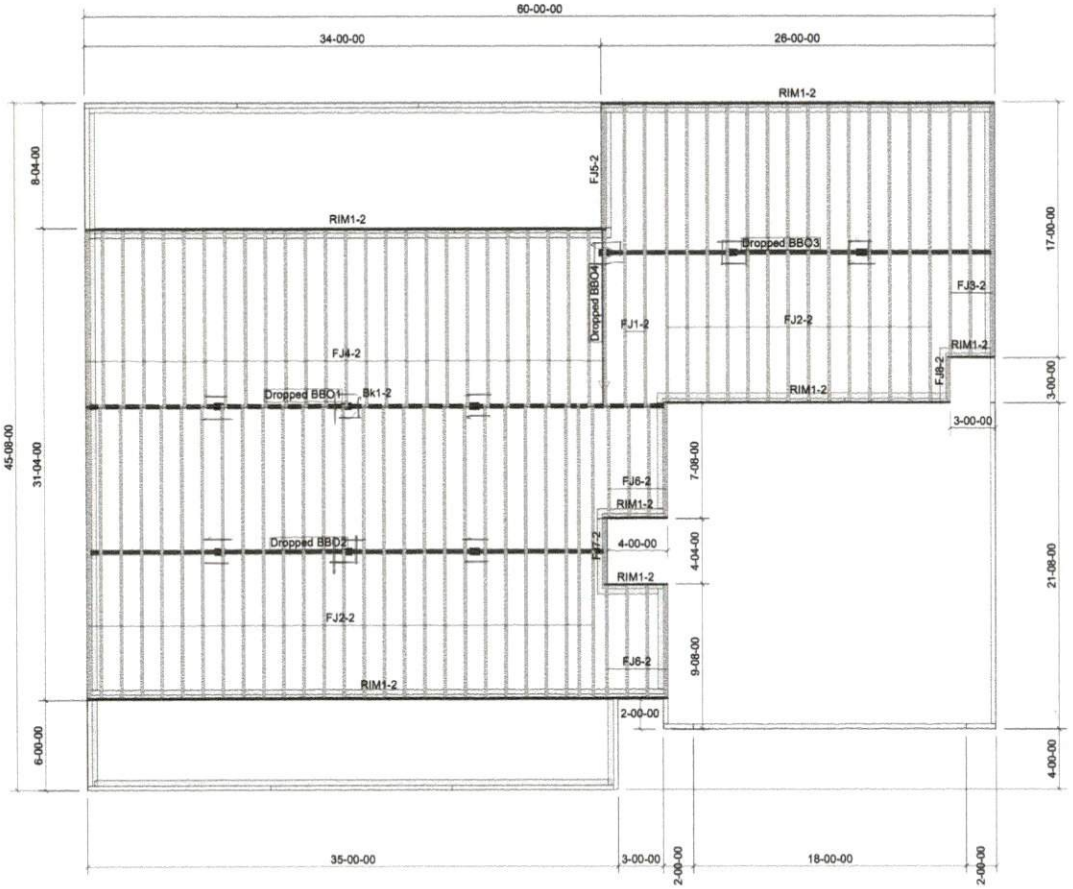
THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS,
SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN-
NOT FOR
CONSTRUCTION



Taylor Resd
Crawl I-Joists
16" OC, 11-7/8" Depth

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
FJ1-2	22-00-00	11-7/8" LPI 20Plus	1	2	MFD
FJ2-2	20-00-00	11-7/8" LPI 20Plus	1	41	MFD
FJ3-2	18-00-00	11-7/8" LPI 20Plus	1	3	MFD
FJ4-2	12-00-00	11-7/8" LPI 20Plus	1	27	MFD
FJ5-2	10-00-00	11-7/8" LPI 20Plus	1	1	MFD
FJ6-2	8-00-00	11-7/8" LPI 20Plus	1	8	MFD
FJ7-2	6-00-00	11-7/8" LPI 20Plus	1	1	MFD
FJ8-2	4-00-00	11-7/8" LPI 20Plus	1	1	MFD
RIM1-2	130-00-00	1-1/8X11-7/8 LP-OSB Plus	1	1	FF
Bk1-2	28-00-00	11-7/8" LPI 20Plus	1	1	MFD

Notes:
1. Exterior dimensions shown are assumed to be:
   ☐ Out-to-out of stud
   ☒ Out-to-out of sheathing
2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.
3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
4. Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading per
2018 NC Residential Code

Top Chord Live Load	20# PSF
Top Chord Dead Load	10# PSF
Bottom Chord Live Load	0# PSF
Bottom Chord Dead Load	10# PSF

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

△ - This symbol denotes left end of truss as shown on truss drawings.

● - Approximate location of toilet drop. Builder please confirm.

Truss connections by others:
(N) -Nailed
(L) -Ledger

Job # Q-2200055

Taylor Resd
27 Taylor Rd
Spring Lake NC
28390

Date Quoted:

Designer: **Nate Donaldson**

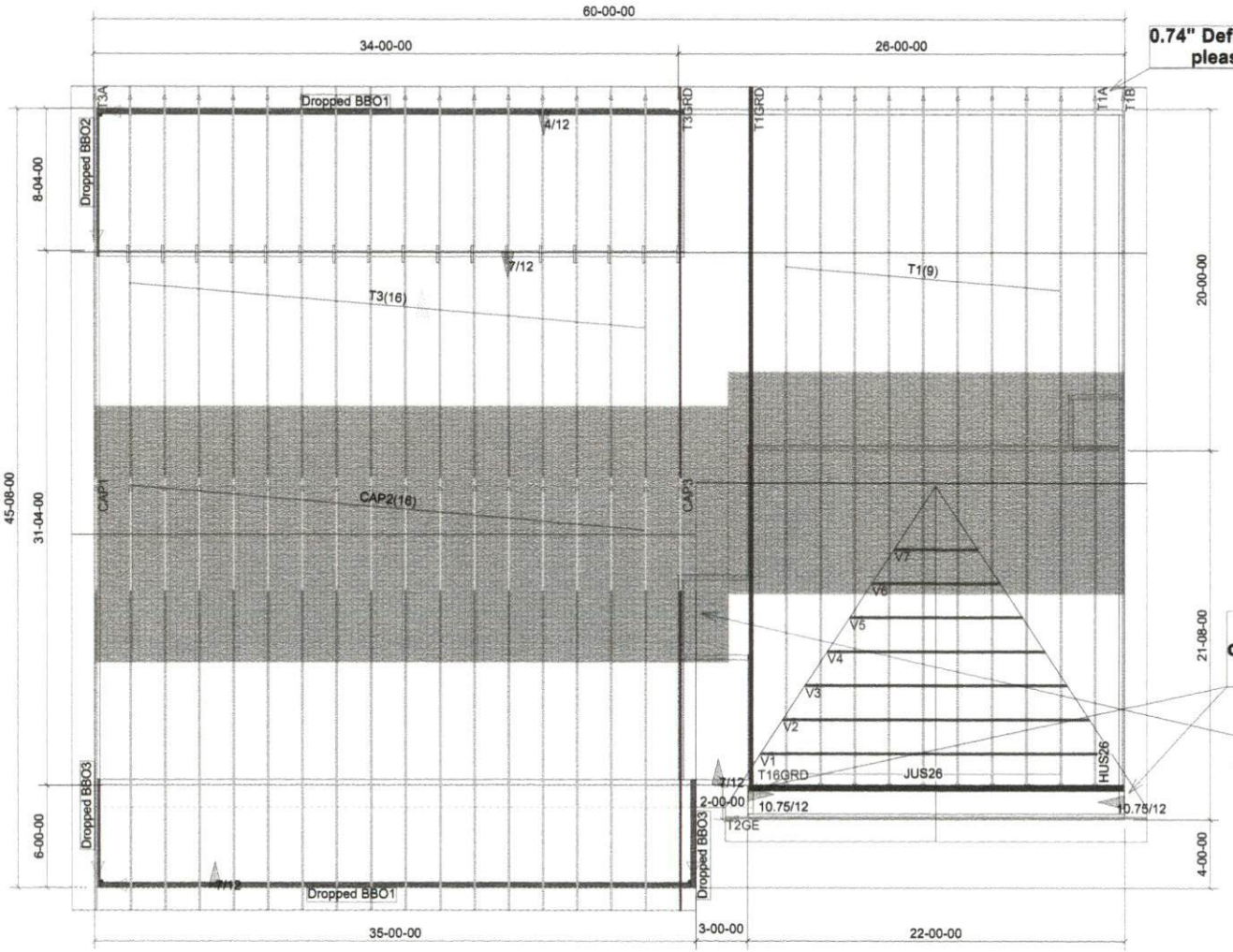
Valued Customer

,

Peak Truss Builders, LLC
PO Box 340, New Hill, NC 27562

THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS,
SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN-
NOT FOR
CONSTRUCTION



Truss Connector Total List		
Manuf	Product	Qty
USP	HUS26	1
USP	JUS26	9

Notes:
1. Exterior dimensions shown are assumed to be:
   [ ] Out-to-out of stud
   [X] Out-to-out of sheathing
2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.
3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
4. Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading per 2018 NC Residential Code

Top Chord Live Load	20# PSF
Top Chord Dead Load	10# PSF
Bottom Chord Live Load	0# PSF
Bottom Chord Dead Load	10# PSF

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

△ - This symbol denotes left end of truss as shown on truss drawings

● - Approximate location of toilet drop. Builder please confirm.

Truss connections by others:
(N) -Nailed
(L) -Ledger

Job # Q-2200055

Taylor Resd
27 Taylor Rd
Spring Lake NC
28390

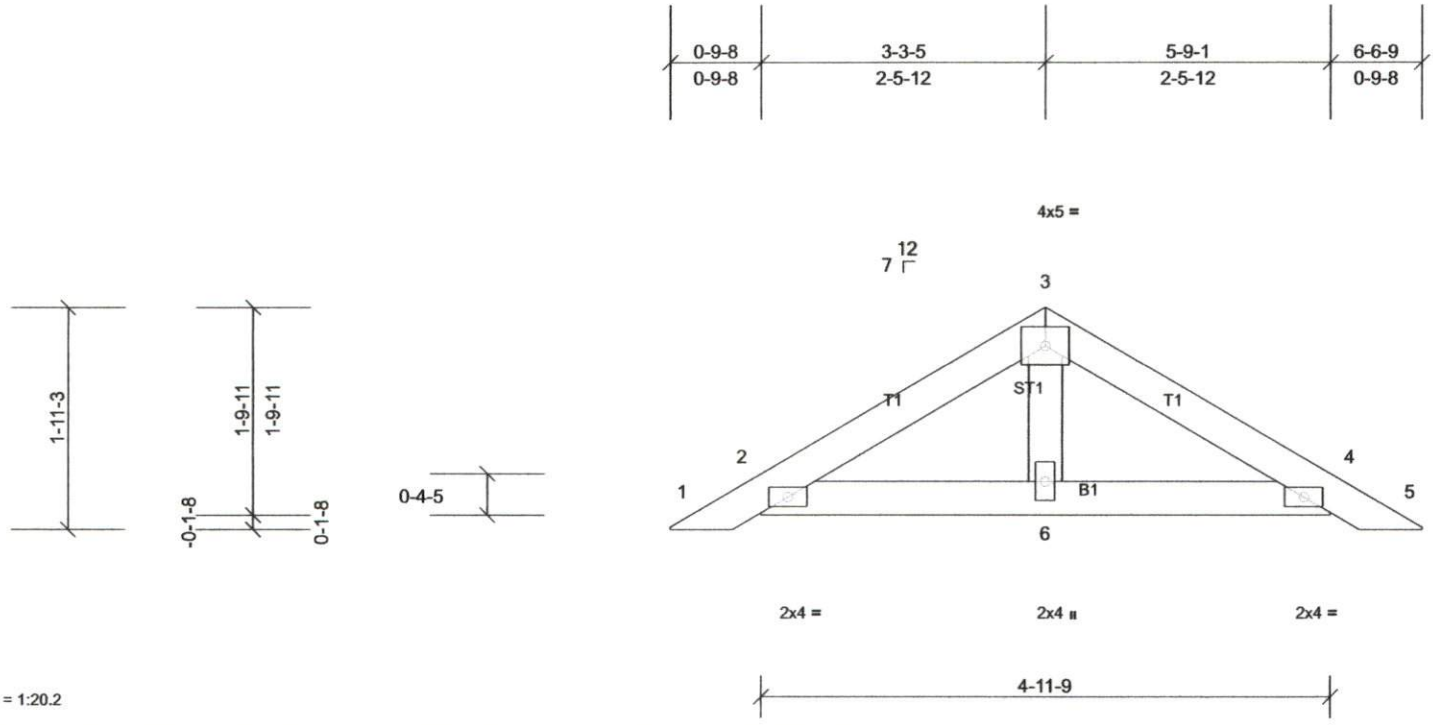
Date Quoted:

Designer: Nate Donaldson

Valued Customer

Peak Truss Builders, LLC
PO Box 340, New Hill, NC 27562

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	CAP1	Piggyback	1	1	Job Reference (optional)



Scale = 1:20.2

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

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

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

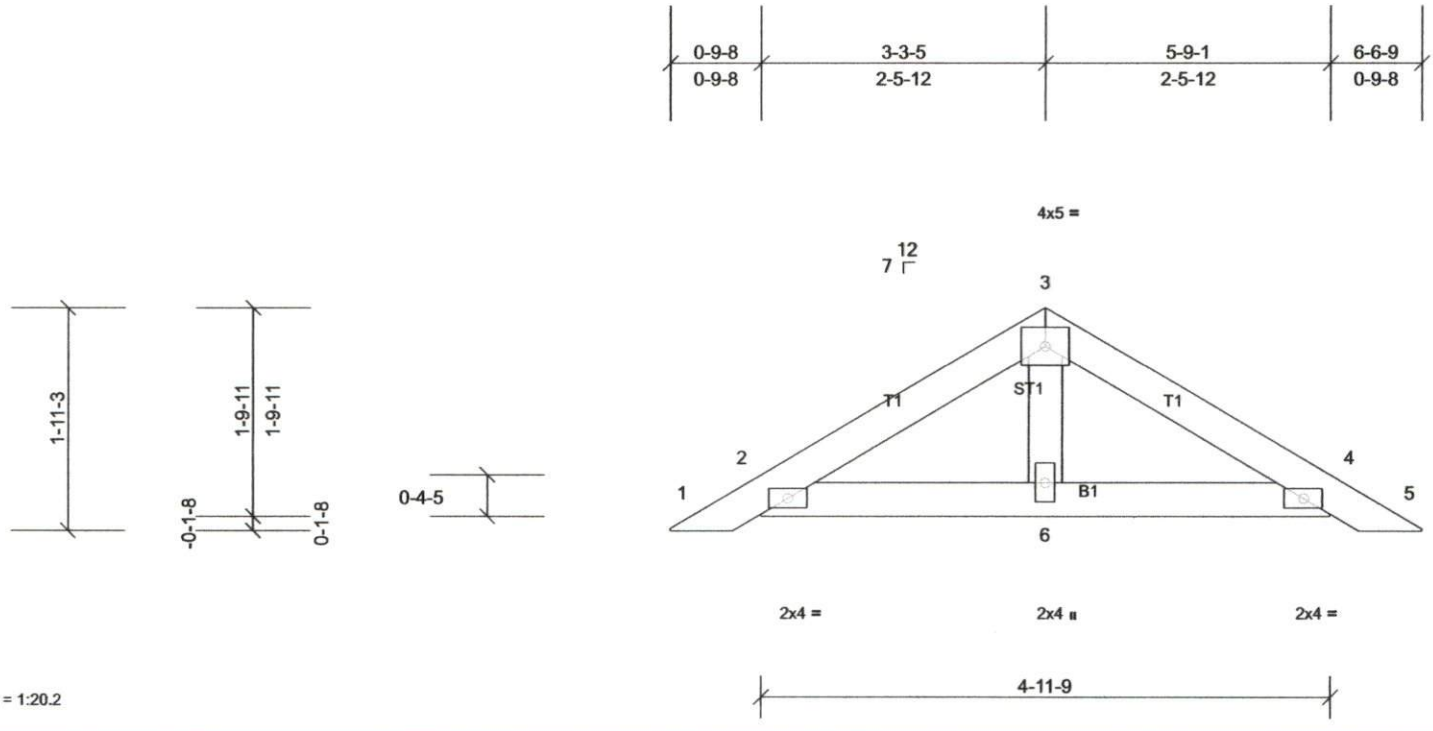
REACTIONS All bearings 4-11-9.
(lb) - Max Horiz 2=31 (LC 10), 7=31 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
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, 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

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	CAP2	Piggyback	16	1	Job Reference (optional)



Scale = 1:20.2

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

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

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

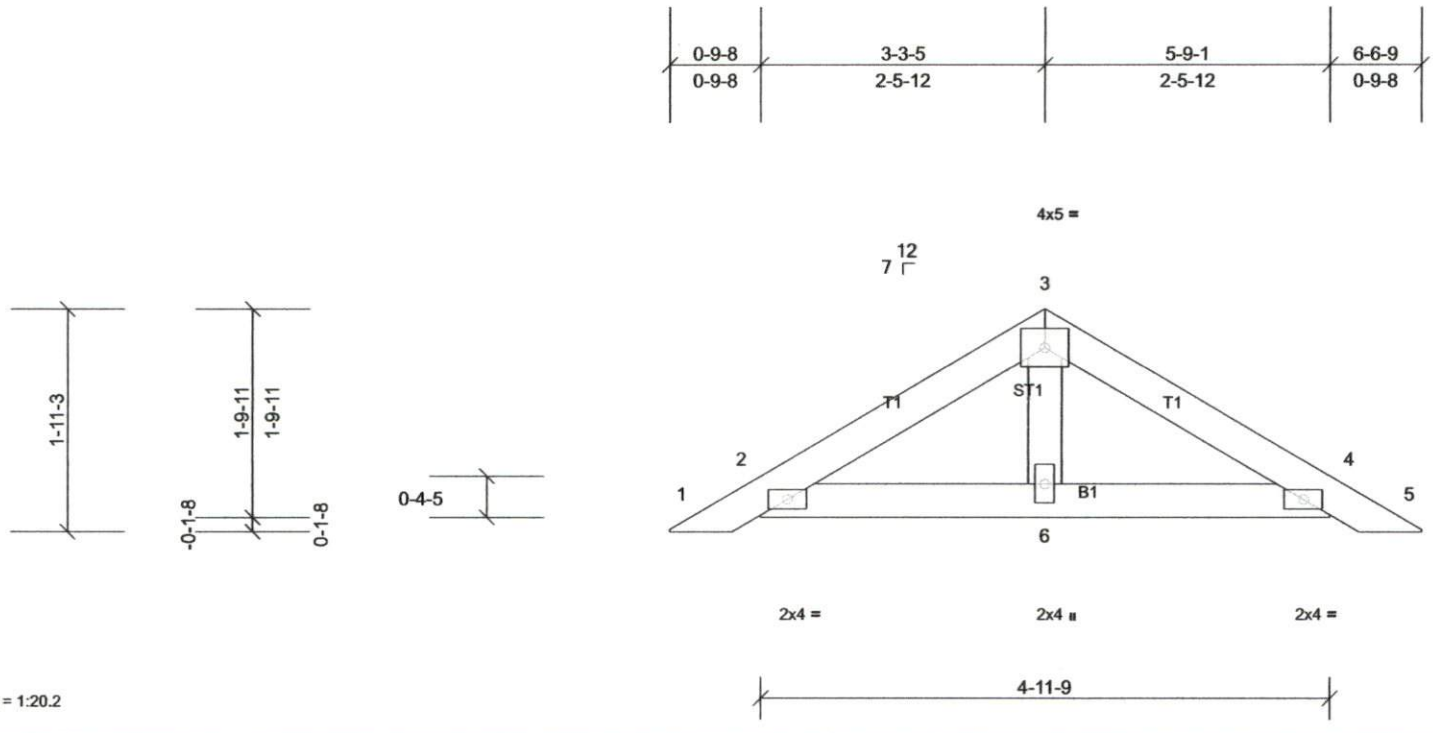
REACTIONS All bearings 4-11-9.
(lb) - Max Horiz 2=31 (LC 10), 7=31 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
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, 6, 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

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	CAP3	Piggyback	1	1	Job Reference (optional)



Scale = 1:20.2

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

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

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

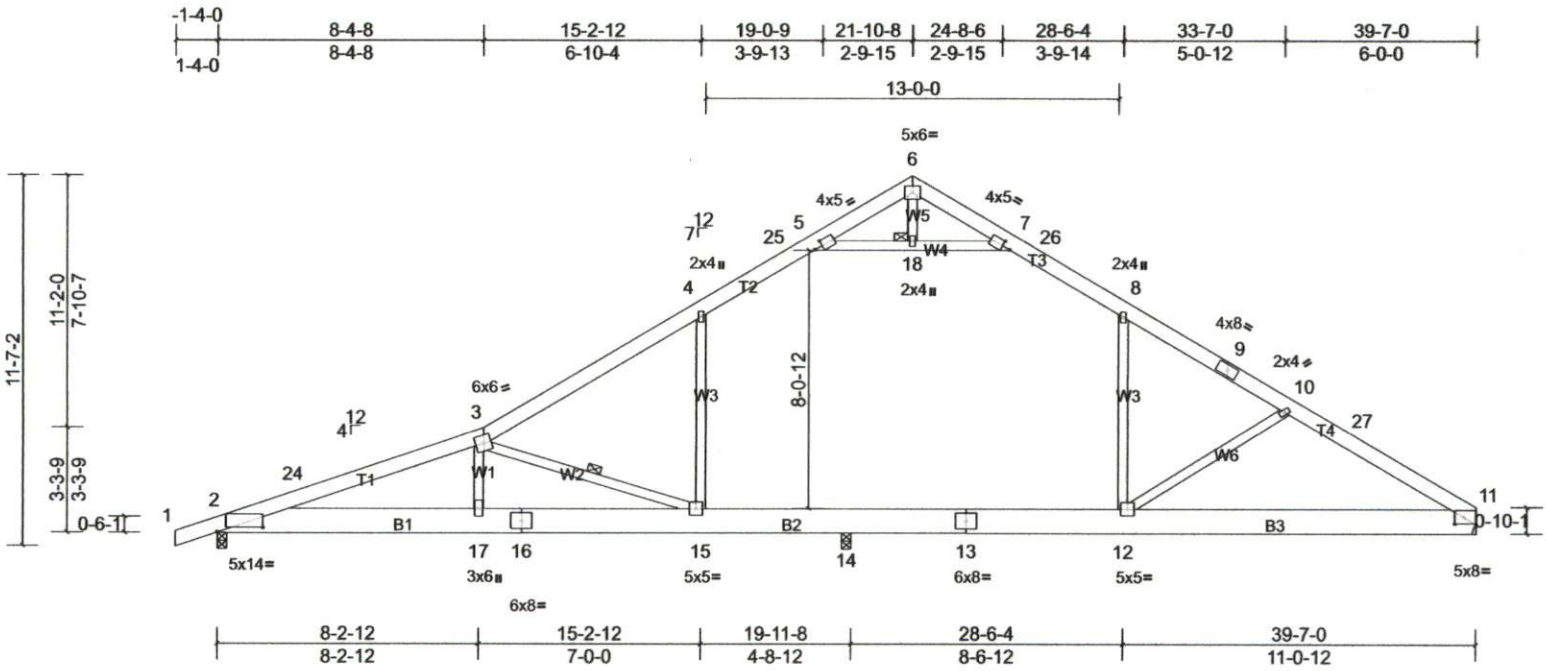
REACTIONS All bearings 4-11-9.
(lb) - Max Horiz 2=31 (LC 10), 7=31 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
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, 6, 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

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T1	Attic	9	1	Job Reference (optional)



Scale = 1:72.7

Plate Offsets (X, Y): [2:1-5-4,0-1-11], [5:0-3-0,0-2-0], [7:0-3-0,0-2-0], [11:0-3-4,0-2-8]

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	0.69	Vert(LL)	-0.34	12-23	>700	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.52	12-23	>457	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.34	12-14	>615	360	Weight: 318 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.2 *Except* B2:2x10 SP No.1
WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=1147/0-3-8, (min. 0-1-13), 11=1043/ Mechanical, (min. 0-1-8), 14=1255/0-3-8, (min. 0-2-13)
Max Horiz 2=193 (LC 10)
Max Uplift 2=-138 (LC 11), 11=-93 (LC 11), 14=-89 (LC 11)
Max Grav 2=1147 (LC 1), 11=1114 (LC 22), 14=1805 (LC 21)

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-15
JOINTS 1 Brace at Jt(s): 18

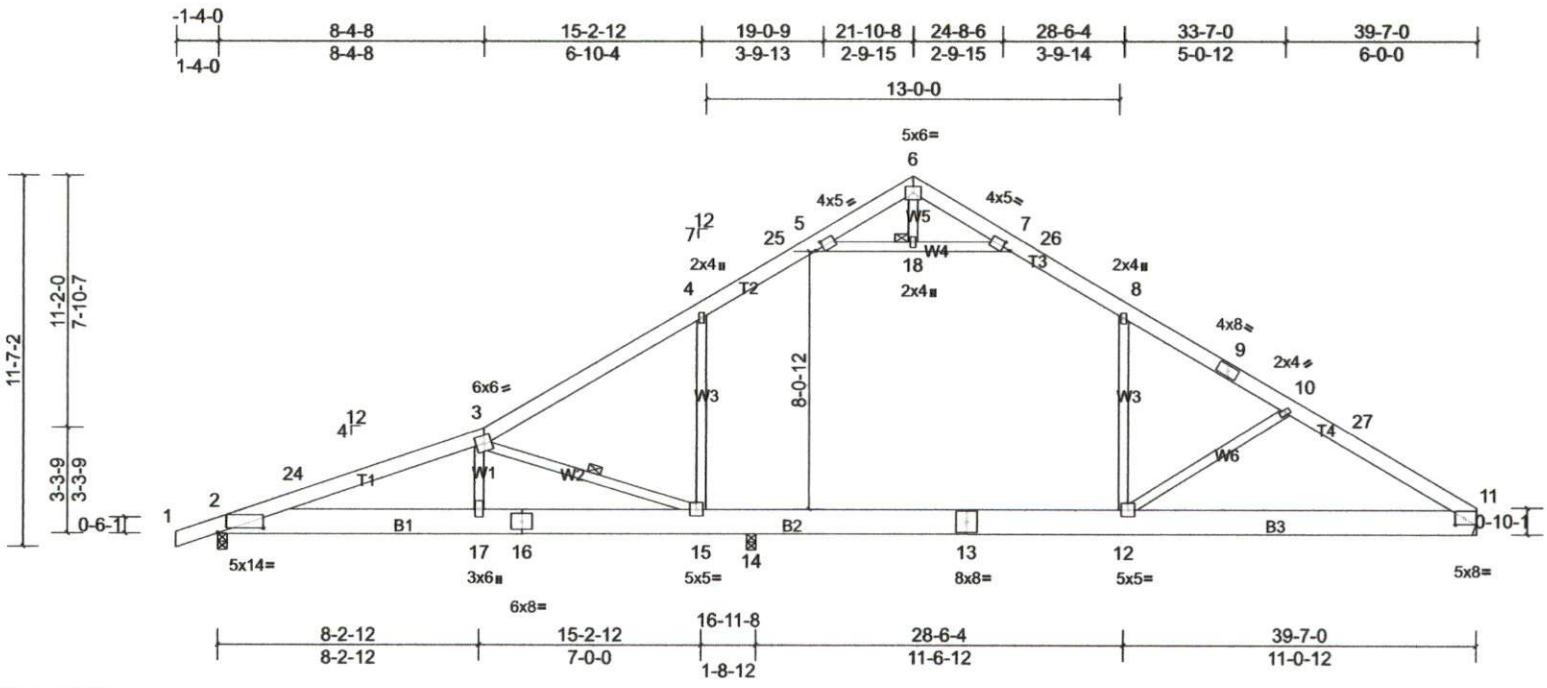
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-2535/152, 3-24=-2528/175, 3-4=-1199/103, 4-25=-1012/191, 5-25=-917/198, 7-26=-849/193, 8-26=-944/170, 8-9=-1033/113, 9-10=-1153/96, 10-27=-1418/170, 11-27=-1521/153
BOT CHORD 2-17=-105/2353, 16-17=-107/2327, 15-16=-107/2327, 14-15=0/850, 13-14=0/850, 12-13=0/850, 11-12=-75/1309
WEBS 3-17=0/581, 3-15=-1658/211, 4-15=-375/127, 8-12=-25/252, 10-12=-581/199, 5-18=-996/219, 7-18=-997/219

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=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 2-7-8, Interior (1) 2-7-8 to 21-10-8, Exterior (2) 21-10-8 to 25-10-0, Interior (1) 25-10-0 to 39-7-0 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) * 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). 3-4, 4-5, 7-8, 5-18, 7-18
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 12-14
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 93 lb uplift at joint 11 and 89 lb uplift at joint 14.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T1A	Attic	1	1	Job Reference (optional)



Scale = 1:72.7

Plate Offsets (X, Y): [2:1-5-4,0-1-11], [5:0-3-0,0-2-0], [7:0-3-0,0-2-0], [11:0-3-4,0-2-8]

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	0.93	Vert(LL)	-0.46	12-14	>598	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.74	12-14	>371	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.26	12-15	>610	360	Weight: 318 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1 *Except* T1:2x6 SP No.2
BOT CHORD 2x10 SP No.2 *Except* B2:2x10 SP No.1
WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=1103/0-3-8, (min. 0-1-12), 11=1177/ Mechanical, (min. 0-1-8), 14=1165/0-3-8, (min. 0-2-9)
Max Horiz 2=193 (LC 10)
Max Uplift 2=-133 (LC 11), 11=-101 (LC 11), 14=-85 (LC 11)
Max Grav 2=1103 (LC 1), 11=1339 (LC 22), 14=1626 (LC 21)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-2 oc bracing.
WEBS 1 Row at midpt 3-15
JOINTS 1 Brace at Jt(s): 18

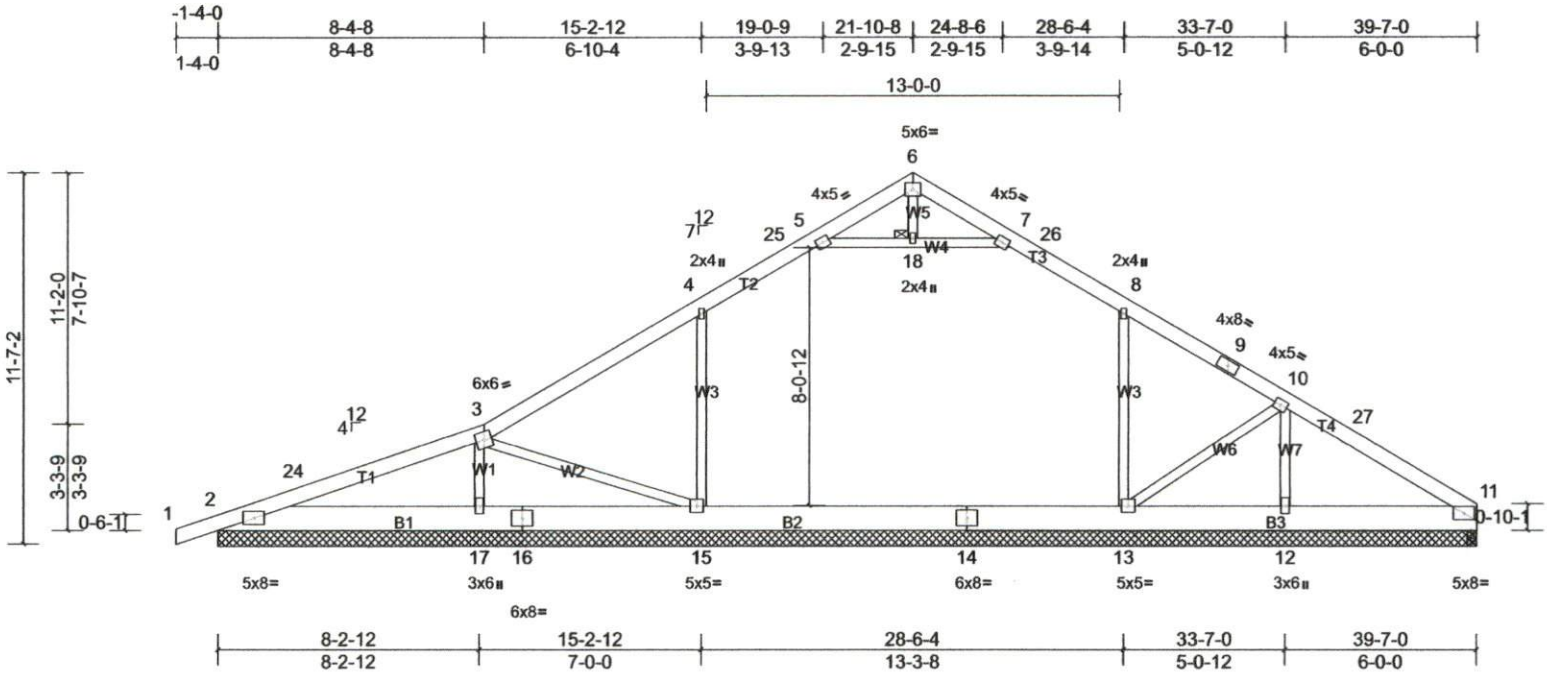
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-2271/128, 3-24=-2260/151, 3-4=-1561/113, 4-25=-1293/200, 5-25=-1199/207, 6-7=-91/300, 7-26=-1097/200, 8-26=-1191/174, 8-9=-1450/126, 9-10=-1570/109, 10-27=-1897/187, 11-27=-2010/169
BOT CHORD 2-17=-83/2105, 16-17=-86/2097, 15-16=-86/2097, 14-15=0/1134, 13-14=0/1134, 12-13=0/1134, 11-12=-90/1734
WEBS 3-17=-167/257, 3-15=-1219/179, 4-15=-373/255, 8-12=0/566, 10-12=-724/206, 5-18=-1487/233, 7-18=-1487/233

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=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 2-7-8, Interior (1) 2-7-8 to 21-10-8, Exterior (2) 21-10-8 to 25-10-0, Interior (1) 25-10-0 to 39-7-0 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) * 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). 3-4, 4-5, 7-8, 5-18, 7-18
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 12-14
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 2, 101 lb uplift at joint 11 and 85 lb uplift at joint 14.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T1B	Attic	1	1	Job Reference (optional)



Scale = 1:72.7

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	TC	0.24	Vert(LL)	-0.07	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.11	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 322 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18

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

REACTIONS All bearings 39-7-0.
(lb) - Max Horiz 2=193 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11, 12, 13, 15 except 17=-104 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) except 2=426 (LC 1), 11=415 (LC 1), 12=509 (LC 1), 13=826 (LC 18), 15=787 (LC 17), 17=901 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-276/22, 3-4=-561/71, 4-25=-551/175, 5-25=-465/194, 5-6=-269/90, 6-7=-264/86, 7-26=-464/189, 8-26=-545/172, 8-9=-403/91, 9-10=-540/63, 10-27=-369/46, 11-27=-465/29
BOT CHORD 2-17=-39/261, 14-15=0/402, 13-14=0/402, 12-13=0/338, 11-12=0/338
WEBS 3-17=-641/139, 4-15=-422/203, 8-13=-341/157, 10-12=-399/93

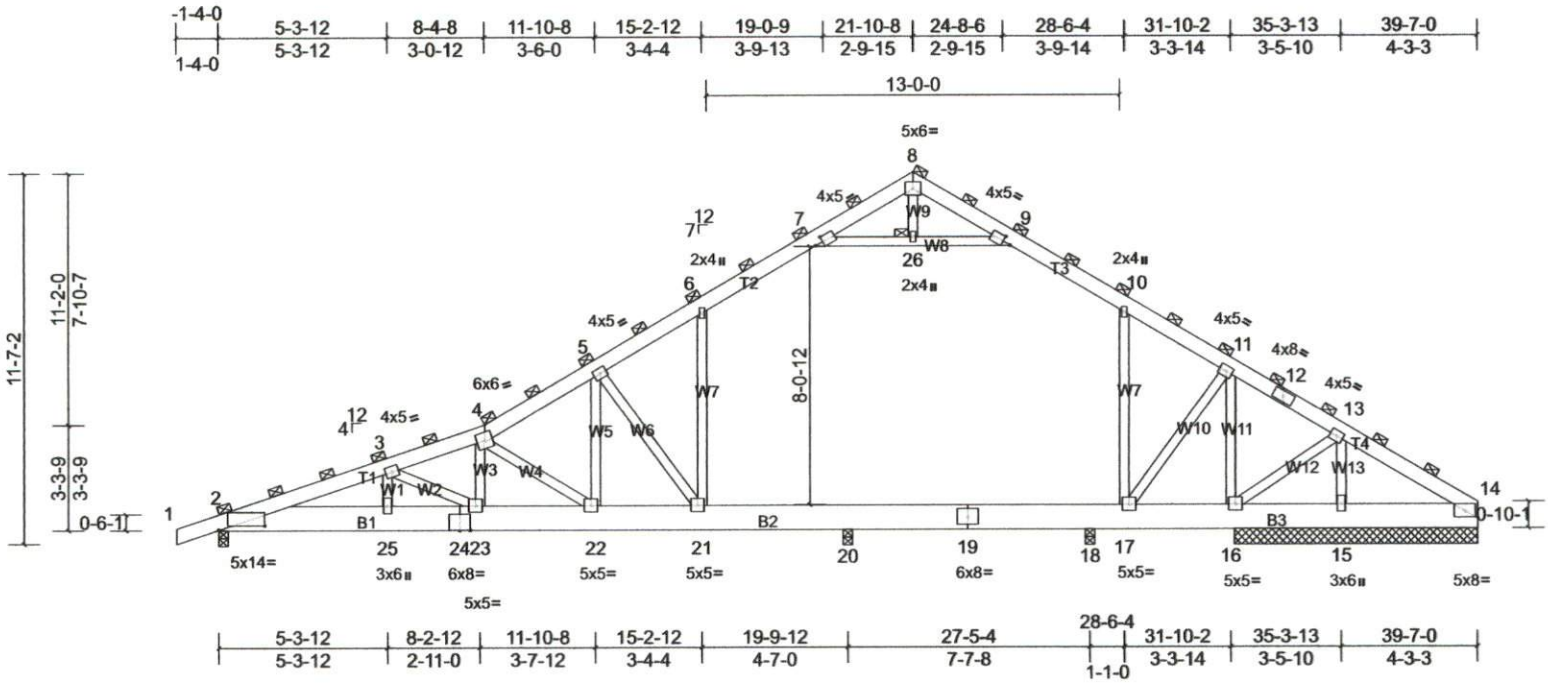
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 2-7-8, Interior (1) 2-7-8 to 21-10-8, Exterior (2) 21-10-8 to 25-10-0, Interior (1) 25-10-0 to 39-7-0 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) * 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 100 lb uplift at joint(s) 2, 15, 13, 12, 11 except (jt=lb) 17=103.
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.
6) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T1GRD	Attic Girder	1	2	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. Tue Feb 22 08:27:31 — Page: 1

ID:P4XiNDvdLHuMkTQ2s8OhOJzitZr-R59vnCX7ZJC586KraEP25OgkJZ0M7cW0mggA88zifGw



Scale = 1:72.7

Plate Offsets (X, Y): [2:1-5-4,0-1-11], [7:0-3-0,0-2-0], [9:0-3-0,0-2-0]

Loading	(psf)	Spacing	3-2-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.09	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.19	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.09	20-21	>999	360	Weight: 693 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x10 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 4, 8, 26

REACTIONS All bearings 0-3-8. except 16=7-7-8, 15=7-7-8, 14=7-7-8

(lb) - Max Horiz 2=306 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 14, 15 except 2=-249 (LC 7), 16=-285 (LC 7), 18=-607 (LC 17), 20=-137 (LC 7)

Max Grav All reactions 250 (lb) or less at joint(s) except 2=1713 (LC 1), 14=562 (LC 1), 15=682 (LC 1), 16=1058 (LC 1), 18=581 (LC 11), 20=2485 (LC 13)

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

TOP CHORD 2-3=-3783/378, 3-4=-3308/348, 4-5=-2518/319, 5-6=-1209/190, 6-7=-1167/299, 7-8=-426/75, 8-9=-444/78, 9-10=-1204/302, 10-11=-1164/184, 11-12=-814/58, 12-13=-889/28, 13-14=-679/26

BOT CHORD 2-25=-300/3555, 24-25=-300/3555, 23-24=-300/3555, 22-23=-217/3092, 21-22=-82/2143, 20-21=0/961, 19-20=0/961, 18-19=0/961, 17-18=0/961, 16-17=0/740, 15-16=0/534, 14-15=0/534

WEBS 3-23=-536/98, 4-22=-1199/170, 5-22=-238/1924, 5-21=-2036/403, 6-21=-338/112, 10-17=-506/136, 11-17=0/467, 11-16=-805/188, 13-16=0/261, 13-15=-585/79, 7-26=-655/306, 9-26=-655/306

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-26, 9-26
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 20-21, 18-20, 17-18
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 14 except (jt=lb) 2=249, 16=285, 20=136, 18=606.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T2GE	Common Supported Gable	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. Tue Feb 22 08:27:31 — Page: 1

ID:tG54aZwF6b0DMd?EPsvwxXzitZq-R59vnCX7ZJC586KraEP25OgjsZBS7fA0mggA88zifGw

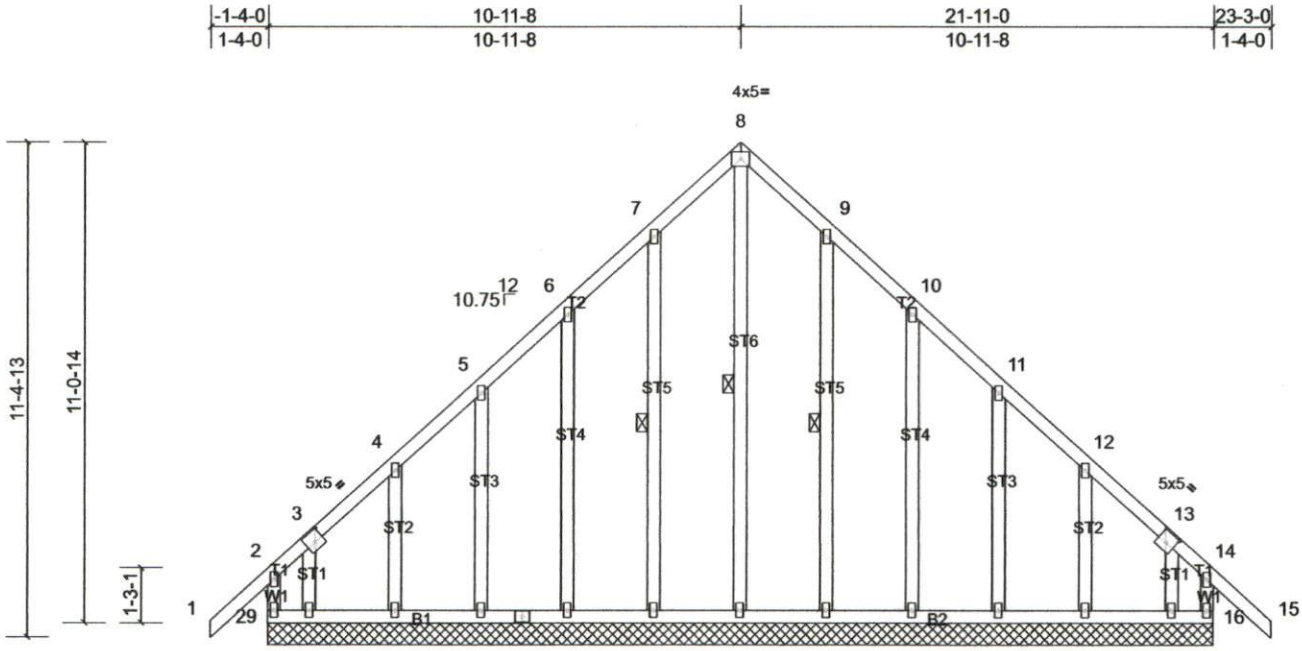


Plate Offsets (X, Y): [3:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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	0.21	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	0.23	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 178 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 8-22, 7-23, 9-21

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

REACTIONS All bearings 21-11-0.

(lb) - Max Horiz 29=-244 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 23, 24, 26, 27 except 16=-140 (LC 10), 17=-134 (LC 7), 28=-149 (LC 8), 29=-183 (LC 9)

Max Grav All reactions 250 (lb) or less at joint(s) 17, 18, 19, 20, 21, 23, 24, 26, 27, 28 except 16=263 (LC 16), 22=417 (LC 11), 29=295 (LC 17)

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

TOP CHORD 6-7=-202/279, 7-8=-255/346, 8-9=-255/346, 9-10=-202/279

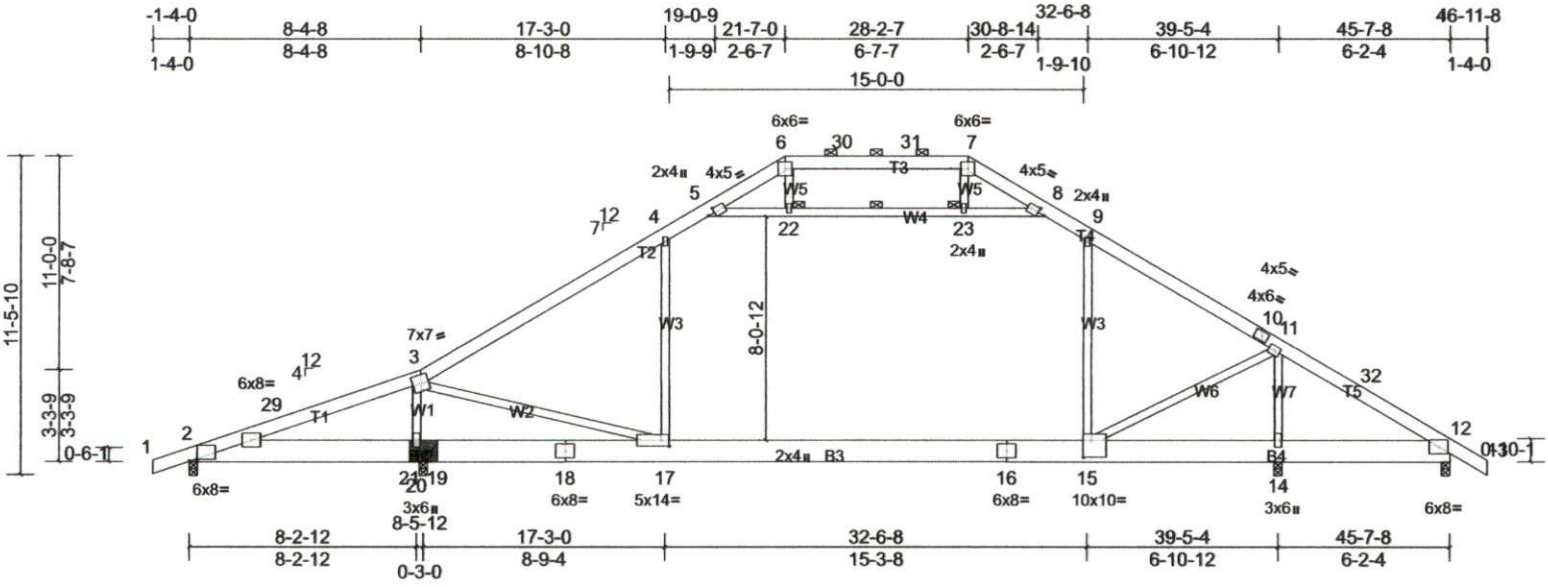
WEBS 8-22=-392/223

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=22ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-4-0 to 1-8-0, Exterior (2) 1-8-0 to 10-11-8, Corner (3) 10-11-8 to 13-11-8, Exterior (2) 13-11-8 to 23-3-0 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a 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) 23, 24, 26, 27, 21, 20, 19, 18 except (jt=lb) 29=182, 16=140, 28=149, 17=134.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T3	Attic	16	1	Job Reference (optional)



Scale = 1:83.7

Plate Offsets (X, Y): [2:0-3-4,0-0-11], [5:0-3-0,0-2-0], [8:0-3-0,0-2-0], [15:0-3-8,0-7-4], [17:0-3-8,0-2-8]

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	0.76	Vert(LL)	-0.34	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.47	15-17	>800	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.27	15-17	>675	360	Weight: 387 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.2 *Except* B4,B3:2x10 SP No.1
WEBS 2x4 SP No.3

REACTIONS All bearings 0-3-8. except 20=0-3-15(input: 0-3-8 + bearing block)
(lb) - Max Horiz 2=194 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 12 except 2=-103 (LC 15), 14=-173 (LC 11), 20=-144 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 2 except 12=433 (LC 1), 14=1986 (LC 22), 20=2520 (LC 21)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
8-6-8 oc bracing: 15-17.
WEBS 1 Row at midpt 22-23
JOINTS 1 Brace at Jt(s): 22, 23

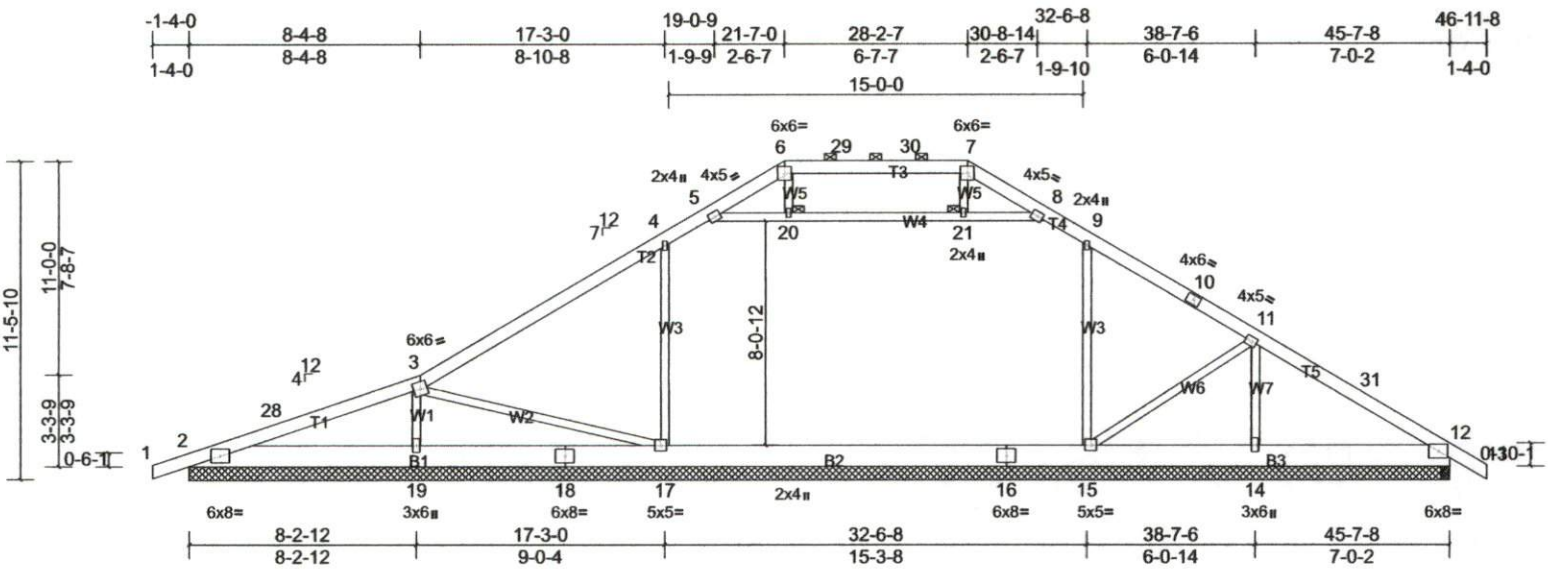
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-29=-129/1010, 3-29=-84/1092, 3-4=-1748/89, 4-5=-1415/188, 5-6=-647/136, 6-30=-500/129, 30-31=-500/129, 7-31=-500/129, 7-8=-635/132, 8-9=-1418/185, 9-10=-1728/98, 10-11=-1743/56, 11-32=-518/237, 12-32=-567/144
BOT CHORD 2-21=-898/172, 20-21=-898/172, 19-20=-781/162, 18-19=-781/162, 17-18=-781/162, 16-17=0/1449, 15-16=0/1449, 14-15=-124/474, 12-14=-124/474
WEBS 3-20=-2290/193, 3-17=0/2266, 4-17=-306/352, 9-15=-222/449, 11-15=0/1553, 11-14=-2025/201, 5-22=-1127/87, 22-23=-1119/89, 8-23=-1127/86

NOTES
1) 2x10 SP No.2 bearing block 12" long at jt. 20 attached to front face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. 20 Total fasteners. Bearing is assumed to be SPF No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 3-2-12, Interior (1) 3-2-12 to 21-7-0, Exterior (2) 21-7-0 to 26-1-12, Interior (1) 26-1-12 to 28-2-7, Exterior (2) 28-2-7 to 32-6-8, Interior (1) 32-6-8 to 46-11-8 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
4) Provide adequate drainage to prevent water ponding.
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) Ceiling dead load (5.0 psf) on member(s). 3-4, 4-5, 8-9, 5-22, 22-23, 8-23
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=103, 20=143, 14=173.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T3A	Attic	1	1	Job Reference (optional)



Scale = 1:83.7

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	TC	0.41	Vert(LL)	-0.13	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.20	15-17	>931	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 383 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3

REACTIONS All bearings 45-7-8. except 12=0-3-8
(lb) - Max Horiz 2=194 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12, 14, 17 except 15=-112 (LC 11), 19=-223 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 2 except 12=482 (LC 26), 14=490 (LC 26), 15=1140 (LC 22), 17=850 (LC 21), 19=1560 (LC 1)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 20, 21

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 except when shown.
TOP CHORD 2-28=-294/1073, 3-28=-273/1170, 3-4=-345/70, 4-5=-394/176, 5-6=-683/223, 6-29=-582/212, 29-30=-582/212, 7-30=-582/212, 7-8=-679/215, 8-9=-434/170, 10-11=-370/63, 11-31=-290/52, 12-31=-379/30
BOT CHORD 2-19=-1049/334, 18-19=-983/320, 17-18=-983/320, 14-15=0/251, 12-14=0/251
WEBS 3-19=-1253/270, 3-17=-188/1212, 4-17=-668/277, 9-15=-538/206, 11-14=-360/86, 5-20=-40/399, 20-21=-40/399, 8-21=-41/401

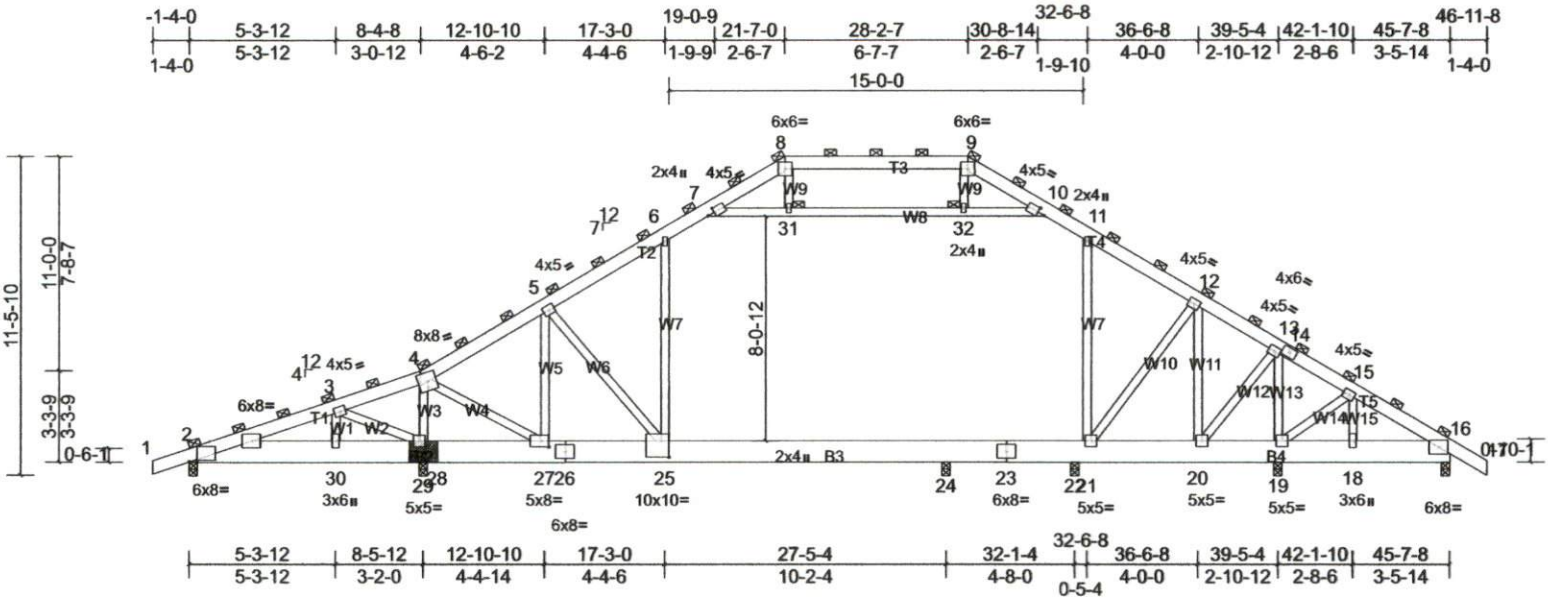
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 3-2-12, Interior (1) 3-2-12 to 21-7-0, Exterior (2) 21-7-0 to 26-1-12, Interior (1) 26-1-12 to 28-2-7, Exterior (2) 28-2-7 to 32-6-8, Interior (1) 32-6-8 to 46-11-8 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 100 lb uplift at joint(s) 2, 17, 14, 12 except (jt=lb) 19=223, 15=112.
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.
8) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T3GRD	Attic Girder	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. Tue Feb 22 08:27:33 — Page: 1

ID:x9Vlkh5faCv5fwf7oVgR2hzitZb-vHjI?YYlKdKymGv28ywHdbDqYzLIswhA?KQkhbzifGv



Scale = 1:83.7

Plate Offsets (X, Y): [2:0-3-4,0-0-11], [7:0-3-0,0-2-0], [10:0-3-0,0-2-0], [25:0-3-8,0-7-0], [27:0-3-8,0-2-8]

Loading	(psf)	Spacing	3-1-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.12	24-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.18	24-25	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.02	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.12	24-25	>999	360	Weight: 422 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T2,T4:2x6 SP No.1
BOT CHORD 2x10 SP No.2 *Except* B4,B3:2x10 SP No.1
WEBS 2x4 SP No.3

REACTIONS All bearings 0-3-8. except 29=0-5-0(input: 0-3-8 + bearing block)
(lb) - Max Horiz 2=300 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-103 (LC 7), 16=-149 (LC 7), 19=-156 (LC 7), 22=-413 (LC 23), 29=-318 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) except 2=386 (LC 1), 16=987 (LC 1), 19=1365 (LC 18), 22=511 (LC 22), 24=1677 (LC 11), 29=3189 (LC 17)

BRACING

TOP CHORD 2-0-0 oc purlins (5-7-9 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-30,29-30,27-29.
JOINTS 1 Brace at Jt(s): 8, 9, 31, 32, 4

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

TOP CHORD 2-3=-137/948, 3-4=-94/1281, 4-5=-1247/196, 5-6=-1791/290, 6-7=-1624/367, 7-8=-1166/245, 8-9=-973/244, 9-10=-1174/247, 10-11=-1646/368, 11-12=-1857/293, 12-13=-1666/223, 13-14=-1124/132, 14-15=-1219/109, 15-16=-1227/94
BOT CHORD 2-30=-794/165, 29-30=-794/165, 28-29=-1144/253, 27-28=-1144/253, 26-27=0/1105, 25-26=0/1105, 24-25=0/1594, 23-24=0/1594, 22-23=0/1594, 21-22=0/1594, 20-21=0/1454, 19-20=0/1050, 18-19=0/1040, 16-18=0/1040
WEBS 3-29=-465/86, 6-25=-263/270, 11-21=-488/258, 7-31=-713/179, 31-32=-705/183, 10-32=-716/179, 12-20=-555/84, 13-20=-1/667, 13-19=-932/128, 4-27=-183/2539, 5-27=-1392/149, 5-25=0/767, 4-29=-2507/322

NOTES

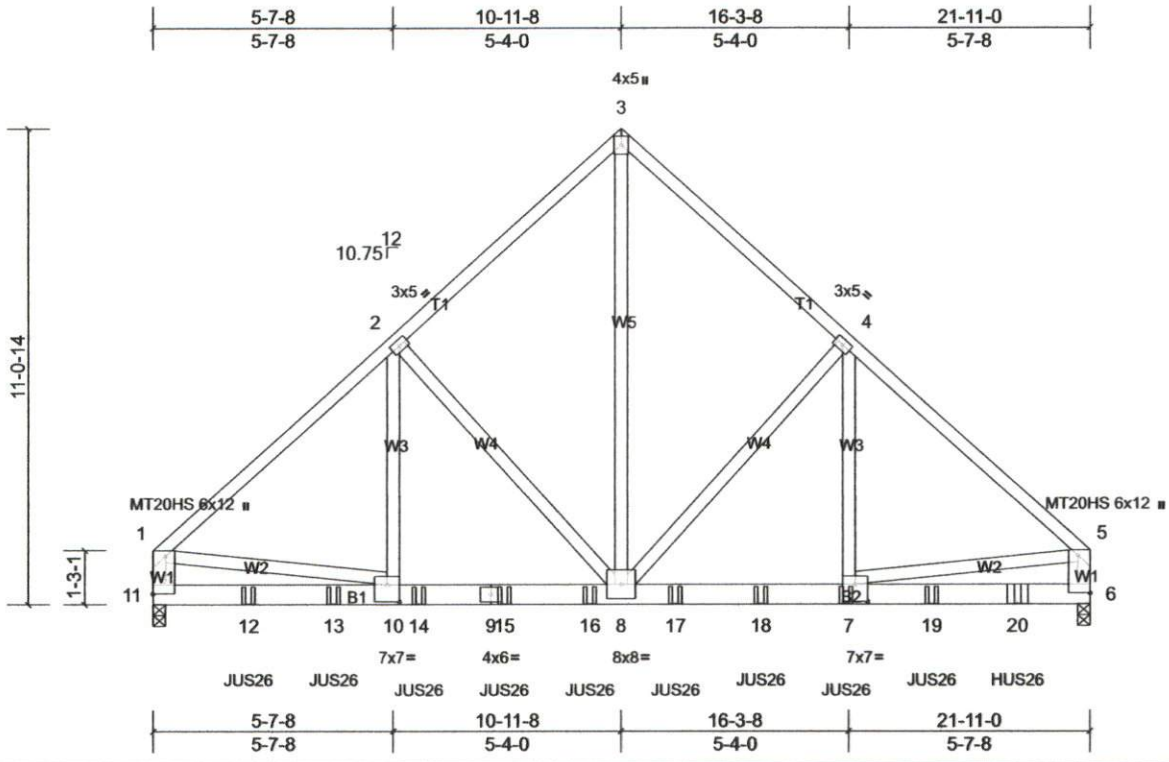
1) 2x10 SP No.2 bearing block 12" long at jt. 29 attached to front face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. 20 Total fasteners. Bearing is assumed to be SPF No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
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) Ceiling dead load (5.0 psf) on member(s). 6-7, 10-11, 7-31, 31-32, 10-32
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 24-25, 22-24, 21-22
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2, 318 lb uplift at joint 29, 156 lb uplift at joint 19, 148 lb uplift at joint 16 and 412 lb uplift at joint 22.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	T16GRD	Common Girder	1	3	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. Tue Feb 22 08:27:33 — Page: 1

ID:6?8UTe1u_M8xx?BzRFZ1oQzitZh-NUHgCuZN5wSpOQUEhfRWApmunNimbQvJD_9HD1zifGu



Scale = 1:54.1

Plate Offsets (X, Y): [1:Edge,0-3-8], [5:Edge,0-3-8], [7:0-3-8,0-4-12], [10:0-3-8,0-4-12]

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	0.95	Vert(LL)	-0.06	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.12	8-10	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 502 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=6237/0-3-8, (min. 0-3-7), 11=5860/0-3-8, (min. 0-3-3)
Max Horiz 11=-216 (LC 5)
Max Uplift 6=-652 (LC 7), 11=-618 (LC 7)
Max Grav 6=6584 (LC 14), 11=6110 (LC 13)

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

TOP CHORD	1-2=-6667/712, 2-3=-4832/641, 3-4=-4832/641, 4-5=-6759/718, 1-11=-5257/568, 5-6=-5307/571
BOT CHORD	11-12=-197/862, 12-13=-197/862, 10-13=-197/862, 10-14=-419/5004, 9-14=-419/5004, 9-15=-419/5004, 15-16=-419/5004, 8-16=-419/5004, 8-17=-423/4979, 17-18=-423/4979, 7-18=-423/4979, 7-19=-107/836, 19-20=-107/836, 6-20=-107/836
WEBS	3-8=-728/6030, 4-8=-2201/350, 4-7=-199/2606, 2-8=-2100/344, 2-10=-191/2469, 1-10=-326/4284, 5-7=-321/4222

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=22ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) All plates are MT20 plates 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 618 lb uplift at joint 11 and 652 lb uplift at joint 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) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-12 from the left end to 18-2-12 to connect truss(es) T1 (1 ply 2x10 SP) to back face of bottom chord.
10) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 20-2-12 from the left end to connect truss(es) T1A (1 ply 2x10 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

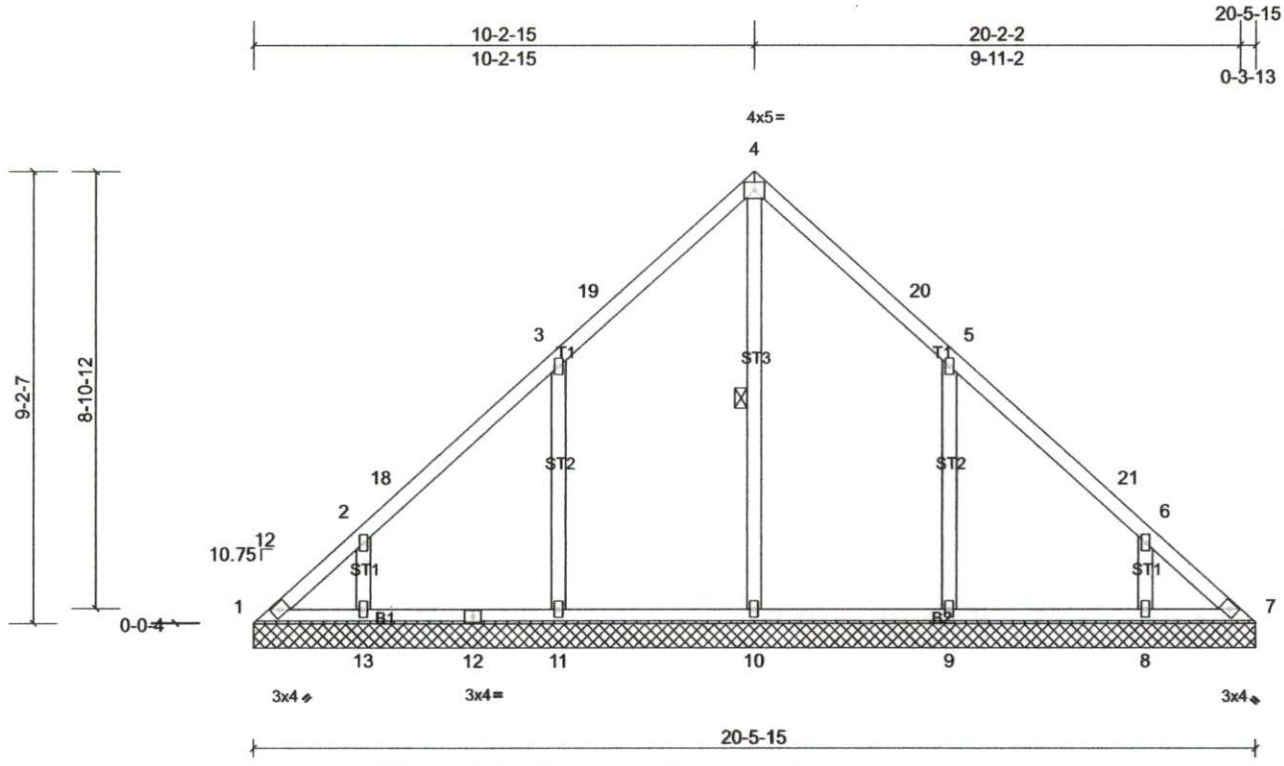
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 6-11=-20

Continued on page 2

Concentrated Loads (lb)

Vert: 7=-1023, 12=-1023, 13=-1023, 14=-1023, 15=-1023, 16=-1023, 17=-1023, 18=-1023, 19=-1023, 20=-1157

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V1	Valley	1	1	Job Reference (optional)



Scale = 1:47.3

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 102 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10

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

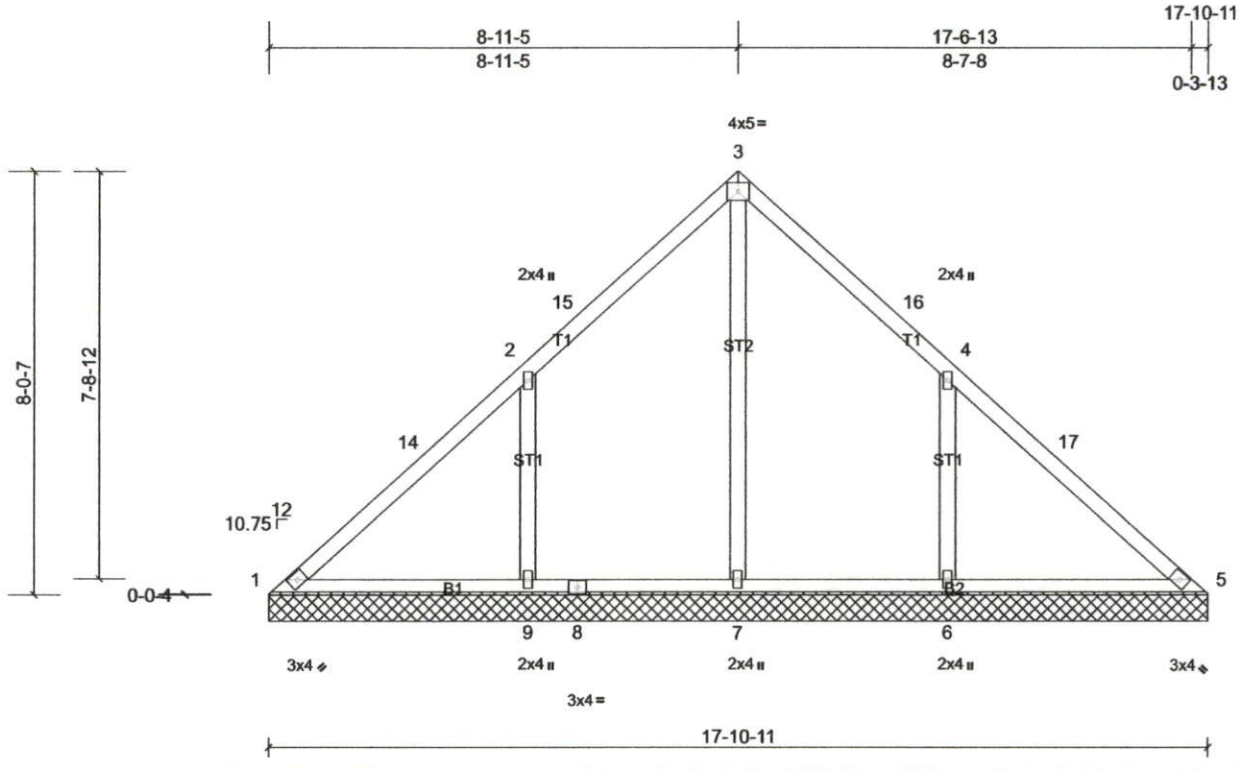
REACTIONS All bearings 20-5-15.
(lb) - Max Horiz 1=-175 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7 except 8=-102 (LC 11), 9=-166 (LC 11), 11=-166 (LC 11), 13=-102 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=283 (LC 1), 9=426 (LC 17), 10=363 (LC 16), 11=426 (LC 16), 13=283 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-290/213, 5-9=-290/213

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) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 10-3-4, Exterior (2) 10-3-4 to 13-3-4, Interior (1) 13-3-4 to 20-6-3 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) All plates are 2x4 MT20 unless otherwise indicated.
5) 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 any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=165, 13=102, 9=165, 8=102.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V2	Valley	1	1	Job Reference (optional)



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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 84 lb	FT = 20%

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

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

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

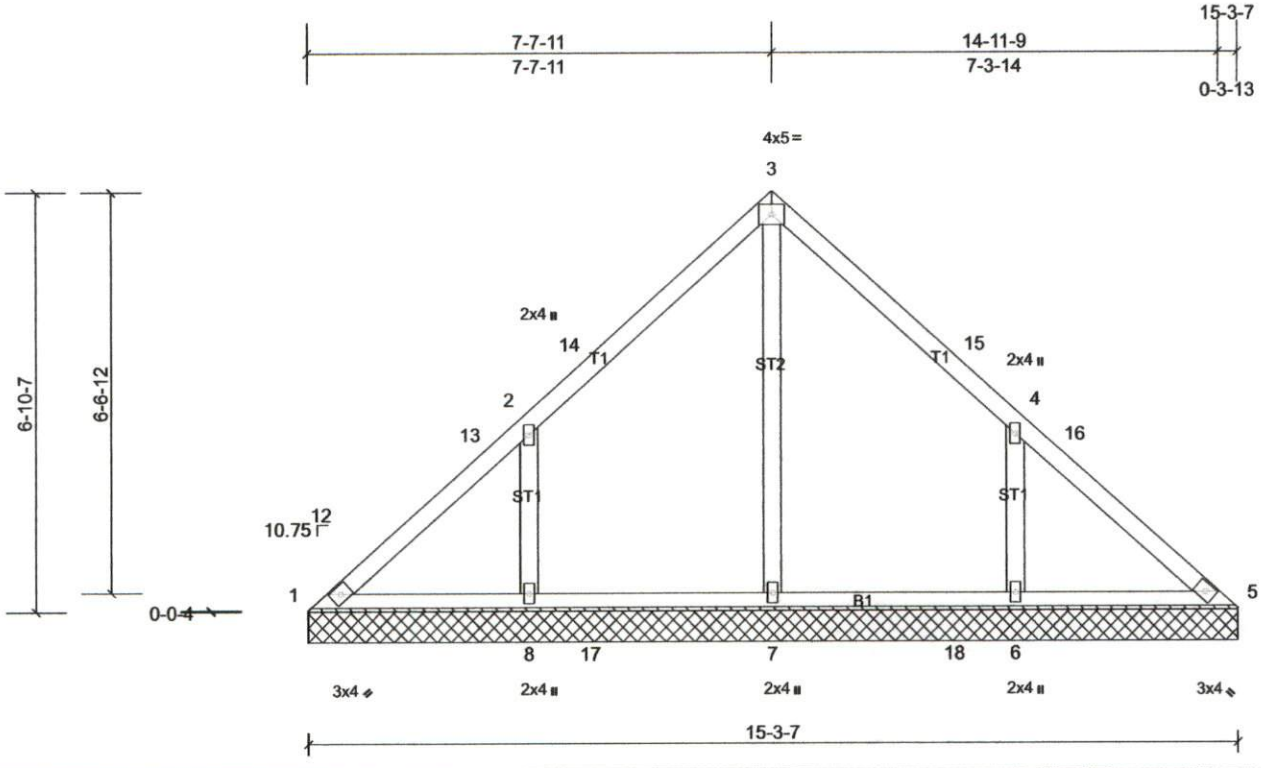
REACTIONS All bearings 17-10-11.
(lb) - Max Horiz 1=-152 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-188 (LC 11), 9=-188 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=506 (LC 17), 7=494 (LC 16), 9=509 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-102/252
WEBS 3-7=-338/0, 2-9=-323/223, 4-6=-323/223

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) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 8-11-10, Exterior (2) 8-11-10 to 11-11-10, Interior (1) 11-11-10 to 17-10-15 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=188, 6=188.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V3	Valley	1	1	Job Reference (optional)



Scale = 1:38

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 69 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

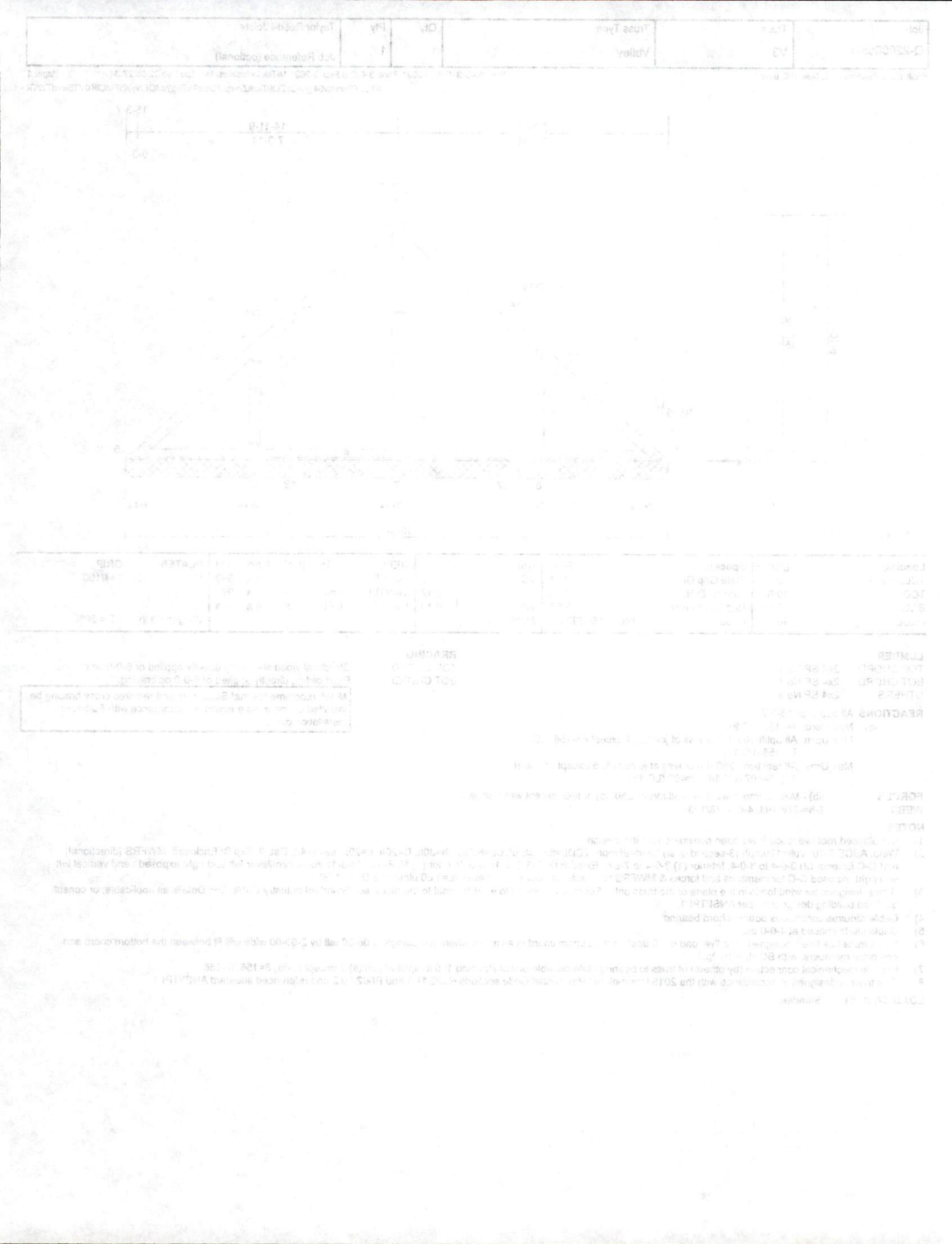
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 15-3-7.
(lb) - Max Horiz 1=-130 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-156 (LC 11), 8=-156 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=406 (LC 17), 7=407 (LC 16), 8=409 (LC 16)

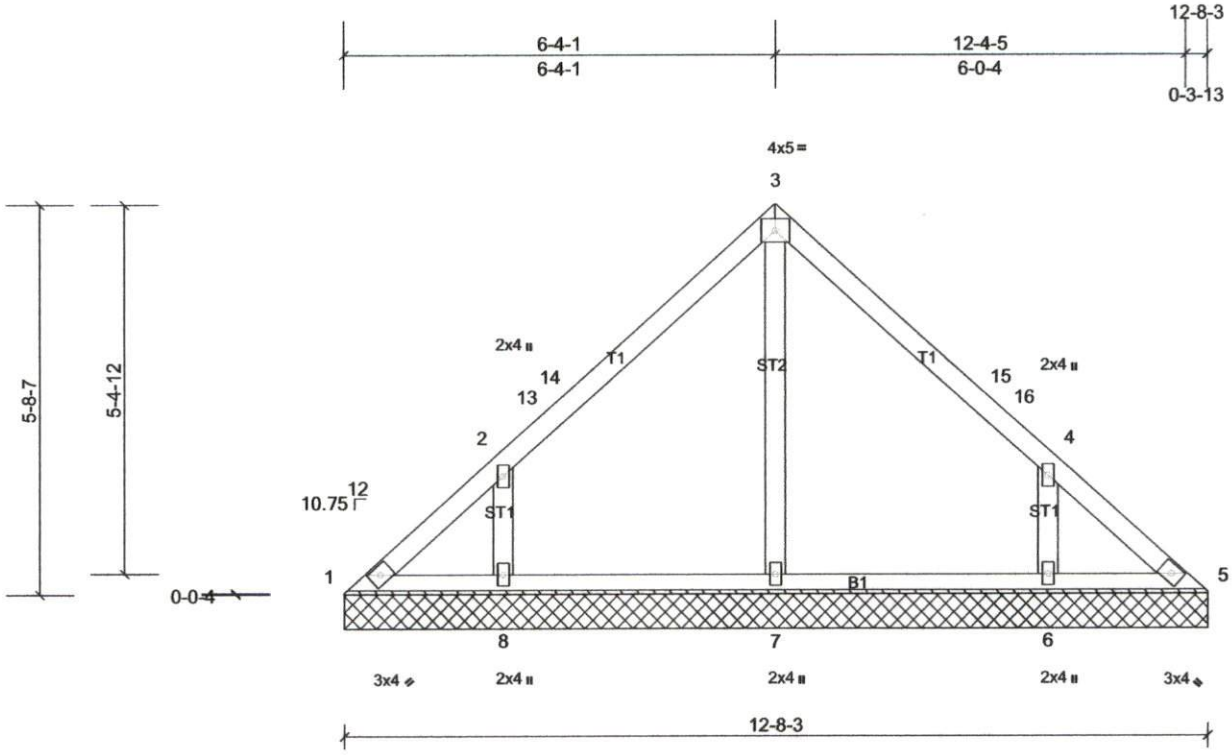
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-278/193, 4-6=-278/193

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) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 7-8-0, Exterior (2) 7-8-0 to 10-8-0, Interior (1) 10-8-0 to 15-3-11 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=156, 6=156.
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.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V4	Valley	1	1	Job Reference (optional)



Scale = 1:34

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 55 lb	FT = 20%

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

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

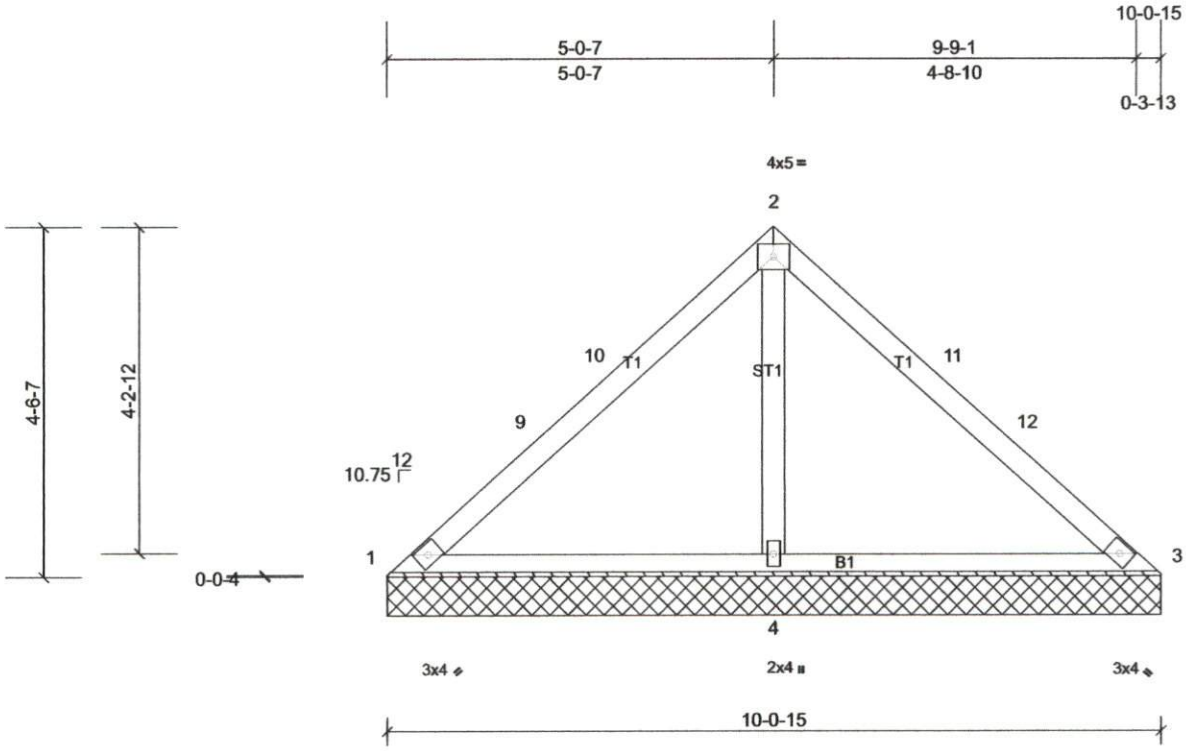
REACTIONS All bearings 12-8-3.
(lb) - Max Horiz 1=-107 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-133 (LC 11), 8=-133 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=322 (LC 17), 8=326 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-257/181, 4-6=-257/181

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) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 6-4-6, Exterior (2) 6-4-6 to 9-4-6, Interior (1) 9-4-6 to 12-8-7 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) 1 except (jt=lb) 8=132, 6=132.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V5	Valley	1	1	Job Reference (optional)



Scale = 1:30.1

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 40 lb	FT = 20%

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

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

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

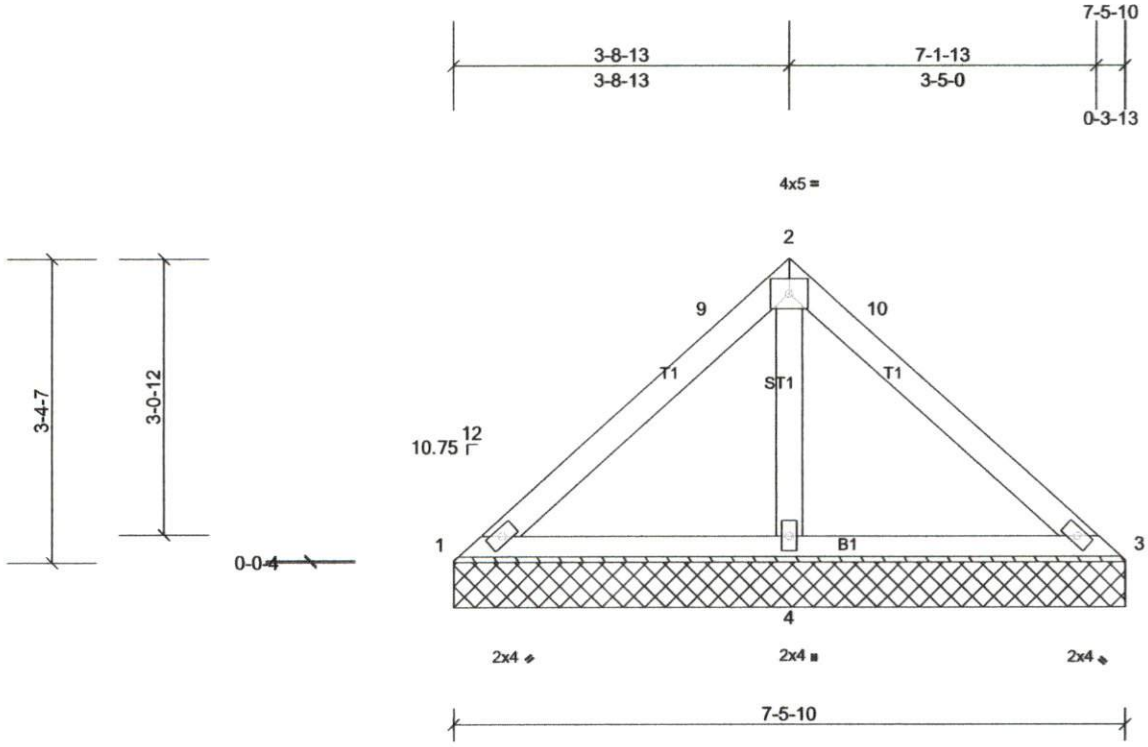
REACTIONS (lb/size) 1=34/10-0-15, (min. 0-1-8), 3=34/10-0-15, (min. 0-1-8), 4=738/10-0-15, (min. 0-1-8)
Max Horiz 1=84 (LC 10)
Max Uplift 1=-26 (LC 21), 3=-26 (LC 20), 4=-170 (LC 11)
Max Grav 1=75 (LC 20), 3=75 (LC 21), 4=738 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-68/305, 2-11=-68/305
WEBS 2-4=-560/184

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) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 5-0-12, Exterior (2) 5-0-12 to 8-0-12, Interior (1) 8-0-12 to 10-1-3 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 26 lb uplift at joint 1, 26 lb uplift at joint 3 and 170 lb uplift at joint 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V6	Valley	1	1	Job Reference (optional)



Scale = 1:25.8

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 29 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

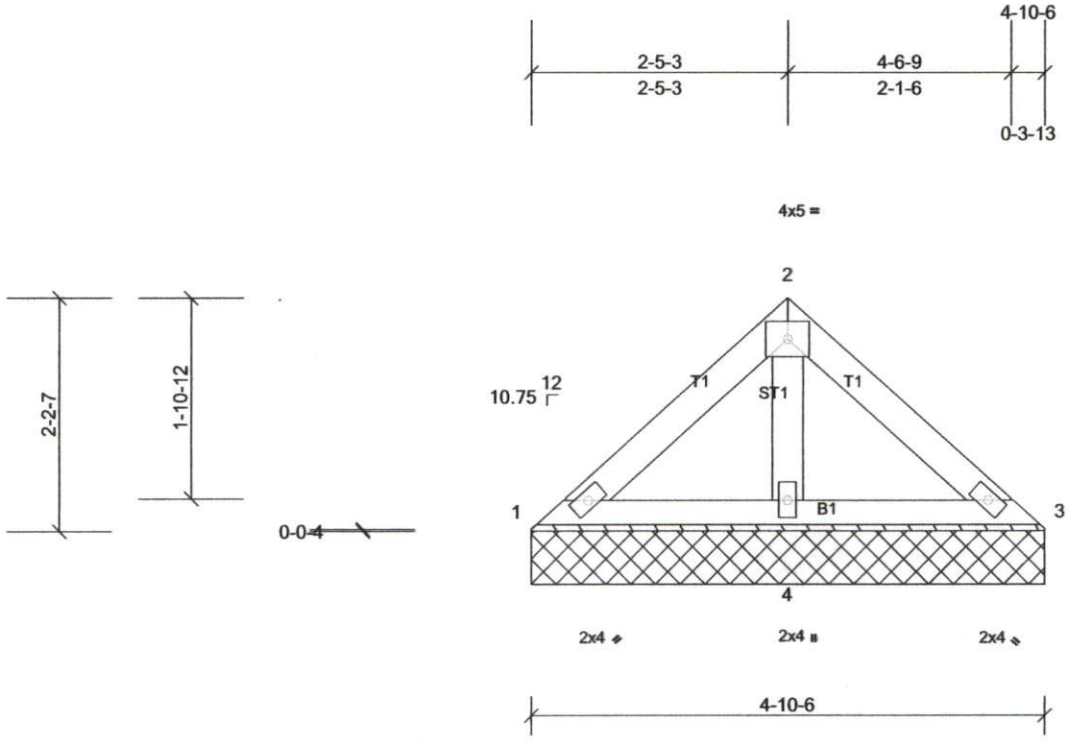
REACTIONS (lb/size) 1=44/7-5-10, (min. 0-1-8), 3=44/7-5-10, (min. 0-1-8), 4=510/7-5-10, (min. 0-1-8)
Max Horiz 1=62 (LC 10)
Max Uplift 1=-5 (LC 21), 3=-5 (LC 20), 4=-113 (LC 11)
Max Grav 1=70 (LC 20), 3=70 (LC 21), 4=510 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-358/112

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) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-9-2, Exterior (2) 3-9-2 to 6-9-1, Interior (1) 6-9-1 to 7-5-15 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 5 lb uplift at joint 1, 5 lb uplift at joint 3 and 113 lb uplift at joint 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Taylor Resd-I Joists
Q-2200055-1	V7	Valley	1	1	Job Reference (optional)



Scale = 1:21.9

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 1=53/4-10-6, (min. 0-1-8), 3=53/4-10-6, (min. 0-1-8), 4=283/4-10-6, (min. 0-1-8)
Max Horiz 1=-39 (LC 9)
Max Uplift 4=-48 (LC 11)
Max Grav 1=64 (LC 20), 3=64 (LC 21), 4=283 (LC 1)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
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 48 lb uplift at joint 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.

LOAD CASE(S) Standard