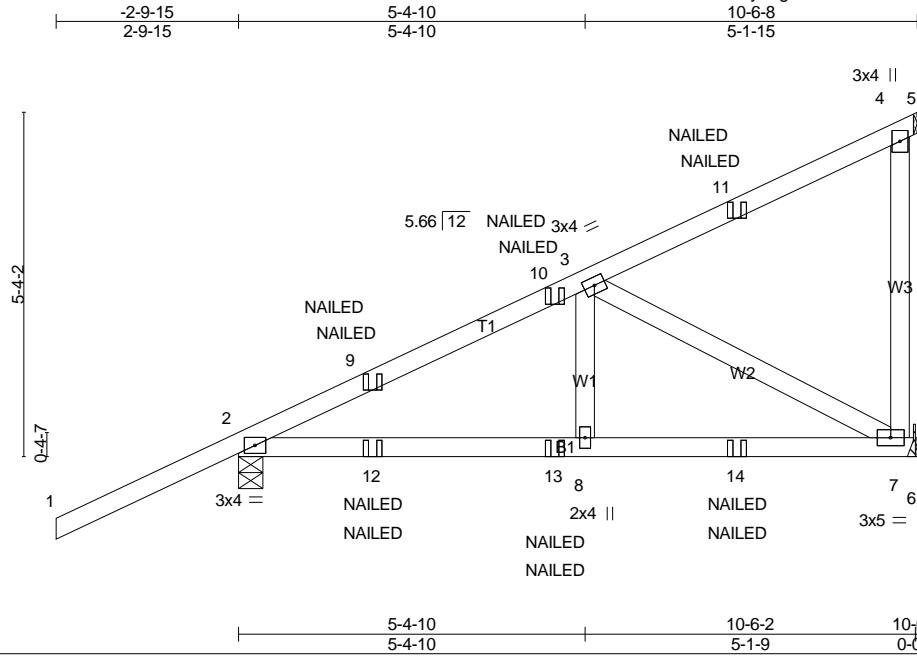


Job PVCN1220-1	Truss H1	Truss Type Diagonal Hip Girder	Qty 5	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:46 2013 Page 1
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Scale = 1:35.8

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.60	Vert(LL) -0.04 7-8 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.33	Vert(TL) -0.10 7-8 >999 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code IRC2009/TPI2007			Weight: 56 lb	FT = 20%

LUMBER

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

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

REACTIONS (lb/size) 7=553/Mechanical, 2=624/0-4-9 (min. 0-1-8)

Max Horz 2=190(LC 5)
Max Uplift 7=-77(LC 5), 2=-140(LC 8)

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

TOP CHORD 2-9=-644/61, 9-10=-553/50, 3-10=-535/19
BOT CHORD 2-12=-103/528, 12-13=-103/528, 8-13=-103/528, 8-14=-103/528, 7-14=-103/528
WEBS 3-8=0/367, 3-7=-563/71

NOTES

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 7 and 140 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20
Concentrated Loads (lb)
Vert: 9=66(F=33, B=33) 10=3(F=1, B=1) 11=-149(F=-75, B=-75) 12=5(F=3, B=3) 13=-32(F=-16, B=-16) 14=-72(F=-36, B=-36)

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	H2	Diagonal Hip Girder	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 1-5=-20

Concentrated Loads (lb)

Vert: 8=33(F) 9=-33(F=1, B=-35) 10=-169(F=-75, B=-95) 11=3(F) 12=-30(F=-16, B=-14) 13=-70(F=-36, B=-34)

Job PVCN1220-1	Truss CAP1	Truss Type Piggyback	Qty 27	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:48 2013 Page 1
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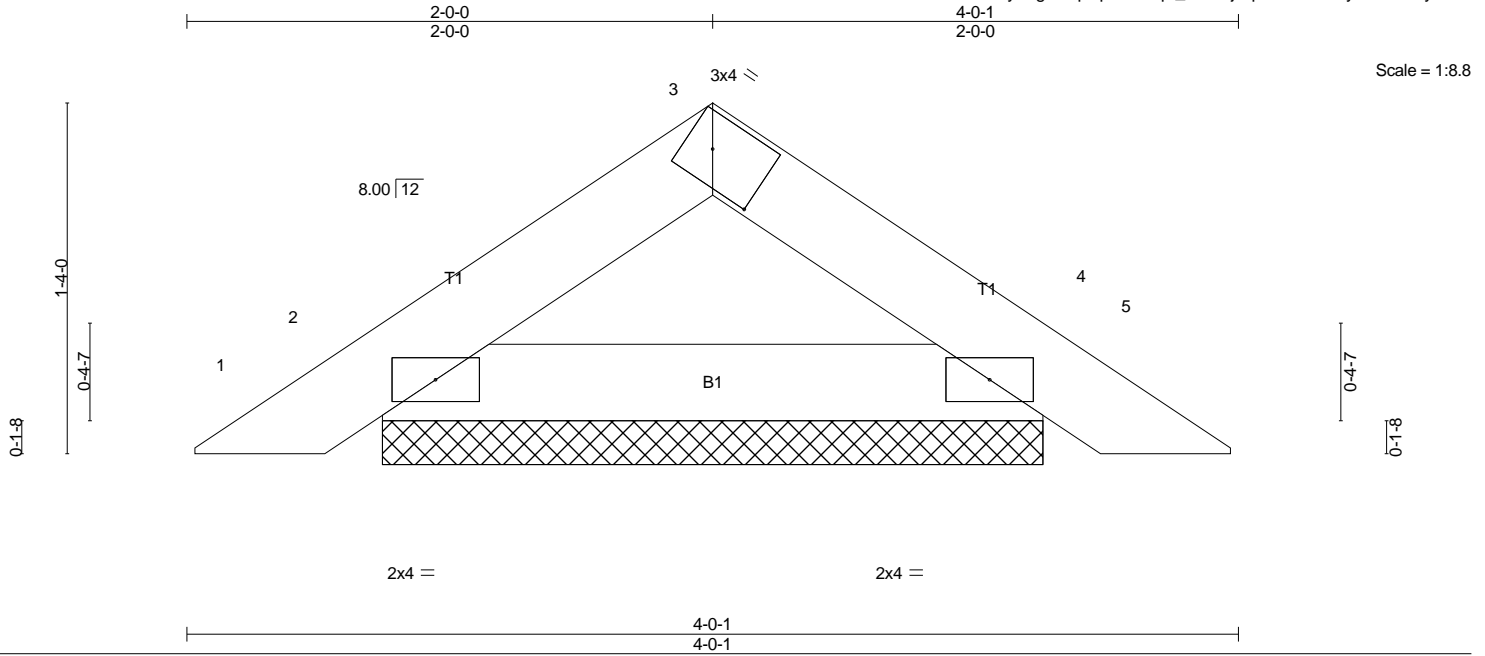


Plate Offsets (X,Y): [3:0-2-12,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.02	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.07	Vert(TL)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL)	0.00	4	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)						
							Weight: 11 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 4-0-1 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 (lb/size) 2=129/2-6-3 (min. 0-1-8), 4=129/2-6-3 (min. 0-1-8)
Max Horz 2=-23(LC 8)
Max Uplift 2=-20(LC 10), 4=-20(LC 10)

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 20 lb uplift at joint 2 and 20 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss CAP2	Truss Type Piggyback	Qty 1	Ply 3	Shane Holland
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Peak Truss Builders, Holly Springs, NC

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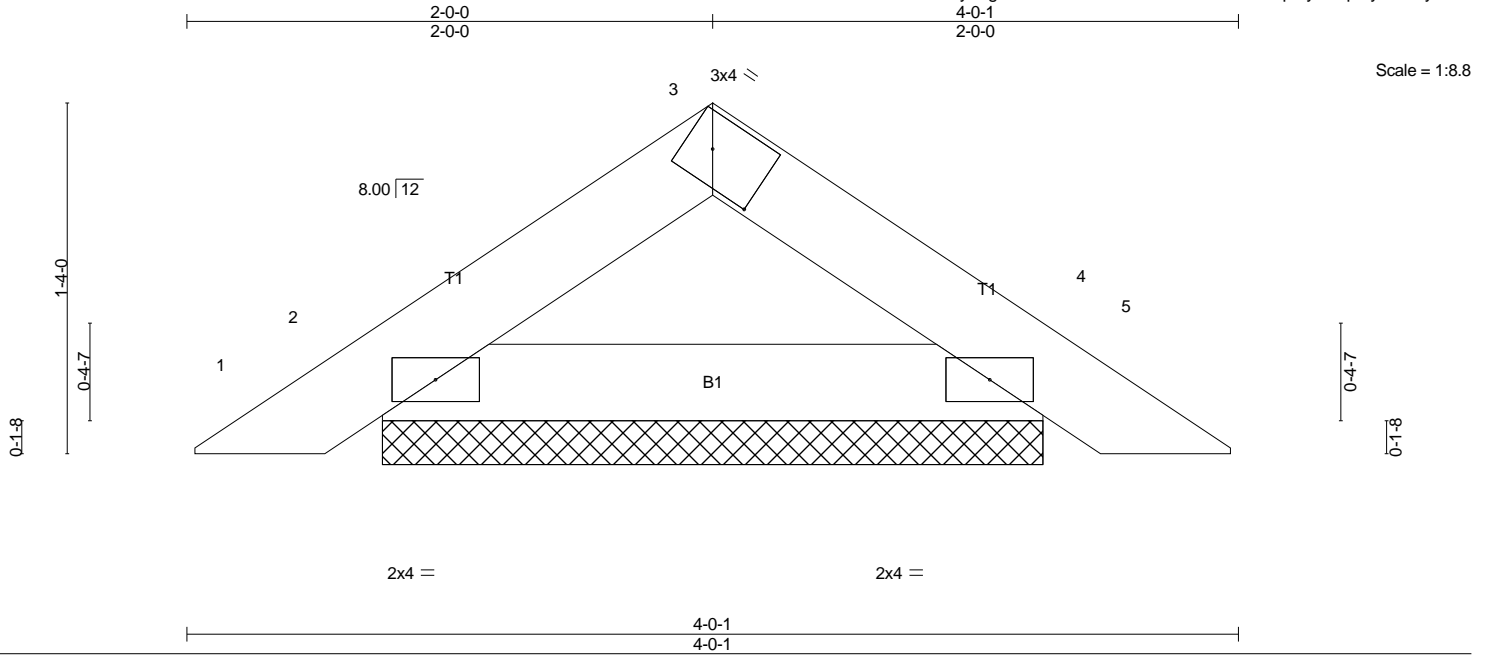


Plate Offsets (X,Y): [3:0-2-12,0-1-8]									
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.15	TC 0.01	Vert(LL)	0.00 4	n/r	120	MT20	244/190
TCDL 10.0	Lumber Increase	1.15	BC 0.02	Vert(TL)	0.00 4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)					Weight: 32 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 4-0-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=129/2-6-3 (min. 0-1-8), 4=129/2-6-3 (min. 0-1-8)
Max Horz 2=-23(LC 8)
Max Uplift 2=-20(LC 10), 4=-20(LC 10)

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

- NOTES**
- 1) Ply to ply nailing inadequate
 - 2) 3-ply truss to be connected together as follows:
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.
 - 3) 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.
 - 4) Unbalanced roof live loads have been considered for this design.
 - 5) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) 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
 - 6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2 and 20 lb uplift at joint 4.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T1	Truss Type Piggyback Base	Qty 10	Ply 1	Shane Holland
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Peak Truss Builders, Holly Springs, NC

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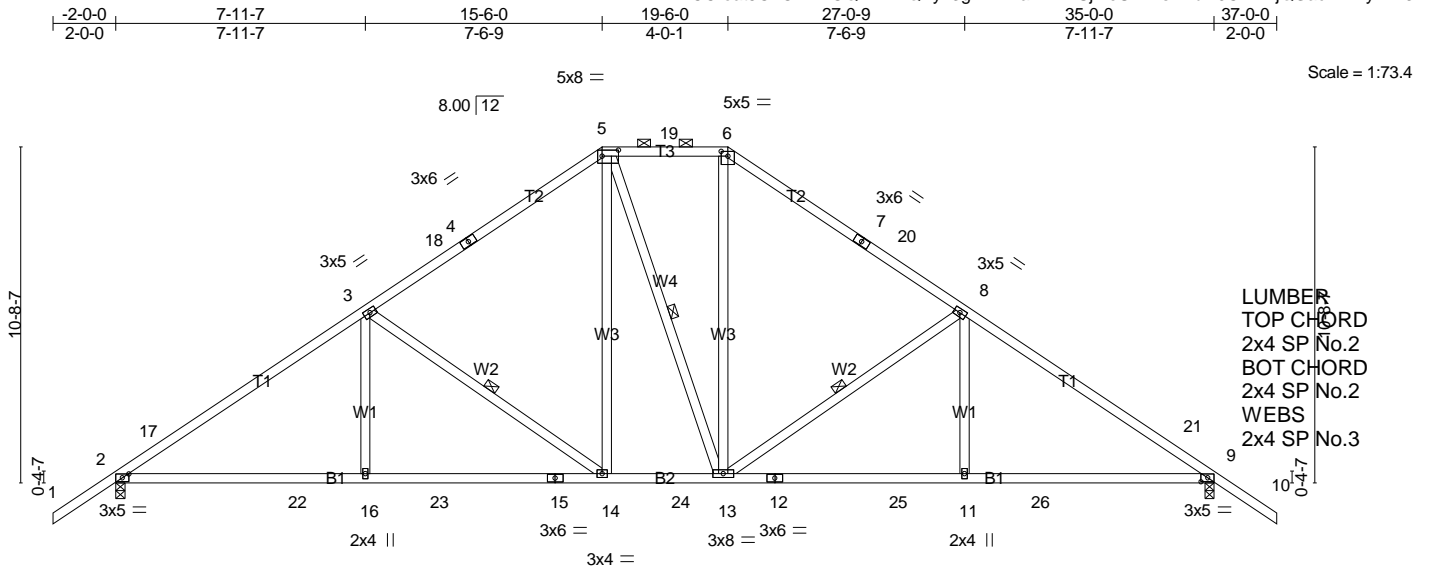


Plate Offsets (X,Y): [2:0-2-9,0-1-8], [5:0-6-4,0-2-4], [6:0-2-8,0-1-13], [9:0-2-9,0-1-8]
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LOADING (psf)	SPACING	CSI	DEFLL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.78	Vert(LL) -0.11 2-16 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.30	Vert(TL) -0.32 2-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.12 9 n/a n/a		
	Code IRC2009/TPI2007			Weight: 209 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-2-4 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-14, 5-13, 8-13
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1550/0-3-8 (min. 0-1-13), 9=1550/0-3-8 (min. 0-1-13)
Max Horz 2=-242(LC 8)
Max Uplift 2=-132(LC 10), 9=-132(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2184/164, 3-17=-2086/212, 3-18=-1574/217, 4-18=-1470/234, 4-5=-1442/262, 5-19=-1202/273, 6-19=-1202/273, 6-7=-1438/262, 7-20=-1466/234, 8-20=-1575/217, 8-21=-2081/211, 9-21=-2178/164
BOT CHORD 2-22=-23/1721, 16-22=-23/1721, 16-23=-23/1721, 15-23=-23/1721, 14-15=-23/1721, 14-24=0/1205, 13-24=0/1205, 12-13=-48/1716, 12-25=-48/1716, 11-25=-48/1716, 11-26=-48/1716, 9-26=-48/1716
WEBS 3-16=0/354, 3-14=-639/167, 5-14=-30/519, 6-13=-37/505, 8-13=-638/167, 8-11=0/352

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-6-0, Interior(1) 1-6-0 to 15-6-0, Exterior(2) 15-6-0 to 19-6-0, Interior(1) 24-5-7 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 132 lb uplift at joint 2 and 132 lb uplift at joint 9.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	T1	Piggyback Base	10	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

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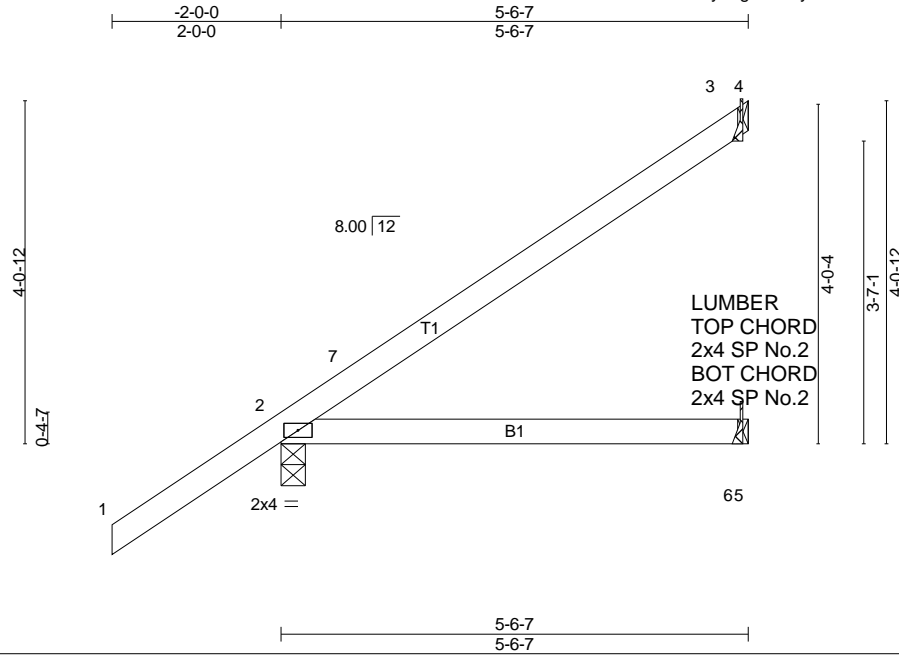
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-60, 5-6=-60, 6-10=-60, 2-9=-20
 - Concentrated Loads (lb)
 - Vert: 19=-66

Job PVCN1220-1	Truss T10	Truss Type Jack-Open	Qty 5	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:51 2013 Page 1
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Scale = 1:27.3

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.39	Vert(LL) -0.05 2-6 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.35	Vert(TL) -0.12 2-6 >549 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 22 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 5-6-7 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 (lb/size) 2=366/0-3-8 (min. 0-1-8), 3=135/Mechanical, 6=56/Mechanical
Max Horz 2=161(LC 10)
Max Uplift 2=-61(LC 10), 3=-62(LC 10)
Max Grav 2=366(LC 1), 3=135(LC 1), 6=112(LC 3)

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

NOTES

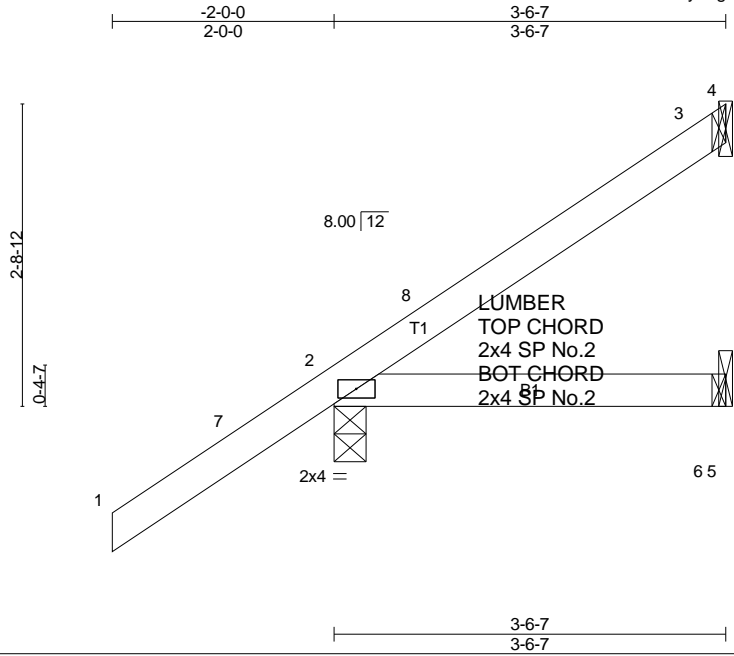
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 62 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T11	Truss Type Jack-Open	Qty 5	Ply 1	Shane Holland
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Peak Truss Builders, Holly Springs, NC

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LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.30	Vert(LL) -0.01 2-6 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.12	Vert(TL) -0.02 2-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 15 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 3-6-7 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 (lb/size) 2=302/0-3-8 (min. 0-1-8), 3=59/Mechanical, 6=36/Mechanical
Max Horz 2=123(LC 10)
Max Uplift 2=81(LC 10), 3=-25(LC 7)
Max Grav 2=302(LC 1), 3=59(LC 1), 6=72(LC 3)

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

NOTES

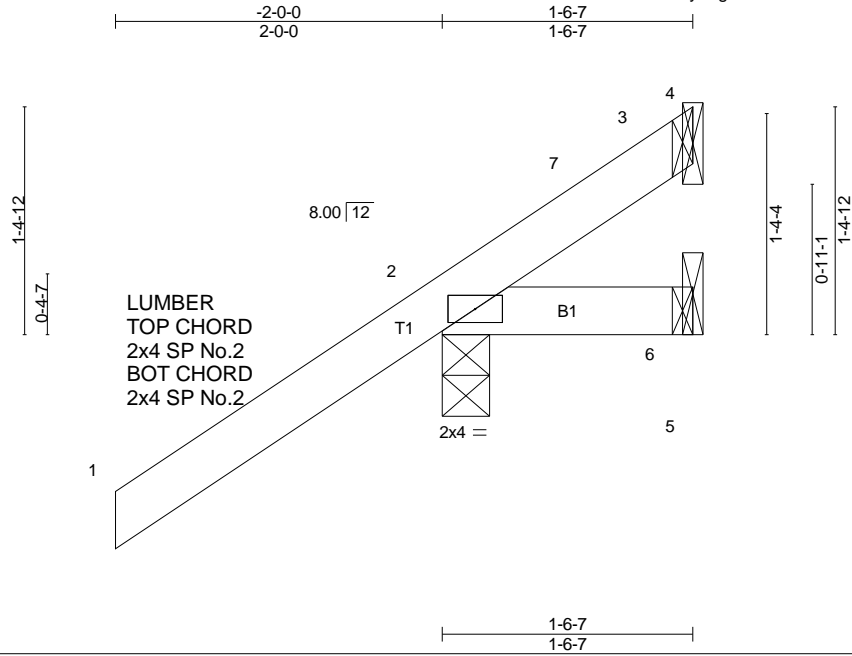
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 25 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T12	Truss Type Jack-Open	Qty 5	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:52 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-vcfK9EOvC3zQjxeqywu1P0CnW09lbhaY1wgprry4n71



Scale = 1:14.1

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.30	Vert(LL) -0.00 2 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.02	Vert(TL) -0.00 2 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 9 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 1-6-7 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 (lb/size) 2=266/0-3-8 (min. 0-1-8), 3=-45/Mechanical, 6=17/Mechanical
Max Horz 2=85(LC 10)
Max Uplift 2=-126(LC 10), 3=-45(LC 1)
Max Grav 2=266(LC 1), 3=47(LC 10), 6=35(LC 3)

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

NOTES

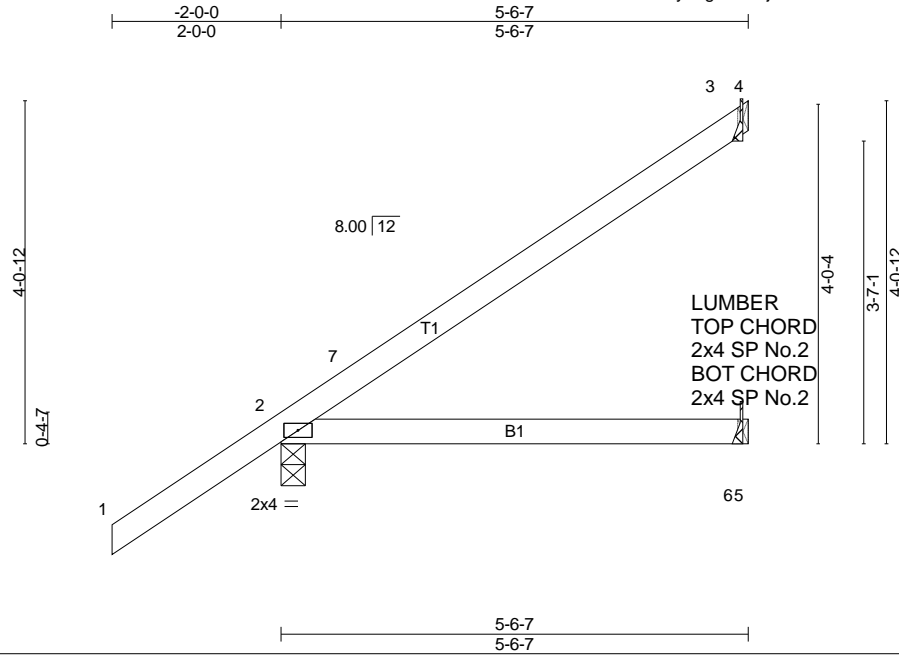
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2 and 45 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T13	Truss Type Jack-Open	Qty 6	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:53 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-OoDjMZPXzN5HK5D0WdPGxEIwpQQRk8qiGaQMNEy4n70



Scale = 1:27.3

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.39	Vert(LL) -0.05 2-6 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.35	Vert(TL) -0.12 2-6 >549 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 22 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 5-6-7 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 (lb/size) 2=366/0-3-8 (min. 0-1-8), 3=135/Mechanical, 6=56/Mechanical
Max Horz 2=161(LC 10)
Max Uplift 2=61(LC 10), 3=-62(LC 10)
Max Grav 2=366(LC 1), 3=135(LC 1), 6=112(LC 3)

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

NOTES

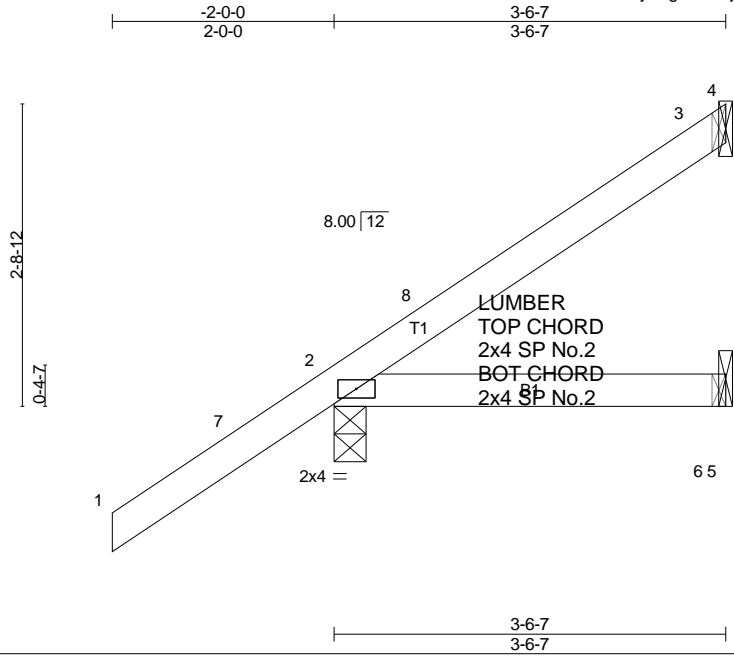
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 62 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T14	Truss Type Jack-Open	Qty 6	Ply 1	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:53 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-OoDjMZPXzN5HK5D0WdPGxElyDQULK8qiGaQMNEy4n70



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.30	Vert(LL) -0.01 2-6 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.12	Vert(TL) -0.02 2-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 15 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 3-6-7 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 (lb/size) 2=302/0-3-8 (min. 0-1-8), 3=59/Mechanical, 6=36/Mechanical
Max Horz 2=123(LC 10)
Max Uplift 2=81(LC 10), 3=-25(LC 7)
Max Grav 2=302(LC 1), 3=59(LC 1), 6=72(LC 3)

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

NOTES

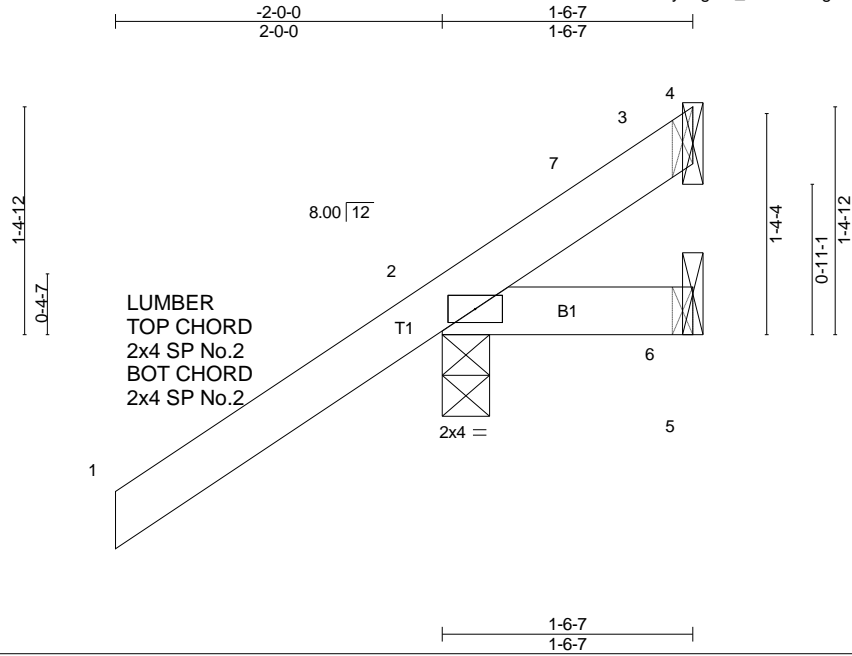
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 25 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T15	Truss Type Jack-Open	Qty 6	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:54 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-s_m5avQ9kgD8yFoC4LwVURH70prD3b4rUE9vvgy4n7?



Scale = 1:14.1

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.30	Vert(LL) -0.00 2 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.02	Vert(TL) -0.00 2 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 9 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 1-6-7 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 (lb/size) 2=266/0-3-8 (min. 0-1-8), 3=-45/Mechanical, 6=17/Mechanical
Max Horz 2=85(LC 10)
Max Uplift 2=126(LC 10), 3=-45(LC 1)
Max Grav 2=266(LC 1), 3=47(LC 10), 6=35(LC 3)

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

NOTES

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-6-7 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
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2 and 45 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T16	Truss Type Hip	Qty 1	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:55 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-KBKtNFRnV_L?aPNPe2Sk1fqATD_go_f?juvTR6y4n7_

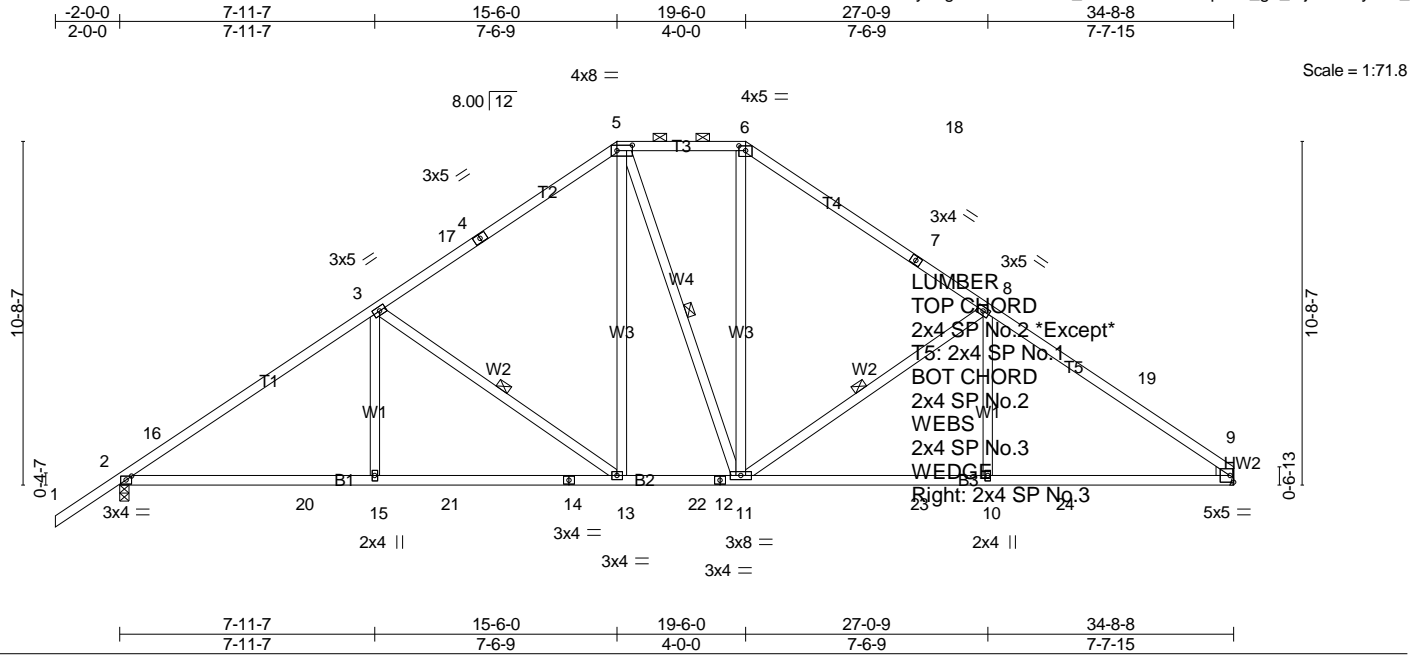


Plate Offsets (X,Y): [5:0-5-12,0-2-0], [6:0-2-8,0-1-13]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.77	Vert(LL) -0.11 2-15 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.30	Vert(TL) -0.32 2-15 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.11 9 n/a n/a		
	Code IRC2009/TPI2007				Weight: 205 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-3-14 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-13, 5-11, 8-11

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

REACTIONS (lb/size) 2=1513/0-3-8 (min. 0-1-13), 9=1376/Mechanical
Max Horz 2=234(LC 9)
Max Uplift 2=-146(LC 10), 9=-74(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-2121/193, 3-16=-2024/240, 3-17=-1508/241, 4-17=-1406/258, 4-5=-1378/286, 5-6=-1146/291, 6-18=-1370/295, 7-18=-1420/263, 7-8=-1508/250, 8-19=-2006/250, 9-19=-2085/219
BOT CHORD 2-20=-108/1669, 15-20=-108/1669, 15-21=-108/1669, 14-21=-108/1669, 13-14=-108/1669, 13-22=0/1152, 12-22=0/1152, 11-12=0/1152, 11-23=-102/1651, 10-23=-102/1651, 10-24=-102/1651, 9-24=-102/1651
WEBS 3-15=0/354, 3-13=-641/165, 5-13=-30/520, 6-11=-50/504, 8-11=-628/172, 8-10=0/351

NOTES

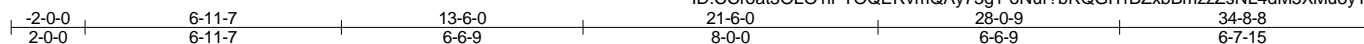
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-5-10, Interior(1) 1-5-10 to 15-6-0, Exterior(2) 15-6-0 to 19-6-0, Interior(1) 24-4-14 to 34-7-12 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 2 and 74 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T17	Truss Type Hip	Qty 1	Ply 1	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:56 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAy73g1-oNur?bRQGITrBZxbBmzzZsNL4dM5XMu8yYe0zYy4n6Z



Scale = 1:62.5

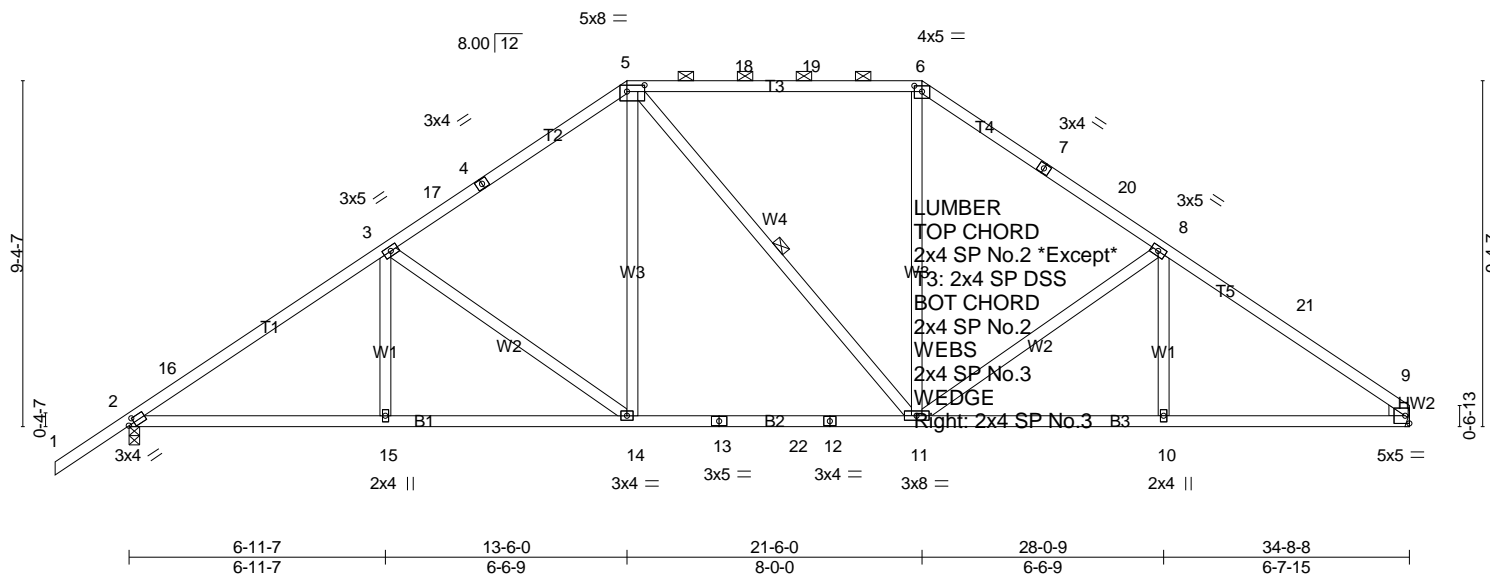


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [5:0-5-12,0-2-0], [6:0-2-8,0-1-13]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.70	Vert(LL) -0.17 11-14 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.62	Vert(TL) -0.38 11-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.11 9 n/a n/a		
	Code IRC2009/TPI2007				Weight: 196 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-10-14 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-11
WEDGE Right: 2x4 SP No.3	

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

REACTIONS (lb/size) 2=1513/0-3-8 (min. 0-1-13), 9=1376/Mechanical
Max Horz 2=207(LC 9)
Max Uplift 2=146(LC 10), 9=74(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-2117/213, 3-16=-2009/255, 3-17=-1630/254, 4-17=-1543/267, 4-5=-1515/293, 5-18=-1262/292, 18-19=-1262/292, 6-19=-1262/292, 6-7=-1511/300, 7-20=-1519/278, 8-20=-1627/260, 8-21=-1986/263, 9-21=-2084/237
BOT CHORD 2-15=-130/1655, 14-15=-130/1655, 13-14=-13/1265, 13-22=-13/1265, 12-22=-13/1265, 11-12=-13/1265, 10-11=-125/1640, 9-10=-125/1640
WEBS 3-15=0/286, 3-14=-486/144, 5-14=0/501, 6-11=-2/494, 8-11=-475/150, 8-10=0/285

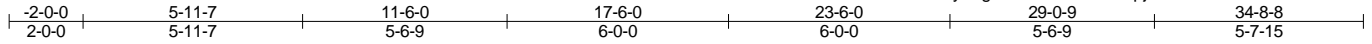
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 2-0-0 to 1-5-10, Interior(1) 1-5-10 to 13-6-0, Exterior(2) 13-6-0 to 26-4-14, Interior(1) 26-4-14 to 34-7-12 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 2 and 74 lb uplift at joint 9.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T18	Truss Type Hip	Qty 1	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:57 2013 Page 1
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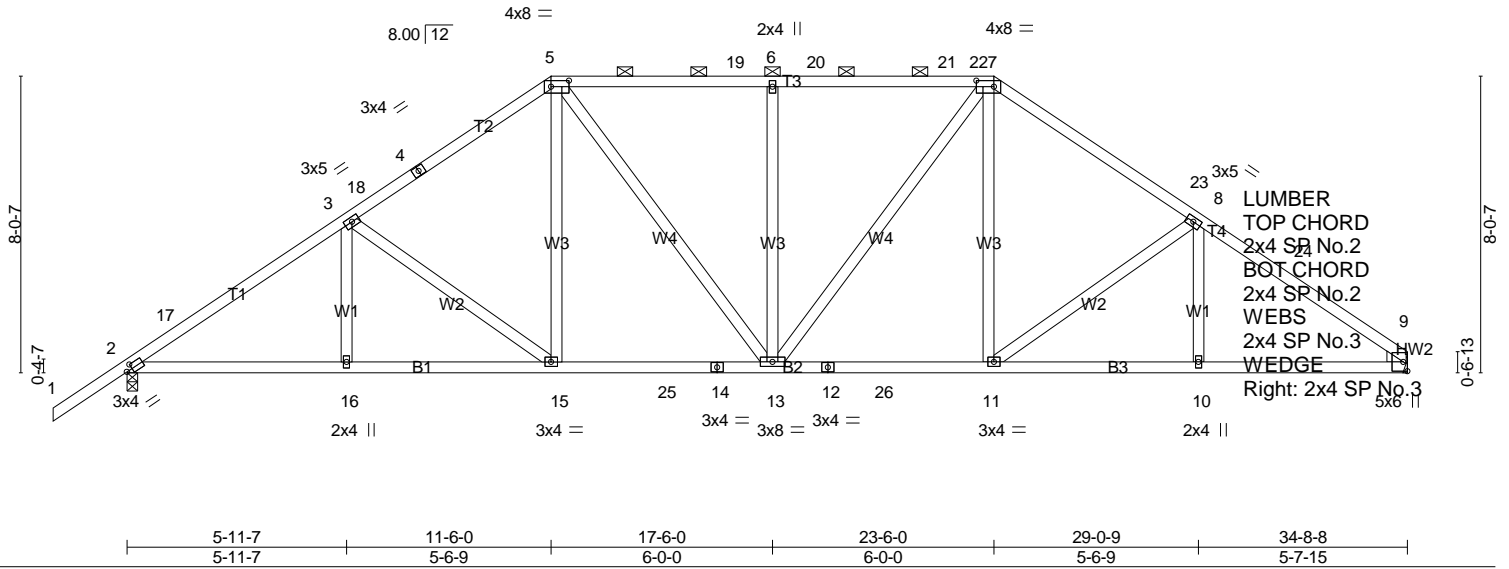


Plate Offsets (X, Y): [2:0-2-0,0-1-8], [5:0-5-12,0-2-0], [7:0-5-12,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.15	TC 0.61	Vert(LL) -0.10	13-15	>999	MT20	244/190
TCDL 10.0	Lumber Increase	1.15	BC 0.57	Vert(TL) -0.25	13-15	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(TL) 0.11	9	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)					Weight: 207 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except
2-0-0 oc purlins (4-2-7 max.): 5-7.
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 (lb/size) 2=1513/0-3-8 (min. 0-1-13), 9=1376/Mechanical
Max Horz 2=179(LC 9)
Max Uplift 2=146(LC 10), 9=74(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2144/227, 3-17=-2049/263, 3-18=-1738/263, 4-18=-1673/273, 4-5=-1638/297,
5-19=-1563/320, 6-19=-1562/320, 6-20=-1562/320, 20-21=-1563/320, 21-22=-1563/320,
7-22=-1563/320, 7-23=-1629/304, 8-23=-1732/271, 8-24=-2010/271, 9-24=-2112/248
BOT CHORD 2-16=-148/1685, 15-16=-148/1685, 15-25=-46/1367, 14-25=-46/1367, 13-14=-46/1367,
12-13=-40/1360, 12-26=-40/1360, 11-26=-40/1360, 10-11=-143/1666, 9-10=-143/1666
WEBS 3-15=-400/125, 5-15=-5/404, 5-13=-59/418, 6-13=-404/150, 7-13=-54/429, 7-11=-8/390,
8-11=-387/132

NOTES

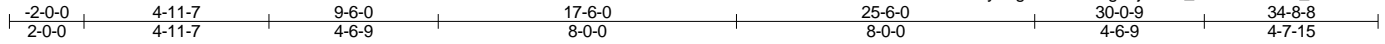
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-5-10, Interior(1) 1-5-10 to 11-6-0, Exterior(2) 11-6-0 to 28-4-14, Interior(1) 28-4-14 to 34-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 2 and 74 lb uplift at joint 9.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

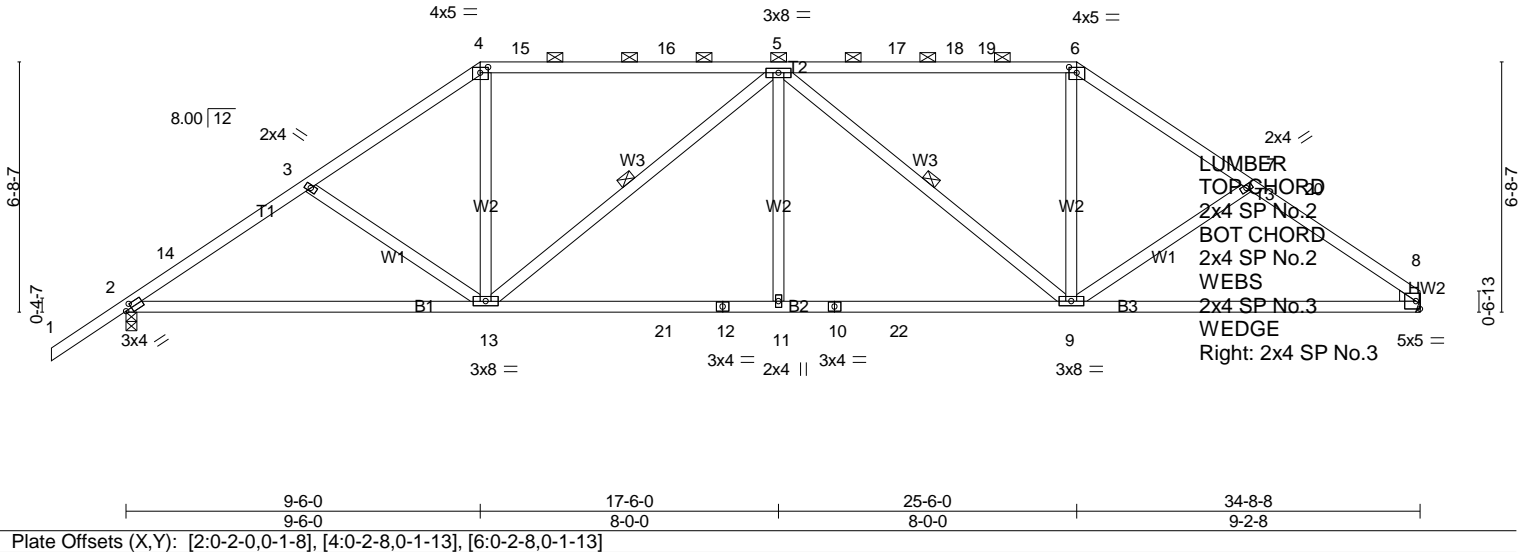
Job PVCN1220-1	Truss T19	Truss Type Hip	Qty 1	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:58 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-kl0cPHTgovjZR5_JB?ReHSfzR_a?KVRPs771Ry4n6x



Scale = 1:61.8



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.95	Vert(LL) -0.22 2-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Vert(TL) -0.59 2-13 >698 180		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)	Horz(TL) 0.12 8 n/a n/a		
				Weight: 186 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except
2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
10-0-0 oc bracing: 9-11.
WEBS 1 Row at midpt 5-13, 5-9

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

REACTIONS (lb/size) 2=1513/0-3-8 (min. 0-1-13), 8=1376/Mechanical
Max Horz 2=151(LC 9)
Max Uplift 2=146(LC 10), 8=74(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-2109/274, 3-14=-2032/303, 3-4=-1871/282, 4-15=-1507/277, 15-16=-1507/277,
5-16=-1506/277, 5-17=-1496/277, 17-18=-1497/277, 18-19=-1497/277, 6-19=-1497/277,
6-7=-1861/293, 7-20=-1943/310, 8-20=-2069/293
BOT CHORD 2-13=-187/1666, 13-21=-143/1923, 12-21=-143/1923, 10-11=-143/1923,
10-22=-143/1923, 9-22=-143/1923, 8-9=-184/1635
WEBS 4-13=-23/676, 5-13=-654/104, 5-11=0/363, 5-9=-669/94, 6-9=-23/672

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 2-0-0 to 1-5-10, Interior(1) 1-5-10 to 9-6-0, Exterior(2) 9-6-0 to 30-2-2, Interior(1) 30-2-2 to 34-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 2 and 74 lb uplift at joint 8.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T1GRD	Truss Type PIGGYBACK BASE GIRDE	Qty 1	Ply 4	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:59 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-Cya_ddUIZDrQ20gAtuWgBV_qHqLikeCaeWtgaty4n6

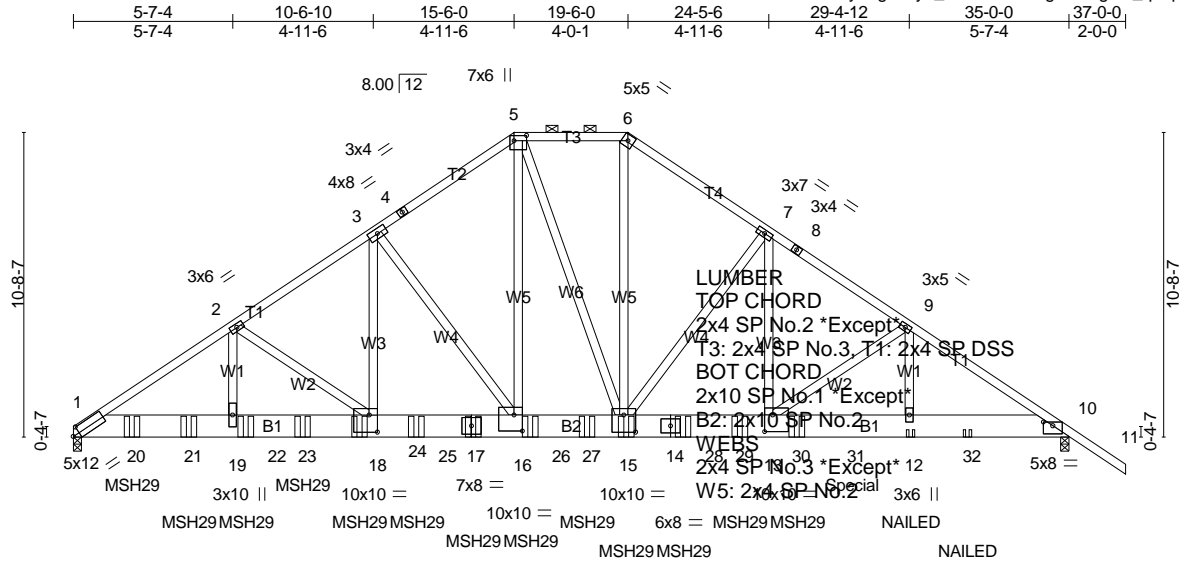


Plate Offsets (X,Y): [1:0-2-15,0-2-12], [5:0-2-4,0-5-4], [10:0-4-0,0-1-9], [13:0-3-8,0-7-0], [15:0-5-0,0-7-4], [16:0-3-8,0-6-12], [18:0-3-8,0-7-4]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.86	Vert(LL) -0.20 16-18 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.90	Vert(TL) -0.44 16-18 >941 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.10 10 n/a n/a		
	Code IRC2009/TPI2007				Weight: 1261 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP No.3, T1: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x10 SP No.1 *Except* B2: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W5: 2x4 SP No.2	

REACTIONS (lb/size) 1=13230/0-3-8 (req. 0-4-7), 10=11291/0-3-8 (min. 0-3-6)
Max Horz 1=-233(LC 6)
Max Uplift 1=-622(LC 8), 10=-794(LC 8)
Max Grav 1=15095(LC 2), 10=11485(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-24240/1044, 2-3=-20162/973, 3-4=-15555/853, 4-5=-15489/883, 5-6=-12875/814,
6-7=-15415/936, 7-8=-18368/1197, 8-9=-18464/1180, 9-10=-20198/1319
BOT CHORD 1-20=-747/20279, 20-21=-747/20279, 19-21=-747/20279, 19-22=-747/20279,
22-23=-747/20279, 23-24=-747/20279, 18-24=-747/20279, 18-25=-583/16739,
17-25=-583/16739, 16-17=-583/16739, 16-26=-413/12991, 26-27=-413/12991,
15-27=-413/12991, 14-15=-770/15322, 14-28=-770/15322, 28-29=-770/15322,
13-29=-770/15322, 13-30=-973/16867, 30-31=-973/16867, 12-31=-973/16867,
12-32=-973/16867, 10-32=-973/16867
WEBS 2-19=-69/4316, 2-18=-4357/202, 3-18=-195/7479, 3-16=-6489/293, 5-16=-291/8713,
5-15=-774/596, 6-15=-443/8296, 7-15=-4862/531, 7-13=-481/5499, 9-13=-2183/249,
9-12=-149/1914

- NOTES**
- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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 distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - The Fabrication Tolerance at joint 5 = 8%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	T1GRD	PIGGYBACK BASE GIRDE	1	4	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:34:59 2013 Page 2
ID:CCroat5OLO1IPTOQERvmQAY73g1-Cya_ddUIZDrQ20gAtuWgBV_qHqLlkeCaeWtgaty4n6w

NOTES

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 622 lb uplift at joint 1 and 794 lb uplift at joint 10.
- 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use USP MSH29 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 25-5-4 to connect truss(es) T4 (1 ply 2x8 SP), T22 (1 ply 2x8 SP), T16 (1 ply 2x4 SP), T17 (1 ply 2x4 SP), T18 (1 ply 2x4 SP), T19 (1 ply 2x4 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3011 lb down and 454 lb up at 27-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 6-11=-60, 1-10=-20

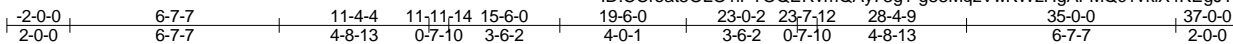
Concentrated Loads (lb)

Vert: 17=-1433(B) 15=-1356(B) 12=-182(B) 20=-1433(B) 21=-1433(B) 22=-1433(B) 23=-1433(B) 24=-1433(B) 25=-1433(B) 26=-1433(B) 27=-1433(B) 28=-1356(B)
29=-1356(B) 30=-1356(B) 31=-3011(B) 32=-102(B)

Job PVCN1220-1	Truss T2	Truss Type Attic	Qty 5	Ply 1	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:00 2013 Page 1
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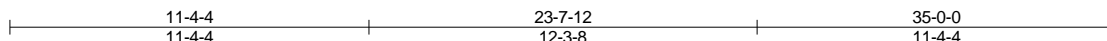
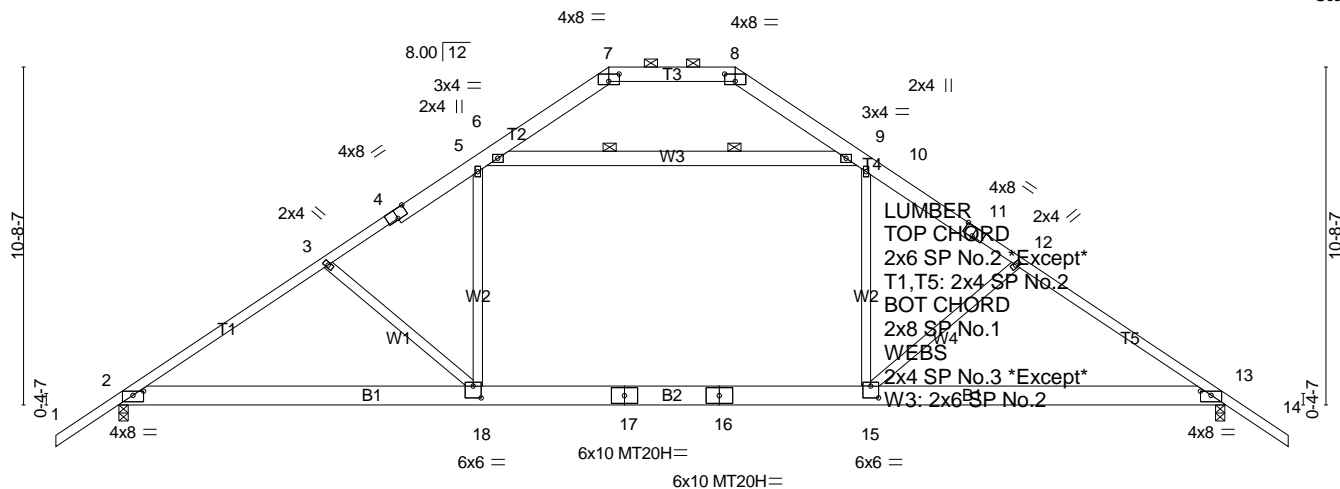


Plate Offsets (X,Y): [2:0-4-0,0-1-9], [4:0-4-0,Edge], [7:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,Edge], [13:0-4-0,0-1-9], [15:0-3-0,0-4-8], [18:0-3-0,0-4-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.15	TC 0.63	Vert(LL)	-0.34 15-18	>999	240	MT20	244/190
TCDL 10.0	Lumber Increase	1.15	BC 0.93	Vert(TL)	-0.48 15-18	>859	180	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.53	Horz(TL)	0.06 13	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)	Attic	-0.28 15-18	529	360		Weight: 261 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T1,T5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x6 SP No.2	WEBS 2 Rows at 1/3 pts 6-9

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

REACTIONS (lb/size) 2=1579/0-3-8 (min. 0-2-1), 13=1579/0-3-8 (min. 0-2-1)
Max Horz 2=-241(LC 6)
Max Uplift 2=107(LC 8), 13=107(LC 8)
Max Grav 2=1752(LC 2), 13=1752(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2678/85, 3-4=-2441/53, 4-5=-2334/81, 5-6=-1849/118, 6-7=-468/120,
7-8=-324/123, 8-9=-468/120, 9-10=-1849/118, 10-11=-2344/81, 11-12=-2441/53,
12-13=-2678/85
BOT CHORD 2-18=0/2151, 17-18=0/1976, 16-17=0/1976, 15-16=0/1976, 13-15=0/2151
WEBS 5-18=0/865, 6-9=-1722/53, 10-15=0/863, 3-18=-344/136, 12-15=-344/136

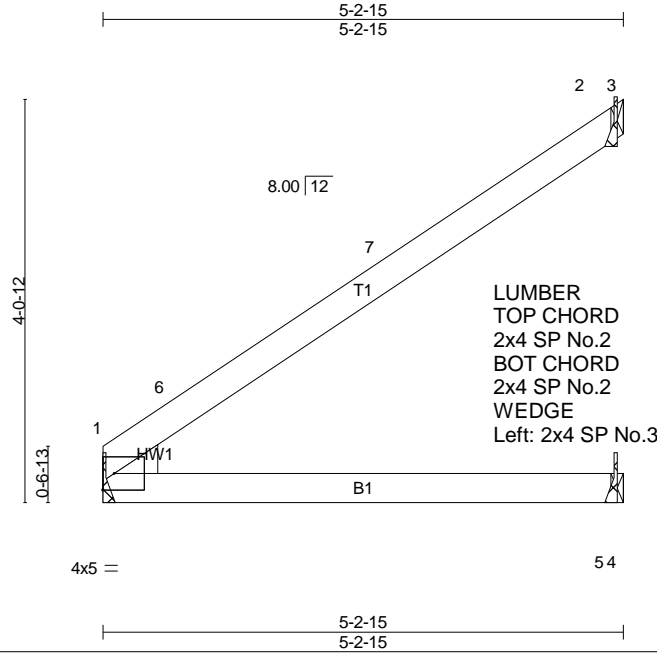
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Ceiling dead load (5.0 psf) on member(s), 5-6, 9-10, 6-9
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-18
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2 and 107 lb uplift at joint 13.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T20	Truss Type Jack-Open	Qty 1	Ply 1	Shane Holland Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:00 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-g88MqzVwKWzHgAFMqc1vkiX55EqxTJZktAcE6Ky4n6v



Scale = 1:23.2

4x5 = 54

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plates Increase 1.15	TC 0.52	Vert(LL) -0.04	1-5	>999	240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.32	Vert(TL) -0.10	1-5	>620	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)					Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-15 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 (lb/size) 1=202/Mechanical, 2=155/Mechanical, 5=54/Mechanical
Max Horz 1=106(LC 10)
Max Uplift 2=-82(LC 10)
Max Grav 1=202(LC 1), 2=155(LC 1), 5=108(LC 3)

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

NOTES

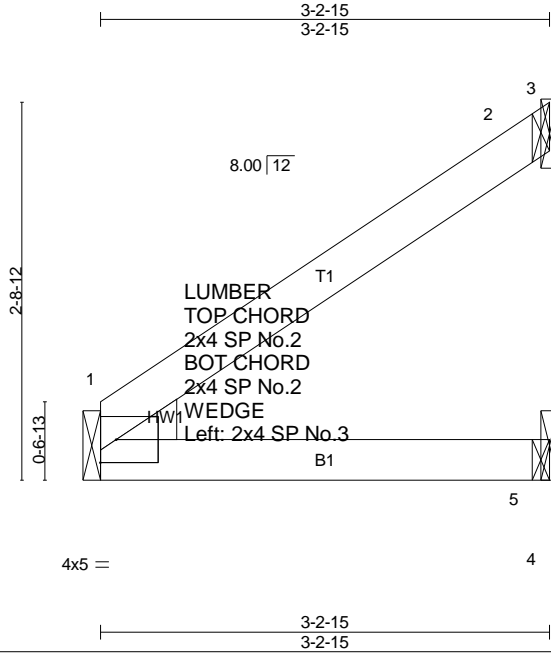
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 5-2-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T21	Truss Type Jack-Open	Qty 1	Ply 1	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:01 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-9Kik2JVY5q58IKqY_JY8Gw4MBeCUCmpt6qMnemy4n6u



Scale = 1:16.6

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.01	1-5	>999	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.11	Vert(TL)	-0.01	1-5	>999		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.00	Horz(TL)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)					Weight: 12 lb	FT = 20%
	Code IRC2009/TPI2007							

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-15 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 (lb/size) 1=122/Mechanical, 2=95/Mechanical, 5=34/Mechanical
Max Horz 1=68(LC 10)
Max Uplift 2=54(LC 10)
Max Grav 1=122(LC 1), 2=95(LC 1), 5=68(LC 3)

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

NOTES

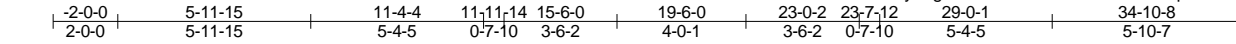
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T22	Truss Type Attic	Qty 1	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:02 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-dXF6FeWAs8E?wUPIY04Np7cR42M4x5i1KU5KACy4n6t



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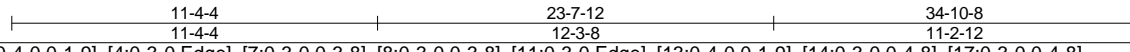
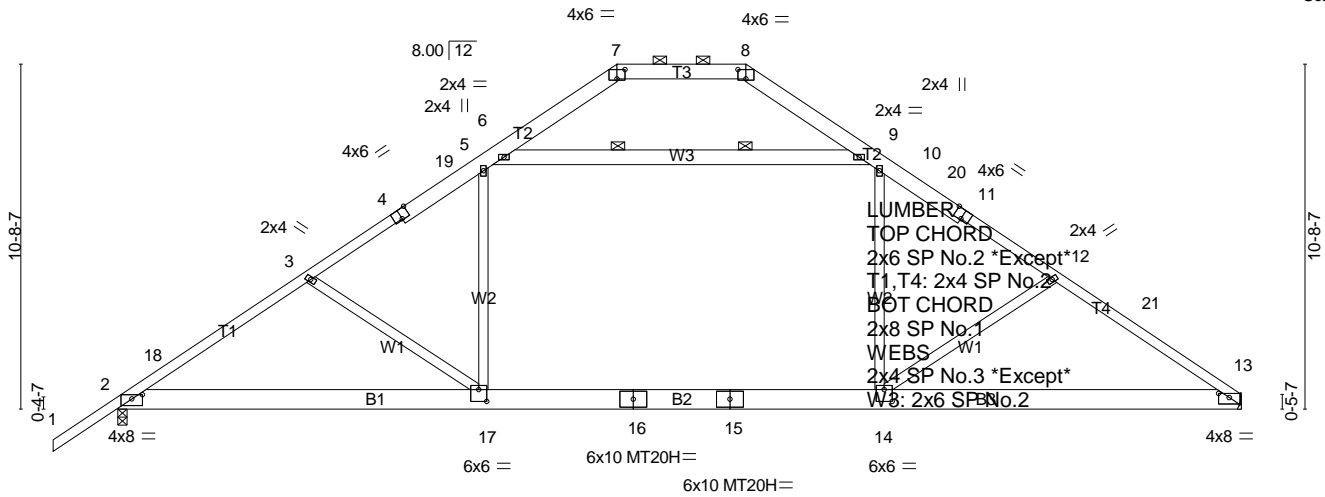


Plate Offsets (X,Y): [2:0-4-0,0-1-9], [4:0-3-0,Edge], [7:0-3-0,0-3-8], [8:0-3-0,0-3-8], [11:0-3-0,Edge], [13:0-4-0,0-1-9], [14:0-3-0,0-4-8], [17:0-3-0,0-4-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	Vert(LL)	-0.34	14-17	>999	240	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.85	Vert(TL)	-0.49	14-17	>855	180	187/143
BCLL 0.0 *	Lumber Increase 1.15	WB 0.53	Horz(TL)	0.06	13	n/a	n/a	
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Attic	-0.28	14-17	528	360	
	Code IRC2009/TPI2007							Weight: 257 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T1, T4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x6 SP No.2	WEBS 2 Rows at 1/3 pts 6-9

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

REACTIONS (lb/size) 2=1581/0-3-8 (min. 0-2-1), 13=1444/Mechanical
Max Horz 2=232(LC 9)
Max Uplift 2=110(LC 10), 13=-37(LC 10)
Max Grav 2=1754(LC 2), 13=1641(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2698/167, 3-18=-2614/201, 3-4=-2453/166, 4-19=-2342/181, 5-19=-2324/187, 5-6=-1856/222, 6-7=-453/171, 7-8=-305/164, 8-9=-451/170, 9-10=-1854/229, 10-20=-2328/205, 11-20=-2342/189, 11-12=-2457/172, 12-21=-2608/231, 13-21=-2705/211
BOT CHORD 2-17=-98/2176, 16-17=0/1983, 15-16=0/1983, 14-15=0/1983, 13-14=-112/2186
WEBS 5-17=0/855, 6-9=-1744/127, 10-14=0/858, 3-17=-349/153, 12-14=-358/169

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-5-14, Interior(1) 1-5-14 to 15-6-0, Exterior(2) 15-6-0 to 19-6-0, Interior(1) 24-5-3 to 34-9-12 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Ceiling dead load (5.0 psf) on member(s), 5-6, 9-10, 6-9
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-17
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2 and 37 lb uplift at joint 13.
 - 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	T22	Attic	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:02 2013 Page 2
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NOTES

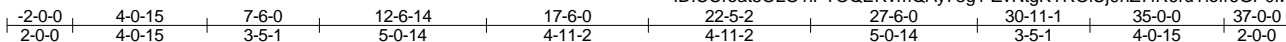
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T2GRD	Truss Type Hip Girder	Qty 2	Ply 2	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:04 2013 Page 1
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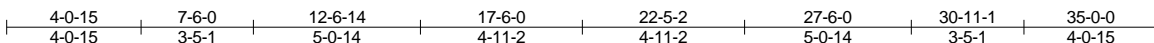
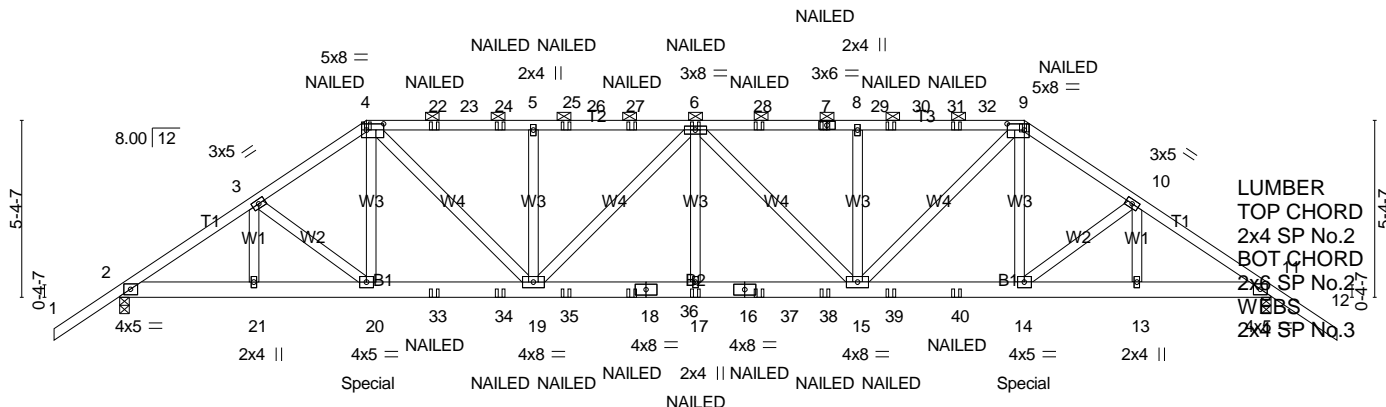


Plate Offsets (X,Y): [4:0-6-4,0-2-4], [9:0-6-4,0-2-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.15	TC 0.42	Vert(LL)	-0.14	17	>999	MT20	244/190
TCDL 10.0	Lumber Increase	1.15	BC 0.61	Vert(TL)	-0.36	15-17	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.40	Horz(TL)	0.10	11	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 477 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except 2-0-0 oc purlins (5-1-3 max.); 4-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS (lb/size) 2=3110/0-3-8 (min. 0-1-13), 11=3110/0-3-8 (min. 0-1-13)
Max Horz 2=-132(LC 6)
Max Uplift 2=-486(LC 8), 11=-486(LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4937/682, 3-4=-4836/753, 4-22=-5340/862, 22-23=-5340/862, 23-24=-5339/862, 24-25=-5339/861, 5-25=-5339/862, 5-26=-5340/862, 26-27=-5340/862, 6-27=-5340/862, 6-28=-5340/862, 7-28=-5340/862, 7-8=-5340/862, 8-29=-5339/862, 29-30=-5339/862, 30-31=-5340/862, 31-32=-5340/862, 9-32=-5340/862, 9-10=-4836/753, 10-11=-4937/682
BOT CHORD 2-21=-459/4014, 20-21=-459/4014, 20-33=-469/4006, 33-34=-469/4006, 19-34=-469/4006, 19-35=-730/5773, 35-36=-730/5773, 18-36=-730/5773, 17-18=-730/5773, 16-17=-730/5773, 16-37=-730/5773, 37-38=-730/5773, 15-38=-730/5773, 15-39=-451/4006, 39-40=-451/4006, 14-40=-451/4006, 13-14=-450/4015, 11-13=-450/4015
WEBS 4-20=-86/1021, 4-19=-296/1915, 5-19=-404/168, 6-19=-656/102, 6-17=0/540, 6-15=-656/101, 8-15=-404/168, 9-15=-296/1915, 9-14=-86/1021

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected 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 distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 486 lb uplift at joint 2 and 486 lb uplift at joint 11.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	T2GRD	Hip Girder	2	2	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:04 2013 Page 2
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NOTES

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 688 lb down and 104 lb up at 7-6-0, and 688 lb down and 104 lb up at 27-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 9-12=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-38(F) 7=-38(F) 9=-38(F) 20=-688(F) 17=-155(F) 6=-38(F) 14=-688(F) 22=-38(F) 24=-38(F) 26=-38(F) 27=-38(F) 28=-38(F) 30=-38(F) 32=-38(F) 33=-155(F) 34=-155(F) 35=-155(F) 36=-155(F) 37=-155(F) 38=-155(F) 39=-155(F) 40=-155(F)

Job PVCN1220-1	Truss T3	Truss Type Piggyback Base	Qty 1	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:04 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-ZvNtgKYROIUj9nZ7fR6ruYif0r3NP2jKooaRF5y4n6r

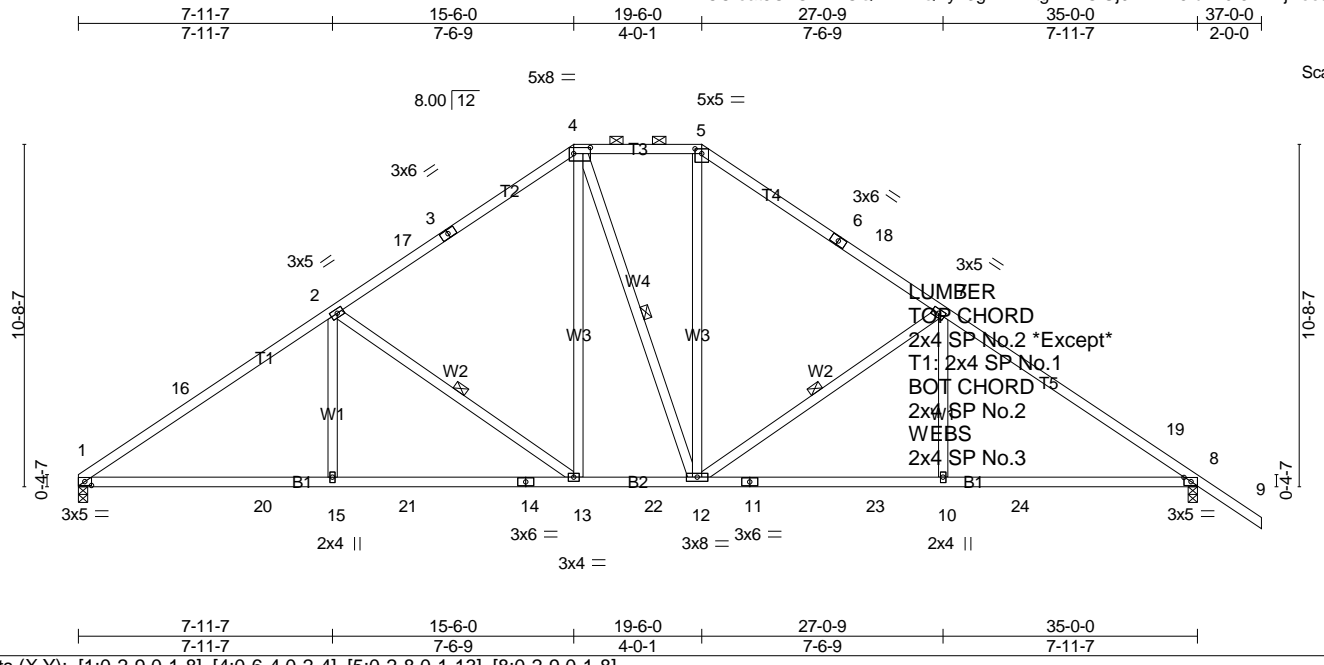


Plate Offsets (X,Y): [1:0-2-9,0-1-8], [4:0-6-4,0-2-4], [5:0-2-8,0-1-13], [8:0-2-9,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.80	Vert(LL) -0.11 1-15 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.31	Vert(TL) -0.33 1-15 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.12 8 n/a n/a		
	Code IRC2009/TPI2007			Weight: 206 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-3-5 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-13, 4-12, 7-12

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

REACTIONS (lb/size) 1=1384/0-3-8 (min. 0-1-10), 8=1521/0-3-8 (min. 0-1-13)
Max Horz 1=-234(LC 8)
Max Uplift 1=74(LC 10), 8=-147(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-2127/223, 2-16=-2050/254, 2-17=-1526/252, 3-17=-1414/271, 3-4=-1393/298,
4-5=-1161/299, 5-6=-1389/288, 6-18=-1417/259, 7-18=-1523/242, 7-19=-2033/242,
8-19=-2130/194
BOT CHORD 1-20=-69/1699, 15-20=-69/1699, 15-21=-69/1699, 14-21=-69/1699, 13-14=-69/1699,
13-22=0/1165, 12-22=0/1165, 11-12=-73/1677, 11-23=-73/1677, 10-23=-73/1677,
10-24=-73/1677, 8-24=-73/1677
WEBS 2-15=0/358, 2-13=-663/176, 4-13=-35/531, 5-12=-37/508, 7-12=-640/166, 7-10=0/352

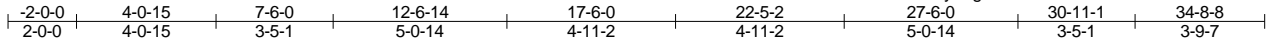
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-1-12 to 3-7-12, Interior(1) 3-7-12 to 15-6-0, Exterior(2) 15-6-0 to 19-6-0, Interior(1) 24-5-7 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 74 lb uplift at joint 1 and 147 lb uplift at joint 8.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T3GRD	Truss Type Hip Girder	Qty 1	Ply 2	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:06 2013 Page 1
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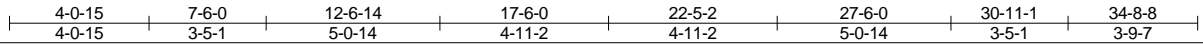
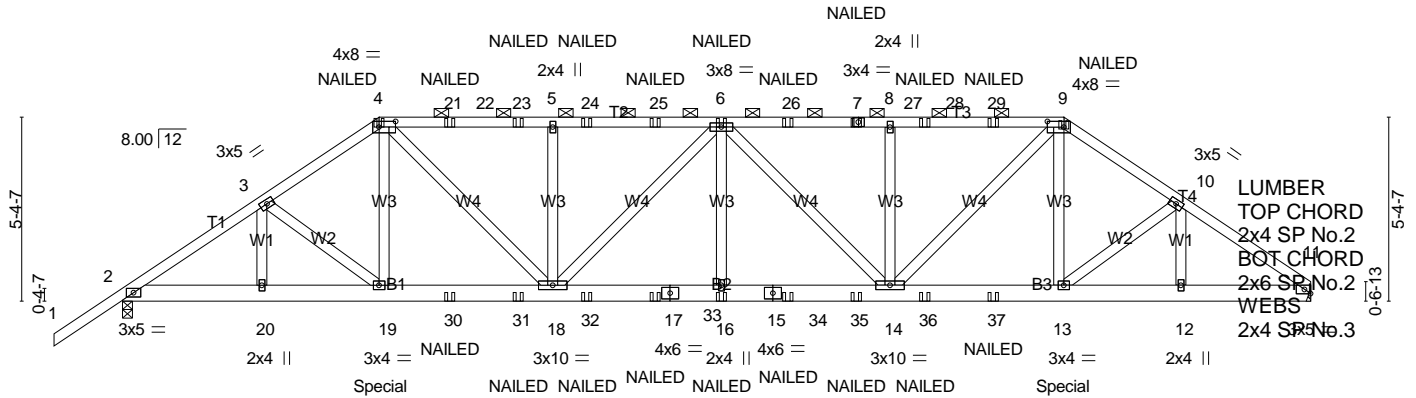


Plate Offsets (X,Y): [4:0-5-12,0-2-0], [9:0-5-12,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.15	TC 0.42	Vert(LL) -0.14	16	>999	MT20	244/190
TCDL 10.0	Lumber Increase	1.15	BC 0.61	Vert(TL) -0.35	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.40	Horz(TL) 0.10	11	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)					
							Weight: 467 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins, except 2-0-0 oc purlins (5-1-3 max.); 4-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS (lb/size) 11=3031/Mechanical, 2=3110/0-3-8 (min. 0-1-13)
Max Horz 2=123(LC 7)
Max Uplift 11=442(LC 8), 2=493(LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4937/693, 3-4=-4836/765, 4-21=-5340/879, 21-22=-5339/879, 22-23=-5339/879, 5-23=-5339/879, 5-24=-5339/879, 24-25=-5339/879, 6-25=-5339/879, 6-26=-5340/894, 7-26=-5340/894, 7-8=-5340/894, 8-27=-5339/893, 27-28=-5339/893, 28-29=-5340/893, 9-29=-5340/894, 9-10=-4836/798, 10-11=-4920/747
BOT CHORD 2-20=-519/4014, 19-20=-519/4014, 19-30=-524/4006, 30-31=-524/4006, 18-31=-524/4006, 18-32=-813/5772, 32-33=-813/5772, 17-33=-813/5772, 16-17=-813/5772, 15-16=-813/5772, 15-34=-813/5772, 34-35=-813/5772, 14-35=-813/5772, 14-36=-547/4004, 36-37=-547/4004, 13-37=-547/4004, 12-13=-559/3939, 11-12=-559/3939
WEBS 4-19=-86/1021, 4-18=-304/1915, 5-18=-404/168, 6-18=-656/108, 6-16=0/540, 6-14=-657/91, 8-14=-404/172, 9-14=-296/1918, 9-13=-120/1023

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected 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 distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 442 lb uplift at joint 11 and 493 lb uplift at joint 2.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	T3GRD	Hip Girder	1	2	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:07 2013 Page 2
ID:CCroat5OLO1IPTOQERvmQAY73g1-zU3?lMaJggsI0FHilafYWBKJs37zcN5mUmp5sQy4n6o

NOTES

- 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 688 lb down and 104 lb up at 7-6-0, and 753 lb down and 134 lb up at 27-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 9-11=-60, 2-11=-20

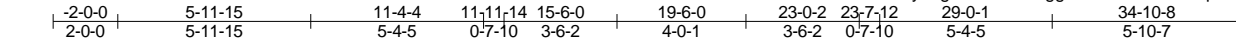
Concentrated Loads (lb)

Vert: 4=-38(B) 7=-38(B) 9=-38(B) 19=-688(B) 16=-155(B) 6=-38(B) 13=-753(B) 21=-38(B) 23=-38(B) 24=-38(B) 25=-38(B) 26=-38(B) 28=-38(B) 29=-38(B)
30=-155(B) 31=-155(B) 32=-155(B) 33=-155(B) 34=-155(B) 35=-155(B) 36=-155(B) 37=-155(B)

Job PVCN1220-1	Truss T4	Truss Type Attic	Qty 8	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

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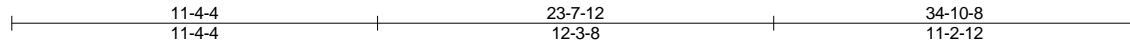
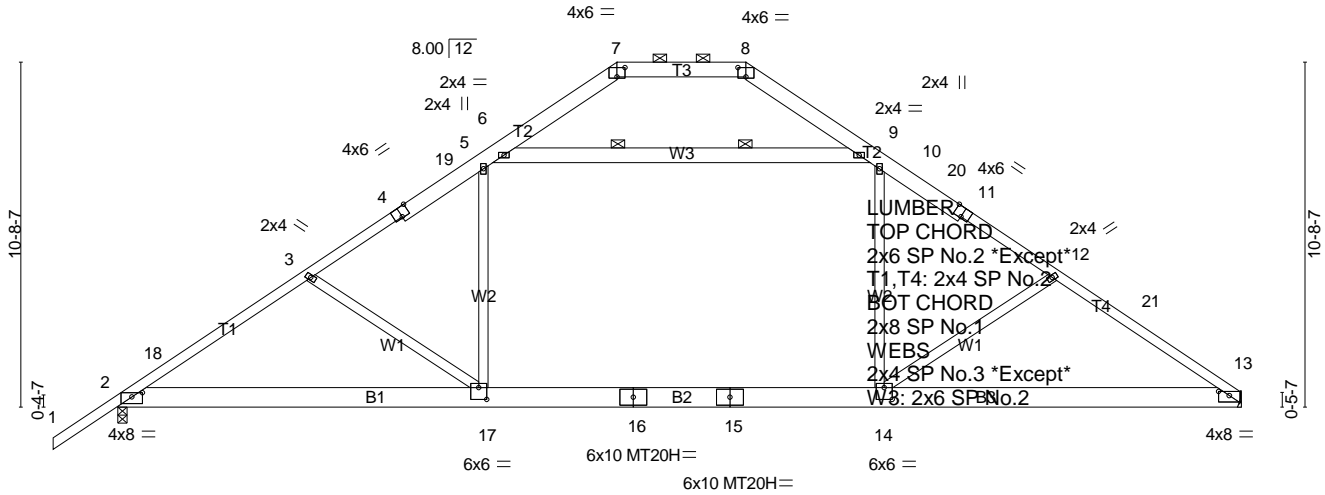


Plate Offsets (X,Y): [2:0-4-0,0-1-9], [4:0-3-0,Edge], [7:0-3-0,0-3-8], [8:0-3-0,0-3-8], [11:0-3-0,Edge], [13:0-4-0,0-1-9], [14:0-3-0,0-4-8], [17:0-3-0,0-4-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	Vert(LL)	-0.34	14-17	>999	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.85	Vert(TL)	-0.49	14-17	>855	MT20H	187/143
BCLL 0.0 *	Lumber Increase 1.15	WB 0.53	Horz(TL)	0.06	13	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Attic	-0.28	14-17	528		
	Code IRC2009/TPI2007							Weight: 257 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T1, T4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x6 SP No.2	WEBS 2 Rows at 1/3 pts 6-9

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

REACTIONS (lb/size) 2=1581/0-3-8 (min. 0-2-1), 13=1444/Mechanical
Max Horz 2=232(LC 9)
Max Uplift 2=110(LC 10), 13=-37(LC 10)
Max Grav 2=1754(LC 2), 13=1641(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2698/167, 3-18=-2614/201, 3-4=-2453/166, 4-19=-2342/181, 5-19=-2324/187,
5-6=-1856/222, 6-7=-453/171, 7-8=-305/164, 8-9=-451/170, 9-10=-1854/229,
10-20=-2328/205, 11-20=-2342/189, 11-12=-2457/172, 12-21=-2608/231,
13-21=-2705/211
BOT CHORD 2-17=-98/2176, 16-17=0/1983, 15-16=0/1983, 14-15=0/1983, 13-14=-112/2186
WEBS 5-17=0/855, 6-9=-1744/127, 10-14=0/858, 3-17=-349/153, 12-14=-358/169

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-5-14, Interior(1) 1-5-14 to 15-6-0, Exterior(2) 15-6-0 to 19-6-0, Interior(1) 24-5-3 to 34-9-12 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Ceiling dead load (5.0 psf) on member(s), 5-6, 9-10, 6-9
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-17
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2 and 37 lb uplift at joint 13.
 - 12) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	T4	Attic	8	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

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NOTES

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T5	Truss Type Hip	Qty 2	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:08 2013 Page 1
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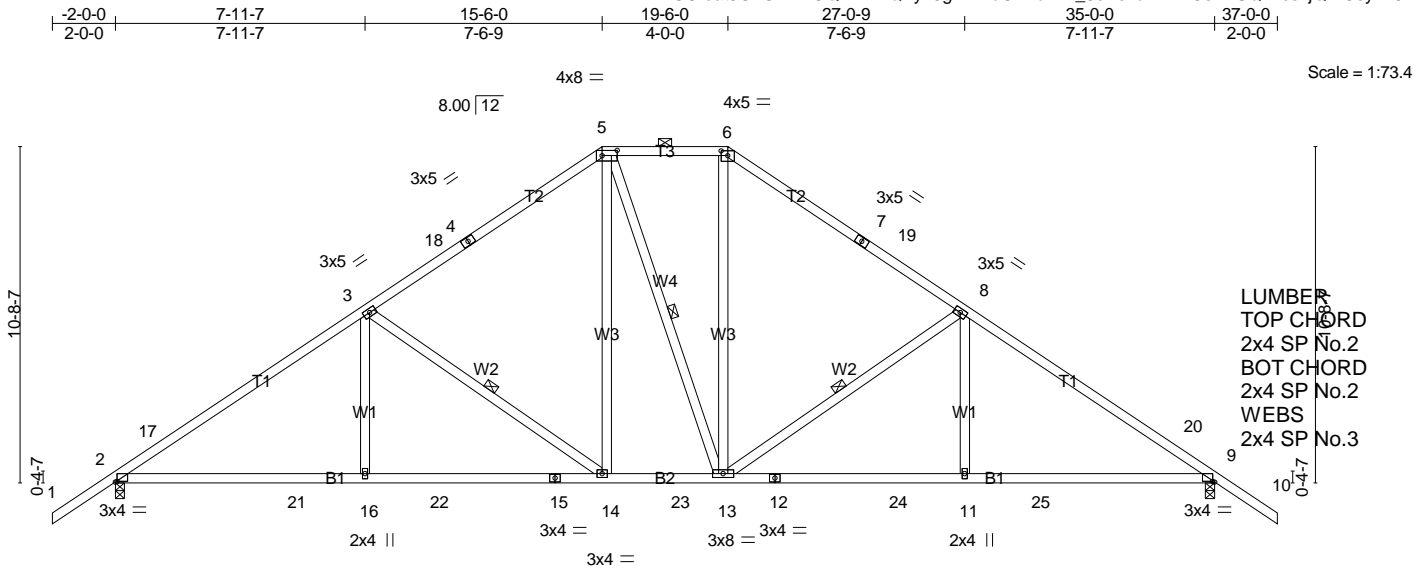


Plate Offsets (X,Y): [2:0-0-11,0-0-4], [5:0-5-12,0-2-0], [6:0-2-8,0-1-13], [9:0-0-11,0-0-4]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.77	Vert(LL) -0.11 2-16 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.30	Vert(TL) -0.32 2-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.11 9 n/a n/a		
	Code IRC2009/TPI2007			Weight: 209 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-3-8 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-14, 5-13, 8-13
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1517/0-3-8 (min. 0-1-13), 9=1517/0-3-8 (min. 0-1-13)
Max Horz 2=-242(LC 8)
Max Uplift 2=-143(LC 10), 9=-143(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2130/185, 3-17=-2032/232, 3-18=-1515/238, 4-18=-1415/255, 4-5=-1386/283,
5-6=-1155/291, 6-7=-1382/283, 7-19=-1411/255, 8-19=-1516/238, 8-20=-2027/232,
9-20=-2124/185
BOT CHORD 2-21=-40/1676, 16-21=-40/1676, 16-22=-40/1676, 15-22=-40/1676, 14-15=-40/1676,
14-23=0/1159, 13-23=0/1159, 12-13=-65/1672, 12-24=-65/1672, 11-24=-65/1672,
11-25=-65/1672, 9-25=-65/1672
WEBS 3-16=0/354, 3-14=-641/166, 5-14=-29/520, 6-13=-37/506, 8-13=-640/166, 8-11=0/352

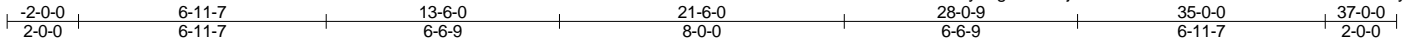
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-6-0, Interior(1) 1-6-0 to 15-6-0, Exterior(2) 15-6-0 to 19-6-0, Interior(1) 24-5-6 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 143 lb uplift at joint 2 and 143 lb uplift at joint 9.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

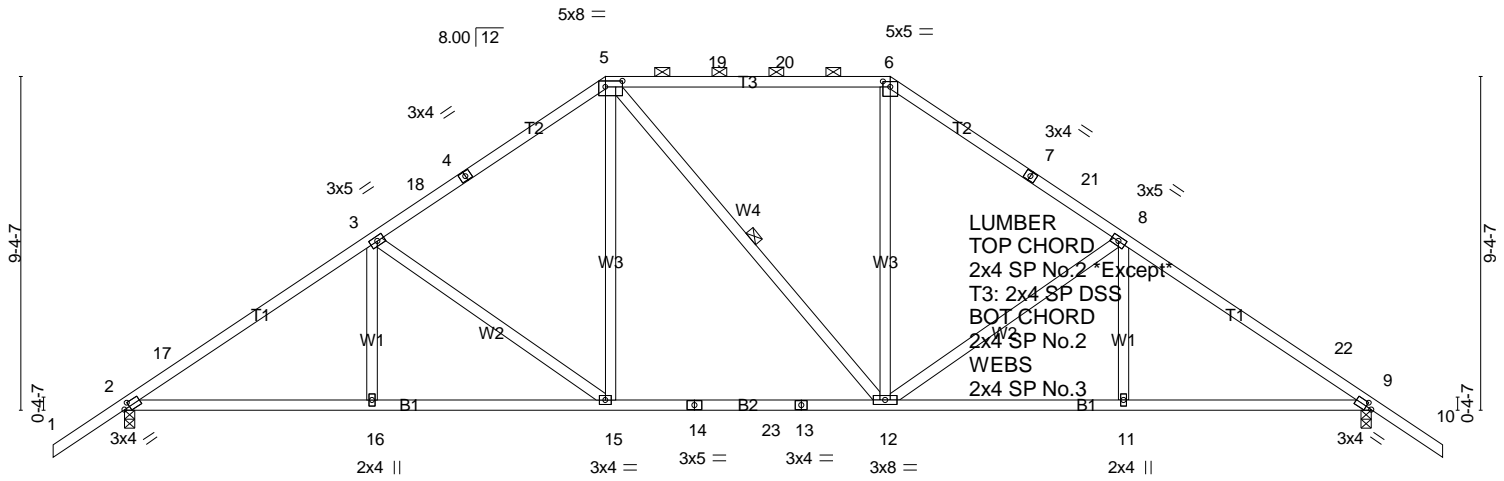
Job PVCN1220-1	Truss T6	Truss Type Hip	Qty 2	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

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LUMBER
TOP CHORD
 2x4 SP No.2 *Except
 T3: 2x4 SP DSS
BOT CHORD
 2x4 SP No.2
WEBS
 2x4 SP No.3

Plate Offsets (X,Y): [2:0-2-0,0-1-8], [5:0-5-12,0-2-0], [6:0-2-8,0-1-13], [9:0-2-0,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.70	Vert(LL) -0.17 12-15 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.62	Vert(TL) -0.38 12-15 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.11 9 n/a n/a		
	Code IRC2009/TPI2007				Weight: 200 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except 2-0-0 oc purlins (4-10-10 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12

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

REACTIONS (lb/size) 2=1517/0-3-8 (min. 0-1-13), 9=1517/0-3-8 (min. 0-1-13)
 Max Horz 2=-214(LC 8)
 Max Uplift 2=-143(LC 10), 9=-143(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2124/206, 3-17=-2017/248, 3-18=-1638/246, 4-18=-1551/259, 4-5=-1523/285, 5-19=-1272/292, 19-20=-1272/292, 6-20=-1272/292, 6-7=-1523/285, 7-21=-1551/259, 8-21=-1638/246, 8-22=-2017/248, 9-22=-2124/206
BOT CHORD 2-16=-63/1661, 15-16=-63/1661, 14-15=0/1272, 14-23=0/1272, 13-23=0/1272, 12-13=0/1272, 11-12=-88/1661, 9-11=-88/1661
WEBS 3-16=0/286, 3-15=-486/144, 5-15=0/501, 6-12=0/501, 8-12=-485/144, 8-11=0/285

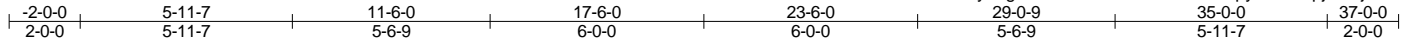
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-6-0, Interior(1) 1-6-0 to 13-6-0, Exterior(2) 13-6-0 to 26-5-6, Interior(1) 26-5-6 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2 and 143 lb uplift at joint 9.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T7	Truss Type Hip	Qty 2	Ply 1	Shane Holland
Job Reference (optional)					

Peak Truss Builders, Holly Springs, NC

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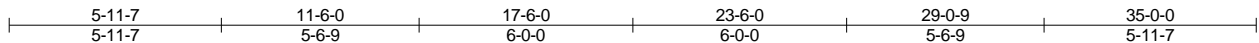
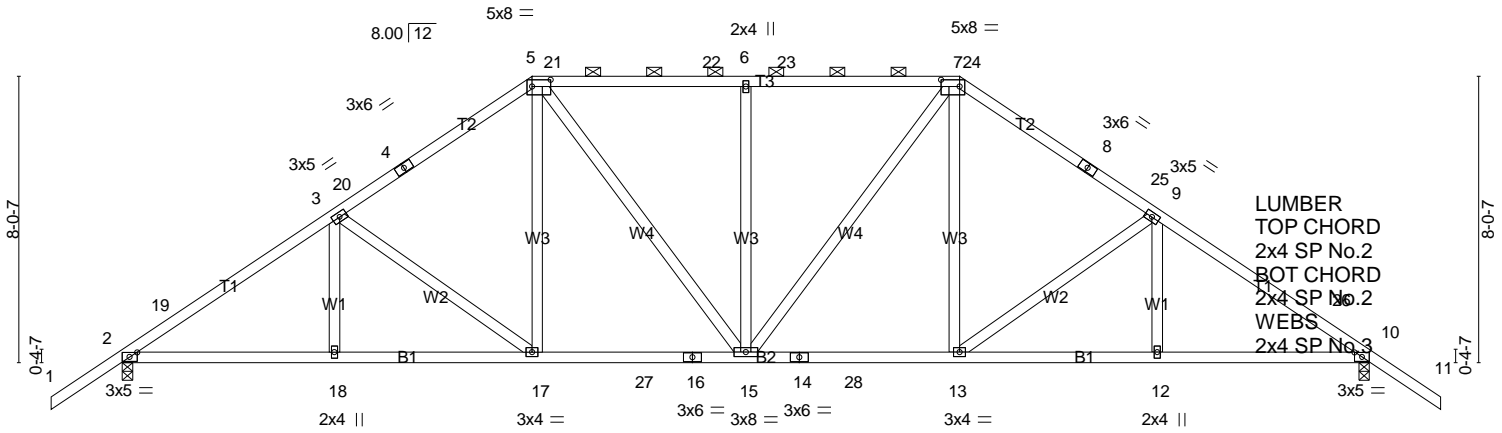


Plate Offsets (X,Y): [2:0-2-9,0-1-8], [5:0-6-4,0-2-4], [7:0-6-4,0-2-4], [10:0-2-9,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.53	Vert(LL) -0.10 15-17 >999 240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.47	Vert(TL) -0.25 15-17 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.11 10 n/a n/a		
	Code IRC2009/TPI2007			Weight: 211 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except
2-0-0 oc purlins (4-2-6 max.): 5-7.
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 (lb/size) 2=1517/0-3-8 (min. 0-1-13), 10=1517/0-3-8 (min. 0-1-13)
Max Horz 2=-187(LC 8)
Max Uplift 2=-143(LC 10), 10=-143(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-2151/220, 3-19=-2057/255, 3-20=-1746/256, 4-20=-1726/265, 4-5=-1646/289,
5-21=-1573/310, 21-22=-1573/310, 6-22=-1572/310, 6-23=-1572/310, 23-24=-1573/310,
7-24=-1573/310, 7-8=-1646/289, 8-25=-1726/265, 9-25=-1746/256, 9-26=-2057/255,
10-26=-2151/220
BOT CHORD 2-18=-81/1691, 17-18=-81/1691, 17-27=0/1374, 16-27=0/1374, 15-16=0/1374,
14-15=-3/1374, 14-28=-3/1374, 13-28=-3/1374, 12-13=-106/1691, 10-12=-106/1691
WEBS 3-17=-400/126, 5-17=-5/404, 5-15=-58/423, 6-15=-403/149, 7-15=-58/423, 7-13=-5/404,
9-13=-400/126

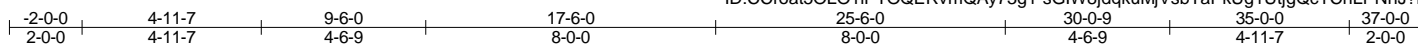
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-6-0, Interior(1) 1-6-0 to 11-6-0, Exterior(2) 11-6-0 to 28-5-6, Interior(1) 28-5-6 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2 and 143 lb uplift at joint 10.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T8	Truss Type Hip	Qty 2	Ply 1	Shane Holland
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:11 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-sGIW8jdqkuMjVsbTaPkUg1UjgQcYCnLPNnJ?By4n6k



Scale: 3/16"=1'

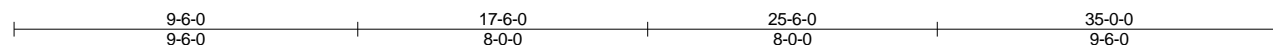
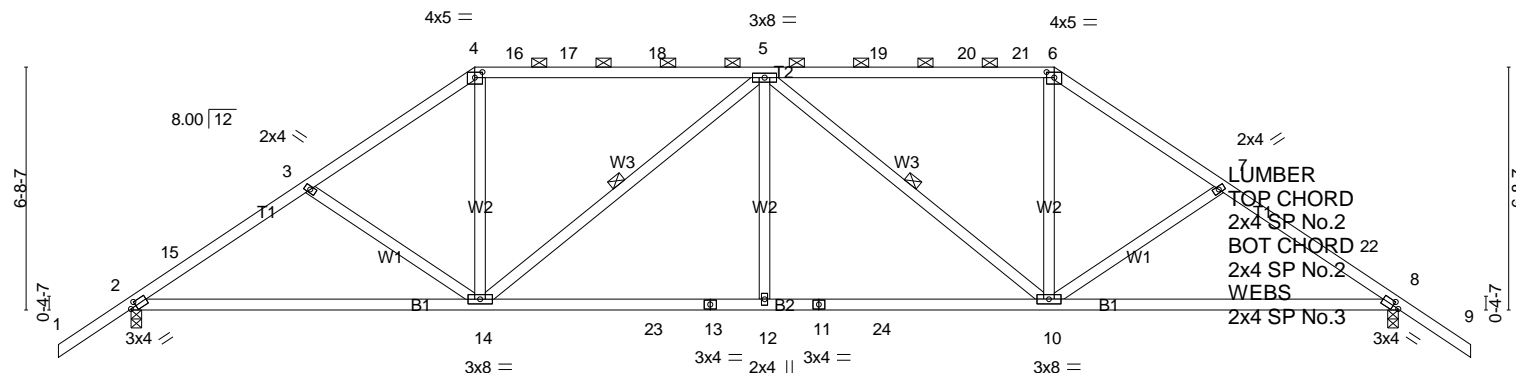


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [4:0-2-8,0-1-13], [6:0-2-8,0-1-13], [8:0-2-0,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15		TC 0.94	Vert(LL) -0.22 2-14 >999 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15		BC 0.95	Vert(TL) -0.59 2-14 >700 180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.35	Horz(TL) 0.13 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)			Weight: 190 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-14, 5-10

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

REACTIONS (lb/size) 2=1517/0-3-8 (min. 0-1-13), 8=1517/0-3-8 (min. 0-1-13)
Max Horz 2=159(LC 9)
Max Uplift 2=143(LC 10), 8=143(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-2116/266, 3-15=-2039/295, 3-4=-1879/274, 4-16=-1514/270, 16-17=-1513/270, 17-18=-1513/270, 5-18=-1513/270, 5-19=-1513/270, 19-20=-1513/270, 20-21=-1513/270, 6-21=-1514/270, 6-7=-1879/274, 7-22=-2039/295, 8-22=-2116/266
BOT CHORD 2-14=-120/1672, 14-23=-96/1936, 13-23=-96/1936, 12-13=-96/1936, 11-12=-96/1936, 11-24=-96/1936, 10-24=-96/1936, 8-10=-146/1672
WEBS 4-14=-19/680, 5-14=-661/104, 5-12=0/363, 5-10=-661/104, 6-10=-19/680

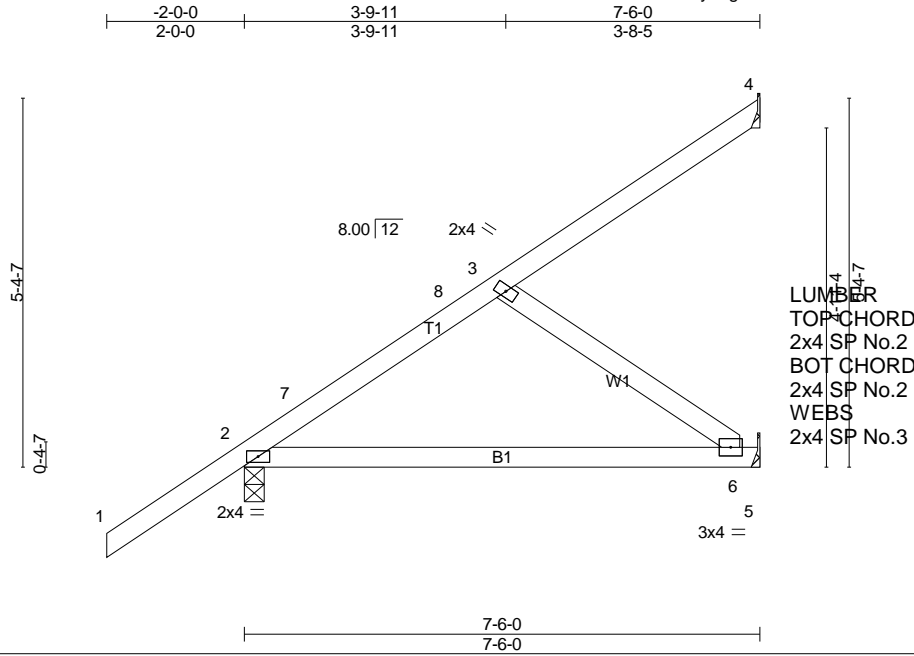
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-6-0, Interior(1) 1-6-0 to 9-6-0, Exterior(2) 9-6-0 to 30-2-2, Interior(1) 30-2-2 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 143 lb uplift at joint 2 and 143 lb uplift at joint 8.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss T9	Truss Type Jack-Partial	Qty 33	Ply 1	Shane Holland Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:12 2013 Page 1
ID:CCroat5OLO1IPTOQERvmQAY73g1-KSsuM3eSVCUa60Ag77FjDE1Bv4pTHjPVd1WsXdy4n6j



Scale = 1:33.5

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.33	Vert(LL) -0.17 2-6 >517 240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.72	Vert(TL) -0.43 2-6 >202 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 35 lb	FT = 20%

LUMBER

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

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

REACTIONS (lb/size) 4=98/Mechanical, 2=439/0-3-8 (min. 0-1-8), 5=175/Mechanical
Max Horz 2=198(LC 10)
Max Uplift 4=-48(LC 10), 2=-48(LC 10), 5=-3(LC 10)
Max Grav 4=98(LC 1), 2=439(LC 1), 5=177(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-257/0

NOTES

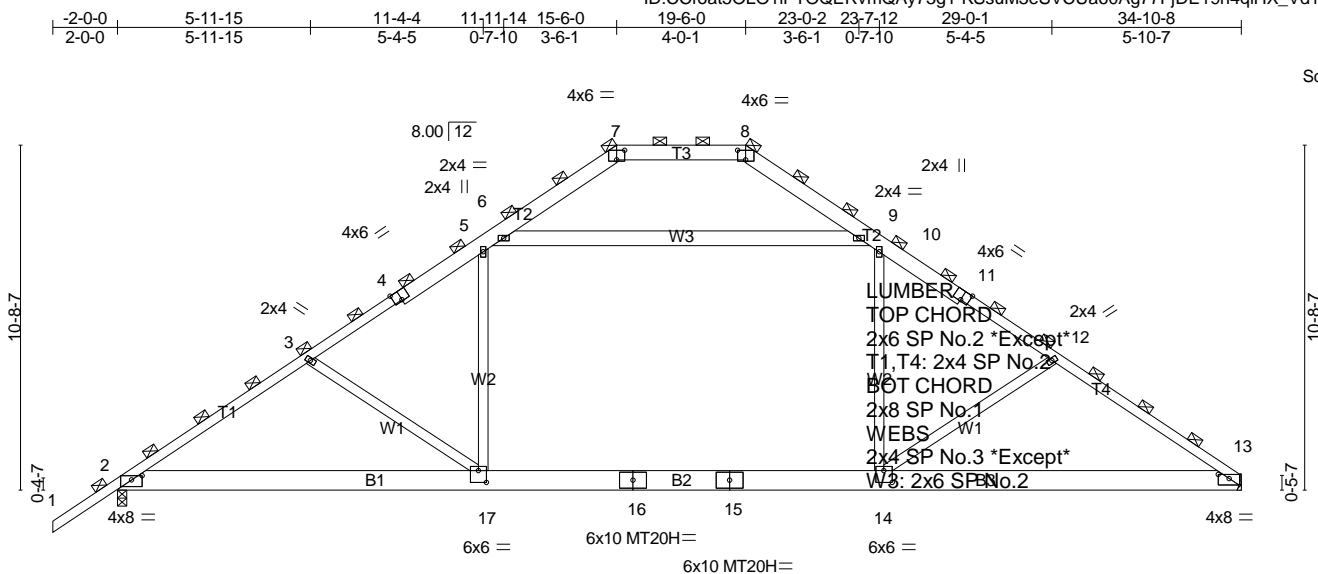
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 7-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4, 48 lb uplift at joint 2 and 3 lb uplift at joint 5.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss TG1	Truss Type ATTIC	Qty 1	Ply 2	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:12 2013 Page 1
 ID:CCroat5OLO1IPTOQERvmQAY73g1-KSsuM3eSVCUa60Ag77FjDE19n4qlHX_Vd1WsXdy4n6j



Scale = 1:71.5

Plate Offsets (X,Y):	[2:0-4-0,0-1-9], [3:0-0-0,0-0-0], [4:0-3-0,Edge], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-3-0,0-3-8], [8:0-3-0,0-3-8], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-3-0,Edge], [12:0-0-0,0-0-0], [13:0-4-0,0-1-9], [14:0-3-0,0-4-8], [17:0-3-0,0-4-8]
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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.47	Vert(LL)	-0.26	14-17	>999	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.70	Vert(TL)	-0.36	14-17	>999	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.87	Horz(TL)	0.05	13	n/a		n/a
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)	Attic	-0.21	14-17	705		360
							Weight: 513 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2 *Except* T1,T4: 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (5-10-2 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3: 2x6 SP No.2	

REACTIONS (lb/size) 2=2371/0-3-8 (min. 0-1-9), 13=2166/Mechanical
 Max Horz 2=348(LC 7)
 Max Uplift 2=-165(LC 8), 13=-55(LC 8)
 Max Grav 2=2630(LC 2), 13=2461(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4048/148, 3-4=-3681/99, 4-5=-3514/127, 5-6=-2784/192, 6-7=-678/169,
 7-8=-457/169, 8-9=-676/166, 9-10=-2782/189, 10-11=-3514/133, 11-12=-3686/85,
 12-13=-4059/164
 BOT CHORD 2-17=-13/3266, 16-17=0/2976, 15-16=0/2976, 14-15=0/2976, 13-14=-36/3280
 WEBS 5-17=0/1283, 6-9=-2617/112, 10-14=0/1288, 3-17=-524/202, 12-14=-538/230

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-9
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-17
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 55 lb uplift at joint 13.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	TG1	ATTIC	1	2	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:13 2013 Page 2
ID:CCroat5OLO1IPTOQERvmQAY73g1-oeQGZPf4GWcRkAlshqmylSakXTA_0_EeshGQ33y4n6i

NOTES

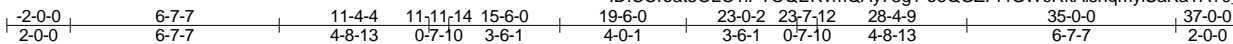
- 14) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job PVCN1220-1	Truss TG2	Truss Type Attic Girder	Qty 1	Ply 2	Shane Holland
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Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:13 2013 Page 1
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Scale = 1:72.9

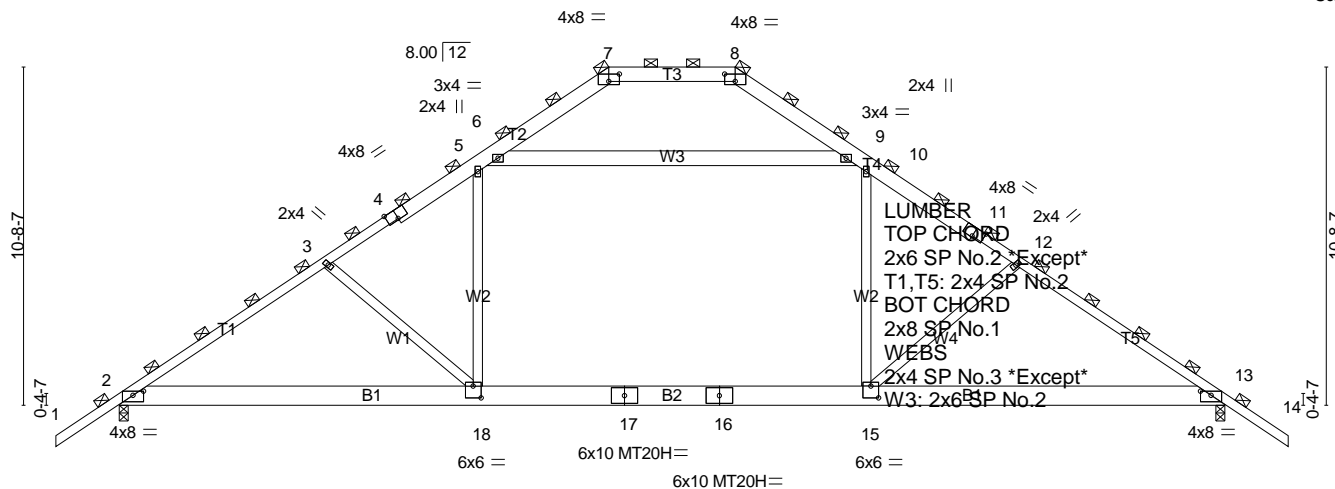


Plate Offsets (X,Y): [2:0-4-0,0-1-9], [3:0-0-0,0-0-0], [4:0-4-0,Edge], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-4-0,0-2-14], [8:0-4-0,0-2-14], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-4-0,Edge], [12:0-0-0,0-0-0], [13:0-4-0,0-1-9], [15:0-3-0,0-4-8], [18:0-3-0,0-4-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.47	Vert(LL) -0.26	15-18	>999	240	MT20	244/190
TCDL 10.0	Lumber Increase 1.15	BC 0.70	Vert(TL) -0.36	15-18	>999	180	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.85	Horz(TL) 0.05	13	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)	Attic -0.21	15-18	706	360		Weight: 522 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except*
T1,T5: 2x4 SP No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.3 *Except*
W3: 2x6 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (5-11-9 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=2368/0-3-8 (min. 0-1-9), 13=2368/0-3-8 (min. 0-1-9)
Max Horz 2=361(LC 7)
Max Uplift 2=-160(LC 8), 13=-160(LC 8)
Max Grav 2=2628(LC 2), 13=2628(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4019/128, 3-4=-3662/79, 4-5=-3501/121, 5-6=-2773/177, 6-7=-701/181,
7-8=-485/185, 8-9=-701/180, 9-10=-2774/177, 10-11=-3516/121, 11-12=-3662/79,
12-13=-4017/128
BOT CHORD 2-18=0/3228, 17-18=0/2965, 16-17=0/2965, 15-16=0/2965, 13-15=0/3227
WEBS 5-18=0/1297, 6-9=-2584/80, 10-15=0/1295, 3-18=-516/204, 12-15=-517/204

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-9
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2 and 160 lb uplift at joint 13.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Shane Holland
PVCN1220-1	TG2	Attic Girder	1	2	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.430 s Jul 25 2013 Print: 7.430 s Jul 25 2013 MiTek Industries, Inc. Fri Dec 27 12:35:13 2013 Page 2
ID:CCroat5OLO1IPTOQERvmQAY73g1-oeQGZPf4GWcRkAlshqmyISaKaTA?0_VeshGQ33y4n6i

NOTES

- 14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard