

Loading (psf) Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC 0.32 Vert(CT) n/a 999 n/a TCDL 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 2 n/a n/a IRC2015/TPI2014 BCLL Matrix-MP 0.0 Code BCDL 10.0 Weight: 42 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.2 Left: 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

REACTIONS All bearings 7-11-10.

(lb) - Max Horiz 2=-122 (LC 9), 7=-122 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10

Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

FORCES

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

NOTES

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

2)

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33 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.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

5) Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc. 6)

7) ^t 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.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces

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

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

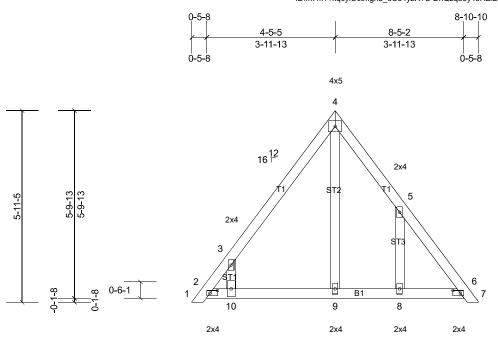
LOAD CASE(S) Standard BRACING TOP CHORD BOT CHORD

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	106 The Crossings
20070044	PB1GE	Piggyback	1	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:14 Page: 1 ID:m7m??kq6yiUctmgh5_6U34yzR?U-DnQzq85y48REI2t8ITGGx_htS_fVBDCFgADESLyzQkN



3x6

Scale = 1:35.7

Plate Offsets (X, Y): [2:0-2-13,0-1-0], [6:0-2-12,0-1-0] Loading 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) Spacing in (loc) Plate Grip DOL TCLL (roof) 20.0 1.15 TC 0.23 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a 999 n/a TCDL 10.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.00 6 n/a n/a BCLI IRC2015/TPI2014 Matrix-MP 0.0 Code BCDL 10.0 Weight: 47 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3 *Except* ST2:2x4 SP No.2

REACTIONS All bearings 7-11-10.

(lb) - Max Horiz 2=-122 (LC 9), 11=-122 (LC 9)

- Max Uplift All uplift 100 (lb) or less at joint(s) 6, 14 except 2=-155 (LC 11),
- 8=-138 (LC 14), 10=-208 (LC 13), 11=-155 (LC 11)
 - Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 8, 9, 11, 14 except
 - 10=358 (LC 25)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-340/283

WEBS 3-10=-482/481, 5-8=-269/260

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33 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 3)

qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate

- DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

7) * 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.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral 8) forces

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)

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

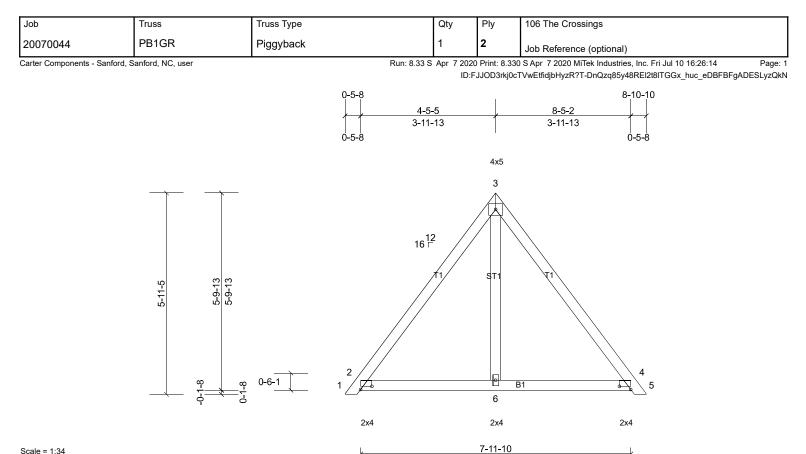
LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

7-11-10

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.



Scale = 1:34

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

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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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 83 lb	FT = 20%

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.

LUMBER

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

REACTIONS All bearings 7-11-10.

(lb) - Max Horiz 2=-122 (LC 9), 7=-122 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10

Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

FORCES NOTES

2-ply truss to be connected together as follows: 1)

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

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

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 2) distribute only loads noted as (F) or (B), unless otherwise indicated.

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 4) 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=1.33

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.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 6) DOL=1.15): Category II: Exp B: Fully Exp.: Ct=1.10

Gable requires continuous bottom chord bearing. 7)

8) Gable studs spaced at 4-0-0 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

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. 11)

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

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T1		3	1	Job Reference (optional)

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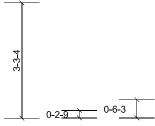
2x4

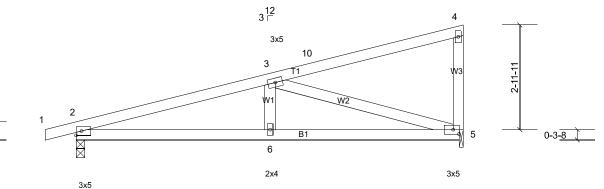
11-0-0

Weight: 48 lb

FT = 20%







			/	-6-2 -6-2				<u>10-8</u> 4-6					
Scale = 1:32.7										(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	0.32	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	5-6	>999	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	5	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		1							

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LUMBER		BRACING	
	4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-11-3 oc purlins,
BOT CHORD 2x4	4 SP No.2		except end verticals.
WEBS 2x4	4 SP No.3 *Except* W2:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
Max U	e) 2=411/0-3-0, (min. 0-1-8), 5=366/0-1-8, (min. 0-1-8) łoriz 2=92 (LC 14) Jplift 2=-37 (LC 11), 5=-20 (LC 15) Grav 2=489 (LC 2), 5=432 (LC 2)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES ((lb) - Max. Comp./Max. Ten All forces 250 (lb) or less ex	cept when shown.	
TOP CHORD	2-3=-905/267		
BOT CHORD 2	2-6=-342/843, 5-6=-342/843		
WEBS 3	3-5=-850/313		

NOTES

BCDL

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

3) Unbalanced snow loads have been considered for this design.

10.0

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 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 any other members.

6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

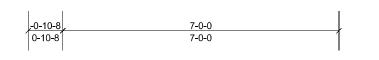
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

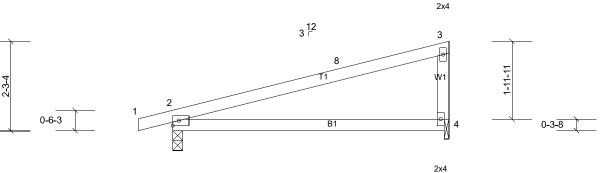
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.

9) 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.

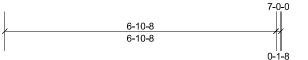
Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T1A		3	1	Job Reference (optional)

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3x5



Scale = 1:29.2

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	TC	0.77	Vert(LL)	0.10	4-7	>861	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.22	4-7	>381	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 25 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2	BRACING TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 2=277/0-3-0, (min. 0-1-8), 4=229/0-1-8, (min. 0-1-8) Max Horiz 2=61 (LC 14) Max Uplift 2=-33 (LC 11), 4=-13 (LC 15)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Max Grav 2=330 (LC 2), 4=271 (LC 2)

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

NOTES

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 1) 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=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate

2)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

3) Unbalanced snow loads have been considered for this design.

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 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 5) any other members.

Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 6)

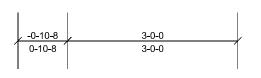
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

9) 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.

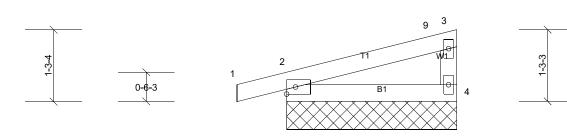
Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T1AGE		1	1	Job Reference (optional)

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3 T

2x4



2x4

3-0-0 Scale = 1:20.3 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 тс 0.10 Vert(LL) n/a 999 MT20 244/190 n/a Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC 0.07 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a IRC2015/TPI2014 Matrix-MP BCLL 0.0* Code BCDL Weight: 12 lb FT = 20% 10.0

3x5

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2	BRACING TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
WEBS 2x4 SP No.3 REACTIONS (lb/size) 2=145/3-0-0, (min. 0-1-8), 4=93/3-0-0, (min. 0-1-8), 5=145/3-0-0, (min. 0-1-8) Max Horiz 2=30 (LC 14), 5=30 (LC 14)	BOT CHORD	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.
Max Uplift 2=-31 (LC 11), 4=-3 (LC 15), 5=-31 (LC 11) Max Grav 2=175 (LC 2), 4=109 (LC 2), 5=175 (LC 2) FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when	en shown.	

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

 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.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

6) Gable requires continuous bottom chord bearing.

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

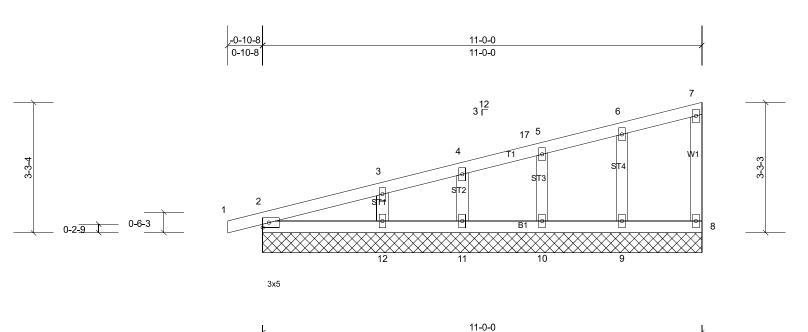
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

10) 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	106 The Crossings
20070044	T1GE		1	1	Job Reference (optional)

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Scale = 1:28.9

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 47 lb	FT = 20%

BRACING LUMBER TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 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 installed during truss erection, in accordance with Stabilizer **REACTIONS** All bearings 11-0-0. Installation guide. (lb) - Max Horiz 2=92 (LC 14), 13=92 (LC 14) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 9, 10, 11, 12, 13

Max Grav All reactions 250 (lb) or less at joint(s) 2, 8, 9, 10, 11, 12, 13

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

NOTES

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
 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

 Truss designed for wind loads in the plane of the truss only. For st qualified building designer as per ANSI/TPI 1.

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

6) All plates are 2x4 MT20 unless otherwise indicated.

7) Gable requires continuous bottom chord bearing.

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

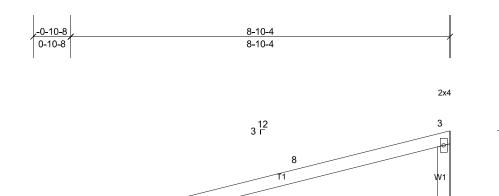
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

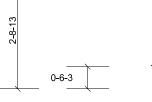
10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 9, 10, 11, and 12. This connection is for uplift only and does not consider lateral forces.

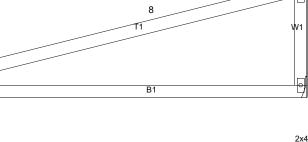
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	Т2	Monopitch	3	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:15 Page: 1 ID:9axkUYub969qLlst2eTueSySZwi-hz L1U5brSZ5MCSKJAnWTBEsMOpgwihOuqzn?nyzQkM









Structural wood sheathing directly applied, except end verticals.

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

Rigid ceiling directly applied or 9-0-12 oc bracing.

Installation guide.

Scale = 1:26.9			8-10-4										
Loading	(psf)	Spacing	2-0-0	-	0.00	DEFL	in	(loc)	l/defl		PLATES	GRIP	
TCLL (roof) Snow (Pf/Pg)	20.0 13.9/20.0	Plate Grip DOL Lumber DOL	1.15 1.15		0.99 0.85	Vert(LL) Vert(CT)	0.22 -0.54	4-7 4-7	>485 >195	240 180	MT20	244/190	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	()	0.05	2	n/a	n/a			
BCLL BCDL	0.0* 10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%	

BRACING TOP CHORD

BOT CHORD

LUMBER

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

REACTIONS (lb/size) 2=339/0-3-8, (min. 0-1-8), 4=293/ Mechanical, (min. 0-1-8) Max Horiz 2=75 (LC 14) Max Uplift 2=-35 (LC 11), 4=-16 (LC 15)

Max Grav 2=403 (LC 2), 4=346 (LC 2)

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

2

3x5

FORCES NOTES

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 1) 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=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

3) Unbalanced snow loads have been considered for this design.

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 4)

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 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 16 lb uplift at joint 4.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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)

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T2GE	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:16 Page: 1 ID:9axkUYub969qLlst2eTueSySZwi-9AYjFq6Dclhy M1Xstll0PmF7nMSf9PX7UiLXDyzQkL

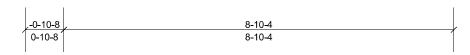
Structural wood sheathing directly applied or 6-0-0 oc purlins,

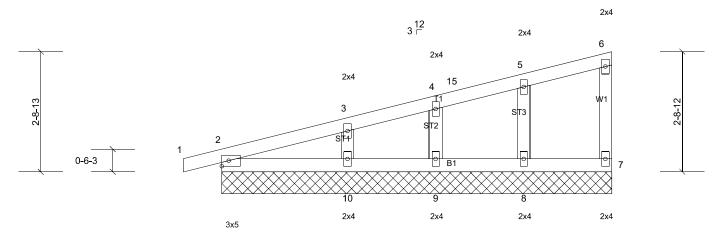
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

except end verticals.

Installation guide.





Scale = 1:26.2			<u> </u>		8-	10-4						
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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
ICDL (10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 37 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

REACTIONS All bearings 8-10-4.

(lb) - Max Horiz 2=75 (LC 14), 11=75 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 7, 8, 9, 10, 11

Max Grav All reactions 250 (lb) or less at joint(s) 2, 7, 8, 9, 10, 11

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

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

 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 gualified building designer as per ANSI/TPI 1.

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

6) All plates are 2x4 MT20 unless otherwise indicated.

7) Gable requires continuous bottom chord bearing.

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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 7, 8, 9, and 10. This connection is for uplift only and does not consider lateral forces.

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.

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	Т3	Monopitch	7	1	Job Reference (optional)

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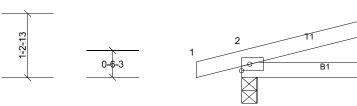
1-2-12





3

M1



4	
2x4	

Scale = 1:22.1						2-10-4		ł				
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	0.09	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 11 lb	FT = 20%

3x5

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2	BRACING TOP CHORD	Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 2=140/0-3-8, (min. 0-1-8), 4=85/ Mechanical, (min. 0-1-8) Max Horiz 2=29 (LC 14) Max Uplift 2=-31 (LC 11), 4=-4 (LC 15)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Max Grav 2=169 (LC 2), 4=100 (LC 2)

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

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

Unbalanced snow loads have been considered for this design. 3)

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 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 5) 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 4 lb uplift at joint 4.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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)

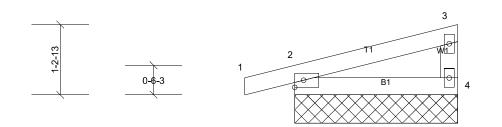
Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T3GE	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:16 Page: 1 ID:9axkUYub969qLIst2eTueSySZwi-9AYjFq6Dclhy_M1XstII0PmF8nMBf9xX7UiLXDyzQkL



3 12

2x4





2x4

2-10-4 Scale = 1:20.2 (loc) Loading (psf) Spacing 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 тс 0.09 Vert(LL) n/a 999 MT20 244/190 n/a Snow (Pf/Pg) Lumber DOL 1.15 13.9/20.0 BC 0.06 Vert(CT) n/a . n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a IRC2015/TPI2014 BCLL 0.0* Code Matrix-MP BCDL Weight: 11 lb FT = 20%10.0

3x5

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2	BRACING TOP CHORD	Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (Ib/size) 2=140/2-10-4, (min. 0-1-8), 4=88/2-10-4, (min. 0-1-8), 5=140/2-10-4, (min. 0-1-8) Max Horiz 2=29 (LC 14), 5=29 (LC 14)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Max Uplift 2=-31 (LC 11), 4=-3 (LC 15), 5=-31 (LC 11)		
Max Grav 2=169 (LC 2), 4=103 (LC 2), 5=169 (LC 2)		
FORCES (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except w	hen shown.	

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

 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.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

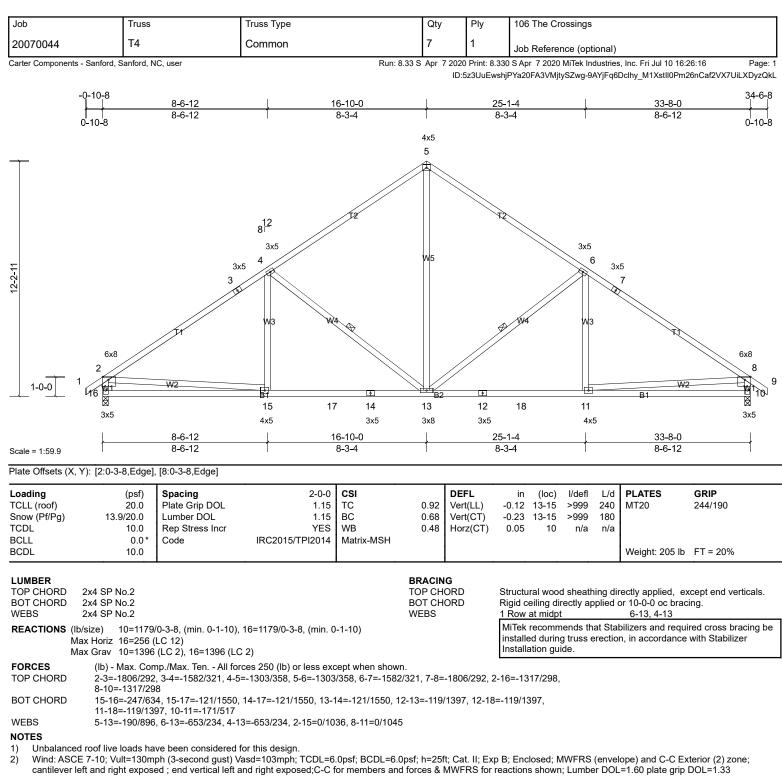
6) Gable requires continuous bottom chord bearing.

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

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.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

10) 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.



3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate

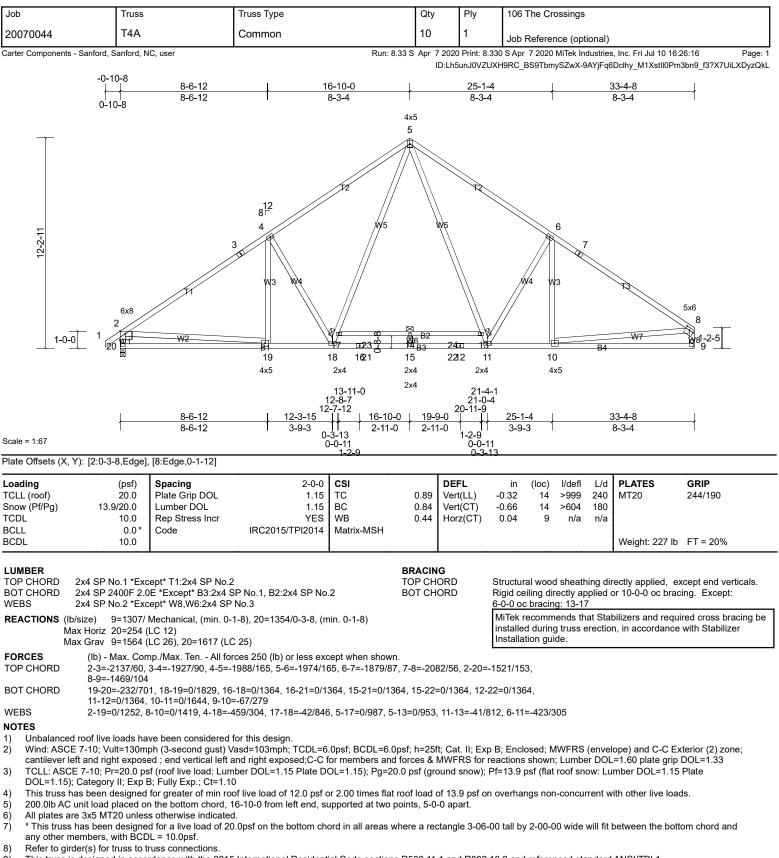
DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

5) All plates are 3x5 MT20 unless otherwise indicated.

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, with BCDL = 10.0psf.

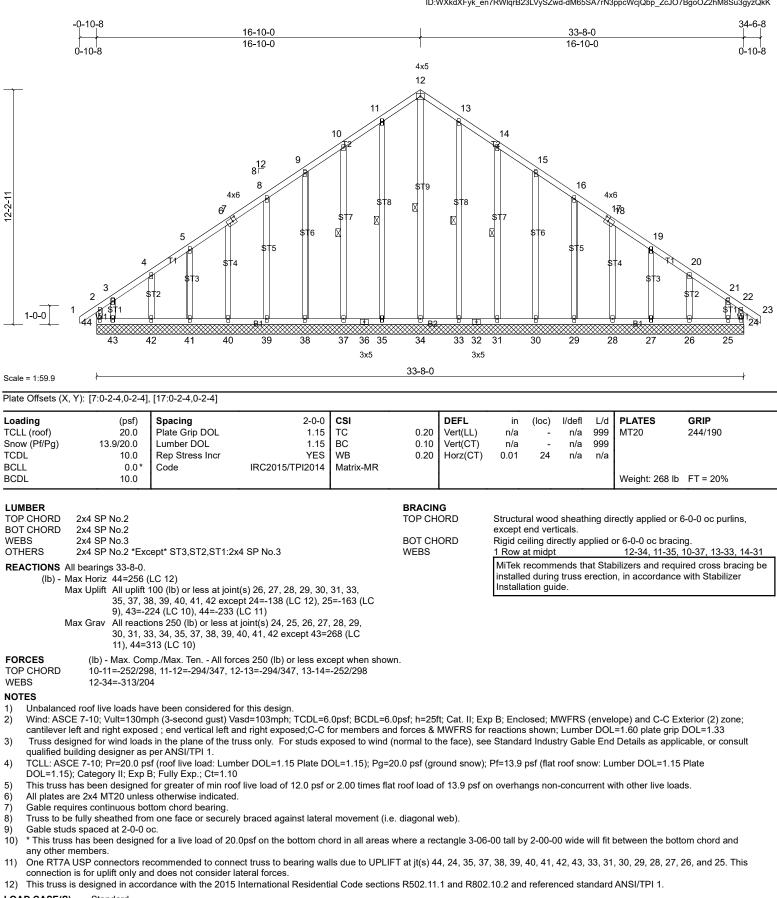
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

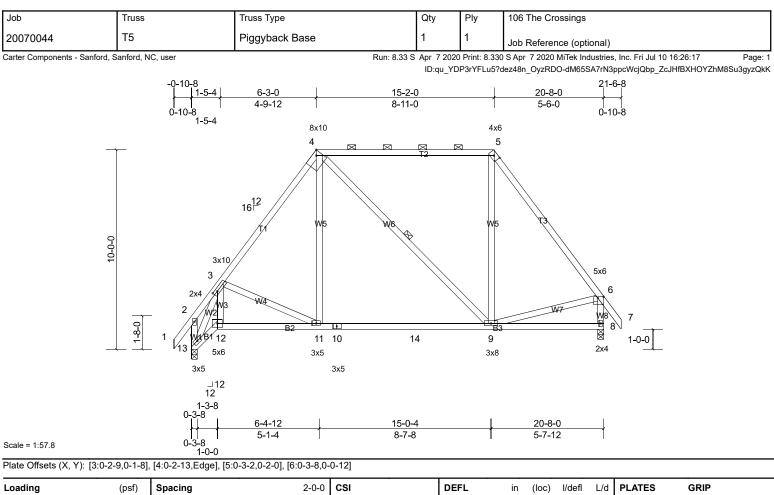


9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T4GE	Common Supported Gable	2	1	Job Reference (optional)

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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	0.68	Vert(LL)	-0.17	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.29	9-11	>844	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 149 lb	FT = 20%
												-

Installation guide.	LUMBER TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2 *Except* W3,W1,W2,W8:2x4 SP No.3 REACTIONS (lb/size) 8=785/0-3-8, (min. 0-1-8), 13=782/0-3-8, (min. 0-1-8), Max Horiz Max Grav 8=876 (LC 2), 13=876 (LC 2)	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 9-11-9 oc bracing. 1 Row at midpt 4-9 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=-826/232, 4-5=-431/230, 5-6=-788/205, 6-8=-837/209 BOT CHORD 12-13=-354/904, 11-12=-246/653, 10-11=-82/525, 10-14=-82/525, 9-14=-82/525

MERC 2 40-200/200 44-000/000 444-0/004 040-001/000 00 50/101

WEBS 3-12=-206/588, 3-11=-265/226, 4-11=0/354, 3-13=-1316/282, 6-9=-56/431

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

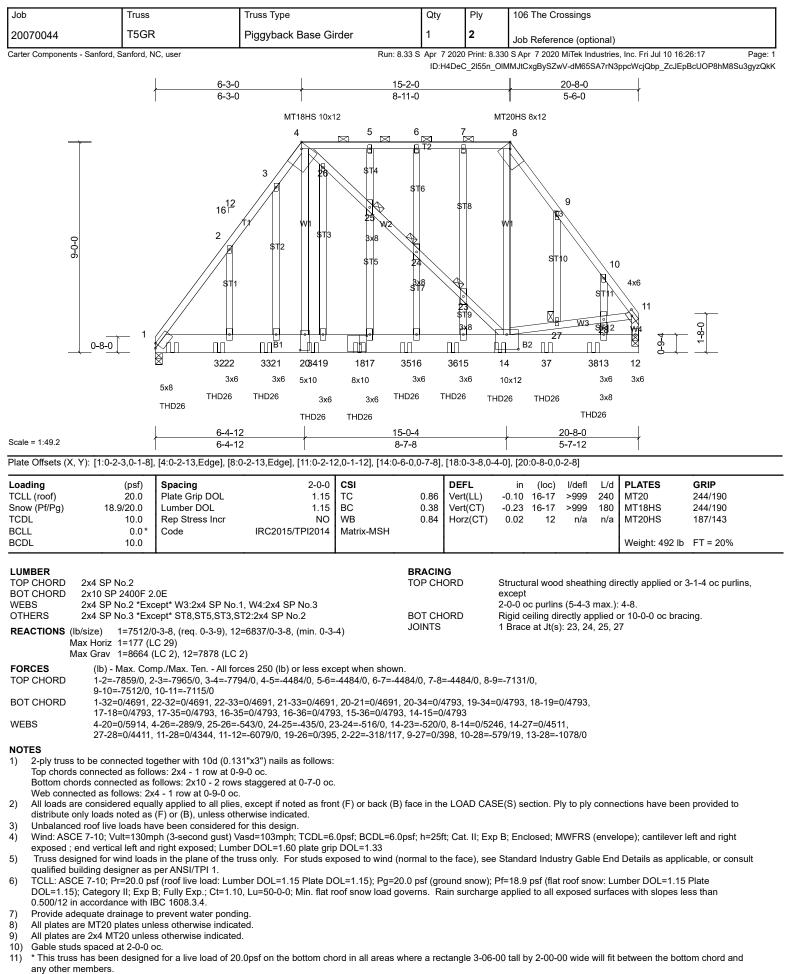
5) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

7) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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.

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



12) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T5GR	Piggyback Base Girder	1	2	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:17 Page: 2 ID:H4DeC_2l55n_OIMMJtCxgBySZwV-dM65SA7rN3ppcWcjQbp_ZcJEpBcUOP8hM8Su3gyzQkK

13) 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
(5) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 18-8-12 to connect truss(es) T4A (1 ply 2x4 SP) to back face of bottom chord.

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

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-4=-48, 4-8=-58, 8-11=-48, 12-29=-20

Concentrated Loads (lb)

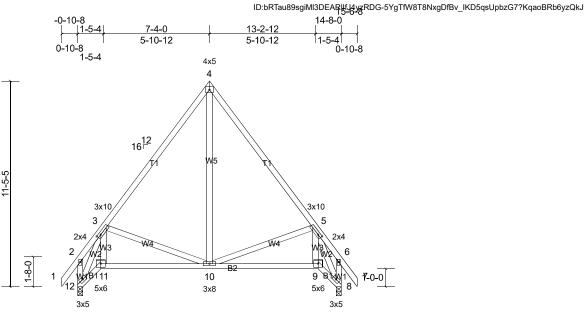
Vert: 18-1287 (B), 14=-1287 (B), 31=-1290 (B), 32=-1287 (B), 33=-1287 (B), 34=-1287 (B), 35=-1287 (B), 36=-1287 (B), 37=-1287 (B), 38=-1287 (B

Job	Truss		Truss Type		Qty		Ply	106 The C	rossinge			1
20070044	T5SE		Piggyback Base St	ructural Gable	1		-					
	- Sanford, Sanford, N							Job Refer			, Inc. Fri Jul 10 16:2	26:18 Page: 1
		-0-10-8 1-5-4 1-5-4 1-5-4 -10-8 1-5-4	6-3-0 4-9-12	15			98EvPEuF	R4f_t2mQmsy	zRDH-5Y		8NxgDfBv_IKD5qs\$ 6-8 	Sqbuv7xuqaoBRb6yzQkJ
	10-0-0	3x10 3 2 w/w3 1 w/w3118 19 5x6 3x5	6x8 4 16 ¹² W5 B2 17 3x5	5 6 5 7 5 7 5 7 20 8 23 w6 141 16 3x5	7 5 5 12 5 13 5 14 22 26	8 5 5 2 1	5x6 9 W5 X5 15 3x8	10 FT3 ST5 Z4	11 516 W7 25	1 5x6 12 W8 1	13	
Scale = 1:57.8 Plate Offsets (X, Loading TCLL (roof) Snow (Pf/Pg) TCDL	Y): [3:0-2-9,0-1-8], (psf) 20.0 18.9/20.0 10.0	12 12 1-3-8 0-3-8 1-0-0 , [4:0-4-12,0-1-8], [9: Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	6-4-12 5-1-4 0-2-13,Edge], [12:0-3-0 2-0-0 1.15 1.15 YES	8- 0,0-0-12] CSI TC	-0-4 -7-8 0.65 0.62 0.55	DEFL Vert(L Vert(C Horz(C	L) -(CT) -(20- 5-7 in (loc) 0.17 15-17 0.27 15-17 0.02 14	-12) l/defl / >999 / >650	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Code	IRC2015/TPI2014	Matrix-MSH		,	,				Weight: 183 lb	FT = 20%
Μ	2x4 SP No.3 *Exc b/size) 14=70/6- 19=517/C lax Horiz 19=-242 lax Uplift 14=-28 (I lax Grav 14=125 ((Ib) - Max. Con 3-4=-507/122, 18-19=-354/69 3-18=-206/463	D-3-8, (min. 0-1-8) (LC 11) LC 29), 15=-37 (LC ⁻¹ LC 30), 15=1068 (LC np./Max. Ten All fo 9-10=-44/277 9, 17-18=-246/503, i, 3-17=-304/239, 4-1	P No.2 =980/6-3-8, (min. 0-1-8), cept when shown. -84/336, 15-26=-8 34, 20-23=-488/11	4/336 I 3, 22-23=	ORD ORD =-522/1	ex Ri 1 1 Mir Ir 40, 21-2	ccept end ver gid ceiling of Row at mid <u>Brace at Jt(</u> liTek recom sstalled duri sstallation g	erticals, a directly a pt <u>s): 20, 2⁻</u> mends th ng truss uide.	nd 2-0- oplied o 1 <u>, 22, 2</u> nat Stat	rectly applied or 6 -0 oc purlins (10- or 6-0-0 oc bracir 9-15 4	6-0-0 oc purlins, 0-0 max.): 4-9. 1g. ired cross bracing be
 Wind: ASC cantilever I Truss desi qualified but TCLL: ASC DOL=1.15) 0.500/12 ir This truss I Provide ad All plates a Gable stud * This truss any other r Bearing at One RT7A forces. 	E 7-10; Vult=130m eft and right expose gned for wind loads uilding designer as E 7-10; Pr=20.0 ps category II; Exp E accordance with II has been designed equate drainage to rre 2x4 MT20 unles is spaced at 2-0-0 c has been designe members, with BCD joint(s) 19 consider USP connectors re is designed in acco	ed ; end vertical left a s in the plane of the i per ANSI/TPI 1. sf (roof live load: Lun 3; Fully Exp.; Ct=1.1 BC 1608.3.4. for greater of min ro prevent water pondi s otherwise indicated bc. d for a live load of 20 JL = 10.0psf. rs parallel to grain va scommended to conr	Vasd=103mph; TCDL=6 and right exposed;C-C i russ only. For studs ex ober DOL=1.15 Plate D 0, Lu=50-0-0; Min. flat r of live load of 12.0 psf of ng. 1. 0.0psf on the bottom ch lue using ANSI/TPI 1 a sect truss to bearing wa 5 International Resident	for members and f (sposed to wind (not OL=1.15); Pg=20. or of snow load gov or 2.00 times flat re ord in all areas wh ngle to grain formu- ills due to UPLIFT tial Code sections	forces & M ormal to th 0 psf (gro verns. Ra oof load o nere a rec ula. Build at jt(s) 14 R502.11.	MWFRS bund sn ain surc of 13.9 p tangle t and 15 1 and F	S for rea), see St ow); Pf= tharge a psf on or 3-06-00 signer sh 5. This c R802.10.	ctions show andard Indu 18.9 psf (fli- pplied to all verhangs no tall by 2-00 nould verify connection i 2 and refer	m; Lumb ustry Gat at roof sn exposed on-concu -00 wide capacity s for uplit	er DOL ble End ow: Lu surfac rrent w will fit I of beau t only a	=1.60 plate grip Details as applid mber DOL=1.15 les with slopes le ith other live load between the bott ring surface. and does not con	DOL=1.33 cable, or consult Plate ss than ds. om chord and

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



Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:18 Page: 1





Scale = 1:64.1

Plate Offsets (X, Y): [3:0-2-9,0-1-8], [5:0-2-9,0-1-8]

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	0.52	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 116 lb	FT = 20%

BOT CHORD WEBS REACTIONS (Ib/ Ma Ma	ux Horiz 12=-279 (LC 11) ux Uplift 8=-7 (LC 13), 12=-7 (LC 14)	BRACING TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 9-6-9 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES TOP CHORD BOT CHORD WEBS	 kx Grav 8=636 (LC 2), 12=636 (LC 2) (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when sho 3-4=-517/201, 4-5=-526/201 11-12=-381/870, 10-11=-271/602, 9-10=-96/473, 8-9=-125/674 4-10=-128/408, 5-10=-349/289, 5-9=-32/495, 3-10=-389/310, 3-11=-208/ 		5-8=-1241/343

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 4)

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 any other members.

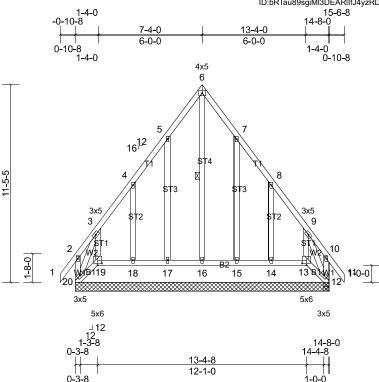
Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 6)

7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.

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.

Job	Truss	Truss Type	Qty	Ply	106 The Crossings	
20070044	T6GE		1	1	Job Reference (optional)	
Carter Components - Sanford, S	anford, NC, user	Run: 8.33 S	Apr 7 2020	Print: 8.330	S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:19	Page: 1

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:19 Page: 1 ID:bRTau89sgiMI3DEARIIfJ4yzRDG-ZkDrts85vg3XrpI5Y0rSe1OI7?MNsTY_pSx?8YyzQkI



Scale = 1:66.6

Plate Offsets (X, Y): [13:0-3-0,0-1-4], [19:0-3-0,0-1-4]

	•											
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	0.17	Vert(LL)	0.00	19-20	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 132 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.2		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 *Except* ST4,ST3:2x4 SP No.2	WEBS	1 Row at midpt 6-16
(lb) -	All bearings 14-8-0. Max Horiz 20=-279 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 12, 15, 16, 17 except		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
	13=-135 (LC 14), 14=-109 (LC 14), 18=-108 (LC 13), 19=-346 (LC 10), 20=-397 (LC 11)		
	Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 17, 18 except 16=274 (LC 14), 19=434 (LC 11), 20=473 (LC 12)		

FORCES

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

TOP CHORD 5-6=-269/323, 6-7=-269/323

BOT CHORD 19-20=-282/328, 12-13=-273/326

3-20=-516/442, 9-12=-503/404, 6-16=-442/299, 3-19=-387/408, 9-13=-368/401 WEBS

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33 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 3)

qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

All plates are 2x4 MT20 unless otherwise indicated. 6)

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

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

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 9) any other members.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 20, and 12. This connection is for uplift only and does not consider lateral 10) forces

One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces. 11)

One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 17, 18, 15, and 14. This connection is for uplift only and does not 12) consider lateral forces.

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. 13)

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	T6GE		1	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:19 Page: 2 ID:bRTau89sgiMl3DEARIIfJ4yzRDG-ZkDrts85vg3XrpI5Y0rSe10I7?MNsTY_pSx?8YyzQkl

<u> </u>		1			1					
Job	Truss	Truss Type		Qty	Ply	106 The C	Crossings			
20070044	V1	Valley		1	1	Job Refer		,		
Carter Components -	- Sanford, Sanford, NC, user		Run: 8.33 5 -4-9 -4-9	•		•		ZkDrts8 18-	;, Inc. Fri Jul 10 16: 85vg3Xrpl5Y0rSe1(-9-2 	26:19 Page: 1 Djf?LGsR5_pSx?8YyzQkI
			3 11 B ST2 B	ST3		5 8 8 7 2 8 7 2			7	
Scale = 1:57.5		3x5 13 14	12 11 3x5	10 18-9-2		9	15	8 _{3x}	5 -∤	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 Plate Grip DOL 13.9/20.0 Lumber DOL 10.0 Rep Stress Incr 0.0* Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-SH	0.26 Ve 0.17 Ve	e FL ert(LL) ert(TL) oriz(TL)	in (loc n/a n/a 0.01 7	- n/a - n/a	L/d 999 999 n/a	PLATES MT20 Weight: 114 lb	GRIP 244/190 FT = 20%
BOT CHORD OTHERS REACTIONS All (lb) - Ma Ma	ax Horiz 1=-260 (LC 9) ax Uplift All uplift 100 (lb) or less at jo 7=-195 (LC 12), 8=-166 (LC 13), 13=-166 (LC 13) All reactions 250 (lb) or less 7=289 (LC 14), 8=348 (LC 2	int(s) except 1=-228 (LC 14), 9=-227 (LC 14), 12= at joint(s) except 1=304 5), 9=547 (LC 25), 10=34	TC BC WI 227 (LC (LC 13),	RACING OP CHORI OT CHORI EBS		Rigid ceiling o 1 Row at mid MiTek recom	directly ap pt mends th ng truss e	oplied of	or 10-0-0 oc brad 4-10	ired cross bracing be
 Wind: ASCE cantilever le Truss desig qualified bui TCLL: ASCE DOL=1.15; All plates ard Gable requir Gable studs * This truss l any other m One RT7A L lateral forces 	27), 12=547 (LC 24), 13=344 (lb) - Max. Comp./Max. Ten All fo 1-2=-452/368, 6-7=-452/368 3-12=-455/394, 2-13=-363/318, 5- I roof live loads have been considered 7-10; Vult=130mph (3-second gust) off and right exposed ; end vertical left ned for wind loads in the plane of the ilding designer as per ANSI/TPI 1. E 7-10; Pr=20.0 psf (roof live load: Lun Category II; Exp B; Fully Exp.; Ct=1.' e 2x4 MT20 unless otherwise indicate res continuous bottom chord bearing. s spaced at 4-0-0 oc. has been designed for a live load of 2 embers, with BCDL = 10.0psf. JSP connectors recommended to con s. designed in accordance with the 201	9=-455/394, 6-8=-363/31 d for this design. Vasd=103mph; TCDL=6. and right exposed;C-C for truss only. For studs exp mber DOL=1.15 Plate DO 10 ad.	0psf; BCDL=6.0psf; or members and for posed to wind (norm DL=1.15); Pg=20.0 p ord in all areas when ils due to UPLIFT at	ces & MW hal to the fa osf (ground e a rectany jt(s) 1, 7, 7	FRS for re ace), see d snow); P gle 3-06-0 12, 13, 9,	eactions show Standard Indu f=13.9 psf (fl: 0 tall by 2-00 and 8. This c	n; Lumbe ustry Gab at roof sn -00 wide onnection	er DOL le End ow: Lu will fit l	=1.60 plate grip Details as appli mber DOL=1.15 between the bott uplift only and de	DOL=1.33 cable, or consult Plate tom chord and

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	V2	Valley	1	1	Job Reference (optional)

Carter Components - Sanford, Sanford, NC, user Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:19

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

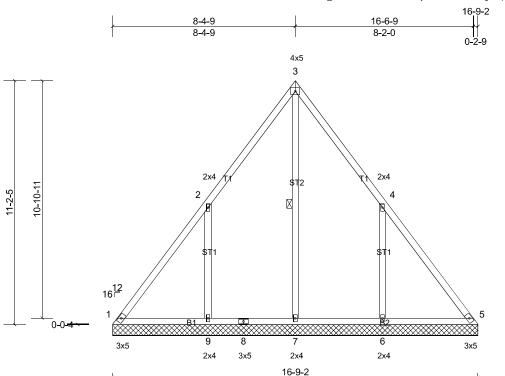
3-7

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

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

1 Row at midpt

Installation guide.



Scale = 1:52.9

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 97 lb	FT = 20%

BRACING TOP CHORD

WEBS

BOT CHORD

LUMBER

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

REACTIONS All bearings 16-9-2.

(lb) - Max Horiz 1=-231 (LC 9)

(16)	May Comp (May Tan All farmer 250 (lb) at less expent when a
	25), 7=344 (LC 27), 9=538 (LC 24)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 5 except 6=537 (LC
	9=-251 (LC 13)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-251 (LC 14),

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-481/418, 4-6=-481/418

WEBS

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33

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 3) qualified building designer as per ANSI/TPI 1.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

5) Gable requires continuous bottom chord bearing.

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 7) any other members, with BCDL = 10.0psf.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 9, and 6. This connection is for uplift only and does not consider lateral 8) forces

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)

Job	Truss	Truss Type	Qty	Ply	106 The Crossings	
20070044	V3	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.33 S	Apr 7 2020	Print: 8.330	S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:19	Page: 1	

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

installed during truss erection, in accordance with Stabilizer

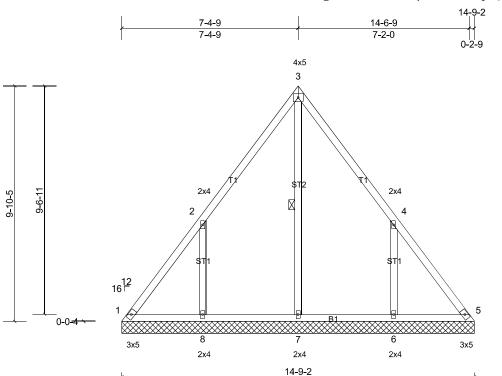
3-7

MiTek recommends that Stabilizers and required cross bracing be

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

1 Row at midpt

Installation guide.



Scale = 1:48.2

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	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 83 lb	FT = 20%

BRACING TOP CHORD

WEBS

BOT CHORD

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3 *Except* ST2:2x4 SP No.2

REACTIONS All bearings 14-9-2. (lb)

-	Max Horiz	1=-203 (LC 9)
	Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-219 (LC 14),
	-	8=-219 (LC 13)
	Max Grav	All reactions 250 (lb) or less at joint(s) 1, 5 except 6=476 (LC
		25), 7=344 (LC 27), 8=477 (LC 24)
	(16)	May Comm (May Tan All foress 250 (lb) or loss event when a

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-435/388, 4-6=-435/388

WEBS

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33

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 3) qualified building designer as per ANSI/TPI 1.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

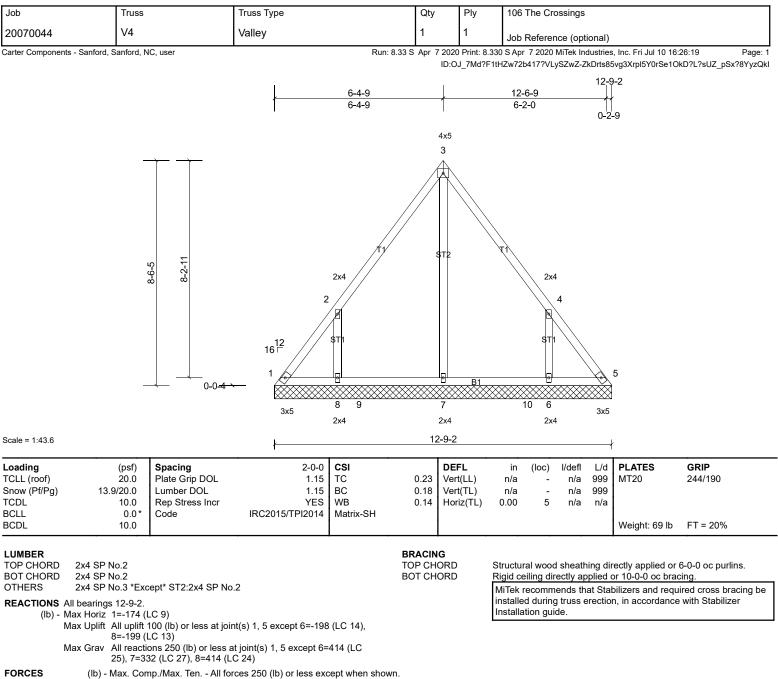
5) Gable requires continuous bottom chord bearing.

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 7) any other members, with BCDL = 10.0psf.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 8, and 6. This connection is for uplift only and does not consider lateral 8) forces

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)



- FORCES
- WEBS

NOTES

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

2-8=-412/378, 4-6=-412/378

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33

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 3) qualified building designer as per ANSI/TPI 1.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4)

DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

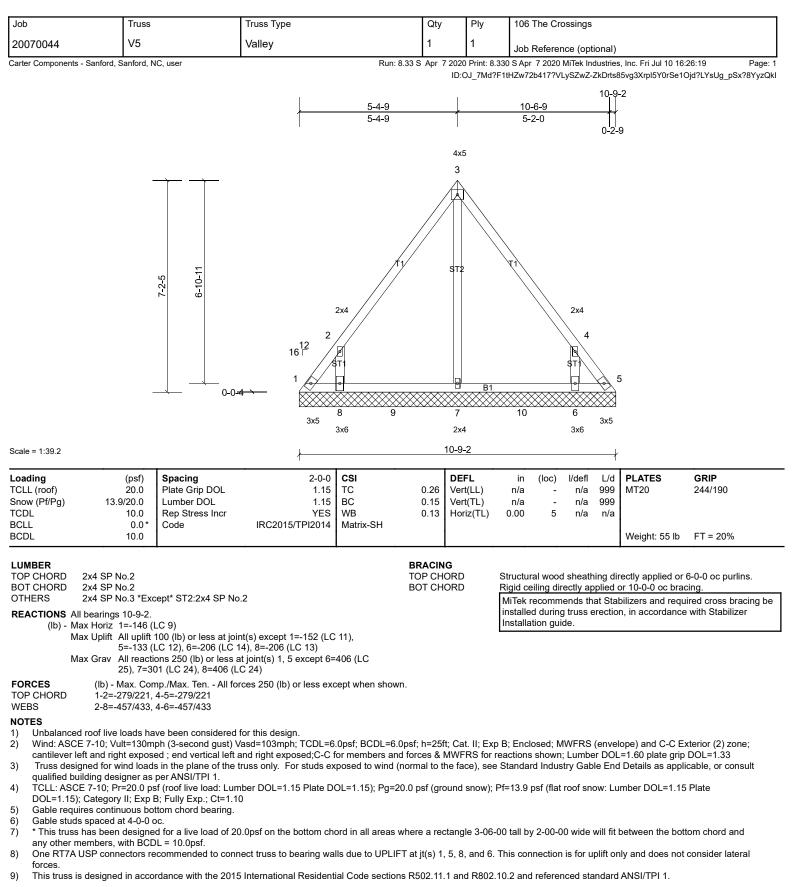
5) Gable requires continuous bottom chord bearing.

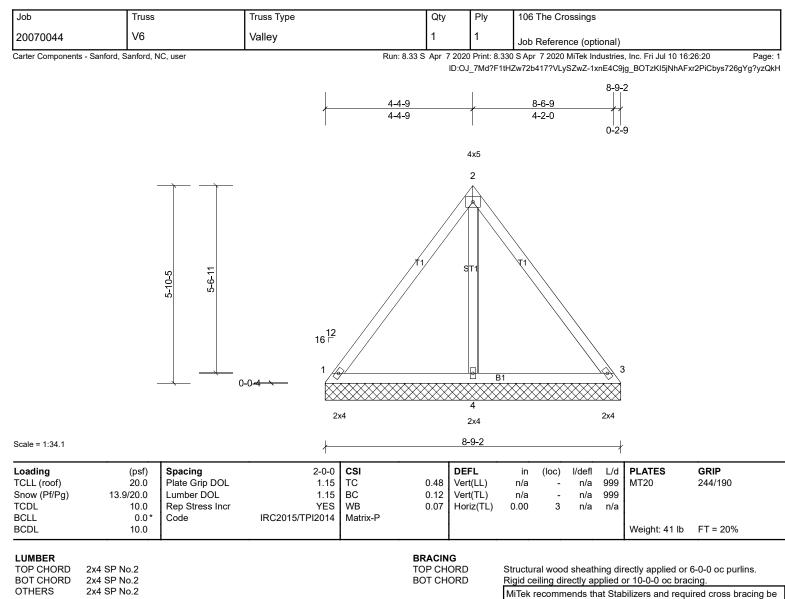
Gable studs spaced at 4-0-0 oc. 6)

* 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 7) any other members, with BCDL = 10.0psf.

One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 8, and 6. This connection is for uplift only and does not consider lateral 8) forces

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)





REACTIONS (lb/size) 1=173/8-9-2, (min. 0-1-8), 3=173/8-9-2, (min. 0-1-8), 4=209/8-9-2, (min. 0-1-8)

Max Horiz 1=117 (LC 12)

Max Uplift 1=-30 (LC 14), 3=-23 (LC 13)

Max Grav 1=210 (LC 2), 3=210 (LC 2), 4=236 (LC 2)

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

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2)

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=1.33 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.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

Gable requires continuous bottom chord bearing. 5)

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

7) * 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

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 1 and 3. This connection is for uplift only and does not consider lateral forces

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)

LOAD CASE(S) Standard installed during truss erection, in accordance with Stabilizer Installation guide.

Job	Truss	Truss Type	Qty	Ply	106 The Crossings
20070044	V7		1	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Fri Jul 10 16:26:20 Page: 1 ID:008iXACkzdkKwhzl6urMxiyzRDD-1xnE4C9jg_BOTzKI5jNhAFxwDPixbzh726gYg?yzQkH

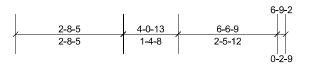
2x4

Structural wood sheathing directly applied or 6-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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





3x5

6-9-2

except

Installation guide.

2-0-0 oc purlins (6-0-0 max.): 2-4.

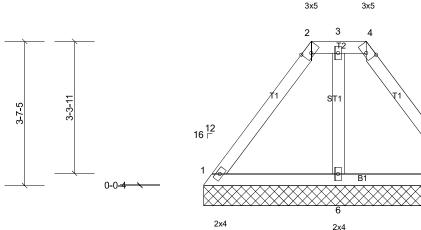




Plate Offsets (X, Y); [2:0-2-3.Edge], [4:0-2-3.Edge]

): [=:0 = 0,=ugo],	[
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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 29 lb	FT = 20%

BRACING TOP CHORD

BOT CHORD

LUMBER

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

REACTIONS (lb/size) 1=154/6-9-2, (min. 0-1-8), 5=155/6-9-2, (min. 0-1-8), 6=125/6-9-2, (min. 0-1-8) Max Horiz 1=-71 (LC 9) Max Uplift 1=-33 (LC 14), 5=-30 (LC 14)

Max Grav 1=185 (LC 2), 5=185 (LC 2), 6=133 (LC 28)

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

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33

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 3) qualified building designer as per ANSI/TPI 1.

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

5) Provide adequate drainage to prevent water ponding.

Gable requires continuous bottom chord bearing. 6)

Gable studs spaced at 4-0-0 oc. 7)

* 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 8) any other members.

9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.

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.