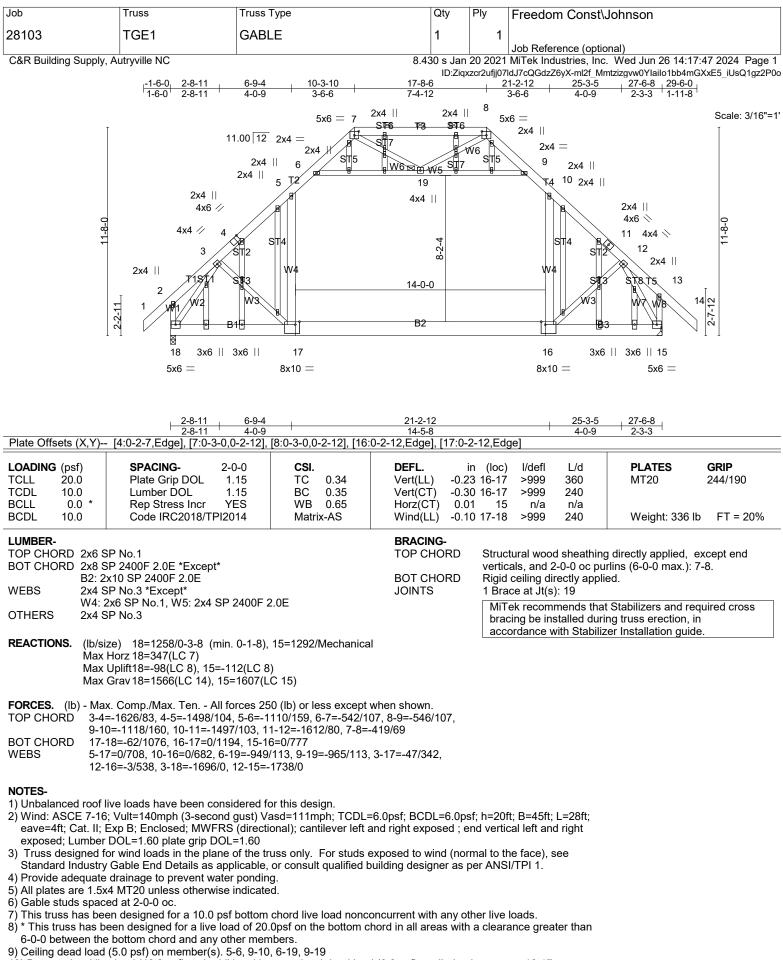
6) All plates are MT20 plates unless otherwise indicated.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	TG1	PIGGYBACK ATTIC	3	2	lak Deference (actional)
C&R Building Supply, A	utryville NC	8.43	l 30 s Jan		Job Reference (optional)MiTek Industries, Inc. Wed Jun 26 14:17:47 2024 Page 2

ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-ml2f Mmtzizgvw0Ylailo1bXemCwxFu iUsQ1gz2P0o

- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 9-19
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-17
- 11) Refer to girder(s) for truss to truss connections.
  12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=294, 15=335.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 14) Attic room checked for L/360 deflection.



10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-17 Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	TGE1	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, A	8.43	30 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:48 2024 Page 2	

ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-Exc2BinVk?5XW3blsHDXLF8mqAcmghL7x8bzZ7z2P0n

### NOTES-

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

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 15=112.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.16) Attic room checked for L/360 deflection.

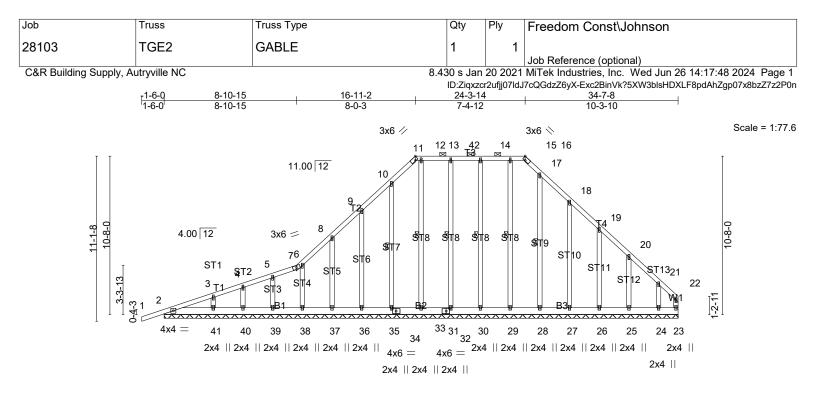


Plate Offsets (X,Y)	- [11:0-2-6,Edge], [16:Edge,0-2-9]	, [32:0-2-12,0-2-0], [3 <sup>2</sup>	34-7-8 34-7-8 4:0-2-12,0-2-0]		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.16 BC 0.04 WB 0.16 Matrix-S	<b>DEFL.</b> in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	1 n/r 120 1 n/r 120	PLATES         GRIP           MT20         244/190           Weight: 286 lb         FT = 20%
	SP 2400F 2.0E SP No.1 SP No.3	· · · · · ·	BRACING- TOP CHORD		g directly applied or 6-0-0 oc purlins, 2-0-0 oc purlins (6-0-0 max.):
OTHERS 2x4 S	SP No.3		BOT CHORD WEBS	Rigid ceiling directly appl 1 Row at midpt	ied or 10-0-0 oc bracing. 12-33, 10-35, 13-31, 14-30, 15-29, 17-28
Reactions. All	bearings 34-7-8.			MiTek recommends that bracing be installed dur accordance with Stabili	

(lb) - Max Horz 2=285(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 37, 38, 39, 40, 41, 31, 30, 27, 26, 25 except 23=-110(LC 7), 24=-167(LC 8) Max Grav All reactions 250 lb or less at joint(s) 2, 23, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 29, 28, 26, 25, 24 except 27=255(LC 14)

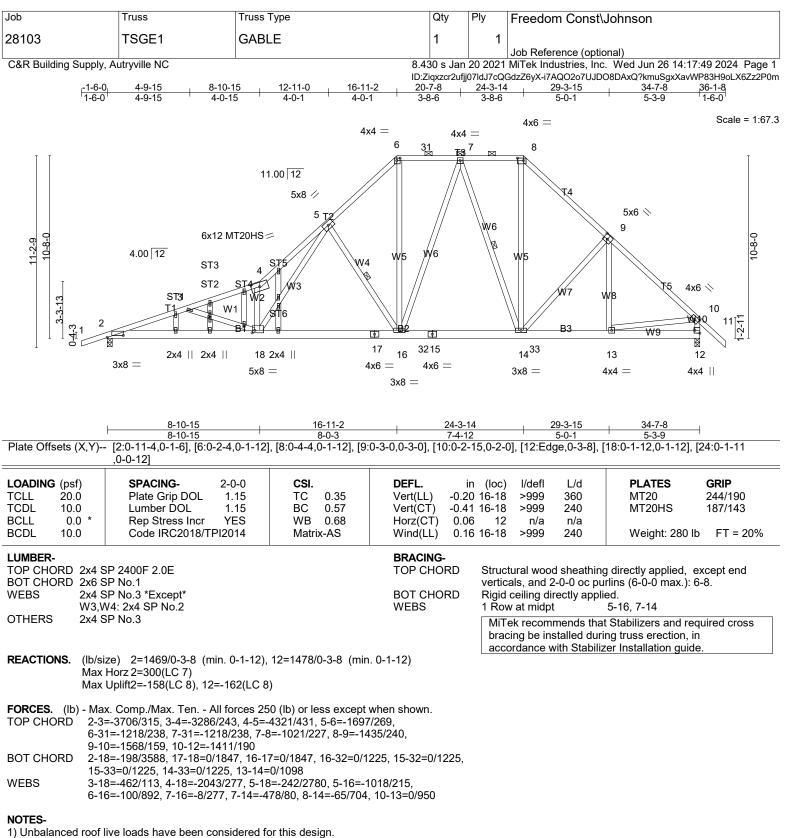
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated. 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 35, 36, 37, 38, 39, 40, 41, 31, 30, 27, 26, 25 except (jt=lb) 23=110, 24=167. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103	TGE2	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Jun 26 14:17:				MiTek Industries, Inc. Wed Jun 26 14:17:49 2024 Page 2	
ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-i7AQO2o7UJDO8DAxQ?kmuSg_Na1oPGGH9oLX					GdzZ6yX-i7AQO2o7UJDO8DAxQ?kmuSg_Na1oPGGH9oLX6Zz2P0m

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.



2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Provide adequate drainage to prevent water ponding.

5) All plates are MT20 plates unless otherwise indicated.

6) All plates are 1.5x4 MT20 unless otherwise indicated.

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

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

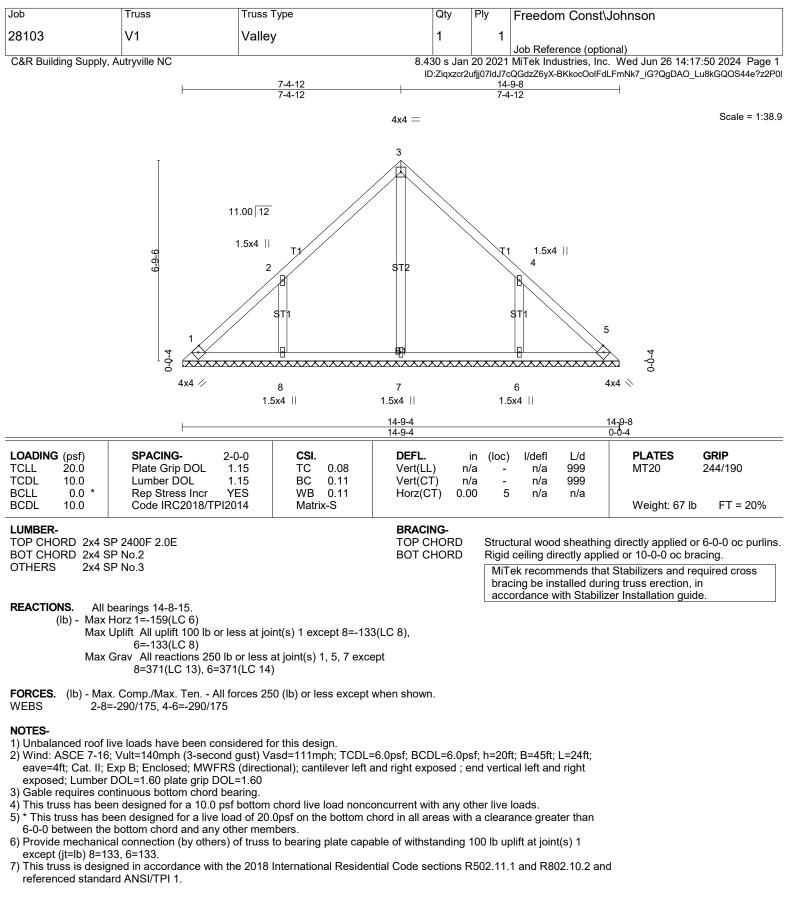
Continued on page 2

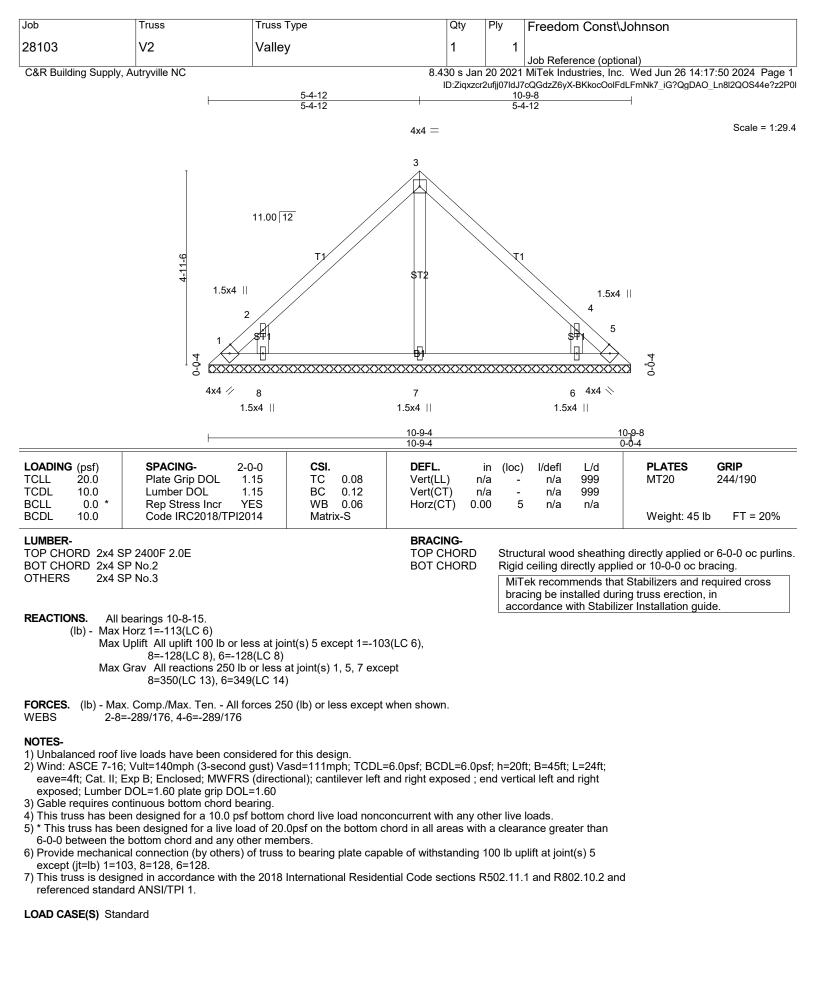
Job Truss	Truss Type	Qty	Ply	Freedom Const\Johnson
28103 TSGE1	GABLE	1	1	
				Job Reference (optional)
C&R Building Supply, Autryville NC		8.430 s Jan	20 2021	MiTek Industries, Inc. Wed Jun 26 14:17:49 2024 Page 2

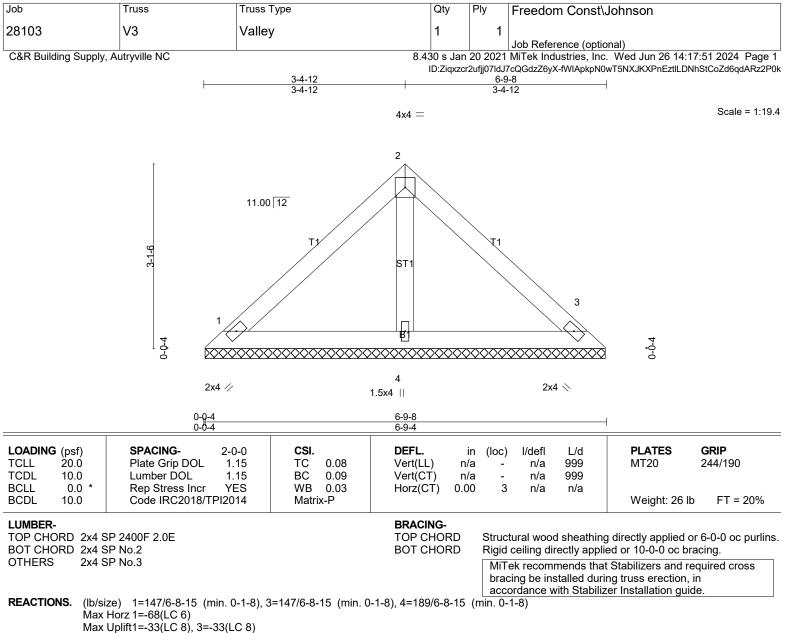
ID:Ziqxzcr2ufjj07ldJ7cQGdzZ6yX-i7AQO2o7UJDO8DAxQ?kmuSgxXavWP83H9oLX6Zz2P0m

9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 12=162.

- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Max Grav 1=147(LC 1), 3=147(LC 1), 4=189(LC 3)

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

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

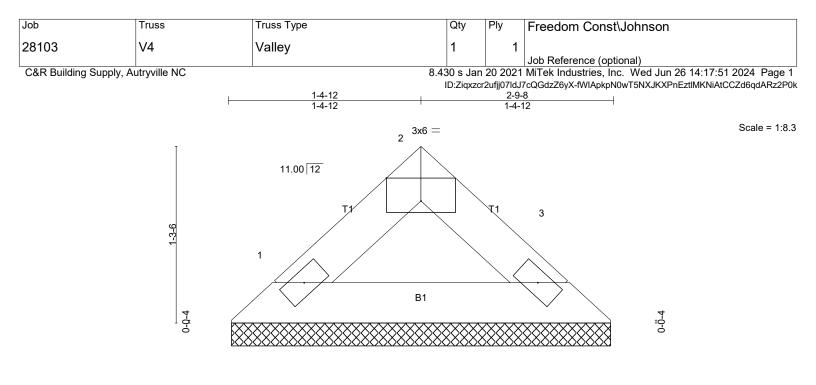
3) Gable requires continuous bottom chord bearing.

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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



2x4 🥢

2x4 🚿

Plate Offsets (X,Y)	0-0-4 0-0-4		2-9-8 2-9-4			
Flate Offsets (A, f)	[2.0-3-0,Euge]					1
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in	(loc) l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.01	Vert(LL) n/a	`_´_n/a	999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a	- n/a	999	
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-P	( )			Weight: 8 lb FT = 20%
LUMBER-			BRACING-			

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP No.2

BRACING-						
TOP CHORD						
BOT CHORD						

Structural wood sheathing directly applied or 2-9-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=82/2-8-15 (min. 0-1-8), 3=82/2-8-15 (min. 0-1-8) Max Horz 1=23(LC 7) Max Uplift1=-6(LC 8), 3=-6(LC 8)

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

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.