Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	CAP1	Piggyback	2	1	Job Reference (optional)

9 F

Peak Truss Builders LLC, New Hill, user Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:36

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4x5 =

4





2x4 II

7-5-15



Scale = 1:24.6

					-								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%	

### LUMBER

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.3

## **REACTIONS** All bearings 7-5-15.

(lb) - Max Horiz 2=57 (LC 10), 11=57 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 10, 11, 15

Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 8, 9, 10, 11, 15

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

# FORCES NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 4-5-2, Exterior (2) 4-5-2 to 7-5-2, Interior (1) 7-5-2 to 8-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8, 2, 6.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

2x4 II

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 u

2x4 =

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

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	CAP2	Piggyback	26	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:37 Page: 1 ID:o770?grKaE1X9yRbcVaRjXz7PDD-Jyz9ExuxJH7FXnHuqGY5oyumwsRidhs?TcjQODytbyW







7-5-15

Scale = 1:24.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%

#### LUMBER

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1

OTHERS 2x4 SP No.3

REACTIONS All bearings 7-5-15.

(lb) - Max Horiz 2=-57 (LC 9), 7=-57 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11

Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

# FORCES NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 4-5-2, Exterior (2) 4-5-2 to 7-5-2, Interior (1) 7-5-2 to 8-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 4.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 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.

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	CAP3	Piggyback	1	1	Job Reference (optional)

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7-5-15

Scale = 1:24.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.3 OTHERS

**REACTIONS** All bearings 7-5-15.

(Ib) - Max Horiz 2=-57 (LC 9), 7=-57 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11

Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

# FORCES NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 4-5-2, Exterior (2) 4-5-2 to 7-5-2, Interior (1) 7-5-2 to 8-7-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.

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

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 6) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 4. 7)

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. 9)

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 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.



3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

4) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-15, 7-15

5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 112 lb uplift at joint 10.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) Attic room checked for L/360 deflection.



left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-15, 7-15

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 12 and 131 lb uplift at joint 14.

7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Attic room checked for L/360 deflection.



Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	T2	Monopitch	3	1	Job Reference (optional)

Page: 1

Peak Truss Builders LLC, New Hill, user

![](_page_6_Figure_2.jpeg)

Scale = 1:53

Plate Offsets (X, Y): [2:0-7-7,0-0-3], [7:Edge,0-1-8]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.24	8-12	>507	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.38	8-12	>319	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.10	2	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 87 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS SLIDER	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 *Except* W3:2x6 SP No.2 Left 2x8 SP No.2 2-6-0	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. <u>1 Row at midpt</u> 6-7				
REACTIONS (II M M	b/size) 2=464/0-3-8, (min. 0-1-8), 7=398/0-3-8, (min. 0-1-8) lax Horiz 2=344 (LC 10) lax Uplift 2=-9 (LC 11), 7=-151 (LC 8)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.				
M	lax Grav 2=531 (LC 17), 7=579 (LC 16)						
FORCES TOP CHORD	DRCES         (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.           DP CHORD         2-3=-250/31, 3-14=-453/195, 4-14=-384/233, 4-5=-308/398, 5-6=-286/460, 7-9=-420/242, 6-9=-417/240						

2-8=-357/442, 7-8=-171/297

BOT CHORD WEBS 4-9=-395/220

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 2) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 7 and 9 lb uplift at joint 2. 3)

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 4)

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	T2A	Monopitch	1	1	Job Reference (optional)
Peak Truss Builders LLC,	New Hill, user		Run: 8.43 S Feb 3 2021	1 Print: 8.43	0 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:40 Page: 1
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3x10**ıı** 

5-1-8

5-1-8

Scale = 1:57.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.24	6-10	>505	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.38	6-10	>317	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.11	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 85 lb	FT = 20%

10-3-0

5-1-8

LUMBER TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1	BRACING TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
WEBS	2x4 SP No.3 *Except* W3:2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x8 SP No.2 2-6-0	WEBS	1 Row at midpt 4-5
REACTIONS ( M	lb/size) 1=401/0-3-8, (min. 0-1-8), 5=401/0-3-8, (min. 0-1-8) Max Horiz 1=330 (LC 10) Max Uplift 5=-151 (LC 8)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Ν	Max Grav 1=489 (LC 17), 5=582 (LC 16)		
FORCES TOP CHORD	(Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except whe 1-2=-277/34, 2-12=-397/200, 3-12=-387/232, 3-4=-308/462, 5-7=-4	n shown. 22/242, 4-7=-418/240	

CHORD *911200*, 387/232, 3-4=-308/462, 5-7

BOT CHORD 1-6=-354/447, 5-6=-171/299

WEBS 3-7=-396/221

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 2) any other members, with BCDL = 10.0psf.

3)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 4)

Standard LOAD CASE(S)

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	ТЗ	Piggyback Base	4	1	Job Reference (optional)

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![](_page_8_Figure_3.jpeg)

### Scale = 1:80.2

Plate Offsets (X, Y): [2:	Edge,0-0-0],	[6:0-2-12,0-1-12], [8:	:0-2-12,0-1-12], [10:0-5	5-8,0-2-8], [12:	:0-3-4,Edge],	[22:0-4-0,0-	3-0]					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.05	23-29	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.13	14-33	>795	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 295 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3	BRACING TOP CHORD	Structural wood sheathi except 2-0-0 oc purlins (6-0-0 n	ng directly applied or 5-4-11 oc purlins, nax.): 6-8.			
SLIDER REACTIONS A	LIDER         Left 2x6 SP No.2 2-6-0           EACTIONS         All bearings 0-3-8.           (b)         Marr Legis 2a 240 (LC 0)		Rigid ceiling directly applied or 10-0-0 oc bracing, Except:           6-0-0 oc bracing: 12-14.           1 Row at midpt         7-22, 7-18, 9-18, 24-25				
(10) - M M M	lax Honiz 2210 (LC 9) lax Uplift All uplift 100 (lb) or less at joint(s) 12, 23 except 2=-162 (LC 11), 14=-236 (LC 11) lax Grav All reactions 250 (lb) or less at joint(s) 12 except 2=579 (LC 23), 14=1744 (LC 1), 23=1121 (LC 1)		MiTek recommends that installed during truss er Installation guide.	t Stabilizers and required cross bracing be rection, in accordance with Stabilizer			

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

 TOP CHORD
 2-3=-323/0, 3-34=-436/183, 4-34=-388/208, 4-5=-882/245, 5-35=-864/251, 6-35=-746/294, 6-36=-597/290, 36-37=-597/290, 7-37=-597/290, 7-8=-753/293, 8-38=-955/315, 9-38=-1061/281, 9-10=-1237/243, 10-11=-106/669

 BOT CHORD
 2-40=-119/480, 40-41=-32/480, 23-41=-32/480, 22-23=-52/397, 21-22=0/896, 20-21=0/897, 19-20=0/897, 18-19=0/895, 17-18=-13/227, 16-17=-36/687, 15-16=-36/687

WEBS 4-23=-970/123, 4-22=0/538, 22-24=-539/0, 7-24=-439/51, 18-25=-309/0, 8-18=-82/334, 9-18=-328/155, 10-17=0/275, 10-14=-1812/300, 11-14=-546/171

## NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-5-3, Interior (1) 3-5-3 to 13-6-14, Exterior (2) 13-6-14 to 18-0-0, Interior (1) 18-0-0 to 22-5-2, Exterior (2) 22-5-2 to 26-10-5, Interior (1) 26-10-5 to 45-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 12 except (jt=lb) 2=161, 14=235.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	ТЗА	Piggyback Base	10	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:41 Page: 1 ID:0tNjephhVYbnobqOB7OhV?z7PG?-CjCf3lxSNWdg?Obf36d1zo3KKTi ZLhbOEheX?ytbyS

![](_page_9_Figure_3.jpeg)

## Scale = 1:80.2

Plate Offsets (X, Y): [2:	Edge,0-0-0],	[6:0-3-0,0-2-0], [8:0-	3-0,0-2-0], [12:0-3-4,Eo	dge], [15:0-3-8	,0-1-8]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MS	0.62 0.63 0.67	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.24 -0.42 0.07	(loc) 18-19 18-19 14	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 280 lb	<b>GRIP</b> 244/190 FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 *Except* W9:2x4 SP No.2	BRACING TOP CHORD	Structural wood sheathing directly applied or 3-6-3 oc purlins except 2-0-0 oc purlins (5-5-6 max.): 6-8.	З,
SLIDER	Left 2x6 SP No.2 2-6-0	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	
REACTIONS (I	b/size) 2=1541/0-3-8, (min. 0-2-9), 12=65/0-3-8, (min. 0-1-8), 14=2061/0-3-8, (min. 0-3-4)	WEBS	6-0-0 oc bracing: 14-15,12-14. <u>1 Row at midpt</u> <u>4-19, 7-19, 7-18, 9-18</u>	
N N N	Aax Horiz 2=-210 (LC 9) Aax Uplift 2=-218 (LC 11), 12=-52 (LC 8), 14=-247 (LC 11) Aax Grav 2=1619 (LC 19), 12=84 (LC 24), 14=2061 (LC 1)		MiTek recommends that Stabilizers and required cross brack installed during truss erection, in accordance with Stabilizer Installation guide.	ing be
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show	/n.		

 FUNCES
 (ID) - Max. Comp./Max. Ien. - All forces 250 (Ib) or less except when shown.

 TOP CHORD
 2-3=-897/0, 3-29=-2077/267, 4-29=-1957/292, 4-5=-1693/287, 5-30=-1679/293, 6-30=-1588/336, 6-31=-1295/326, 31-32=-1295/326, 7-32=-1295/326, 7-8=-1313/330, 8-33=-1616/357, 9-33=-1705/323, 9-10=-2063/325, 10-11=-1970/275, 11-34=-67/847, 12-34=-80/804

 BOT CHORD
 2-35=-146/1728, 21-35=-98/1728, 21-36=-98/1728, 20-36=-98/1728, 19-20=-98/1728, 19-37=0/1392, 37-38=0/1392,

WEBS 4-19=-487/190, 6-19=-71/684, 7-19=-301/72, 8-18=-106/748, 9-18=-567/200, 9-17=-1/315, 10-17=-386/115, 10-15=-771/159, 11-15=-297/2781, 11-14=-1875/299

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-5-3, Interior (1) 3-5-3 to 13-6-14, Exterior (2) 13-6-14 to 18-0-0, Interior (1) 18-0-0 to 22-5-2, Exterior (2) 22-5-2 to 26-10-5, Interior (1) 26-10-5 to 45-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 2, 247 lb uplift at joint 14 and 52 lb uplift at joint 12.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	ТЗВ	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:42 Page: 1 ID:QjvNc2sRPtuHH0IrbVj\_WLytcC2-gvm2Hex48plXdYArdp8GV0bYst3HInHkduRB3RytbyR

![](_page_10_Figure_3.jpeg)

#### Scale = 1:80.2

Plate Offsets (X, Y): [2	Edge,0-0-0],	[6:0-3-0,0-2-0], [8:0-	3-0,0-2-0], [10:0-5-8,0-	2-8], [12:0-3-4	,Edge]								
Loading	(psf)	Spacing	2-0-0	CSI	0.11	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCDL	20.0 10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.20	20-21	>999 >999	240 180	IVI I ZU	244/190	
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-MS	0.71	Horz(CT)	0.04	15	n/a	n/a	Weight: 280 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3	BRACING TOP CHORD	Structural wood sheathing directly applied or 4-11-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
SLIDER	Left 2x6 SP No.2 2-6-0	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
REACTIONS AI (Ib) - M M	l bearings 0-3-8. except 2=7-7-8, 24=7-7-8, 25=7-7-8, 15=2-7-8 ax Horiz 2=-210 (LC 9), 25=-210 (LC 9) ax Uplift All uplift 100 (lb) or less at joint(s) 12, 16 except 2=-159 (LC 11), 15=-264 (LC 11), 23=-199 (LC 19), 24=-119 (LC 11), 25=-159 (LC 11)	WEBS	6-0-0 oc bracing: 14-15,12-14. 1 Row at midpt 7-21, 7-20, 9-20, 10-15 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
М	ax Grav All reactions 250 (lb) or less at joint(s) 12, 16, 23 except 2=499 (LC 23), 14=260 (LC 1), 15=1231 (LC 1), 24=1604 (LC 19), 25=499 (LC 23)		

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

 TOP CHORD
 3-32=-328/179, 4-32=-277/205, 4-5=-951/248, 5-33=-936/253, 6-33=-836/296, 6-34=-688/294, 34-35=-688/294, 7-35=-688/294, 7-8=-892/302, 8-36=-1094/322, 9-36=-1183/288, 9-10=-1457/275, 10-11=-68/574, 11-37=-17/377,

 12-37=-31/336

 BOT CHORD

 2-38=-81/344, 24-38=-81/344, 23-24=-81/344, 23-39=-81/344, 22-39=-81/344, 21-22=-81/344, 21-40=0/881, 40-41=0/881, 20-41=0/881, 20-42=-39/1106, 19-42=-39/1106, 18-19=-97/1174, 17-18=-97/1174, 16-17=-93/1175, 15-16=-93/1175, 14-15=-325/63

 WEBS
 4-24=-1132/126, 4-21=0/672, 6-21=-48/264, 7-21=-489/58, 8-20=-85/437, 9-20=-453/180, 10-15=-2071/292,

VVEDS 4-24--1132/120, 4-21-0/072, 0-21--40/204, 7-21--409/30, 0-20--05/437, 9-20--433/100, 10-15--2071/292, 11-15=-413/144

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-5-3, Interior (1) 3-5-3 to 13-6-14, Exterior (2) 13-6-14 to 18-0-0, Interior (1) 18-0-0 to 22-5-2, Exterior (2) 22-5-2 to 26-10-5, Interior (1) 26-10-5 to 45-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 16 except (jt=lb) 2=159, 24=119, 15=263, 23=199, 2=159.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	T3GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:42 Page: 1 ID:767CoReARJ5LJ WcvHJIL9z7PG3-gvm2Hex48plXdYArdp8GV0bcVtAYIwCkduRB3RvtbvR

> Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-15.

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

15-37, 14-38, 13-39, 12-40, 11-41, 9-42, 8-43, 16-36

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

Installation guide.

![](_page_11_Figure_3.jpeg)

### Scale = 1:80.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	49	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 329 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

# LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

- REACTIONS All bearings 44-4-0.
  - (lb) Max Horiz 48=-223 (LC 9)
    - Max Uplift All uplift 100 (lb) or less at joint(s) 26, 28, 29, 30, 31, 32, 33,
      - 34, 35, 36, 38, 39, 40, 43, 44, 45, 46, 48, 49 except 47=-108  $(|\dot{C}|11)$ Max Grav All reactions 250 (lb) or less at joint(s) 26, 29, 30, 31, 32, 33,
      - 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49 except 28=301 (LC 24)
- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 9-10=-197/251, 15-16=-212/273

#### NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=44ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 3-5-3, Exterior (2) 3-5-3 to 13-6-14, Corner (3) 13-6-14 to 18-0-1, Exterior (2) 18-0-1 to 22-5-2, Corner (3) 22-5-2 to 26-10-5, Exterior (2) 26-10-5 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 2) 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.
- All plates are 2x4 MT20 unless otherwise indicated. 5)
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 2-0-0 oc. 7)
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 48, 38, 39, 40, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26, 26 except (jt=lb) 47=107.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10)
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	Τ4	Piggyback Base	8	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:43 Page: 1

ID:YhpLQTh2kETwARFBdPtSznz7PG0-86KQU yiu7uOFil1BWfV2D8g5HPQ1LXurYAlctytbyQ 1-0-0 6-11-3 29-0-13 13-6-14 18-0-0 22-5-2 36-0-0 6-11-3 6-7-11 4-5-2 4-5-2 6-7-11 6-11-3 5x5= 3x4= 5x5= 6 35 36 7 37 <u>3</u>8 8 T3 18 9<sup>12</sup> 3x6 🖋 3x5、 3x6 3x5 🖉 34 39 5 9 4 10 11-0-0 11-3-8 4x5≉ 40 33 4x5. 3 11 HW 12 W5 2046 22 2+6 41 20 21 19 18 15 14 13 42 17 16 2x4 II 3x8= 2x4 II 3x6= 2x4 II 2x4 II 3x81 3x81 3x6= 2x4 II 3x7 II 3x7 II 2x4 II 3x8 =14-0-0 22-8-10 18-0-0 22-0-0 29-0-13 36-0-0 6-11-3 13-2-10 4-0-0 6-11-3 6-3-7 4 - 0 - 06 - 4 - 36-11-3 0.9.6 0-8-10 Scale = 1:63.5 Plate Offsets (X, Y): [2:Edge,0-0-0], [6:0-3-0,0-1-12], [8:0-3-0,0-1-12], [12:0-5-8,Edge] Loading (psf) 2-0-0 CSI DEFL (loc) l/defl L/d PLATES GRIP Spacing in 20.0 Plate Grip DOL TCLL (roof) 1.15 TC 0.60 Vert(LL) -0.08 17 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.50 Vert(CT) -0.21 17 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.26 Horz(CT) 0.08 12 n/a n/a BCDL IRC2015/TPI2014 Matrix-MS Weight: 252 lb FT = 20% 10.0 Code LUMBER BRACING TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, BOT CHORD 2x4 SP No.1 except 2x4 SP No.3 2-0-0 oc purlins (5-9-1 max.): 6-8. WEBS SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 4-19, 7-19, 7-14, 10-14, 22-23 **REACTIONS** (lb/size) 2=1501/0-3-8, (min. 0-2-6), 12=1439/0-3-8, (min. 0-2-4) MiTek recommends that Stabilizers and required cross bracing be Max Horiz 2=205 (LC 10) installed during truss erection, in accordance with Stabilizer Max Uplift 2=-213 (LC 11), 12=-177 (LC 11) Installation guide. FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-790/0, 3-33=-1900/252, 4-33=-1735/283, 4-5=-1587/287, 5-34=-1570/292, 6-34=-1462/335, 6-35=-1148/322 35-36=-1148/322, 7-36=-1148/322, 7-37=-1149/323, 37-38=-1149/323, 8-38=-1149/323, 8-39=-1460/335, 9-39=-1568/292, 9-10=-1586/287, 10-40=-1740/285, 11-40=-1904/260, 11-12=-659/0

BOT CHORD 2-41=-167/1510, 21-41=-118/1510, 20-21=-118/1510, 19-20=-118/1510, 18-19=0/1276, 17-18=0/1277, 16-17=0/1277,

15-16=0/1277, 14-15=0/1277, 13-14=-120/1451, 13-42=-120/1451, 12-42=-120/1451

WEBS 4-19=-464/188, 6-19=-69/551, 19-22=-315/0, 7-22=-268/72, 7-23=-265/70, 14-23=-313/0, 8-14=-69/550, 10-14=-471/190

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-7-3, Interior (1) 2-7-3 to 13-6-14, Exterior (2) 13-6-14 to 18-7-15, Interior (1) 18-7-15 to 22-5-2, Exterior (2) 22-5-2 to 27-6-4, Interior (1) 27-6-4 to 36-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2 and 177 lb uplift at joint 12.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

Job	Truss	Truss Type	Qty F	Ply	Brooklyn RH V2-Roof						
Q-2101667-1	T4AGRD	Piggyback Base Girder	1 2	1	Job Reference (optional)						
Peak Truss Builders LLC, New	Hill, user	Run: 8.43 S F	eb 3 2021 Prin	t: 8.430 S	Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:44 Page: 1						
-1-0-0			10.1117	onnpon							
1-0-0	4-6-5         9-0           4-6-5         4-6	<u>-9 13-6-14 18-0-0</u> -4 4-6-4 4-5-2	4	<u>2-5-2</u> -5-2	26-11-7         31-5-11         36-0-0           4-6-4         4-6-4         4-6-5						
		5x5=	3x4=	37	5×5=						
				Ă'							
	91	2 3x5 ¢ 42 54			3x5. y9						
	3x6 <b>≈</b>			'n							
9-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	3x5≠ 4 ∯	W5 W0	n,	) 	₩10 \$3x6\$ \$410 2x5						
<del>+</del> <del>+</del>	3 ↔	W3 W4			W/1 W3 11						
	R I										
	₩1 ₩2			/	W2 W1 3x4s 12						
	HW1 D		W7								
	B1 4 23	22 21 20	19 1	<u>11-</u> 2-0 8	17 16 15 14						
4xa	811 2x411	4x5= 4x8=	2x4 II 4	x8=	2x4 u 4x5= 2x4 u 4x8 u						
	470-	2x4 II	2741		4x8=						
Ł	4-6-5 9-0	-9   13-2-10   18-0-0	22-	- <u>0-0</u> 2	2-8-10 26-11-7 31-5-11 36-0-0						
Scale = 1:63.5	4-6-5 4-6	-4   4-2-0     4-0-0 0-9-6	1 4-	0-0 (	4-2-12   4-6-4   4-6-5    -8-10						
Plate Offsets (X, Y): [6:0-2-	-12,0-1-12], [8:0-2-12,0-1-12]										
Loading	(psf) <b>Spacing</b>	3-0-0 <b>CSI</b> 1 15 TC	0.24 Vert(	1) -	in (loc) l/defi L/d <b>PLATES GRIP</b>						
TCDL	10.0 Lumber DOL	1.15 BC	0.50 Vert(C	-) (T) -	0.13 19 >999 180 0.04 13 p/a p/a						
BCDL	10.0 Code	IRC2015/TPI2014 Matrix-MS	0.20 11012(		Weight: 606 lb FT = 20%						
LUMBER		BF	RACING								
TOP CHORD2x4 SP NBOT CHORD2x6 SP N	lo.1 lo.2	TC	P CHORD	2- (S	0-0 oc purlins (6-0-0 max.) witched from sheeted: Spacing > 2-0-0).						
WEBS 2x4 SP N WEDGE Left: 2x4	lo.3 SP No.3	BC	T CHORD	R	gid ceiling directly applied or 10-0-0 oc bracing.						
SLIDER Right 2x4	SP No.3 1-6-0	12-2150/0.2.8 (min 0.1.11)									
Max Horiz 2 Max Uplift 2	2=307 (LC 6) 2=-319 (LC 7), 13=-265 (LC 7	)									
FORCES         (lb) - N           TOP CHORD         2-3=-2	Max. Comp./Max. Ten All for 2898/396, 3-4=-2681/423, 4-5	rces 250 (lb) or less except when shown. =-2572/467, 5-6=-2343/531, 6-36=-1728/47	7, 7-36=-172	8/477, 7	-37=-1734/478,						
8-37=- BOT CHORD 2-24=-	-1734/478, 8-9=-2345/531, 9- -206/2209, 23-24=-206/2209,	10=-2573/468, 10-11=-2681/424, 11-12=-28 22-23=-206/2209, 21-22=-99/2057, 20-21=	94/406, 12-1 0/1843, 19-20	3=-1708 )=0/184	/131 3, 18-19=0/1843,						
WEBS 5-22=-	=0/1843, 16-17=0/1846, 15-1 -30/295, 5-21=-622/269, 6-21	6=-100/2059, 14-15=-213/2225, 13-14=-213 =-171/965, 21-25=-446/54, 7-25=-416/105,	3/2225 7-26=-410/10	7, 16-26	5=-324/23,						
8-16=- NOTES	-172/966, 9-16=-622/269, 9-1	5=-29/293, 11-15=-259/148									
<ol> <li>2-ply truss to be conn Top chords connected</li> </ol>	ected together with 10d (0.13 d as follows: 2x4 - 1 row at 0-	31"x3") nails as follows: 9-0 oc.									
Bottom chords conne Web connected as fo	cted as follows: 2x6 - 2 rows llows: 2x4 - 1 row at 0-9-0 oc	staggered at 0-9-0 oc.									
<ol> <li>All loads are consider distribute only loads r</li> </ol>	red equally applied to all plies noted as (F) or (B). unless off	e, except if noted as front (F) or back (B) factor nerwise indicated.	e in the LOAE	CASE(	S) section. Ply to ply connections have been provided to						
<ol> <li>Unbalanced roof live</li> <li>Wind: ASCE 7-10; Vu</li> </ol>	loads have been considered lt=120mph (3-second gust) \	for this design. ′asd=95mph; TCDL=6.0psf; BCDL=6.0psf; ł	1=30ft; B=20ft	; L=36ft	eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional);						
cantilever left and right 5) Provide adequate dra	nt exposed ; end vertical left a inage to prevent water pondi	and right exposed; Lumber DOL=1.60 plate	grip DOL=1.6	0	· · · · · · · · · · · · · · · · · · ·						
<ul> <li>6) * This truss has been any other members.</li> </ul>	designed for a live load of 20	).0psf on the bottom chord in all areas where	e a rectangle	3-06-00	tall by 2-00-00 wide will fit between the bottom chord and						
<ol> <li>Provide mechanical c</li> </ol>	anneation (by others) of true	to bearing plate canable of withstanding 31	0 lb unlift at i	oint 2 or	nd 265 lb unlift at joint 13						

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

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	T4BGRD	Piggyback Base Girder	1	2	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:44 Page: 1 ID:MrAchWlbJ4E4uMiL a sC2z7PFw-cluoiKzKfR0FssKEkEAkbRhuiahtmnR14Cwl8JvtbvP

![](_page_14_Figure_3.jpeg)

 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 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60

5) Provide adequate drainage to prevent water ponding

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 2 and 513 lb uplift at joint 13.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 31-7-12 from the left end to connect truss(es) T7GRD (1 ply 2x6 SP) to back face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Job		Truss	Truss Type C		Ply	Brooklyn RH V2-Roof		
Q-210	01667-1	T4BGRD	Piggyback Base Girder	1	2	Job Reference (optional)		
Peak Truss Builders LLC, New Hill, user			Run: 8.43 S Fe	eb 3 2021 P	rint: 8.430 S	Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:44	Page: 2	

ID:MrAchWlpJ4E4uMiL\_g\_sC2z7PFw-cluoiKzKfR0FssKEkEAkbRhuightmnR14Cwl8JytbyP

Peak Truss Builders LLC, New Hill, user

Vert: 1-6=-120, 6-8=-120, 8-13=-120, 23-26=-40 Concentrated Loads (lb) Vert: 14=-683 (B)

Job	Truss	Truss Type		Ply	Brooklyn RH V2-Roof
Q-2101667-1	T4GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)

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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-15.

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

15-31, 14-32, 13-34, 12-35, 11-36,

9-37, 8-38, 16-30

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

Installation guide.

![](_page_16_Figure_3.jpeg)

## Scale = 1:63.6

Plate Offsets (X, Y):	[10:0-3-0,0-0-1	], [15:0-3-0,0-2-0], [2	3:0-4-8,0-1-8], [44:0-4-	8,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.14 0.05	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	MT20	244/190	
BCLL	* 0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	24	n/a	n/a		<b>FT</b> 000/	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 297 lb	FT = 20%	

BRACING TOP CHORD

BOT CHORD

WEBS

### LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

REACTIONS All bearings 36-0-0.

(lb) - Max Horiz 44=220 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 24, 26, 27, 28, 29, 30, 32, 34, 35, 38, 39, 40, 41, 44 except 25=-115 (LC 11), 43=-105 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44

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

TOP CHORD 8-9=-216/256, 9-10=-219/259, 15-16=-236/283

## NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=36ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-5-2, Exterior (2) 2-5-2 to 13-6-14, Corner (3) 13-6-14 to 17-2-1, Exterior (2) 17-2-1 to 22-5-2, Corner (3) 22-5-2 to 26-0-5, Exterior (2) 26-0-5 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 requires continuous bottom chord bearing.

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

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

9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 44, 24, 32, 34, 35, 38, 39, 40, 41, 30, 29, 28, 27, 26 except (jt=lb) 43=104, 25=115.

11) This truss is designed in accordance with the 2015 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.

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	T4GRD	Piggyback Base Girder	1	2	Job Reference (optional)

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![](_page_17_Figure_3.jpeg)

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 342 lb uplift at joint 2 and 425 lb uplift at joint 13.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 31-7-12 from the left end to connect truss(es) T7GRD (1 ply 2x6 SP) to front face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty Ply		Brooklyn RH V2-Roof		
Q-2101667-1	T4GRD	Piggyback Base Girder	1	2	Job Reference (optional)		
Peak Truss Builders LLC, New Hill, user			eb 3 2021 P	rint: 8.430 S	Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:45	Page: 2	

ID:MrAchWlpJ4E4uMiL\_g\_sC2z7PFw-4USAvg\_yQk86U0uQlxiz7eD4\_439VFbBJsfrgmytbyO

Vert: 1-6=-90, 6-8=-90, 8-13=-90, 23-26=-30 Concentrated Loads (lb) Vert: 14=-741 (F)

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	Т5	Piggyback Base	1	1	Job Reference (optional)

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6-11-3 13-6-14 18-0-0 22-5-2 29-0-13 31-7-0 6-11-3 6-7-11 4-5-2 4-5-2 6-7-11 2-6-3 4x5= 3x4= 4x5= 6 23 8 24 7 9<mark>12</mark> 3x4 🖌 22 25 3x5、 3x5 🖌 26 5 4 9 10-8-8 11-0-0 11-3-8 3x5、 10 4x5 🖌 3<sup>21</sup> -27 16 28 15 14 29 13 30 12 2x4 II 2x4 II 3x8= 3x4= 3x8= 3x4= 3x8 II 13-8-10 22-3-6 6-11-3 29-0-13 31-7-0 6-11-3 6-9-7 8-6-13 6-9-7 2-6-3Scale = 1:60 Plate Offsets (X, Y): [2:Edge,0-0-0], [6:0-3-0,0-2-0], [8:0-3-0,0-2-0] Loading (psf) 2-0-0 CSI DEFL (loc) l/defl L/d PLATES GRIP Spacing in 20.0 Plate Grip DOL TCLL (roof) 1.15 TC 0.47 Vert(LL) -0.21 13-15 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.56 Vert(CT) -0.33 13-15 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.04 11 n/a n/a BCDL IRC2015/TPI2014 Matrix-MS Weight: 229 lb FT = 20% 10.0 Code LUMBER BRACING TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 4-5-9 oc purlins, BOT CHORD 2x4 SP No.1 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8. 2x4 SP No.3 BOT CHORD WEBS Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12. SLIDER Left 2x6 SP No.2 -- 2-6-0 WEBS 1 Row at midpt 4-15, 7-15, 7-13 **REACTIONS** (lb/size) 2=1318/0-3-8, (min. 0-2-3), 11=1257/ Mechanical, (min. 0-1-8) MiTek recommends that Stabilizers and required cross bracing be Max Horiz 2=255 (LC 10) installed during truss erection, in accordance with Stabilizer Max Uplift 2=-187 (LC 11), 11=-158 (LC 11) Installation guide. Max Grav 2=1386 (LC 19), 11=1290 (LC 20) (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. FORCES TOP CHORD 2-3=-754/0, 3-21=-1728/210, 4-21=-1675/245, 4-5=-1331/238, 5-22=-1316/243, 6-22=-1224/287, 6-23=-999/286, 23-24=-999/286, 7-24=-999/286, 7-8=-839/267, 8-25=-1025/259, 25-26=-1068/227, 9-26=-1133/216, 9-10=-689/134, 10-11=-1285/165 BOT CHORD 2-27=-220/1435, 16-27=-162/1435, 16-28=-162/1435, 15-28=-162/1435, 14-15=-67/998, 14-29=-67/998, 13-29=-67/998, 13-30=-78/559, 12-30=-78/559 WEBS 4-15=-503/193, 6-15=-40/466, 7-13=-406/72, 8-13=-19/375, 9-13=-10/407, 9-12=-775/159, 10-12=-120/1047 NOTES Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) -1-0-0 to 2-1-14, Interior (1) 2-1-14 to 13-6-14, Exterior (2) 13-6-14 to 18-0-0, Interior (1) 18-0-0 to 22-5-2, Exterior (2) 22-5-2 to 26-10-12, Interior (1) 26-10-12 to 31-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3) 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Refer to girder(s) for truss to truss connections. 5) 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 158 lb uplift at joint 11. 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

This futus is designed in accordance with the 2010 microactional residential code sections risol2. The future residence set

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

100	Truss	Truss Type	Truss Type Monopitch		Ply	Brooklyn RH V2-Roof				
Q-2101667-1	Т6	Monopitch			1	Job Reference (optional)				
Peak Truss Builders LLC, New	/ Hill, user		Run: 8.43	3 S Feb 3 2021 F ID:8VteJ3	Print: 8.430 S Buf_Za6gbz4	Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:46 Page: IRFmbwHz7PMC-Yh?Y60?aB2Gz69TcsfDCgsmAgUTSEkkKYWPPCCytbyl				
		+	<u>5-5-4</u> 5-5-4	<u>8-11-8</u> 3-6-4	9-5-0       0-5-8					
				3-4-8	2x4 <b>n</b>					

![](_page_20_Figure_1.jpeg)

Scale = 1:53

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.13	6-10	>873	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.21	6-10	>529	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.07	1	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 89 lb	FT = 20%	

3-11-12

LUMBER TOP CHORD BOT CHORD WEBS SLIDER REACTIONS (IL Mi Mi	2x4 SP No.1 2x4 SP No.1 *Except* B2:2x8 SP No.2 2x4 SP No.3 *Except* W3:2x6 SP No.2 Left 2x8 SP No.2 2-6-0 //size) 1=367/0-3-8, (min. 0-1-8), 5=367/0-3-8, (min. 0-1-8) ax Horiz 1=304 (LC 10) ax Uplift 5=-140 (LC 8) ax Grav 1=477 (LC 17), 5=554 (LC 16)	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 4-5 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES TOP CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show 2-12=-360/169, 3-12=-354/210, 3-4=-245/372, 5-7=-328/184, 4-7=-323/18	/n. 32	

BOT CHORD 1-13=-359/445, 6-13=-168/281, 5-6=-168/281

WEBS 3-7=-381/217

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 2) any other members, with BCDL = 10.0psf.

3)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 4)́

Standard LOAD CASE(S)

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	T7GRD	Flat Girder	1	1	Job Reference (optional)

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> 2x4 II 2

> > 3

in

-0.02

-0.05

0.00

(loc)

3-4

3-4

Installation guide.

3

4x5 =

![](_page_21_Figure_2.jpeg)

4

2-0-0

1.15 тс

1.15

NO WB

IRC2015/TPI2014

CSI

BC

2x4 u

4-0-8

Max Uplift 3=-165 (LC 4), 4=-158 (LC 3) Max Grav 3=824 (LC 12), 4=774 (LC 13) (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3=771/ Mechanical, (min. 0-1-8), 4=723/ Mechanical, (min.

#### Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional); 1) cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

0-1-8)Max Horiz 4=-107 (LC 3)

(psf)

20.0

10.0

0.0

10.0

2x4 SP No.1

2x6 SP No.1

2x4 SP No.3

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 4 and 165 lb uplift at joint 3.

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 6)

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 7)

Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 1-9-12 from the left end to connect truss(es) T5 (1 ply 2x4 SP) to back face of bottom 8) chord.

9) Fill all nail holes where hanger is in contact with lumber.

10) 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

Scale = 1:26.2

Loading

TCDL

BCLL

BCDL

TCLL (roof)

LUMBER

WEBS

FORCES

NOTES

TOP CHORD

BOT CHORD

**REACTIONS** (lb/size)

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

Uniform Loads (lb/ft) Vert: 1-2=-60, 3-4=-20 Concentrated Loads (lb)

Vert: 5=-1237 (B)

DEFL

Vert(LL)

2-0-0 oc purlins: 1-2, except end verticals.

l/defl

>999

>832

n/a n/a

L/d

240

180

Rigid ceiling directly applied or 7-1-5 oc bracing MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

PLATES

Weight: 30 lb

MT20

GRIP

244/190

FT = 20%

Page: 1

Horz(CT)

в

5

HUS26 3-6-0

#### 0.87 Vert(CT) 0.03 Matrix-MP

0.16

BRACING TOP CHORD BOT CHORD

Peak Truss Builders LLC, New Hill, user

Job	Truss		Truss Type		Qty	P	Ply	Brook	lyn R⊦	l V2-Ro	of		
Q-2101667-1	V1		Valley		1	1		Job R	eferen	ce (opti	ional)		
Peak Truss Builders LLC, New I	Hill, user	5-0-1	Valley	Run: 8.43	2x4 II 8	1 21 Print: /hwu9pF	t: 8.430 : FSPrGH	Job R S Feb 32 ImtWjF_C 2x4 3	eferen 2021 Mi LUzz7C	ce (opti Tek Indu Ofr-1tZwł	ional) stries, I KM?Cyl	inc. Wed Jul 28 08: MOqjJ2pQMkRC3J —	34:47 Page: 1 RjuuazCwTmA8yleytbyM
Scale = 1:26.9		0-0 <del>-4</del>		2x4 *	5 2x4 II 4-11-13			2x4	4 • 11			_	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.31 0.04 0.05	DEFL Vert(LL Vert(TI Horiz(]	L) L) TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP N BOT CHORD 2x4 SP N WEBS 2x4 SP N OTHERS 2x4 SP N REACTIONS (lb/size) Max Horiz Max Uplift Max Grav FORCES (lb) - N TOP CHORD 1-2=-2	lo.1 lo.3 lo.3 1=76/4-1 <sup>2</sup> 5=241/4- 1=144 (Li 1=-5 (LC 1=120 (Li Max. Con 253/240	1-13, (min. 0-1-8), 4= 11-13, (min. 0-1-8) C 8) 9), 4=-42 (LC 8), 5= C 17), 4=89 (LC 16), np./Max. Ten All for	=71/4-11-13, (min. 0-1-8 -114 (LC 11) 5=258 (LC 16) rces 250 (lb) or less exc	3), cept when shown	BRACING TOP CHC BOT CHC	; )RD )RD	S e F T T	Structura xcept er Rigid ceil MiTek re nstalled nstallatio	l wood nd vert ing dir comme during on guid	sheath icals. ectly ap ends the truss e de.	ing dir plied c at Stat rection	rectly applied or or 10-0-0 oc brac bilizers and requ n, in accordance	4-11-13 oc purlins, sing. ired cross bracing be with Stabilizer

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2)

 

 Gable requires continuous bottom chord bearing.

 \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and

 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4, 5 lb uplift at joint 1 and 114 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof		
Q-2101667-1	V2	Valley	1	1	Job Reference (optional)		
Peak Truss Builders LLC, New Hill, user Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:48							

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:48 Page: 1

ID:Whwu9pFSPrGHmtWjF\_CLUzz7Ofr-V37JXh0rjfWhLTd?z4FglHrfHIE6ifQd?quWH5ytbyL

![](_page_23_Figure_3.jpeg)

![](_page_23_Figure_4.jpeg)

![](_page_23_Figure_5.jpeg)

![](_page_23_Figure_6.jpeg)

2x4 II

3-5-13

Scale = 1:22

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

# LUMBER

LOWIDER		Diviolito	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-5-13 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS	(Ib/size) 1=54/3-5-13, (min. 0-1-8), 4=48/3-5-13, (min. 0-1-8), 5=165/3-5-13, (min. 0-1-8)		installed during truss erection, in accordance with Stabilizer Installation guide.
	Max Horiz 1=97 (LC 8)		
	Max Uplift 1=-1 (LC 9), 4=-29 (LC 8), 5=-73 (LC 11)		
	Max Grav 1=82 (LC 17), 4=61 (LC 16), 5=175 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when	shown.	
NOTES			
4) 147 1 40			

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-4-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 4, 1 lb uplift at joint 1 and 73 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 4)

5)

LOAD CASE(S) Standard BRACING

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	V3	Valley	1	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:48

Page: 1 ID:Whwu9pFSPrGHmtWjF\_CLUzz7Ofr-V37JXh0rjfWhLTd?z4FglHrgnlEsiftd?quWH5ytbyL

![](_page_24_Figure_3.jpeg)

![](_page_24_Figure_5.jpeg)

![](_page_24_Figure_6.jpeg)

2x4 II

Scale = 1:17.1				-	1-1	11-13						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%
		•	•									

2x4 🍬

LUMBER		BRACING	
TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 1-11-13 oc purlins, except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (II M M	b/size) 1=74/1-11-13, (min. 0-1-8), 3=74/1-11-13, (min. 0-1-8) 1ax Horiz 1=50 (LC 8) 1ax Uplift 3=-19 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
M	1ax Grav 1=76 (LC 17), 3=82 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show	/n.	

#### NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber 1) DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

4)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 5)

LOAD CASE(S) Standard

Peak Truss Builders LLC, New Hill, user

Job	Truss		Truss Type		Qty	PI	ly	Broo	oklyn R⊦	HV2-Ro	of		
Q-2101667-1	V4		Valley		1	1		Job	Referer	nce (opt	ional)		
Peak Truss Builder	s LLC, New Hill, user			Run: 8.43	S Feb 3 20	021 Print:	8.430	S Feb 3	3 2021 M	iTek Indu	istries, I	Inc. Wed Jul 28 08	:34:48 Page: 1
						ID:Whw	u9pFS	PrGHmt\	NjF_CLU	Jzz7Ofr-\	/37JXh	0rjfWhLTd?z4FglH	IrVcICQidod?quWH5ytbyL
			/		9-1-13				4				
									3x4 <b>I</b>				
								2x4	Ш				
								4 3 /	4				
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			2.4		6 2×4 =			10					
0 1 1 10			3x4 🌶		2,41			37	ko <b>-</b>				
Scale = 1:42			+		9-1-13				4				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL		in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) TCDI	20.0 10.0	Plate Grip DOL	1.15	TC BC	0.74 0.19	Vert(LL Vert(TI	-) )	n/a n/a	-	n/a n/a	999 999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(T	ſĹ)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								Weight: 63 lb	FT = 20%
LUMBER					BRACIN	G							
TOP CHORD	2x4 SP No.1 2x4 SP No.1				TOP CHO	ORD	9	Structur	al wood	l sheath icals	ning dir	ectly applied or	6-0-0 oc purlins,
WEBS	2x4 SP No.3				BOT CHO	ORD	I	Rigid ce	iling dir	ectly ap	plied o	or 10-0-0 oc bra	cing.
	2x4 SP No.3	1 12 (min 0 1 9) E	-149/0 1 12 (min 0 1	0)	WEBS		ſ	<u>1 Row a</u> MiTek r	at midpt recomm	ends th	at Stal	3-5 bilizers and requ	uired cross bracing be
REACTIONS (I	6=420/9-	1-13, (min. 0-1-8), 5	- 140/9-1-13, (11111. 0-1-	D),				installe	d during	g truss e	erection	n, in accordance	e with Stabilizer
N N	1ax Horiz  1=275 (L 1ax Uplift  1=-4 (LC	.C 8) 9), 5=-91 (LC 8), 6=	-214 (LC 11)				L	Installa	lion gui	ue.			
N	lax Grav 1=224 (L	C 17), 5=229 (LC 16	), 6=525 (LC 16)										
FORCES	(lb) - Max. Con 1-9=-416/372	np./Max. Ten All for 2-9=-387/405	rces 250 (lb) or less exc	cept when shown	1.								
BOT CHORD	1-6=-166/258	2 0 001/100											
WEBS	2-6=-352/236,	3-5=-378/326											
1) Wind: ASC	E 7-10; Vult=120m	ph (3-second gust) V	asd=95mph; TCDL=6.0	0psf; BCDL=6.0p	sf; h=30ft;	B=20ft;	L=20	ft; eave	=4ft; Ca	at. II; Ex	pB;E	nclosed; MWFR	S (directional)
and C-C E MWFRS fo	xterior (2) 0-0-4 to 3 or reactions shown:	3-0-4, Interior (1) 3-0 Lumber DOL=1.60 r	-4 to 9-0-5 zone; cantile late grip DOL=1.60	ever left and right	t exposed ;	; end vei	rtical I	lett and	right ex	posed;	C-C fo	r members and	torces &
2) Gable requ	uires continuous bo	ttom chord bearing.				4 <b>^</b>		0.4-11.1	. 0. 00. 0	0			the second s
<li>3) 1 his truss any other r</li>	s nas been designe nembers, with BCD	a for a live load of 20 0L = 10.0psf.	uupst on the bottom ch	ord in all areas w	nere a rec	angle 3	5-06-0	iu tall by	/ 2-00-0	U WIDE	will fit I	between the bol	tiom chord and
<ol> <li>Provide me</li> <li>This truss i</li> </ol>	echanical connections in acco	on (by others) of truss rdance with the 2015	s to bearing plate capat 5 International Resident	ole of withstandin ial Code sections	ig 91 lb upl s R502.11.	lift at joir 1 and R	nt 5, 4 802.1	b uplif 0.2 and	t at join I referer	t 1 and nced sta	214 lb andard	uplift at joint 6. ANSI/TPI 1.	

![](_page_26_Figure_0.jpeg)

 Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 7-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 4, 13 lb uplift at joint 1 and 187 lb uplift at joint 5.

5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job		Truss		Truss Type		Qty	Ply	,	Brook	dyn RH	l V2-Ro	of		
Q-2101667-	-1	V6		Valley		1	1		Job R	eferen	ice (onti	onal)		
Peak Truss Build	lers LLC, New H	lill, user			Run: 8.43	S Feb 3 2	021 Print: 8	3.430 5	S Feb 32	2021 Mi	Tek Indu	stries,	Inc. Wed Jul 28 08:	34:49 Page: 1
						ID	:_tUGN9G	59908	BO15vohj	ja0Az70	Ofq-zGhh	l11TUz	eYzdCBXnmvIUOk	k8hZiR6GmEUd3pXytbyK
				/		6-1-13				+				
									2x	(4 II				
				12 <sup>12</sup>	8	2x4 II 2 ST1 B B C C C	x1/		3 W1	4				
					0.4	5			2x	(4 u				
					2x4 <b>%</b>	284								
Scale = 1:30.7				Ł		6-1-13				ł				
Loading TCLL (roof) TCDL		(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-( 1. 1.	D-0 <b>CSI</b> 15 TC 15 BC	0.50	DEFL Vert(LL) Vert(TL)		in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCDL		10.0	Code	IRC2015/TPI20	14 Matrix-MP	0.00		-)	0.00	4	n/a	n/a	Weight: 33 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No 2x4 SP No 2x4 SP No	o.1 o.1 o.3				BRACIN TOP CHO BOT CHO	<b>G</b> DRD DRD	S ez R	tructura xcept er tigid ceil	l wood nd vert ling dire	sheath icals. ectly ap	ing dii plied (	rectly applied or por 10-0-0 oc brac	6-0-0 oc purlins, sing.
	2x4 SP No	0.3 =93/6-1	.13 (min 0-1-8) 4-9	88/6-1-13 (min 0 1	-8)			N ir	/liTek re nstalled	commo durina	ends tha i truss e	at Sta rectio	bilizers and requ n, in accordance	ired cross bracing be with Stabilizer
REACTIONS	Max Horiz 1 Max Uplift 1 Max Grav 1	=93/6-1 =299/6- =181 (L0 =-9 (LC =150 (L0	1-13, (min. 0-1-8) 1-13, (min. 0-1-8) C 8) 9), 4=-53 (LC 8), 5=- C 17), 4=110 (LC 16)	-146 (LC 11) ), 5=321 (LC 16)	-0),			Li Li	nstallati	on guid	de.			
FORCES TOP CHORD WEBS	(lb) - M 1-8=-3 2-5=-2	lax. Com 13/276, 2 59/188	p./Max. Ten All for 2-8=-295/299	ces 250 (lb) or less	except when shown	I.								
NOTES 1) Wind: AS and C-C MWFRS	SCE 7-10; Vul Exterior (2) 0 for reactions	t=120mp -0-4 to 3 shown;	oh (3-second gust) V -0-15, Interior (1) 3-0 Lumber DOL=1.60 p	asd=95mph; TCDL 0-15 to 6-0-5 zone; late grip DOL=1.60	=6.0psf; BCDL=6.0p cantilever left and rig	sf; h=30ft; ght expose	B=20ft; L d ; end v	.=20ft ertica	; eave= I left and	4ft; Ca d right	t. II; Exj expose	p B; E d;C-C	nclosed; MWFR: for members an	S (directional) d forces &

Gable requires continuous bottom chord bearing.
\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 4, 9 lb uplift at joint 1 and 146 lb uplift at joint 5.
This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	V7	Valley	1	1	Job Reference (optional)

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:49 Page: 1 ID:\_tUGN9G599O8O15vohja0Az7Ofq-zGhhl11TUzeYzdCBXnmvIUOnyhZ6R6TmEUd3pXytbyK

![](_page_28_Figure_3.jpeg)

![](_page_28_Figure_4.jpeg)

![](_page_28_Figure_5.jpeg)

Scale = 1:28.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

DDACING

# 

LUWIDER		DRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-7-13 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (	lb/size) 1=71/4-7-13, (min. 0-1-8), 4=66/4-7-13, (min. 0-1-8),		installed during truss erection, in accordance with Stabilizer
	5=224/4-7-13, (min. 0-1-8)		Installation guide.
N	Max Horiz 1=133 (LC 8)		
N	Max Uplift 1=-4 (LC 9), 4=-39 (LC 8), 5=-105 (LC 11)		
N	Max Grav 1=112 (LC 17), 4=82 (LC 16), 5=239 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show	/n.	
NOTES			
1) \\/imd. AC(	25.7.40. Vult-120mmh (2 accord quat) Vacd-05mmh, TCDL-6 0maf, BCDL-6 (	mot h-204, D-204, I.	-20ft, asys-Aft, Cat. II, Eve D. Englaged, MM/EDS (directional)

SCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) Wind: / and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4, 4 lb uplift at joint 1 and 105 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 4)

5)

	Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof	
	Q-2101667-1	V8	Valley	1	1	Job Reference (optional)	
Peak Truss Builders LLC, New Hill, user Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:50						Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:50 P	age: 1

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:50 Page: 1 ID:\_tUGN9G599O8O15vohja0Az7Ofq-RSF3yN25FHmOannO5VH8qix?D5vdAZ\_wS8NcLzytbyJ

![](_page_29_Figure_2.jpeg)

![](_page_29_Figure_3.jpeg)

![](_page_29_Figure_4.jpeg)

Scale = 1:20.9

											_		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%	

# LUMBER

TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-1-13 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (	(lb/size) 1=49/3-1-13, (min. 0-1-8), 4=43/3-1-13, (min. 0-1-8), 5=148/3-1-13, (min. 0-1-8)		installed during truss erection, in accordance with Stabilizer Installation guide.
ſ	Max Horiz 1=86 (LC 8)		
ſ	Max Uplift 4=-26 (LC 8), 5=-64 (LC 11)		
1	Max Grav 1=74 (LC 17), 4=55 (LC 16), 5=157 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show	n.	
NOTES			

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

4)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 64 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 5)

Standard LOAD CASE(S)

BRACING

2x4 II

3-1-13

2x4 II

Job	Truss	Truss Type	Qty	Ply	Brooklyn RH V2-Roof
Q-2101667-1	V9	Valley	1	1	Job Reference (optional)

 Run: 8.43 S
 Feb
 3 2021 Print: 8.430 S
 Feb
 3 2021 MiTek Industries, Inc. Wed Jul 28 08:34:50
 Page: 1

 ID:\_tUGN9G59908015vohja0Az70fq-RSF3yN25FHmOann05VH8qix0Q5vVAZNwS8NcLzytbyJ

![](_page_30_Figure_3.jpeg)

# 2x4 🛛

![](_page_30_Figure_5.jpeg)

![](_page_30_Figure_6.jpeg)

ZX4

Scale = 1:16				×	/ 1	-7-13	$\rightarrow$					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		, ,					Weight: 7 lb	FT = 20%

2x4 🥠

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 1-7-13 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (I M M	b/size) 1=60/1-7-13, (min. 0-1-8), 3=60/1-7-13, (min. 0-1-8) 1ax Horiz 1=39 (LC 8) 1ax Uplift 3=-15 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
N	1ax Grav 1=61 (LC 17), 3=67 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show	n.	

#### NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3.

5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.