

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 19, 15, 13 except (jt=lb) 18=105, 14=104.

9) Non Standard bearing condition. Review required.

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.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\0	Gina McKinney	
28602	GR1	Common Girder	1	2			
C&R Building Supply A	utrvville NC		8 430 s Jai	20 202 ²	Job Reference (optio	nal) : Wed Apr 2 15:36 [.]	50 2025 Page 1
		ID:43Fm	fUEpnBwxW	36Q?RCfE	ByzursR-xHPzMaOvdKRu	vbMgoQ?DL4sfWJAKT?	nEVGR8WWzUjwh
	H	<u>3-11-14</u> <u>7-0-4</u> 3-11-14 3-8-6	3-8-6	5	3-8-6 0-3-8		
		4x4	1				Scale = 1:47.2
		2					
	I	з Д					
		10 00 12					
		3x6 1/2					
		2		\mathbb{N}	3x6 ∖\ _4		
	2			×	4		
	8-4-1	W W	5				
	3x8 🕢				5	`	
		W3 W4	/₩4	w	3	т	
	W I				W1	-	
	2-0		f/			2-0	
			→ 13	14 ₇	15 16	1	
	4x6	6 = 6x8 = 6x8	3 =	7 6)	ہ 8 = 4x6 =	=	
		3.11.14 7.8.4	11_4_	10	15-1-0 15-4-8	3	
Plate Offcets (X V)	$\frac{1}{6 \cdot E d a a a a a a b}{1} b c a a a b a b c a b a b c a b c a b c b c a c b c c c c c c c c$	<u>3-11-14</u> <u>3-11-14</u> <u>3-8-6</u>	3-8-0	6	3-8-6 0-3-8		
	0.Luge,0-2-0j, [1.0-3-0,0						
LOADING (psf) TCLL 20.0	SPACING- 2-0 Plate Grip DOL 1.	0-0 CSI. DEF 15 TC 0.18 Vert(LL) -0.(in (loc))3 7-8	l/defl L/d >999 360	PLATES MT20	GRIP 244/190
TCDL 10.0	Lumber DOL 1.	15 BC 0.44 Vert	CT) -0.0)7 7-8	>999 240		
BCDL 10.0	Code IRC2018/TPI20	14 Matrix-MS Wind	(LL) -0.0)1 8	>999 240	Weight: 254 lb	FT = 20%
LUMBER-		BRA	CING-				
TOP CHORD 2x4 SP BOT CHORD 2x6 SP	No.2 No 1	TOP	CHORD	Struc	tural wood sheathing	directly applied or	6-0-0 oc purlins,
WEBS 2x4 SP	No.3 *Except*	BOT	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.				
VV 1: 2X	0 5P NO. 1						
REACTIONS. (Ib/size Max He	e) 10=4393/0-3-8 (min. orz 10=-155(LC 6)	0-2-9), 6=4783/0-3-8 (min. 0-2-13)					
FORCES. (Ib) - Max.	Comp./Max. Ten All fo	rces 250 (lb) or less except when sho	wn.				
TOP CHORD 1-2=-3 5-6=-3	3835/0, 2-3=-3116/0, 3-4 3797/0	=-3116/0, 4-5=-3868/0, 1-10=-3782/0					
BOT CHORD 10-11	=-79/310, 9-11=-79/310,	9-12=0/2887, 8-12=0/2887, 8-13=0/2	912,				
WEBS 3-8=0	.=0/2912, 7-14-0/2912, 7)/3665, 4-8=-969/0, 4-7=()/1079, 2-8=-927/0, 2-9=0/1024, 1-9=()/2938,				
5-7=0	//2924						
NOTES- 1) 2-ply truss to be cor	prected together with 10	d (N 131"v3") nails as follows:					
Top chords connect	ted as follows: 2x4 - 1 ro	w at 0-9-0 oc, 2x6 - 2 rows staggered	at 0-9-0 oo	C.			
Webs connected as	s follows: 2x4 - 1 row at 0	rows staggered at 0-9-0 oc.					
2) All loads are consid	ered equally applied to a	Il plies, except if noted as front (F) or l	back (B) fa	ice in the	E LOAD CASE(S)		
3) Unbalanced roof live	e loads have been consi	dered for this design.		r, unicoc			
4) wind: ASCE 7-16; eave=4ft; Cat. II; Ex	vuit≕i∠umpn (3-second ((p B; Enclosed; MWFRS	gusi) vasa=95mpn; TCDL=6.0psf; BC (directional); cantilever left and right e	w∟=6.0ps exposed ; €	i, n=20ft end verti	, Β=4οπ; L=24π; cal left and right		
exposed; Lumber D 5) This truss has been	OL=1.60 plate grip DOL: designed for a 10.0 psf	=1.60 bottom chord live load nonconcurrent	with any o	ther live	loads		
6) * This truss has bee	en designed for a live loa	d of 20.0psf on the bottom chord in all	areas with	n a clear	ance greater than		
7) This truss is design	ed in accordance with the	e 2018 International Residential Code	sections F	R502.11.	1 and R802.10.2 and	I	
referenced standard	ANSI/TPI 1.						

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney
28602	GR1	Common Girder	1	2	Job Reference (optional)
C&R Building Supply, Autryville NC			30 s Jar	i 20 2021	MiTek Industries, Inc. Wed Apr 2 15:36:50 2025 Page 2

NOTES-

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1140 lb down at 2-0-12, 1140 lb down at 4-0-12, 1140 Ib down at 6-0-12, 1140 lb down at 8-0-12, 1140 lb down at 10-0-12, and 1140 lb down at 12-0-12, and 1140 lb down at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

ID:43FmfUEpnBwxW36Q?RCfByzursR-xHPzMaOvdKRuvbMgoQ?DL4sfWJAKT?nEVGR8WWzUjwh

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: 9=-1140(B) 11=-1140(B) 12=-1140(B) 13=-1140(B) 14=-1140(B) 15=-1140(B) 16=-1140(B)



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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than

- 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.

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

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.



(3-Second gust) vasd=95mph; TCDL=6.0psi; BCDL=6.0psi; n=20it; B=45it; L=24it; 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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than

- 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.

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

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.



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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- 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) 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) 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.



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.



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=120mph (3-second gust) Vasd=95mph; 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.
- 4) 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 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=298, 5=286.
- 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.



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=120mph (3-second gust) Vasd=95mph; 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.
- 4) 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 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=298, 5=286.
- 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.



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=120mph (3-second gust) Vasd=95mph; 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.
- 4) 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 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=298, 5=286.
- 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.



Max Holz 1–39(EC 7) Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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=120mph (3-second gust) Vasd=95mph; 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 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 100 lb uplift at joint(s) 1, 5, 2, 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.



Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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=120mph (3-second gust) Vasd=95mph; 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 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 100 lb uplift at joint(s) 1, 5, 2, 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.



REACTIONS. All bearings 5-9-5.

(lb) - Max Horz 1=39(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x4 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S)

- section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
- 5) 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.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- 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.



Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 12, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 12, 11 except 13=296(LC 2), 17=252(LC 19), 10=252(LC 20)

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

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.

5) Gable studs spaced at 2-0-0 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 12, 11, 10.
- 9) Non Standard bearing condition. Review required.
- 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.



- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- 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.



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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.

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.



WEBS 2-8=-579/48, 4-6=-379/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- 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.



- TOP CHORD 2-3=-369/63, 3-4=-369/63
- BOT CHORD 7-8=-23/299, 6-7=0/265

WEBS 3-7=-37/252, 2-8=-389/0, 4-6=-389/0

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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) 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.



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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.

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.





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) 11.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney		
28602	T7	Piggyback Base	8	1			
					Job Reference (optional)		
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:06 2025 Page 2				
	ID:43F	mfUEpnB	wxW36Q	RCfByzursR-TMN0j2bysFScq3alknHz_SWHQmf_DCebAlJ_4bzUjwR			

NOTES-

- 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.



- 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) 12.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney		
28602	Т8	Piggyback Base	2	1			
					Job Reference (optional)		
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:07 2025 Page 2				
ID:43FmfUEpnBwxW36Q?RCfByzursR-xZxOxOcadYaTSD9yIVoDXg							

NOTES-

- 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.



Scale = 1:91.9



	1-10-8	8-0-4	15-4-0	18-5-8	26-9-	0 1	34-3-11	1	40-0-	12	50-1-0	51-9- 8
	1-10-8	6-1-12	7-3-12	3-1-8	8-3-8	3	7-6-11		5-9-	1 '	10-0-4	1-8-8
Plate Offsets ((X,Y)	[5:0-5-8,0-3-0], [7:0-	5-4,0-3-0], [´	13:0-6-3,0-	-0-14], [19:0	-2-8,0-2-0]						
LOADING (psi TCLL 20.1 TCDL 10.1 BCLL 0.1 BCDL 10.1	f) 0 0 0 * 0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrit	0.28 0.31 0.65 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.12 0.02 0.03	(loc) 17-19 17-19 14 17	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 408 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS SLIDER	2x6 S T6,T5 2x6 S B3: 2> 2x4 S W7: 2 Right	P No.1 *Except* : 2x4 SP 2400F 2.0E P No.1 *Except* (4 SP No.2 P No.3 *Except* x4 SP No.2 2x6 SP No.1 -Đ 1-6-0)			BRACING- TOP CHO BOT CHO WEBS JOINTS	RD RD	Structo 2-0-0 d Rigid d 1 Row 1 Brace brace acco	ural wood oc purling ceiling dir at midpt ce at Jt(s) k recomi ing be ins rdance w	d sheathing s (6-0-0 ma ectly applie b: 24, 25, 20 mends that stalled durir vith Stabiliz	directly applied, exe ix.): 5-7. ed. 5-20, 8-17 6 Stabilizers and requ ng truss erection, in er Installation quide.	cept lired cross
REACTIONS. All bearings 0-3-8. (Ib) - Max Horz 23=-174(LC 6) Max Grav All reactions 250 lb or less at joint(s) 13 except 22=1479(LC 13), 14=1971(LC 20), 23=629(LC 1)												
FORCES. (Ib TOP CHORD	ORCES. (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown. OP CHORD 2-3=-492/21, 3-4=-1164/10, 4-5=-1058/55, 5-6=-1057/70, 6-33=-1069/68, 7-33=-1069/68, 7-8=-1355/42, 8-9=-1033/0, 9-10=-47/527, 10-11=-56/436, 12-13=-528/0											

BOT CHORD 22-23=0/302, 21-22=0/379, 20-21=0/379, 19-20=0/853, 18-19=0/1022, 17-18=0/1043, 16-17=0/968, 15-16=-456/88, 14-15=-456/88 WEBS 3-22=-1298/62, 3-20=0/805, 5-20=-391/11, 5-19=0/781, 19-24=-460/46, 6-24=-459/45, 17-25=0/347, 7-25=0/349, 8-16=-800/56, 9-16=0/1629, 9-14=-1605/59, 11-14=-597/65, 2-23=-540/4

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=50ft; 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) 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney	
28602	Т9	Piggyback Base	1	1		
					Job Reference (optional)	
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:08 2025 Page 2			
ID:43FmfUEpnBwxW36Q?RCfByzursR-PIVm8kcCOsiK3Mk8sCKS3tbiLaLbh9wu						

NOTES-

- 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.



<u>1-10-8</u> 1-10-8	8-0-4 6-1-12	15-4-0 7-3-12	18-5-8 3-1-8	<u>26-9-0</u> 8-3-8	34	<u>-3-11</u> 6-11		<u>40-0-12</u> 5-9-1		50-2-8 10-1-12	52-1 <u>51-9-8</u> 1-7-0 0-3-	-0 -8
Plate Offsets (X,Y)	- [5:0-5-8,0-3-0], [7:	0-5-4,0-3-0], [*	12:0-0-7,1-1	11-2], [12:0	-3-9,0-0-1], [18	8:0-2-8,	,0-2-0]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Ind Code IRC2018	2-0-0 - 1.15 1.15 cr YES B/TPI2014	CSI. TC BC WB Matrix	0.28 0.30 0.66 -AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.12 0.02 0.03	(loc) 16-18 16-18 13 16	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 41	G 24 6 lb	RIP 44/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP No.1 *Except* T5,T6: 2x4 SP 2400F 2.0EBRACING- TOP CHORD 2x6 SP No.1 *Except* B3: 2x4 SP No.2BRACING- TOP CHORDWEBS WEBS TOP CHORD2x6 SP No.1 *Except* B3: 2x4 SP No.2BOT CHORD WEBS UT 2 x4 SP No.2BOT CHORD WEBS UT 2 x4 SP No.2BOT CHORD WEBS UT 2 x4 SP No.2WEDGE Right: 2x6 SP No.1MiTek recommends t bracing be installed d accordance with Stat							d sheathing s (6-0-0 ma rectly appli t :): 23, 24, 2 mends tha stalled duri with Stabiliz	g directly applied ax.): 5-7. ed. 5-19, 8-16 55 t Stabilizers and ng truss erection zer Installation g	d, exce require n, in uide.	pt ed cross		
REACTIONS. All bearings 0-3-8. (Ib) - Max Horz 22=-179(LC 6) Max Grav All reactions 250 lb or less at joint(s) except 21=1488(LC 13), 13=1972(LC 20), 22=618(LC 1), 12=376(LC 1)												
FORCES. (Ib) - Ma TOP CHORD 2-3	•ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. •OP CHORD 2-3=-482/26, 3-4=-1158/11, 4-5=-1052/55, 5-6=-1052/70, 6-33=-1063/68,											

 7-33=-1063/68, 7-8--1348/42, 8-9=-1017/0, 9-10=-50/562, 10-11=-59/471

 BOT CHORD
 21-22=0/293, 20-21=0/367, 19-20=0/367, 18-19=0/849, 17-18=0/1018, 16-17=0/1038, 15-16=0/955, 14-15=-488/104, 13-14=-488/104

 WEBS
 3-21=-1305/61, 3-19=0/807, 5-19=-393/9, 5-18=0/778, 18-23=-459/45,

6-23=-457/45, 16-24=0/347, 7-24=0/348, 8-15=-806/57, 9-15=0/1642, 9-13=-1621/61, 11-13=-566/70, 2-22=-532/5

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=52ft; 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) 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.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney		
28602	T10	Piggyback Base	14	1			
					Job Reference (optional)		
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:10 2025 Page 2				
	ID:43Fn	ID:43FmfUEpnBwxW36Q?RCfByzursR-L8dWZQeSwTy2JgtXzdMw9Ih2rN1793KB5NHCDMzUjwN					

NOTES-

- 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.
- 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.



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) Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22

8) Bottom chord live load (25.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney		
28602	T11	ROOF TRUSS	2	1			
					Job Reference (optional)		
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:11 2025 Page 2				
	ID:43FmfUEpnBwxW36Q?RCfBvzursR-pKBvnmf4hn4vwqSjXLt9hWDDVnNOuWhK						

NOTES-

- 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. 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. 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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\Gina McKinney		
28602	T12	ROOF TRUSS	3	1			
					Job Reference (optional)		
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:12 2025 Page 2				
	ID:43Fmf	ID:43FmfUEpnBwxW36Q?RCfByzursR-HWkH_6giS5CmY_1v52OOEjmNCBdOd?hUZhmJIFzUjwL					

NOTES-

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.
Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



7) Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23

8) Bottom chord live load (25.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-16 Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney			
28602	T13	ROOF TRUSS	2	1				
					Job Reference (optional)			
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:14 2025 Page 2					
				ID:43FmfUEpnBwxW36Q?RCfByzursR-Evs1Pohz_iTUnHBICTQsJ8rji?JS5v4n0?FPN7zUjwJ				

NOTES-

- 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. 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. 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney
28602	TG1	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)
C&R Building Supply, A	utryville NC	8.4	430 s Jar	1 20 2021	MiTek Industries, Inc. Wed Apr 2 15:37:17 2025 Page 2

NOTES-

8.430 s Jan 20 2021 Mi Lek Industries, Inc. Wed Apr 2 15:37:17 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-eUYA1pjrGdr3elwttb_ZxnTE0CKII9RDizT4zSzUjwG

- 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) 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 697 lb down and 287 lb up at 4-11-4, 1001 lb down at 6-11-4, 1001 lb down at 8-11-4, 1001 lb down at 10-11-4, 1001 lb down at 12-11-4, 1001 lb down at 14-11-4, 1001 lb down at 16-11-4, 1001 lb down at 18-11-4, 1001 lb down at 20-11-4, and 992 lb down at 22-11-4, and 992 lb down at 24-11-4 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: 1-4=-45, 4-6=-45, 6-8=-45, 9-17=-15

Concentrated Loads (lb)

Vert: 15--1001(F) 11=-1001(F) 21=-655(F) 22=-1001(F) 23=-1001(F) 24=-1001(F) 25=-1001(F) 26=-1001(F) 27=-1001(F) 28=-992(F) 29=-992(F)



2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; 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. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney
28602	TG2	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, A	utryville NC	8.4	30 s Jar	<u>202 202 ו</u>	MiTek Industries, Inc. Wed Apr 2 15:37:19 2025 Page 2

ID:43FmfUEpnBwxW36Q?RCfByzursR-asfwSVI5oE5mu33F?0010CYdg05tm7vWAHyA2LzUjwE

C&R Building Supply, Autryville NC

NOTES-

4) Provide adequate drainage to prevent water ponding.

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

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 32, 33, 35, 36, 37, 38, 30, 29 except (jt=lb) 40=101, 22=272, 39=122, 27=177.

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

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

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 77 lb up at 23-11-4, 71 lb down and 77 Ib up at 25-11-4, 71 lb down and 77 lb up at 27-11-4, and 71 lb down and 77 lb up at 29-11-4, and 75 lb down and 71 lb up at 32-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-9=-60, 9-13=-60, 13-21=-60, 22-40=-20

Concentrated Loads (lb)

Vert: 22=-39(B) 26=-31(B) 25=-31(B) 24=-31(B) 23=-31(B)



LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 NO Pl2014	CSI. TC BC WB Matri	0.47 0.92 0.61 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.23 -0.34 0.04 0.07	(loc) 15 15-16 11 15-16	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 362 lb	GRIP 244/190 FT = 20%
											_	

LUMBER-TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 *Except*

B3: 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* W7,W9: 2x4 SP No.2, W13: 2x6 SP No.1 BRACING-TOP CHORD BOT CHORD WEBS

JOINTS

Structural wood sheathing directly applied or 5-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-11 max.): 5-7. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 3-16, 5-15, 9-13

1 Brace at Jt(s): 20, 21, 22

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

REACTIONS. (lb/size) 11=1569/0-3-8 (min. 0-2-1), 19=1705/0-3-8 (min. 0-2-2) Max Horz 19=192(LC 7) Max Grav 11=1731(LC 15), 19=1821(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2126/0, 3-4=-2045/0, 4-5=-1940/25, 5-6=-1713/45, 6-25=-1755/21, 7-25=-1755/21, 7-8=-1943/22, 8-9=-2108/0, 9-10=-2158/0, 10-11=-1631/0

- BOT CHORD 18-19=0/1446, 17-18=0/1866, 16-17=0/1866, 15-16=0/1689, 14-15=0/1741, 13-14=0/1741, 12-13=0/1687
- WEBS 2-18=0/518, 3-16=-263/71, 5-16=0/553, 5-15=-83/587, 15-20=-445/48, 6-20=-428/58, 13-21=0/635, 7-21=0/652, 9-12=-332/60, 2-19=-1881/0, 10-12=0/1500

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; 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.
- 6) Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15

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\Gina McKinney
28602	TG3	ROOF TRUSS	1	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC			30 s Jan	20 202	I MiTek Industries, Inc. Wed Apr 2 15:37:20 2025 Page 2
		ID:43	mfUEpnE	wxW36Q	?RCfByzursR-23DIfrmkZYDdVCeSZkXGYP5jSPHuVbTfOxikanzUjwD

NOTES-

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



				-								
LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.15	тс	0.47	Vert(LL)	-0.23	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15	BC	0.92	Vert(CT)	-0.34	15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-MS	Wind(LL)	0.07	15-16	>999	240	Weight: 362 lb	FT = 20%
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-MS	Wind(LL)	0.07	15-16	>999	240	Weight: 362 lb	FT = 20%

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except*
	B3: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	W7,W9: 2x4 SP No.2, W13: 2x6 SP No.1

BRACING- TOP CHORD
BOT CHORD WEBS JOINTS

Structural wood sheathing directly applied or 5-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-11 max.): 5-7. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 3-16, 5-15, 9-13

1 Brace at Jt(s): 20, 21, 22

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

REACTIONS. (Ib/size) 11=1569/0-3-8 (min. 0-2-1), 19=1705/0-3-8 (min. 0-2-2) Max Horz 19=192(LC 7) Max Grav 11=1731(LC 15), 19=1821(LC 14)

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

 TOP CHORD
 2-3=-2126/0, 3-4=-2045/0, 4-5=-1940/25, 5-6=-1713/45, 6-25=-1755/21, 7-25=-1755/21, 7-25=-1755/21, 7-8=-1943/22, 8-9=-2108/0, 9-10=-2158/0, 10-11=-1631/0

 BOT CHORD
 18-19=0/1446, 17-18=0/1866, 16-17=0/1866, 15-16=0/1689, 14-15=0/1741, 13-14=0/1741, 12-13=0/1687

 WEBS
 2-18=0/518, 3-16=-263/71, 5-16=0/553, 5-15=-83/587, 15-20=-445/48,

6-20=-428/58, 13-21=0/635, 7-21=0/652, 9-12=-332/60, 2-19=-1881/0, 10-12=0/1500

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; 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.
- 6) Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15

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\Gina McKinney		
28602	TG4	ROOF TRUSS	1	1			
					Job Reference (optional)		
C&R Building Supply, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Wed Apr 2 15:37:21 2025 Page				
	ID:43FmfUEpnBwxW36Q?RCfByzursR-WFnhtBnMKrLU7MDe6R2V5detCpd7E						

NOTES-9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Max Uplift All uplift 100 lb or less at joint(s) 24, 28, 29, 31, 21, 20, 19, 18 except 30=-103(LC 5) Max Grav All reactions 250 lb or less at joint(s) 24, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 31=320(LC 14), 18=309(LC 13)

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=28ft; 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 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.

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, with BCDL = 10.0psf.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 28, 29, 31, 21, 20, 19, 18 except (jt=lb) 30=103.

10) Non Standard bearing condition. Review required.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney
28602	TGE1	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC			30 s Jar	20 202	I MiTek Industries, Inc. Wed Apr 2 15:37:23 2025 Page 2
		ID:43F	mfUEpnB	wxW36Q?	RCfByzursR-TevRlsocsTbCMgN0Es5zA2jKEdWdi4754vwOB6zUjwA

NOTES-

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.



1-10-8 1-10-8			41-9-8		42 ₁ 1-0	
Plate Offsets (X,Y)	[10:0-4-0,0-2-13], [16:0-4-0,0-2-7	13], [30:0-4-0,0-4-8]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.08 WB 0.12	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) l/defl L/d - n/a 999 - n/a 999 26 n/a n/a	PLATES GRIP MT20 244/190	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	()		Weight: 399 lb FT = 209	%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S OTHERS 2x4 S	SP No.1 SP No.1 SP No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing purlins, except 2-0-0 oc purlins (10-0-0 n Rigid ceiling directly appli 1 Row at midpt	g directly applied or 10-0-0 oc nax.): 10-16. ed or 6-0-0 oc bracing. 13-35, 12-36, 11-37, 9-39, 8-40 14-34, 15-33, 17-32, 18-31),
				MiTek recommends that bracing be installed duri accordance with Stabiliz	t Stabilizers and required cross ng truss erection, in ter Installation guide.	

REACTIONS. All bearings 38-4-0.

(lb) - Max Horz 45=180(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 40, 41, 42, 43, 45, 31, 30, 29, 28, 27, 26 except 44=-105(LC 7) Max Grav All reactions 250 lb or less at joint(s) 35, 36, 37, 40, 41, 42,

43, 44, 34, 33, 32, 31, 30, 29, 28, 27 except 39=253(LC 14), 45=370(LC 15), 26=367(LC 21)

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; 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 2x4 MT20 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.

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, with BCDL = 10.0psf.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 41, 42, 43, 45, 31, 30, 29, 28, 27, 26 except (jt=lb) 44=105. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney
28602	TGE2	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, Au	utryville NC	8.4	30 s Jan	20 2021	I MiTek Industries, Inc. Wed Apr 2 15:37:25 2025 Page 2

ID:43FmfUEpnBwxW36Q?RCfByzursR-P01BjYqsO4rwc_XPLH7RFTof8QBBA_TOYDPVF?zUjw8

NOTES-

10) Non Standard bearing condition. Review required.

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.
13) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Plate Offsets (X,Y) [4:0-3-4,Edge], [5:0-5-8,0-2-12],	[7:0-5-4,0-2-12], [11:0	<u>)-4-4,0-1-8], [17:0-2-4</u>	,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 0.31 BC 0.33 WB 0.64 Matrix-AS	DEFL. in Vert(LL) -0.07 Vert(CT) -0.12 Horz(CT) 0.02 Wind(LL) 0.03	(loc) l/defl 15-17 >999 15-17 >999 12 n/a 14-15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 426 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP No.1 *Except* T5: 2x4 SP 2400F 2.0E 2x6 SP No.1 *Except* B3: 2x4 SP No.2 2x4 SP No.3 *Except*		BRACING- TOP CHORD BOT CHORD WEBS JOINTS	Structural woo verticals, and 2 Rigid ceiling di 1 Row at midp 1 Brace at Jt(s	d sheathing 2-0-0 oc pu rectly appli t): 22, 23, 2	g directly applied, ex rlins (6-0-0 max.): 5- ed. 5-18, 8-15 4	ccept end ·7.
others Reactions .	W7: 2x4 SP No.2 2x4 SP No.3 (lb/size) 20=1142/0-3-8 (min. 0-1-11) 21=682/0-3-8 (min. 0-1-8) Max Horz 21=193(LC 7) Max Upliff11=-656(I C 20) 21=-6(I C 8), 12=2107/0-3-8 (mir	n. 0-2-9), 11=-583/0-3	MiTek recom bracing be in accordance v -8 (min. 0-1-8),	mends that stalled duri vith Stabiliz	t Stabilizers and requ ng truss erection, in rer Installation guide	Jired cross
FORCES. (Ib) TOP CHORD BOT CHORD	Max Grav20=1443(LC 13), 12=2165(L - Max. Comp./Max. Ten All forces 25 2-3=-567/24, 3-4=-1210/26, 4-5=-110 43-44=-1114/83, 7-4=-1114/83, 7-8= 10-11=0/587 20-21=-3/346, 19-20=0/444, 18-19=0 15 16=0(1091, 14, 15=0(1060, 13, 14=))	, C 20), 21=682(LC 1) i0 (lb) or less except v 4/70, 5-6=-1101/85, 6 1411/60, 8-9=-1148, /444, 17-18=0/878, 16	when shown. 5-43=-1114/83, /18, 9-10=0/354, 5-17=0/1059, /28				

WEBS 3-20=-1272/50, 3-18=0/803, 5-18=-386/13, 5-17=0/802, 17-22=-469/48, 6-22=-468/48, 15-23=0/348, 7-23=0/350, 8-14=-761/51, 9-14=0/1580, 9-12=-1513/3, 2-21=-601/26, 10-12=-555/0

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; eave=5ft; 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 4x4 MT20 unless otherwise indicated.

6) Gable studs spaced at 2-0-0 oc. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Gina McKinney
28602	TSGE1	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC 8			l30 s Jar	n 20 2021	1 MiTek Industries, Inc. Wed Apr 2 15:37:27 2025 Page 2

ID:43FmfUEpnBwxW36Q?RCfByzursR-LP8y7Er7wh5erHhoTi9vLuuyBEpkeljh?XubKtzUjw6

NOTES-

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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 11=656.
- 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.



8=309(LC 13), 6=309(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=120mph (3-second gust) Vasd=95mph; 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, 8, 6.
 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.



Max Uplift1=-9(LC 8), 3=-9(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=120mph (3-second gust) Vasd=95mph; 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.



REACTIONS. (lb/size) 1=137/6-8-15 (min. 0-1-8), 3=137/6-8-15 (min. 0-1-8), 4=204/6-8-15 (min. 0-1-8) Max Horz 1=44(LC 7) Max Uplift1=-11(LC 8), 3=-11(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 🥢

/

	0- <u>0</u> -5 0-0-5	<u>3-3-10</u> <u>3-3-5</u>			+ 3	3-7-2)-3-8	
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.DEFL.TC0.03Vert(LLBC0.02Vert(C'WB0.01Horz(C'Matrix-PVertice	in) n/а) n/а Г) 0.00	(loc) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 12 lb	GRIP 244/190 FT = 20%
LUMBER-TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3			IG- 10RD 10RD	Structural wo Rigid ceiling o MiTek recor bracing be i accordance	od sheathin directly appl nmends tha nstalled dur with Stabili	ng directly applied or lied or 10-0-0 oc bra at Stabilizers and rea ring truss erection, in zer Installation guid	· 3-7-2 oc purlins. Icing. quired cross n e.

1.5x4 ||

REACTIONS. (lb/size) 1=64/3-6-9 (min. 0-1-8), 3=64/3-6-9 (min. 0-1-8), 4=95/3-6-9 (min. 0-1-8) Max Horz 1=-20(LC 6) Max Uplift1=-5(LC 8), 3=-5(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



8=304(LC 13), 6=304(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=120mph (3-second gust) Vasd=95mph; 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, 8, 6.
 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.



Max Uplift1=-8(LC 8), 3=-8(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



Max Uplift1=-10(LC 8), 3=-10(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



x Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 1 21, 15, 14, 13, 12

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=120mph (3-second gust) Vasd=95mph; 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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 100 lb uplift at joint(s) 1, 18, 19, 20, 21, 15, 14, 13, 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.



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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.

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.



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) 8, 6.

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=301(LC 13), 6=301(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=120mph (3-second gust) Vasd=95mph; 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, 5, 8, 6.

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.



Max Uplift1=-15(LC 8), 3=-15(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



REACTIONS. (Ib/size) 1=107/5-5-2 (min. 0-1-8), 3=107/5-5-2 (min. 0-1-8), 4=159/5-5-2 (min. 0-1-4) Max Horz 1=-34(LC 6) Max Uplift1=-9(LC 8), 3=-9(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=120mph (3-second gust) Vasd=95mph; 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.



Max Uplift1=-9(LC 8), 3=-9(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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.



Max Uplift1=-12(LC 8), 3=-12(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 📎

	0- <u>0</u> -5 0-0-5	3	3-10-4		4-1-12 0-3-8		
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 0.05 BC 0.03 WB 0.01 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 3 n/a n/a	PLATES GRIP MT20 244/190 Weight: 14 lb FT = 20%		
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 4-1-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.			
REACTIONS (Ib/si	ze) 1=77/4-1-2 (min 0-1-8) 3=	77/4-1-2 (min 0-1-8) 4	L=114/4-1-2 (min Ω	MiTek recommends th bracing be installed du accordance with Stabi	at Stabilizers and required cross ring truss erection, in lizer Installation guide.		

1.5x4 ||

REACTIONS. (Ib/size) 1=77/4-1-2 (min. 0-1-8), 3=77/4-1-2 (min. 0-1-8), 4=114/4-1-2 (min. 0-1-8) Max Horz 1=-24(LC 6) 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=120mph (3-second gust) Vasd=95mph; 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.