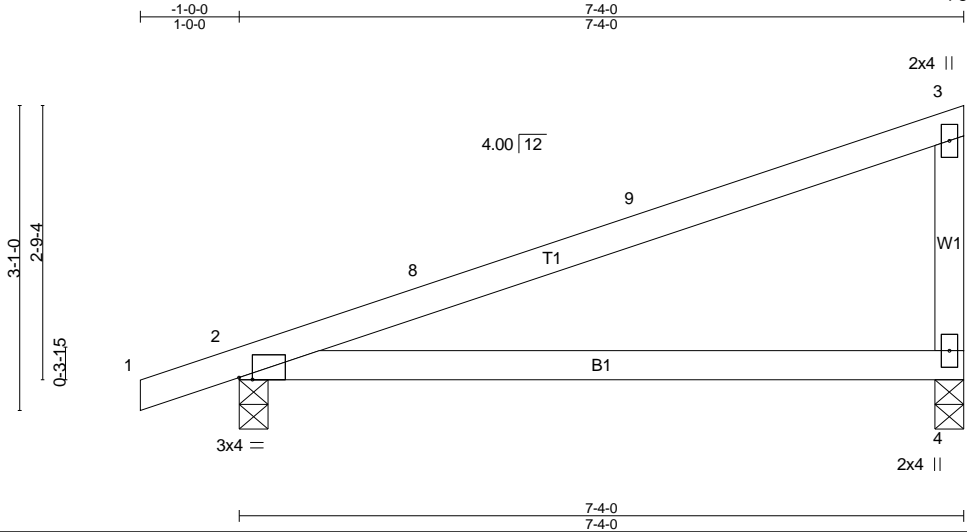


Job PEAS0311-1	Truss T10	Truss Type Monopitch	Qty 9	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:02 2016 Page 1  
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Scale = 1:23.3

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

Plate Offsets (X,Y)-- [2:0-1-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	Vert(LL)	-0.06	4-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(TL)	-0.17	4-7	>515		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL)	0.01	2	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)						
	Code IBC2009/TPI2007						Weight: 27 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-7-6 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) 4=229/0-3-8 (min. 0-1-8), 2=406/0-3-8 (min. 0-1-8)  
Max Horz 2=88(LC 9)  
Max Uplift 4=-12(LC 10), 2=-50(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-1131/235  
BOT CHORD 2-4=-380/1293

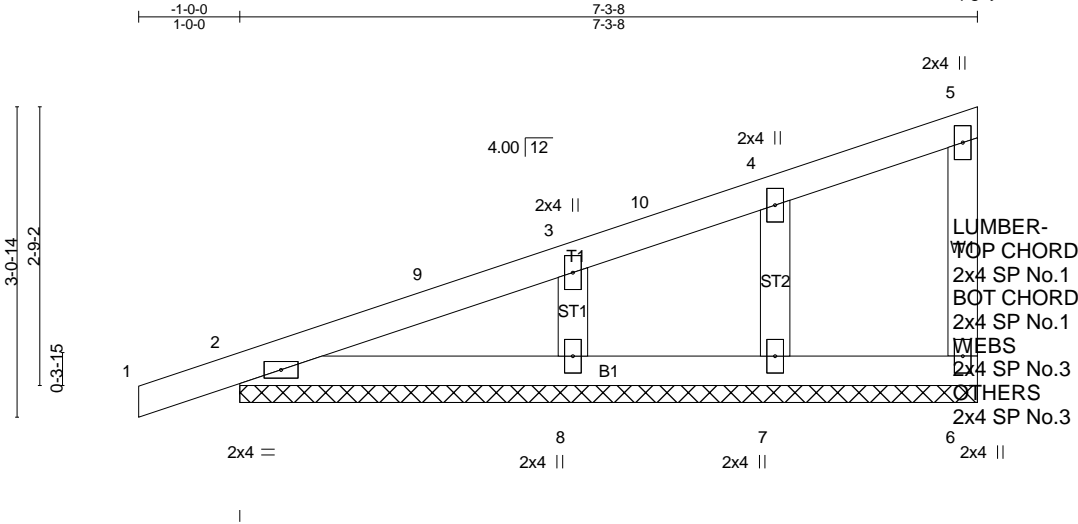
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 50 lb uplift at joint 2.
  - 6) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T9	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-Ka6hXkOMI7it94\_9TsXmaHMYL9ZYcjdzc\_1Ylzc2kE



Scale = 1:22.8

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) 0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(TL) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00 6 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)		Weight: 31 lb	FT = 20%

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

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

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

**REACTIONS.** All bearings 7-3-8.  
(lb) - Max Horz 2=88(LC 7)  
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8  
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

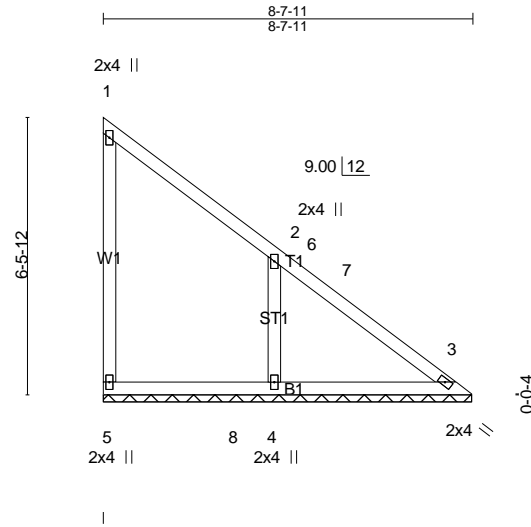
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 7-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) 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) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.
  - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss V4	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:03 2016 Page 1  
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Scale = 1:53.8

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

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)		Weight: 41 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 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) 5=112/8-7-5 (min. 0-1-8), 3=129/8-7-5 (min. 0-1-8), 4=403/8-7-5 (min. 0-1-8)  
Max Horz 5=-208(LC 6)  
Max Uplift 5=-44(LC 8), 4=-103(LC 10)  
Max Grav 5=147(LC 2), 3=129(LC 1), 4=403(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-6=-296/109, 6-7=-299/106, 3-7=-323/91  
BOT CHORD 5-8=-85/291, 4-8=-85/291, 3-4=-85/291  
WEBS 2-4=-302/230

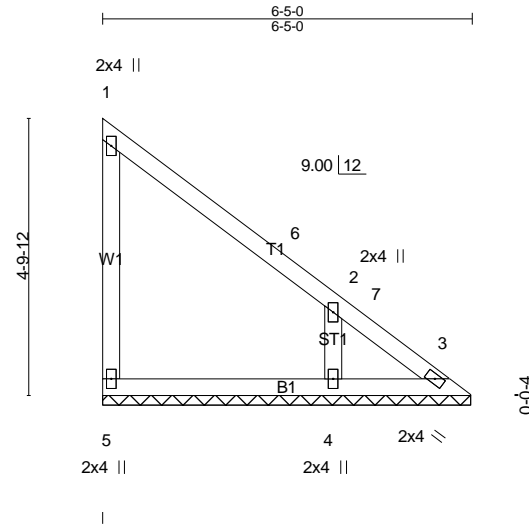
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 8-2-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members 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) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (it=lb) 4=103.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss V5	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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Scale = 1:40.0

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

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	<b>CSI.</b> TC 0.32 BC 0.09 WB 0.06 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 29 lb FT = 20%
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**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 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) 5=125/6-4-11 (min. 0-1-8), 3=23/6-4-11 (min. 0-1-8), 4=318/6-4-11 (min. 0-1-8)  
Max Horz 5=-151(LC 6)  
Max Uplift 5=-35(LC 6), 3=-35(LC 9), 4=-81(LC 10)  
Max Grav 5=125(LC 1), 3=87(LC 6), 4=318(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-7=-266/87, 3-7=-278/84

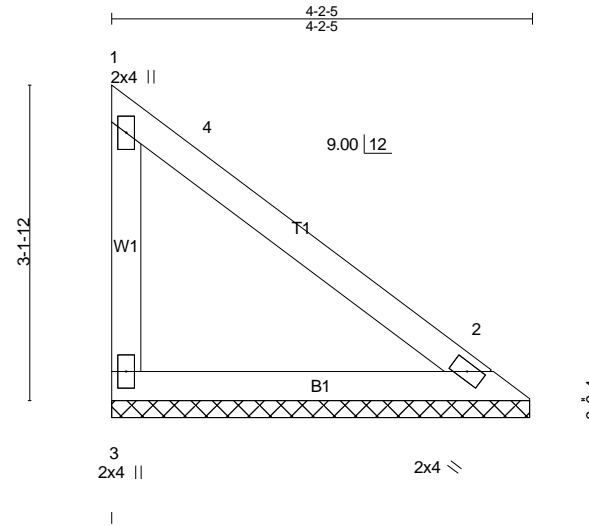
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 5-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss V6	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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Scale = 1:23.0

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

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 2 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)		Weight: 17 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-2-5 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) 3=144/4-2-0 (min. 0-1-8), 2=144/4-2-0 (min. 0-1-8)  
Max Horz 3=-93(LC 6)  
Max Uplift 3=-28(LC 6), 2=-2(LC 10)

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

**NOTES-**

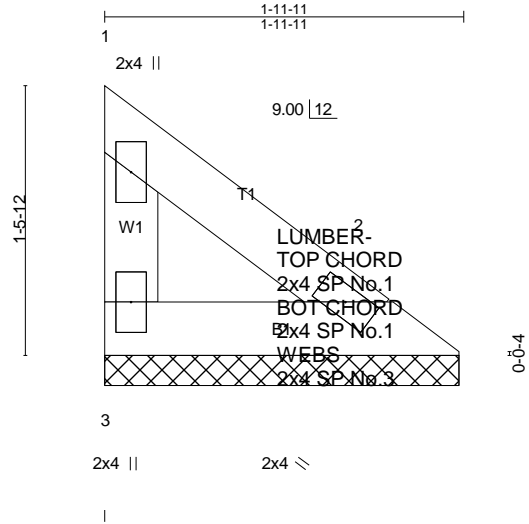
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss V7	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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Scale = 1:12.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL)	0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)					Weight: 7 lb	FT = 20%
	Code IBC2009/TPI2007							

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-11-11 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) 3=56/1-11-5 (min. 0-1-8), 2=56/1-11-5 (min. 0-1-8)  
Max Horz 3=-36(LC 6)  
Max Uplift 3=-11(LC 6), 2=-1(LC 10)

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

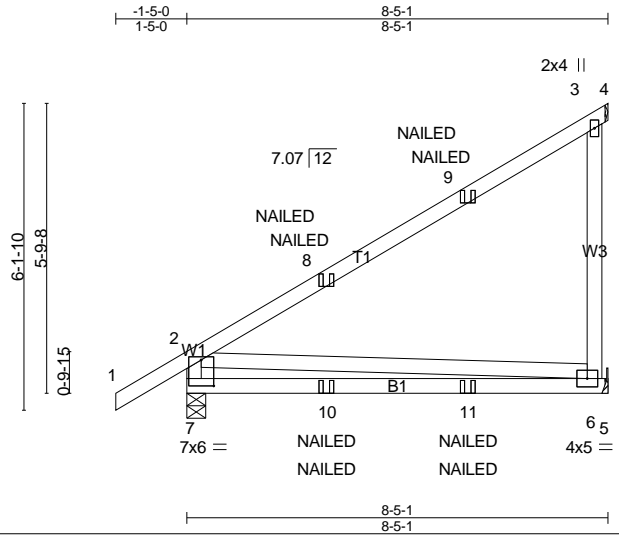
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss H1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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ID:ADPGGTeeQQxSZmmNZYQrpgdyaQar-k8opAmQE224R0Xjk9\_4TCv\_yOMPqlyg3gaCh8dzc2kB



Scale = 1:46.1

Plate Offsets (X,Y)-- [7:0-3-0,0-6-4]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.20 6-7 >486 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(TL) -0.50 6-7 >191 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.10	Horz(TL) -0.00 6 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)			
				Weight: 49 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP No.1  
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=360/0-4-9 (min. 0-1-8), 6=322/Mechanical  
Max Horz 7=198(LC 5)  
Max Uplift 7=-112(LC 8), 6=-132(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-7=-289/139

**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 100 lb uplift at joint(s) except (jt=lb) 7=112, 6=132.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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: 1-2=-60, 2-3=-60, 3-4=-20, 5-7=-20

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	H1	Diagonal Hip Girder	2	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:06 2016 Page 2  
 ID:ADPGGTQQxSZmmNZYQrpgdyaQar-k8opAmQE224R0Xjk9\_4TCv\_yOMPqlyg3gaCh8dzc2kB

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

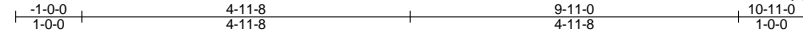
Vert: 8=95(F=47, B=47) 9=-30(F=-15, B=-15) 10=28(F=14, B=14) 11=-30(F=-15, B=-15)



Job PEAS0311-1	Truss T13	Truss Type Common	Qty 2	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:06 2016 Page 1  
ID:ADPGGTQQxSZmmNZYQrpgdyaQar-k8opAmQE224R0Xjk9\_4TCv\_1WMMblyx3gaCh8dzc2kB



Scale = 1:34.8

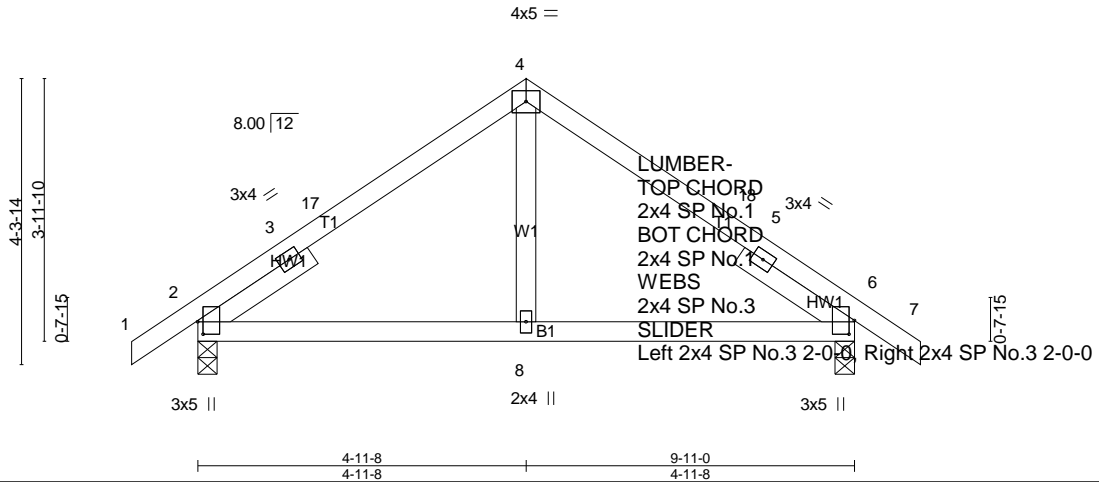


Plate Offsets (X,Y)-- [2:0-2-4,0-1-0], [6:0-2-8,0-1-0]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.02 8-15 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(TL) -0.03 8-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL) 0.01 2 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)		Weight: 48 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 2-0-0, Right 2x4 SP No.3 2-0-0

**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) 2=457/0-3-8 (min. 0-1-8), 6=457/0-3-8 (min. 0-1-8)  
Max Horz 2=78(LC 9)  
Max Uplift 2=-53(LC 10), 6=-53(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-17=-387/75, 4-17=-361/95, 4-18=-361/95, 5-18=-389/75  
BOT CHORD 2-8=0/300, 6-8=0/300

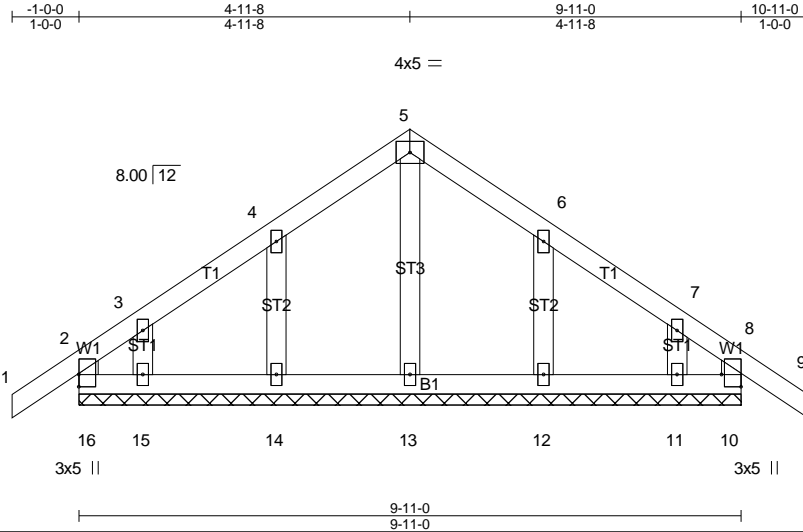
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-11-8, Exterior(2) 4-11-8 to 7-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:07 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-CLLCN6RtpMClDhIxihbik7XDjmv8UPwDuEyEh3zc2kA



Scale = 1:34.5

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

Plate Offsets (X,Y)-- [10:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	-0.00	9	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(TL)	-0.01	9	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(TL)	0.00	10	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)						
	Code IBC2009/TPI2007						Weight: 51 lb	FT = 20%

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

**BRACING-**  
TOP CHORD  
BOT CHORD

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

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

**REACTIONS.** All bearings 9-11-0.  
(lb) - Max Horz 16=-92(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11  
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

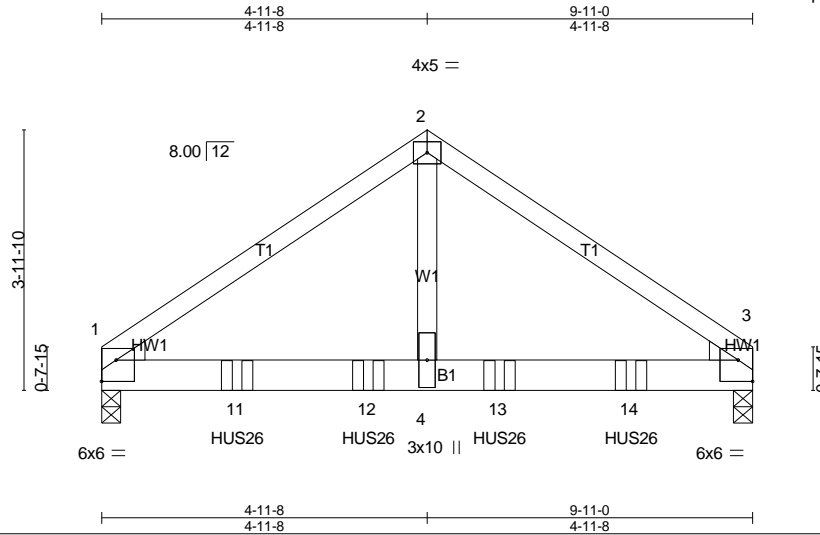
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 4-11-8, Corner(3) 4-11-8 to 7-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* 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.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
  - 12) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

Job PEAS0311-1	Truss T1GRD	Truss Type Common Girder	Qty 1	Ply 2	Sample Roof Layout
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:08 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-gXvaaRSVafK9Frs7GP6xHK3MIA0PDiMM7thoDVzc2k9



Scale = 1:35.1

**LUMBER-**  
**TOP CHORD**  
 2x4 SP No.1  
**BOT CHORD**  
 2x6 SP No.2  
**WEBS**  
 2x4 SP No.3  
**WEDGE**  
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

Plate Offsets (X,Y)-- [1:Edge,0-3-14], [3:Edge,0-3-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.03	4-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(TL)	-0.08	4-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(TL)	0.01	1	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)							
								Weight: 95 lb	FT = 20%	

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3, Right: 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.

**REACTIONS.** (lb/size) 1=2701/0-3-8 (min. 0-1-9), 3=2799/0-3-8 (min. 0-1-10)  
 Max Horz 1=-65(LC 19)  
 Max Uplift 1=-176(LC 8), 3=-182(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-3225/244, 2-3=-3222/244  
 BOT CHORD 1-11=-138/2653, 11-12=-138/2653, 4-12=-138/2653, 4-13=-138/2653, 13-14=-138/2653, 3-14=-138/2653  
 WEBS 2-4=-184/3199

- 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; 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
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 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 100 lb uplift at joint(s) except (jt=lb) 1=176, 3=182.
  - This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T1GRD	Common Girder	1	2	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:08 2016 Page 2  
ID:ADPGGTQQxSZmmNZYQrpgdyaQar-gXvaaRSVafK9Frs7GP6xHK3MIA0PDIMM7thoDVzc2k9

**NOTES-**

- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Use USP HUS26 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 8-0-12 to connect truss(es) T3 (1 ply 2x4 SP) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

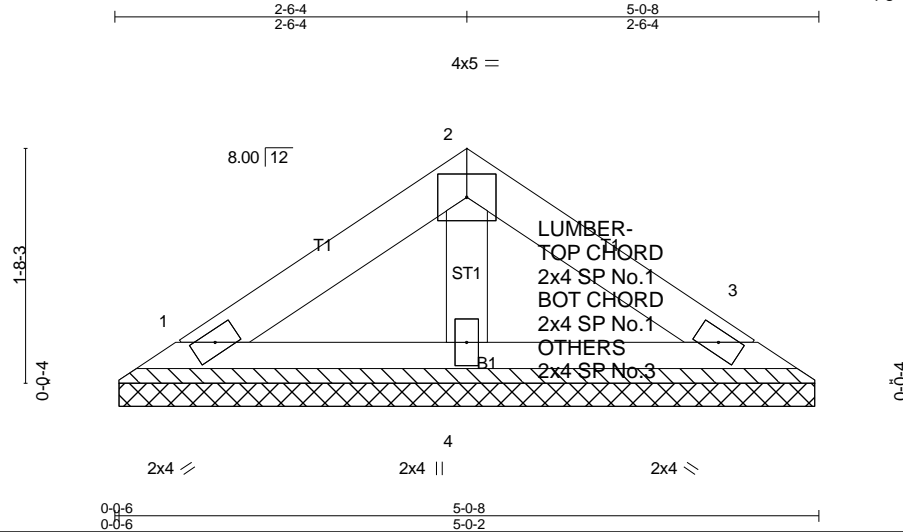
**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-2=-60, 2-3=-60, 5-8=-20
  - Concentrated Loads (lb)
    - Vert: 11=-1177(F) 12=-1177(F) 13=-1177(F) 14=-1177(F)

Job PEAS0311-1	Truss V8	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:09 2016 Page 1  
ID:ADPGGTeQXqSZmmNZYQrpgdyaQar-9jTyonS7LzS0t?RjQ6eApYcajZbRyJfWMXRLLxzc2k8



Scale = 1:16.5

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)		Weight: 16 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-8 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=89/4-11-12 (min. 0-1-8), 3=89/4-11-12 (min. 0-1-8), 4=148/4-11-12 (min. 0-1-8)  
Max Horz 1=-27(LC 8)  
Max Uplift 1=-15(LC 10), 3=-15(LC 10)

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

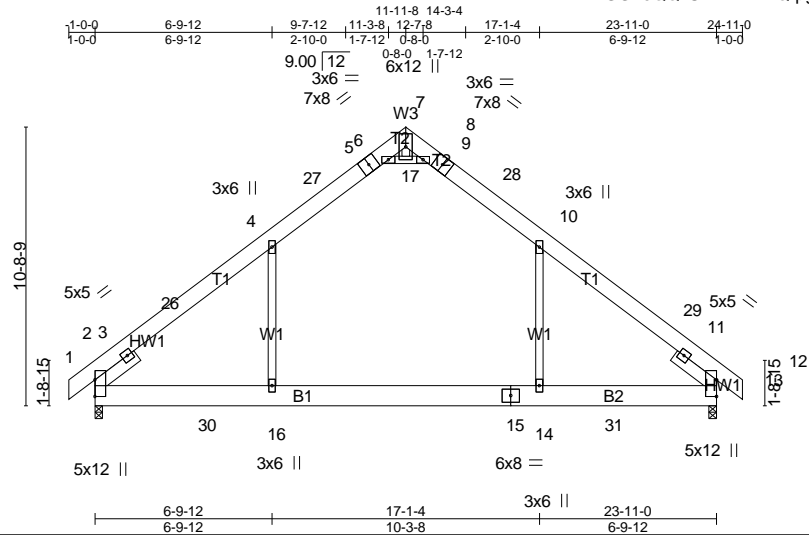
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - Gable requires continuous bottom chord bearing.
  - 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 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T11	Truss Type Attic	Qty 7	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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ID:ADPGTeQQxSZmmNZYQrpgdyaQar-9jTyonS7LzS0t?RjQ6eApYclAZRzyBAWMXRLLxzc2k8



Scale = 1:88.7

LUMBER  
TOP CH  
2x8 SP No.2  
BOT CH  
2x10 SP No.3  
WEBS  
2x4 SP No.3  
SLIDER  
Left 2x6

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.23 14-16 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(TL) -0.39 14-16 >737 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(TL) 0.04 2 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)	Attic -0.10 14-16 1298 360	Weight: 225 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x8 SP No.2  
BOT CHORD 2x10 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied.  
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=1068/0-3-8 (min. 0-1-9), 12=1068/0-3-8 (min. 0-1-9)  
Max Horz 2=196(LC 9)  
Max Uplift 2=-53(LC 10), 12=-53(LC 10)  
Max Grav 2=1328(LC 2), 12=1328(LC 2)

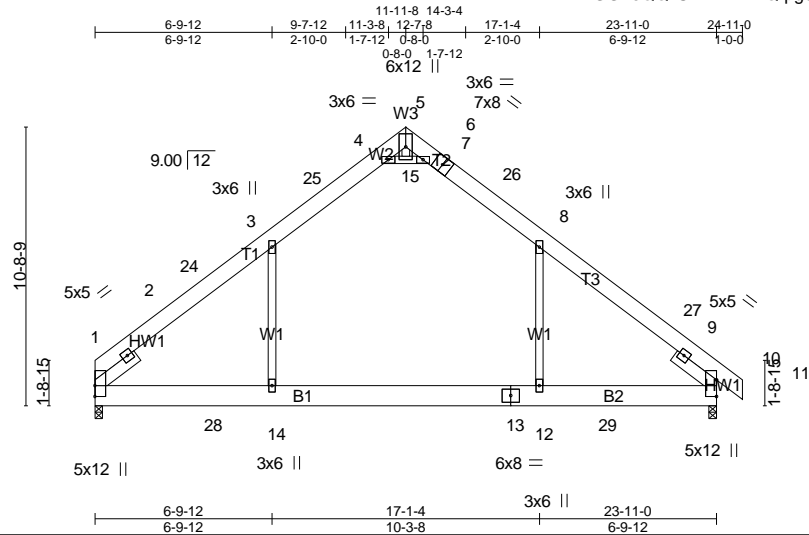
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-26=-1502/45, 4-26=-1350/75, 4-27=-994/132, 5-27=-859/168, 5-6=-845/172, 6-7=-147/944, 7-8=-147/944,  
8-9=-845/172, 9-28=-859/168, 10-28=-994/132, 10-29=-1350/75, 11-29=-1502/45  
BOT CHORD 2-30=0/1006, 16-30=0/1006, 15-16=0/1009, 14-15=0/1009, 14-31=0/1006, 12-31=0/1006  
WEBS 10-14=0/710, 4-16=0/710, 6-17=-2419/425, 8-17=-2419/425, 7-17=-90/572

- 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=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-11-8, Exterior(2) 11-11-8 to 14-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 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.
  - Ceiling dead load (5.0 psf) on member(s). 4-6, 8-10, 6-17, 8-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
  - This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

Job PEAS0311-1	Truss T12	Truss Type Attic	Qty 3	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:10 2016 Page 1  
ID:ADPPGGTeQQxSZmmNZYQrpgdyar-dw1K?7TI6HatU8VOq9PMI9W0znCheUfaBAvHOzc2k7



Scale = 1:88.7

LUMBER  
TOP CH  
2x8 SP No.2  
BOT CH  
2x10 SP No.3  
WEBS  
2x4 SP No.3  
SLIDER  
Left 2x6

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.23 12-14 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(TL) -0.39 12-14 >739 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(TL) 0.04 1 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)	Attic -0.10 12-14 1296 360	Weight: 221 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.2  
BOT CHORD 2x10 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
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=1007/0-3-8 (min. 0-1-8), 10=1070/0-3-8 (min. 0-1-9)  
Max Horz 1=-192(LC 8)  
Max Uplift 1=-22(LC 10), 10=-53(LC 10)  
Max Grav 1=1270(LC 2), 10=1322(LC 2)

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

TOP CHORD 2-24=-1498/53, 3-24=-1346/76, 3-25=-992/133, 4-25=-857/173, 4-5=-147/941, 5-6=-150/941, 6-7=-843/171,  
7-26=-858/167, 8-26=-992/131, 8-27=-1347/75, 9-27=-1499/45  
BOT CHORD 1-28=0/1003, 14-28=0/1003, 13-14=0/1006, 12-13=0/1006, 12-29=0/1003, 10-29=0/1003  
WEBS 8-12=0/705, 3-14=0/704, 4-15=-2413/431, 6-15=-2413/431, 5-15=-91/571

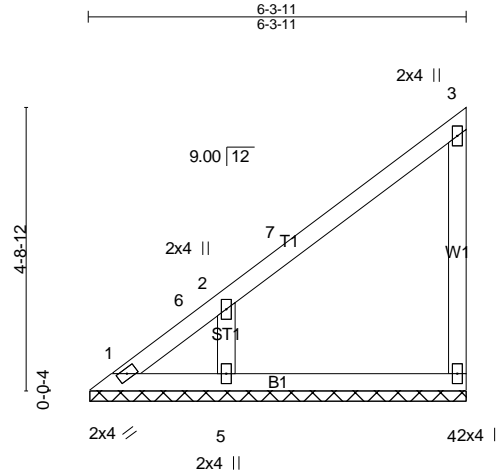
**NOTES-**

- 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=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-11-8, Exterior(2) 11-11-8 to 14-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-8, 4-15, 6-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10.
- This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

Job PEAS0311-1	Truss V1	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:11 2016 Page 1  
ID:ADPGGTeQXqSZmmNZYQrpgdyaQar-56biDTUNtaik6IbixXgeuzhsBNG2QDVpprwSqzgc2k6



Scale = 1:38.4

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

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	<b>CSI.</b> TC 0.31 BC 0.09 WB 0.06 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 4 n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 28 lb FT = 20%
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**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 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=15/6-3-5 (min. 0-1-8), 4=125/6-3-5 (min. 0-1-8), 5=317/6-3-5 (min. 0-1-8)  
Max Horz 1=148(LC 7)  
Max Uplift 1=-38(LC 8), 4=-35(LC 7), 5=-81(LC 10)  
Max Grav 1=86(LC 7), 4=125(LC 1), 5=317(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-6=-276/83, 2-6=-265/86

- 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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 6-1-15 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) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

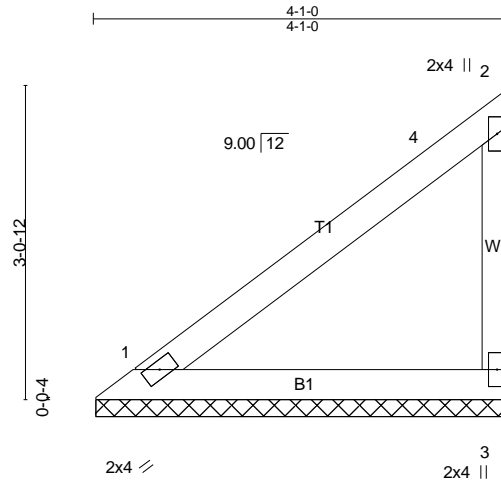
**LOAD CASE(S)** Standard



Job PEAS0311-1	Truss V2	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:11 2016 Page 1  
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LUMBER-  
TOP CHORD  
2x4 SP No.1  
BOT CHORD  
2x4 SP No.1  
WEBS  
2x4 SP No.3

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)		Weight: 16 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-1-0 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) 1=140/4-0-11 (min. 0-1-8), 3=140/4-0-11 (min. 0-1-8)  
Max Horz 1=90(LC 7)  
Max Uplift 1=-2(LC 10), 3=-27(LC 7)

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

**NOTES-**

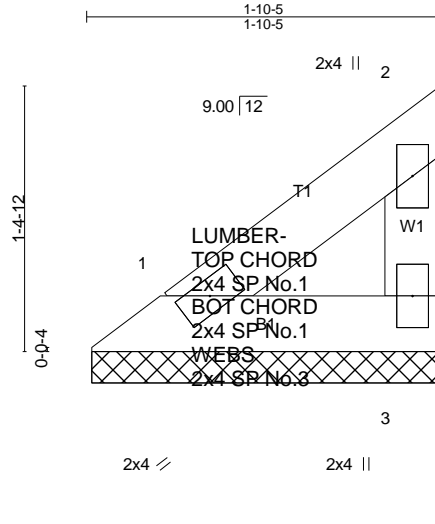
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss V3	Truss Type Valley	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:12 2016 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(TL) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 3 n/a n/a	
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)		Weight: 7 lb FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-10-5 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) 1=51/1-10-0 (min. 0-1-8), 3=51/1-10-0 (min. 0-1-8)  
Max Horz 1=33(LC 7)  
Max Uplift1=-1(LC 10), 3=-10(LC 7)

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

**NOTES-**

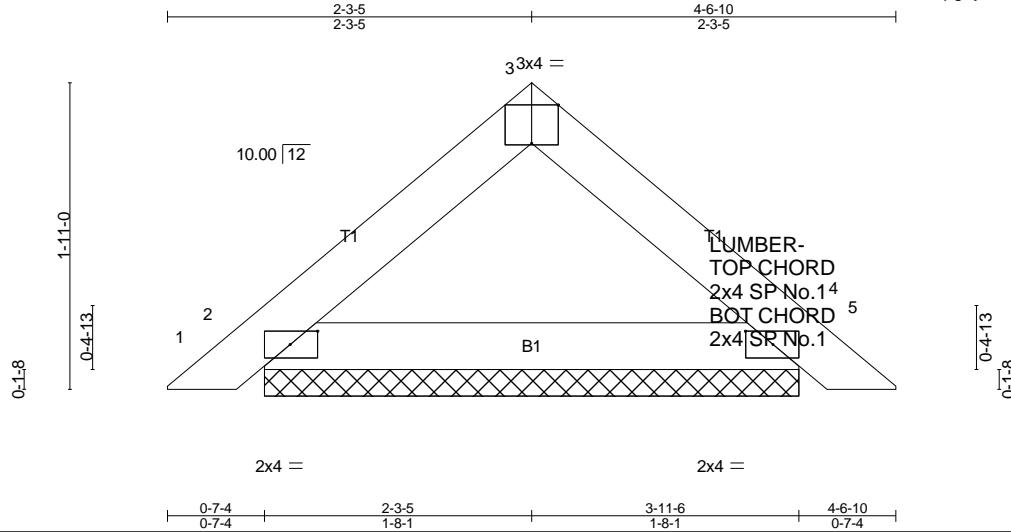
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss CAP1	Truss Type Piggyback	Qty 21	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:13 2016 Page 1  
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Scale = 1:14.4

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-0,Edge], [4:0-2-1,0-1-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IBC2009/TPI2007
<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.03	Vert(LL) 0.00 4 n/r 120
BC 0.10	Vert(TL) 0.00 4 n/r 120
WB 0.00	Horz(TL) 0.00 4 n/a n/a
(Matrix)	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 14 lb FT = 20%	

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-4 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=157/3-4-2 (min. 0-1-8), 4=157/3-4-2 (min. 0-1-8)  
Max Horz 2=-36(LC 8)  
Max Uplift 2=-19(LC 10), 4=-19(LC 10)

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

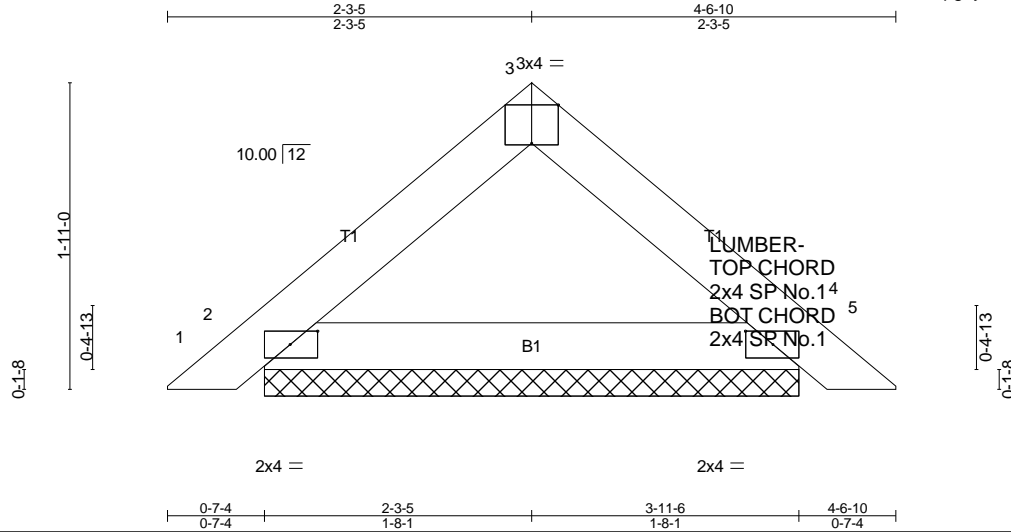
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - Gable requires continuous bottom chord bearing.
  - 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 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss CAP2	Truss Type Piggyback	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:13 2016 Page 1  
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Scale = 1:14.4

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-0,Edge], [4:0-2-1,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	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 IBC2009/TPI2007		(Matrix)							
									Weight: 14 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-4 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=157/3-4-2 (min. 0-1-8), 4=157/3-4-2 (min. 0-1-8)  
Max Horz 2=-36(LC 8)  
Max Uplift 2=-19(LC 10), 4=-19(LC 10)

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

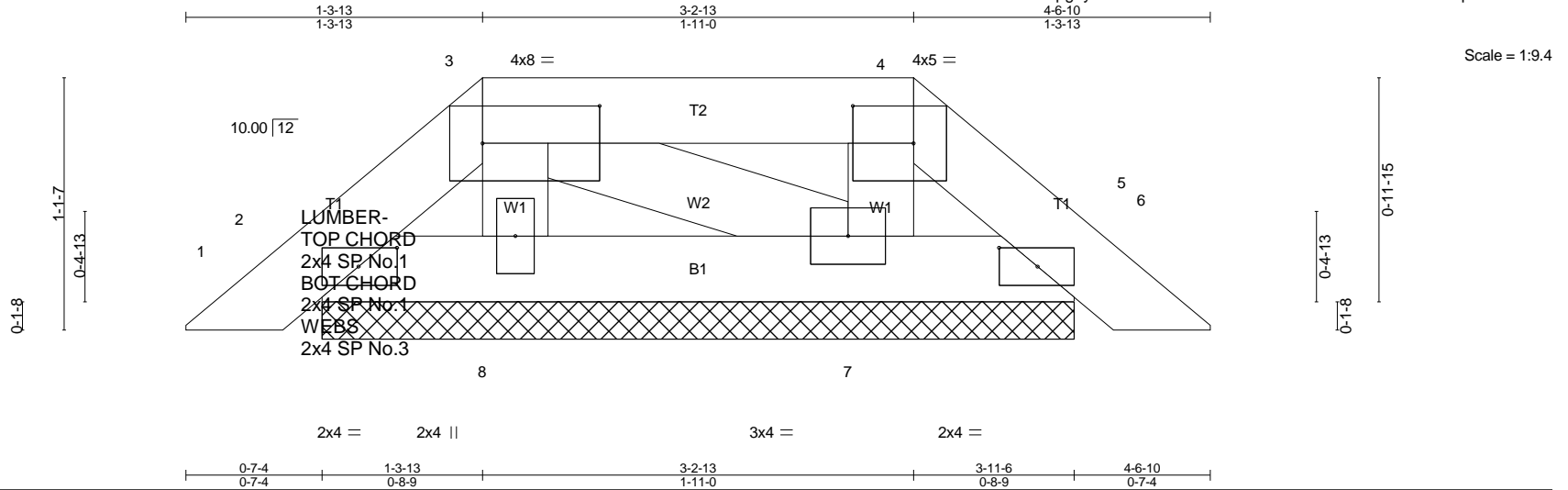
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and 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 100 lb uplift at joint(s) 2, 4.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss CAP3	Truss Type Piggyback	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:14 2016 Page 1  
ID:ADPPGGTeQQxSZmmNZYQrpgdyaQar-VhGrrVWGAV4JzmKHdfDLWbJRYalwda?FVp86Q9zc2k3



Scale = 1:9.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	in (loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(LL)	-0.00	5 n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Vert(TL)	-0.00	5 n/r	120		
BCDL	10.0	Code IBC2009/TPI2007		(Matrix)		Horz(TL)	0.00	5 n/a	n/a		
									Weight: 16 lb FT = 20%		

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 3-4-2.  
(lb) - Max Horz 2=20(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7  
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

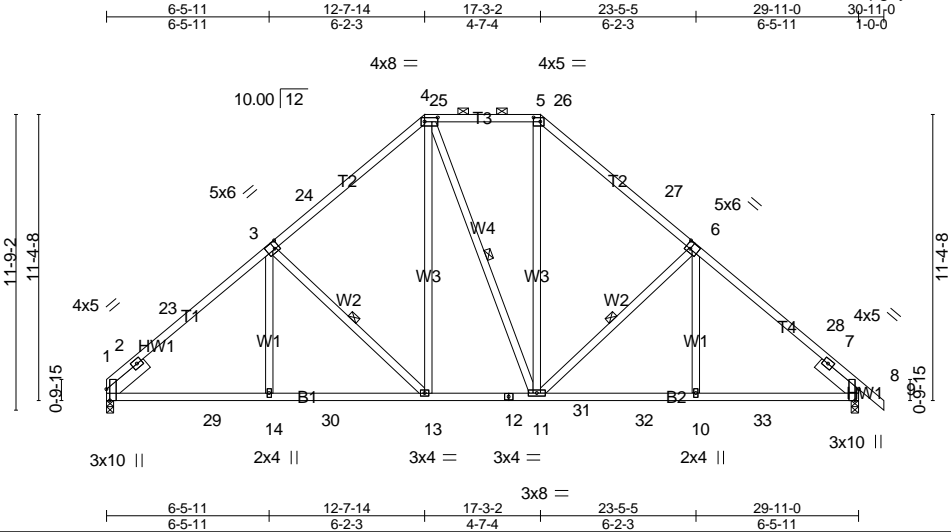
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Gable requires continuous bottom chord bearing.
  - 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 100 lb uplift at joint(s) 2, 5, 8, 7.
  - This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - 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 PEAS0311-1	Truss T1	Truss Type Piggyback Base	Qty 5	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:15 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-ztqD2rXuxpCABwwTANKa3psWY\_YpM?VOKtufzbzc2k2



Scale = 1:91.6

LUMBER  
TOP CH  
2x4 SP N  
BOT CH  
2x4 SP N  
WEBS  
2x4 SP N  
SLIDER  
Left 2x6

Plate Offsets (X,Y)-- [1:0-5-6,Edge], [3:0-2-4,0-3-4], [4:0-6-4,0-2-0], [5:0-3-4,0-2-0], [6:0-2-4,0-3-4], [8:0-5-6,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.06 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(TL)	-0.17 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(TL)	0.06 8	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)						
								Weight: 203 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

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

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

**REACTIONS.** (lb/size) 1=1196/0-3-8 (min. 0-1-8), 8=1258/0-3-8 (min. 0-1-8)  
Max Horz 1=242(LC 8)  
Max Uplift 1=66(LC 10), 8=98(LC 10)  
Max Grav 1=1230(LC 2), 8=1278(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-741/0, 2-23=-1547/190, 3-23=-1395/217, 3-24=-1185/242, 4-24=-1082/284, 4-25=-829/274, 25-26=-829/274, 5-26=-829/274, 5-27=-1076/281, 6-27=-1179/239, 6-28=-1513/210, 7-28=-1537/175, 7-8=-720/0  
BOT CHORD 1-29=-120/1121, 14-29=-27/1121, 14-30=-28/1117, 13-30=-28/1117, 13-31=0/834, 12-31=0/834, 11-12=0/834, 11-32=-37/1108, 10-32=-37/1108, 10-33=-36/1113, 8-33=-102/1113  
WEBS 3-14=0/268, 3-13=-409/171, 4-13=-54/454, 5-11=-62/433, 6-11=-404/170, 6-10=0/267

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 30-11-0 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 100 lb uplift at joint(s) 1, 8.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T1	Piggyback Base	5	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:15 2016 Page 2  
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**NOTES-**

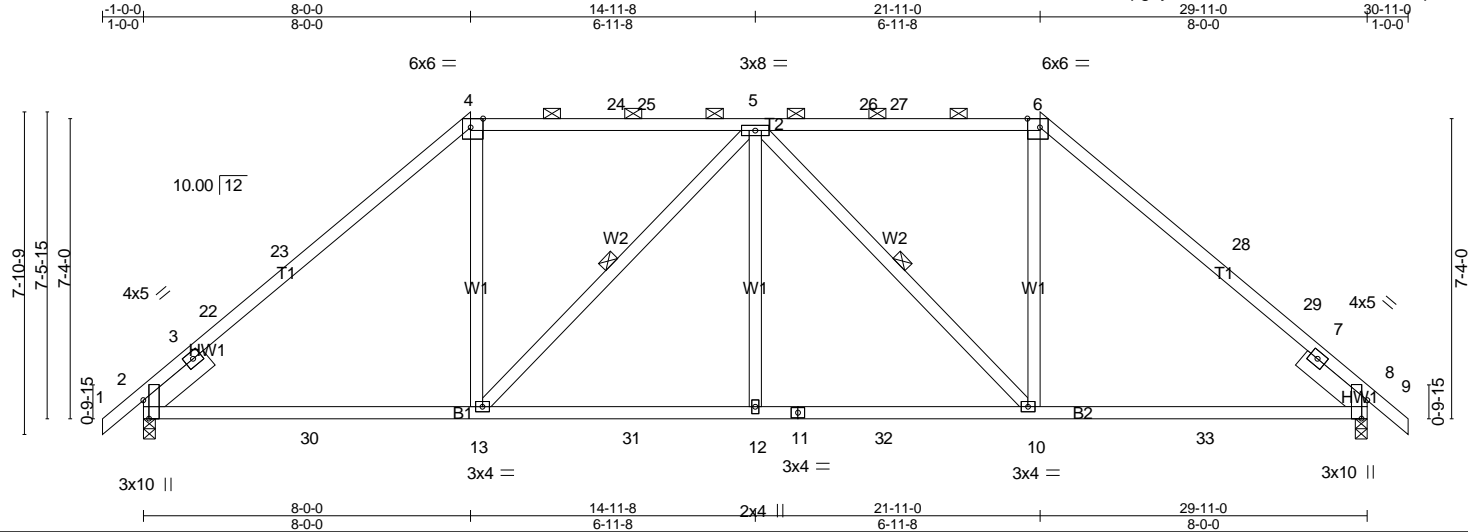
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T14	Truss Type Hip	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:16 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpggyaQar-R4ObGBYWi7K0C4Ufk4Gpb0PddOtg5QbYz7dDV2zc2k1



Scale = 1:56.3

**LUMBER-**  
**TOP CHORD**  
 2x4 SP No.1  
**BOT CHORD**  
 2x4 SP No.1  
**WEBS**  
 2x4 SP No.3  
**SLIDER**  
 Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

Plate Offsets (X,Y)-- [2:0-5-6,Edge], [4:0-3-11,Edge], [6:0-3-11,Edge], [8:0-5-6,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.09 10-20 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(TL) -0.20 10-20 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(TL) 0.06 8 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)			Weight: 168 lb FT = 20%

**LUMBER-**  
**TOP CHORD** 2x4 SP No.1  
**BOT CHORD** 2x4 SP No.1  
**WEBS** 2x4 SP No.3  
**SLIDER** Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied or 3-8-15 oc purlins, except 2-0-0 oc purlins (5-5-14 max.): 4-6.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.  
**WEBS** 1 Row at midpt 5-13, 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=1257/0-3-8 (min. 0-1-9), 8=1257/0-3-8 (min. 0-1-9)  
 Max Horz 2=-161(LC 8)  
 Max Uplift 2=-97(LC 10), 8=-97(LC 10)  
 Max Grav 2=1314(LC 2), 8=1314(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=-808/0, 3-22=-1550/180, 22-23=-1470/199, 4-23=-1438/231, 4-24=-1124/252, 24-25=-1124/252, 5-25=-1125/252, 5-26=-1125/252, 26-27=-1124/252, 6-27=-1124/252, 6-28=-1438/231, 28-29=-1470/199, 7-29=-1550/180, 7-8=-808/0  
**BOT CHORD** 2-30=-209/1111, 13-30=-6/1111, 13-31=-36/1441, 12-31=-36/1441, 11-12=-36/1441, 11-32=-36/1441, 10-32=-36/1441, 10-33=-15/1111, 8-33=-222/1111  
**WEBS** 4-13=0/623, 5-13=-521/45, 5-12=0/310, 5-10=-521/45, 6-10=0/623

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2) 8-0-0 to 26-1-15, Interior(1) 26-1-15 to 30-11-0 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 100 lb uplift at joint(s) 2, 8.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T14	Hip	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

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**NOTES-**

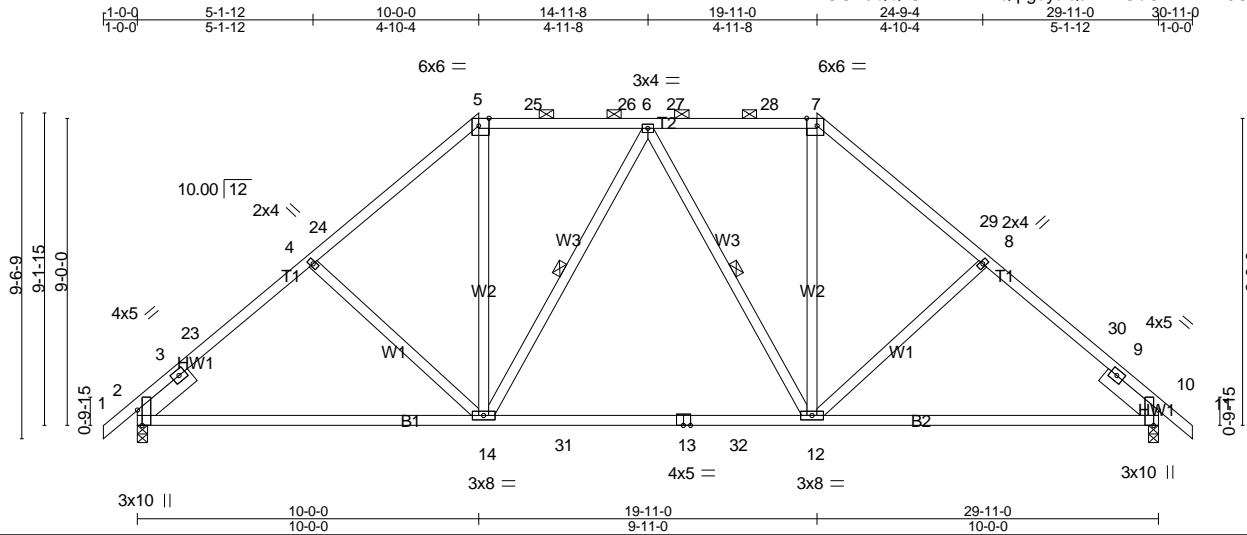
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T15	Truss Type Hip	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:16 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-R4ObGBYWi7K0C4Ufk4Gpb0PibOpW5RNYz7dDV2zc2k1



Scale = 1:67.5

LUMBER-  
TOP CHORD  
2x4 SP No.1  
BOT CHORD  
2x4 SP No.1  
WEBS  
2x4 SP No.3  
SLIDER  
Left 2x6 SP No.2 2-0-0, Rig

Plate Offsets (X,Y)-- [2:0-5-6,Edge], [5:0-3-11,Edge], [7:0-3-11,Edge], [10:0-5-6,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.37 12-14 >980 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(TL) -0.56 12-14 >647 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(TL) 0.06 10 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)			
				Weight: 185 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-14, 6-12

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

**REACTIONS.** (lb/size) 2=1257/0-3-8 (min. 0-1-8), 10=1257/0-3-8 (min. 0-1-8)  
Max Horz 2=197(LC 9)  
Max Uplift 2=-97(LC 10), 10=-97(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-961/0, 3-23=-1466/206, 4-23=-1437/235, 4-24=-1295/219, 5-24=-1200/253, 5-25=-937/246, 25-26=-937/246, 6-26=-939/246, 6-27=-939/246, 27-28=-937/246, 7-28=-937/246, 7-29=-1200/253, 8-29=-1295/219, 8-30=-1437/235, 9-30=-1466/206, 9-10=-961/0  
BOT CHORD 2-14=-114/1065, 14-31=0/1030, 13-31=0/1030, 13-32=0/1030, 12-32=0/1030, 10-12=-123/1065  
WEBS 5-14=-45/511, 6-14=-274/78, 6-12=-274/77, 7-12=-45/511

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-0-0, Exterior(2) 10-0-0 to 24-1-15, Interior(1) 24-1-15 to 30-11-0 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 100 lb uplift at joint(s) 2, 10.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T15	Hip	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

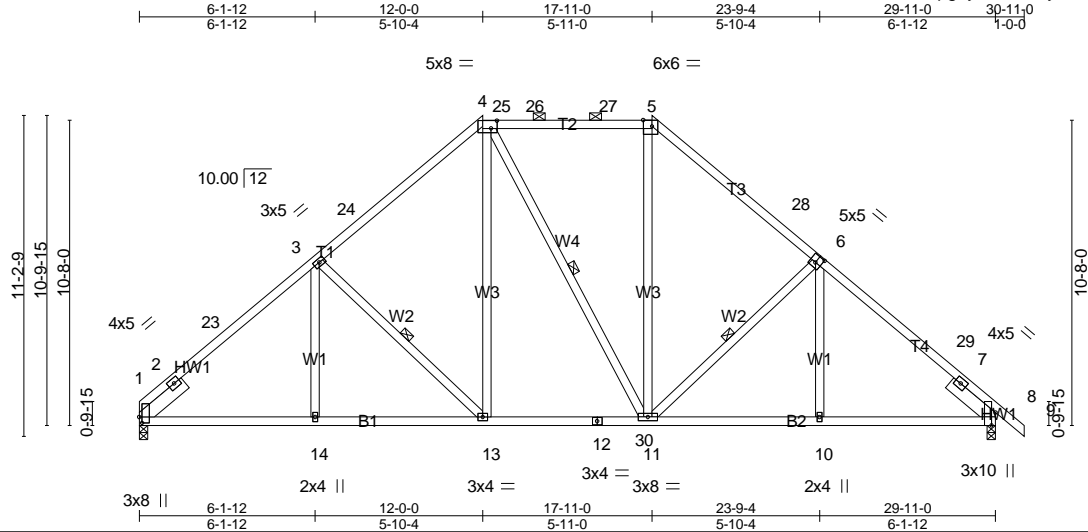
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**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T16	Truss Type Hip	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:17 2016 Page 1  
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Scale = 1:80.5

Plate Offsets (X,Y)-- [1:0-2-8,0-1-3], [4:0-2-8,0-3-4], [5:0-3-11,Edge], [6:0-2-8,0-3-0], [8:0-5-6,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.06 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(TL)	-0.14 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(TL)	0.06 8	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)						
								Weight: 198 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-13, 4-11, 6-11

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

**REACTIONS.** (lb/size) 1=1196/0-3-8 (min. 0-1-8), 8=1258/0-3-8 (min. 0-1-8)  
Max Horz 1=-227(LC 8)  
Max Uplift 1=-66(LC 10), 8=-98(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-679/0, 2-23=-1486/193, 3-23=-1320/218, 3-24=-1197/238, 4-24=-1082/278, 4-25=-842/269, 25-26=-842/269, 26-27=-842/269, 5-27=-842/269, 5-28=-1082/275, 6-28=-1196/235, 6-29=-1336/211, 7-29=-1481/178, 7-8=-652/0  
BOT CHORD 1-14=-109/1070, 13-14=-35/1070, 13-30=0/842, 12-30=0/842, 11-12=0/842, 10-11=-44/1063, 8-10=-94/1064  
WEBS 3-13=-330/156, 4-13=-35/397, 5-11=-40/397, 6-11=-324/155

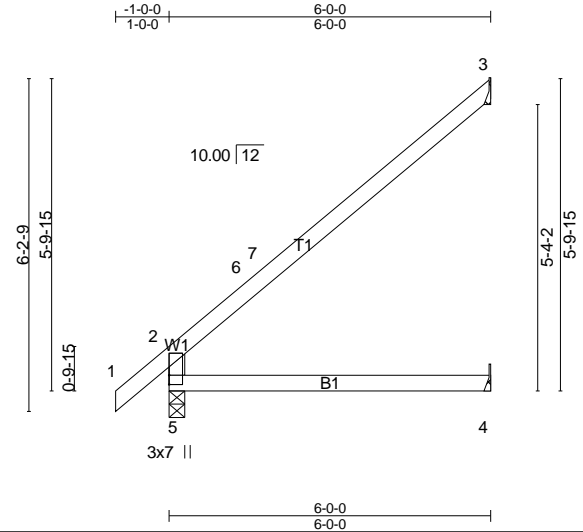
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-0-0, Exterior(2) 12-0-0 to 22-1-15, Interior(1) 22-1-15 to 30-11-0 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 100 lb uplift at joint(s) 1, 8.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

LU  
TC  
2x  
BC  
2x  
W1  
2x  
SL  
Le

Job PEAS0311-1	Truss T17	Truss Type Jack-Open	Qty 10	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

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Scale = 1:43.0

LUMBER-  
TOP CHOI  
2x4 SP No  
BOT CHOI  
2x4 SP No  
WEBS  
2x4 SP No

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) 0.06 4-5 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(TL) -0.14 4-5 >510 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.05 3 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)		Weight: 23 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
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) 5=307/0-3-8 (min. 0-1-8), 3=155/Mechanical, 4=70/Mechanical  
Max Horz 5=192(LC 10)  
Max Uplift 3=94(LC 10)  
Max Grav 5=307(LC 1), 3=155(LC 1), 4=111(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-262/76

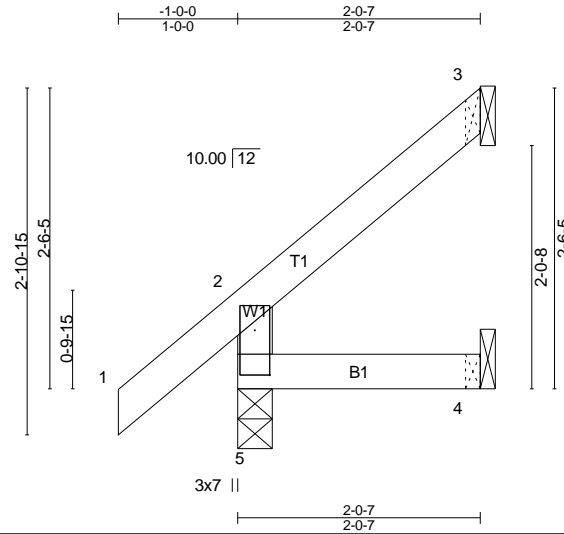
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members 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 100 lb uplift at joint(s) 3.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T18	Truss Type Jack-Open	Qty 2	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:18 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-OSWmhsZmDkakSNd2sVllhRU5BCgMZoArQR6KZwzc2k?



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

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL) -0.00	5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(TL) -0.00	4-5	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)					Weight: 10 lb	FT = 20%
	Code IBC2009/TPI2007							

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-0-7 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) 5=163/0-3-8 (min. 0-1-8), 3=38/Mechanical, 4=14/Mechanical  
Max Horz 5=98(LC 10)  
Max Uplift 5=-13(LC 10), 3=-29(LC 10), 4=-2(LC 10)  
Max Grav 5=163(LC 1), 3=38(LC 1), 4=33(LC 3)

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

**NOTES-**

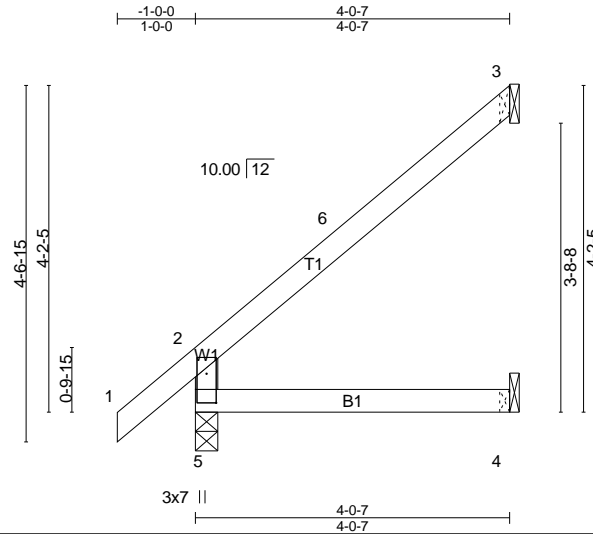
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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 100 lb uplift at joint(s) 5, 3, 4.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T19	Truss Type Jack-Open	Qty 2	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:19 2016 Page 1  
ID:ADPGTeQqSZmmNZYQrpgdyaQar-sf4kuCaO\_2jb4XCEPdpXDF1Ebbz2lrQ\_f5st6Mzc2k\_



Scale = 1:29.6

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

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

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.01 4-5 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(TL) -0.03 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.01 3 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)		Weight: 17 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-0-7 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) 5=232/0-3-8 (min. 0-1-8), 3=100/Mechanical, 4=43/Mechanical  
Max Horz 5=145(LC 10)  
Max Uplift 3=64(LC 10)  
Max Grav 5=232(LC 1), 3=100(LC 1), 4=73(LC 3)

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

**NOTES-**

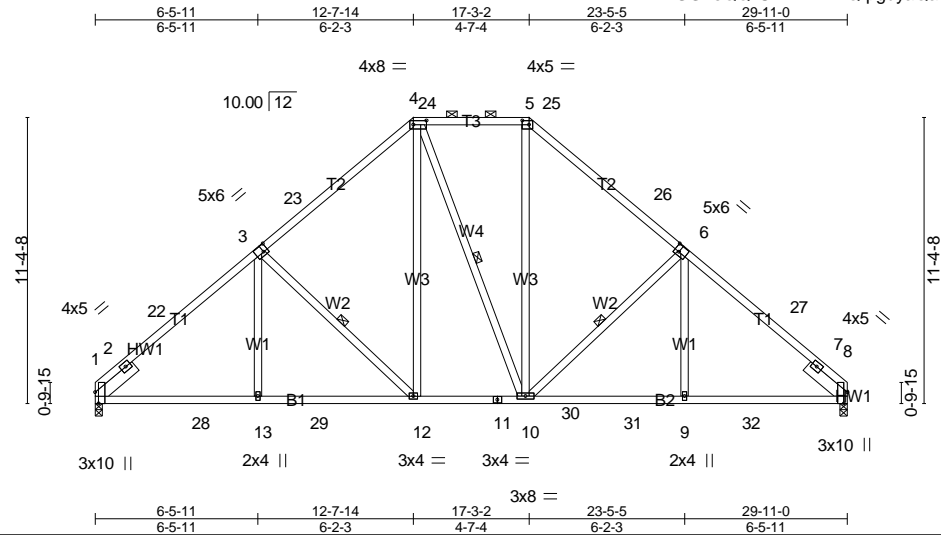
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-11-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T2	Truss Type Piggyback Base	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:20 2016 Page 1  
ID:ADPGGTQQXSSZmmNZYQrpgdyaQar-Kre66Yb0LrShhnQzwKrmsZNY?FB1Gk7ulbQdpzc2jz



Scale = 1:91.6

LUMBER  
TOP CH  
2x4 SP N  
BOT CH  
2x4 SP N  
WEBS  
2x4 SP N  
SLIDER  
Left 2x6

Plate Offsets (X,Y)-- [1:0-5-6,Edge], [3:0-2-4,0-3-4], [4:0-6-4,0-2-0], [5:0-3-4,0-2-0], [6:0-2-4,0-3-4], [8:0-5-6,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.06 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(TL)	-0.17 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(TL)	0.06 8	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)						
								Weight: 201 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-12, 4-10, 6-10

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

**REACTIONS.** (lb/size) 1=1197/0-3-8 (min. 0-1-8), 8=1197/0-3-8 (min. 0-1-8)  
Max Horz 1=-230(LC 8)  
Max Uplift 1=-66(LC 10), 8=-66(LC 10)  
Max Grav 1=1231(LC 2), 8=1227(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-742/0, 2-22=-1548/190, 3-22=-1396/218, 3-23=-1186/243, 4-23=-1083/285, 4-24=-830/274, 24-25=-830/274, 5-25=-830/274, 5-26=-1077/285, 6-26=-1180/243, 6-27=-1390/218, 7-27=-1541/190, 7-8=-739/0  
BOT CHORD 1-28=-138/1122, 13-28=-64/1122, 13-29=-65/1117, 12-29=-65/1117, 12-30=0/835, 11-30=0/835, 10-11=0/835, 10-31=-59/1112, 9-31=-59/1112, 9-32=-57/1117, 8-32=-144/1117  
WEBS 3-13=0/268, 3-12=-409/171, 4-12=-55/454, 5-10=-66/435, 6-10=-408/171, 6-9=0/268

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 29-11-0 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 100 lb uplift at joint(s) 1, 8.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T2	Piggyback Base	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:20 2016 Page 2  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-Kre66Yb0LrShhnQzwKmmsZNY?FB1Gk7ulbQdpzc2jz

**NOTES-**

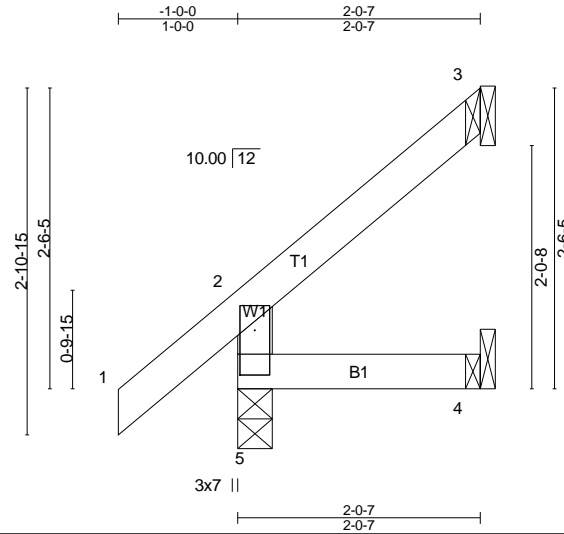
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T20	Truss Type Jack-Open	Qty 2	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:20 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-Kre66Yb0LrShhnQzwKmmsZQh?Lq1lg7ulbQdpzc2jz



Scale = 1:19.3

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

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.00	4-5	>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 IBC2009/TPI2007		(Matrix-M)						Weight: 10 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-0-7 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) 5=163/0-3-8 (min. 0-1-8), 3=38/Mechanical, 4=14/Mechanical  
Max Horz 5=98(LC 10)  
Max Uplift 5=-13(LC 10), 3=-29(LC 10), 4=-2(LC 10)  
Max Grav 5=163(LC 1), 3=38(LC 1), 4=33(LC 3)

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

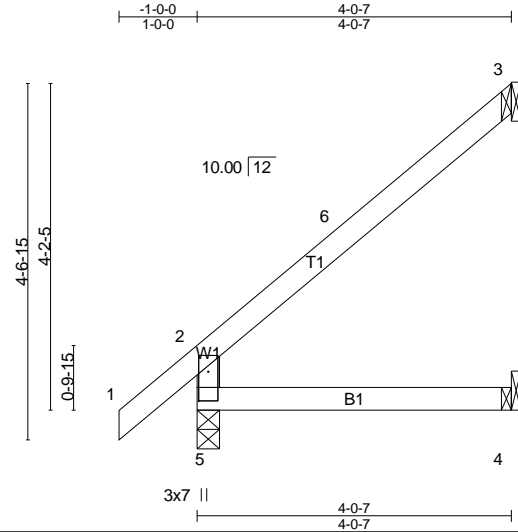
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 100 lb uplift at joint(s) 5, 3, 4.
  - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T21	Truss Type Jack-Open	Qty 2	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:21 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-o1CUJucfWfzJJrMdXer?I46Z5PfWmlwH6PL\_9Fzc2jy



Scale = 1:29.6

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

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	-0.01	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(TL)	-0.03	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL)	-0.01	3	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)						
	Code IBC2009/TPI2007						Weight: 17 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-0-7 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) 5=232/0-3-8 (min. 0-1-8), 3=100/Mechanical, 4=43/Mechanical  
Max Horz 5=145(LC 10)  
Max Uplift 3=64(LC 10)  
Max Grav 5=232(LC 1), 3=100(LC 1), 4=73(LC 3)

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

**NOTES-**

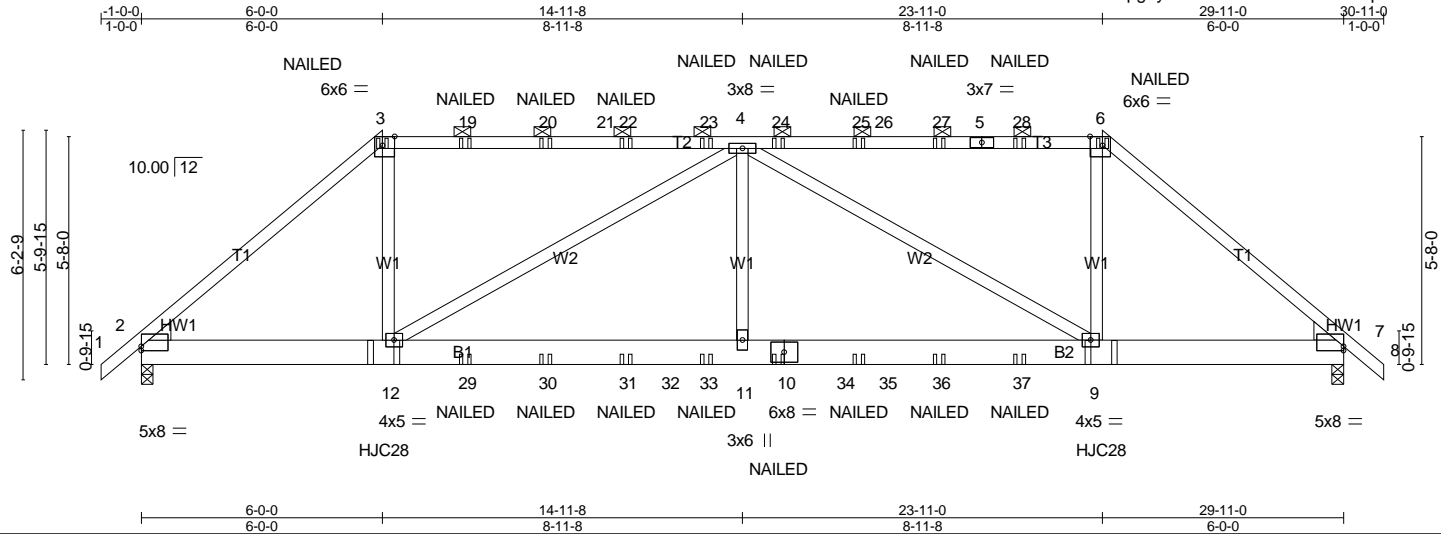
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-11-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T2GRD	Truss Type Hip Girder	Qty 1	Ply 2	Sample Roof Layout
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:22 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-GDIsWEcHHz5Ax?xp5LMERHeaFpxiV2EQL34Xihzc2jx



Scale = 1:57.3

**LUMBER-**  
**TOP CHORD**  
 2x4 SP No.1  
**BOT CHORD**  
 2x8 SP No.2  
**WEBS**  
 2x4 SP No.3  
**WEDGE**  
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

Plate Offsets (X,Y)-- [2:0-0-0,0-1-5], [3:0-3-11,Edge], [6:0-3-11,Edge], [7:0-0-0,0-1-5]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr NO
BCDL 10.0	Code IBC2009/TP12007
<b>CSL</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.90	Vert(LL) 0.07 11 >999 240
BC 0.40	Vert(TL) -0.17 9-11 >999 180
WB 0.70	Horz(TL) 0.05 7 n/a n/a
(Matrix-M)	
<b>PLATES</b> MT20	<b>GRIP</b> 244/190
Weight: 399 lb FT = 20%	

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x8 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=2275/0-3-8 (min. 0-1-8), 7=2275/0-3-8 (min. 0-1-8)  
 Max Horz 2=-125(LC 6)  
 Max Uplift 2=-519(LC 8), 7=-519(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3069/722, 3-19=-2324/614, 19-20=-2325/615, 20-21=-2325/615, 21-22=-2325/615, 22-23=-2326/615, 4-23=-2327/615, 4-24=-2326/613, 24-25=-2326/613, 25-26=-2326/613, 26-27=-2326/613, 5-27=-2326/613, 5-28=-2325/613, 6-28=-2323/612, 6-7=-3068/720  
 BOT CHORD 2-12=-476/2290, 12-29=-771/3693, 29-30=-771/3693, 30-31=-771/3693, 31-32=-771/3693, 32-33=-771/3693, 11-33=-771/3693, 10-11=-771/3693, 10-34=-771/3693, 34-35=-771/3693, 35-36=-771/3693, 36-37=-771/3693, 9-37=-771/3693, 7-9=-437/2291  
 WEBS 3-12=-152/1272, 4-12=-1647/382, 4-11=0/751, 4-9=-1646/384, 6-9=-150/1268

- 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: 2x8 - 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; 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.

Job PEAS0311-1	Truss T2GRD	Truss Type Hip Girder	Qty 1	Ply 2	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:22 2016 Page 2  
ID:ADPGGTeeQQxSZmmNZYQrpgdyaQar-GDIsWEcHHz5Ax?xp5LMERHeaFpxiV2EQL34Xihzc2jx

**NOTES-**

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=519, 7=519.
- 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use USP HJC28 (With 16d nails into Girder & 10d nails into Truss) or equivalent spaced at 17-10-4 oc max. starting at 6-0-6 from the left end to 23-10-10 to connect truss(es) T17 (1 ply 2x4 SP), H1 (1 ply 2x4 SP), T17 (1 ply 2x4 SP), H1 (1 ply 2x4 SP) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "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.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 6-8=-60, 13-16=-20

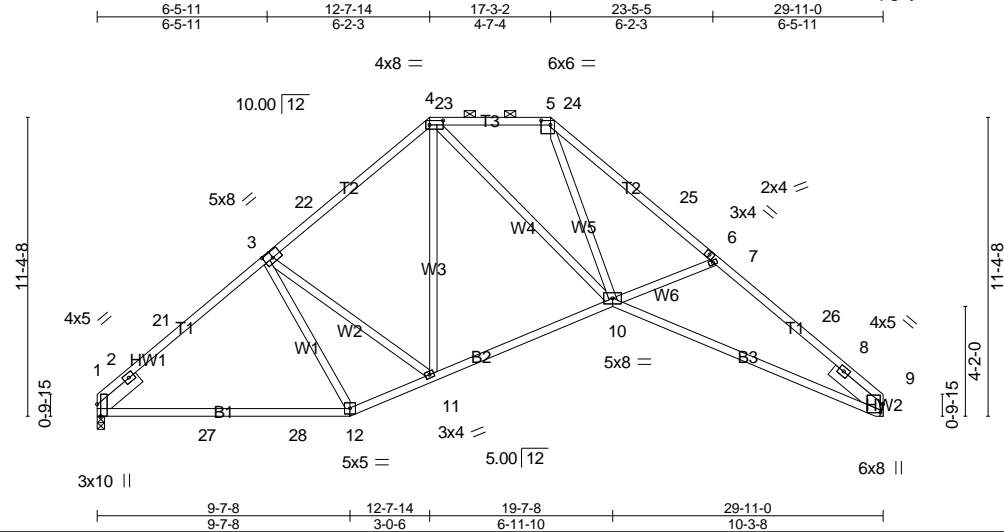
Concentrated Loads (lb)

Vert: 3=-95(B) 10=-50(B) 12=-344(B) 9=-344(B) 6=-95(B) 19=-95(B) 20=-95(B) 22=-95(B) 23=-95(B) 24=-95(B) 25=-95(B) 27=-95(B) 28=-95(B) 29=-50(B) 30=-50(B) 31=-50(B) 33=-50(B) 35=-50(B) 36=-50(B) 37=-50(B)

Job PEAS0311-1	Truss T3	Truss Type Piggyback Base	Qty 4	Ply 1	Sample Roof Layout
					Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:23 2016 Page 1  
ID:ADPGGTeQxSZmmNZYQrpgdyar-kQJFkadv2GD1Y8W?e2uTOVBm3DBIEZVaajq5E8zc2jw



Scale = 1:87.7

LUMBER-  
TOP CHORD  
2x4 SP No.1  
BOT CHORD  
2x4 SP No.1  
WEBS  
2x4 SP No.3  
SLIDER  
Left 2x6 SP No

Plate Offsets (X,Y)-- [1:0-5-6,Edge], [3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-4-4,0-2-0], [9:0-3-13,0-1-3]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.21 12-15 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(TL) -0.50 12-15 >712 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(TL) 0.28 9 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix-M)			Weight: 179 lb FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-6-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-11 max.): 4-5.  
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=1197/0-3-8 (min. 0-1-8), 9=1197/Mechanical  
Max Horz 1=230(LC 9)  
Max Uplift 1=66(LC 10), 9=66(LC 10)

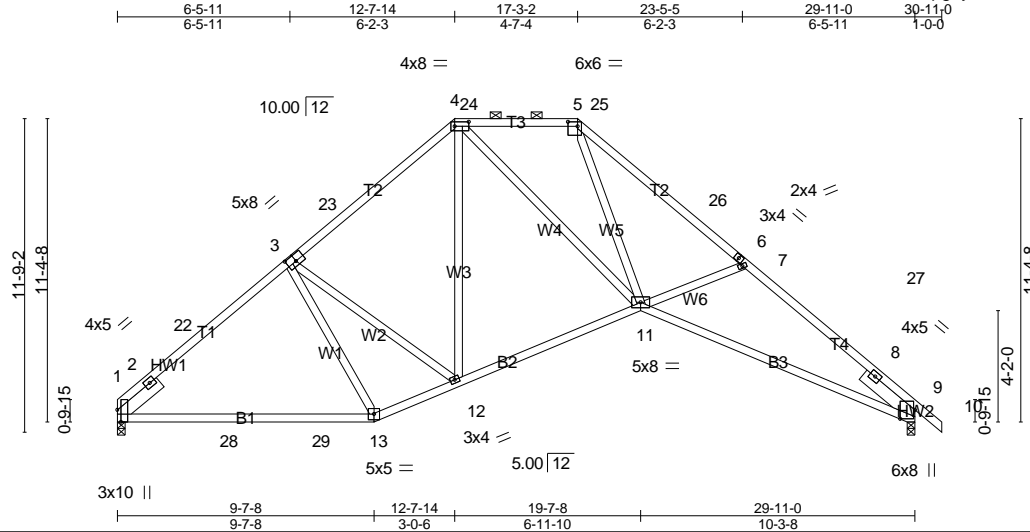
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1017/0, 2-21=-1448/209, 3-21=-1266/236, 3-22=-1313/229, 4-22=-1183/271, 4-23=-1265/258, 23-24=-1265/258, 5-24=-1265/258, 5-25=-2105/259, 6-25=-2198/227, 6-7=-2223/210, 7-26=-2470/314, 8-26=-2524/278, 8-9=-1222/0  
BOT CHORD 1-27=-172/1045, 27-28=-76/1045, 12-28=-76/1045, 11-12=-46/997, 10-11=0/1007, 9-10=-176/2016  
WEBS 3-12=-309/88, 4-10=0/555, 5-10=-43/1069, 7-10=-269/225

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 29-11-0 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) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
  - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

Job PEAS0311-1	Truss T4	Truss Type Piggyback Base	Qty 5	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:24 2016 Page 1  
ID:ADPGGTeeQQxSZmmNZYQrpgdyar-CctdxweXpaLuAl5CCmPiwikwMcXqzOnjpNZemazc2jv



Scale = 1:86.4

LUMBER-  
TOP CHORD  
2x4 SP No.1  
BOT CHORD  
2x4 SP No.1  
WEBS  
2x4 SP No.3  
SLIDER  
Left 2x6 SP N

Plate Offsets (X,Y)-- [1:0-5-6,Edge], [3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-4-4,0-2-0], [9:0-4-1,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.21 13-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(TL)	-0.50 13-16	>712	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(TL)	0.28 9	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)						
								Weight: 181 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-6-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-11 max.): 4-5.  
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=1196/0-3-8 (min. 0-1-8), 9=1258/0-3-8 (min. 0-1-8)  
Max Horz 1=-242(LC 8)  
Max Uplift 1=-66(LC 10), 9=-98(LC 10)

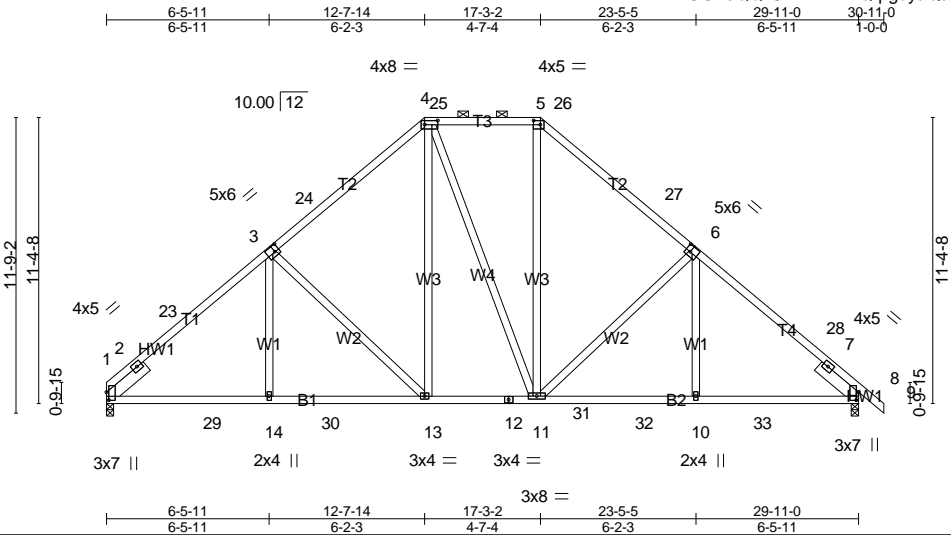
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1017/0, 2-22=-1446/208, 3-22=-1264/236, 3-23=-1311/225, 4-23=-1181/267, 4-24=-1262/245, 24-25=-1262/245, 5-25=-1262/245, 5-26=-2099/227, 6-26=-2192/194, 6-7=-2216/178, 7-27=-2500/286, 8-27=-2515/249, 8-9=-1215/0  
BOT CHORD 1-28=-153/1043, 28-29=-37/1043, 13-29=-37/1043, 12-13=-13/996, 11-12=0/1005, 9-11=-142/2007  
WEBS 3-13=-308/71, 4-11=0/553, 5-11=-6/1064, 7-11=-265/226

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 30-11-0 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
  - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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.

Job PEAS0311-1	Truss T5	Truss Type Piggyback Base	Qty 2	Ply 2	Sample Roof Layout
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:25 2016 Page 1  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-hoR?9Gf9auTloSgOmTwxTwGH50?Oixvs11JBI0zc2ju



Scale = 1:91.6

LUMBER  
TOP CH  
2x4 SP N  
BOT CH  
2x4 SP N  
WEBS  
2x4 SP N  
SLIDER  
Left 2x6

Plate Offsets (X,Y)-- [1:0-3-14,0-1-3], [3:0-2-4,0-3-0], [4:0-6-4,0-2-0], [5:0-3-4,0-2-0], [6:0-2-4,0-3-0], [8:0-3-14,0-1-3]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.03 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(TL)	-0.09 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(TL)	0.03 8	n/a	n/a		
BCDL 10.0	Code IBC2009/TP12007		(Matrix-M)						
								Weight: 406 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=1196/0-3-8 (min. 0-1-8), 8=1258/0-3-8 (min. 0-1-8)  
Max Horz 1=242(LC 8)  
Max Uplift 1=66(LC 10), 8=98(LC 10)  
Max Grav 1=1230(LC 2), 8=1278(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-788/0, 2-23=-1546/189, 3-23=-1394/217, 3-24=-1185/243, 4-24=-1082/285, 4-25=-829/274, 25-26=-829/274, 5-26=-829/274, 5-27=-1076/281, 6-27=-1179/239, 6-28=-1513/210, 7-28=-1536/175, 7-8=-774/0  
BOT CHORD 1-29=-87/1121, 14-29=-27/1121, 14-30=-28/1116, 13-30=-28/1116, 13-31=0/834, 12-31=0/834, 11-12=0/834, 11-32=-37/1108, 10-32=-37/1108, 10-33=-36/1113, 8-33=-79/1113  
WEBS 3-14=0/268, 3-13=-409/171, 4-13=-54/454, 5-11=-63/433, 6-11=-404/170, 6-10=0/267

- 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: 2x4 - 1 row 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 30-11-0 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.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T5	Piggyback Base	2	<b>2</b>	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:25 2016 Page 2  
 ID:ADPGGTQQxSZmmNZYQrpgdyaQar-hoR?9Gf9auTloSgOmTwxTwGH50?OiXvs11JBI0zc2ju

**NOTES-**

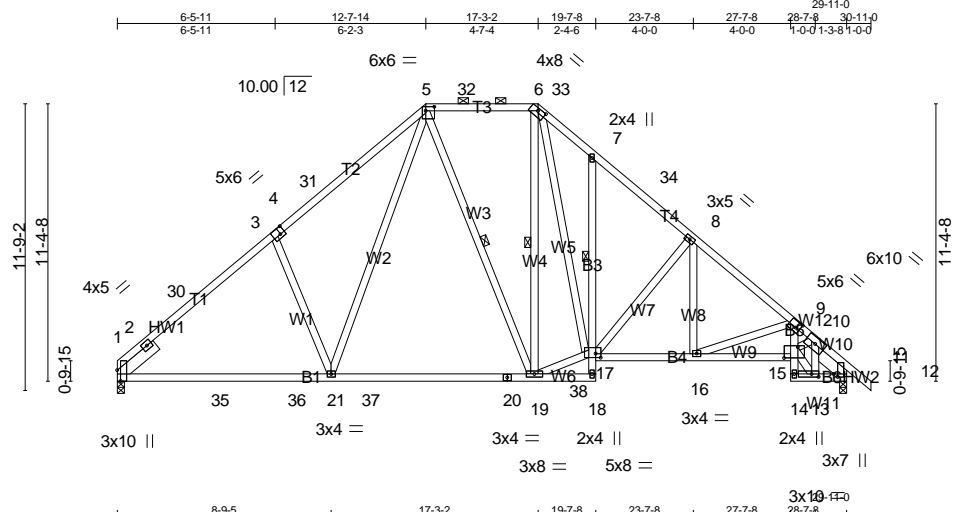
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
- 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) 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 PEAS0311-1	Truss T6	Truss Type Piggyback Base	Qty 4	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:26 2016 Page 1  
ID:ADPGGTQQXszmmNZYQrpgdyaQar-9??NMbgnLBbcPcFaKBRA?7pO5QF9RtQOGhZrSzc2jt



Scale = 1:94.5

Plate Offsets (X,Y)-- [1:0-5-6,Edge], [4:0-2-4,0-3-4], [5:0-4-4,0-2-0], [6:0-4-0,0-1-4], [9:0-2-0,0-3-0], [11:0-1-8,0-1-15], [13:0-3-8,0-1-8], [15:0-6-12,0-5-4], [17:0-2-8,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	6x10 =	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.16 19-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(TL)	-0.33 19-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.11 11	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)						
								Weight: 232 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1 \*Except\*  
B3,B5: 2x4 SP No.3  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 1-7-2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,17-18.  
1 Row at midpt 7-17  
WEBS 1 Row at midpt 5-19, 6-19

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

**REACTIONS.** (lb/size) 1=1196/0-3-8 (min. 0-1-8), 11=1258/0-3-8 (min. 0-1-8)  
Max Horz 1=-242(LC 8)  
Max Uplift 1=-66(LC 10), 11=-98(LC 10)  
Max Grav 1=1213(LC 2), 11=1258(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-837/0, 2-30=-1494/199, 3-30=-1348/225, 3-4=-1406/291, 4-31=-1400/296, 5-31=-1299/340, 5-32=-811/269, 32-33=-811/269, 6-33=-811/269, 6-7=-1306/374, 7-34=-1268/264, 8-34=-1359/246, 8-9=-1667/216, 9-10=-2624/249, 10-11=-619/87  
BOT CHORD 1-35=-122/1089, 35-36=-35/1089, 21-36=-35/1089, 21-37=0/803, 37-38=0/803, 20-38=0/803, 19-20=0/803, 16-17=-31/1242, 15-16=-177/2290, 9-15=-1/791, 11-13=-57/885  
WEBS 3-21=-309/225, 5-21=-115/588, 17-19=0/850, 6-17=-195/772, 8-17=-415/118, 8-16=0/300, 9-16=-1087/149, 13-15=-74/1352, 10-15=-112/1288, 10-13=-1105/68

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 30-11-0 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T6	Piggyback Base	4	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:27 2016 Page 2  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-dBZlaxgQ6VjT1mpntuyPYLMZrqbOAKg9VLoINvzc2js

**NOTES-**

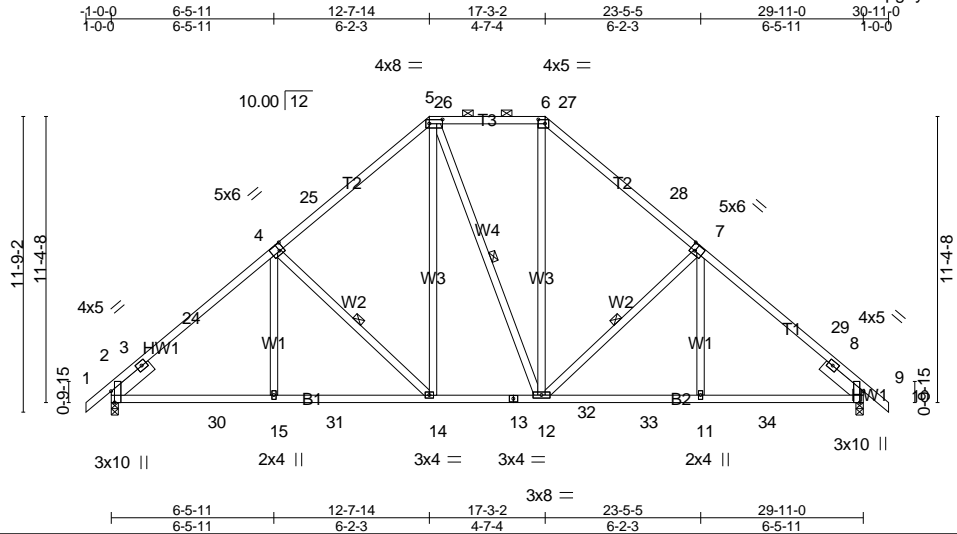
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
- 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 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 PEAS0311-1	Truss T7	Truss Type Piggyback Base	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:27 2016 Page 1  
ID:ADPGGTQQxSZmmNZYQrpgdyaQar-dBZlaxgQ6VjT1mpntuyPYLMZTqebAQU9VLoNvzc2js



Scale = 1:91.6

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

Plate Offsets (X,Y)-- [2:0-5-6,Edge], [4:0-2-4,0-3-4], [5:0-6-4,0-2-0], [6:0-3-4,0-2-0], [7:0-2-4,0-3-4], [9:0-5-6,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.06 14-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(TL)	-0.17 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(TL)	0.06 9	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007		(Matrix-M)						
								Weight: 205 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-14, 5-12, 7-12

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

**REACTIONS.** (lb/size) 2=1257/0-3-8 (min. 0-1-8), 9=1257/0-3-8 (min. 0-1-8)  
Max Horz 2=-248(LC 8)  
Max Uplift 2=-97(LC 10), 9=-97(LC 10)  
Max Grav 2=1281(LC 2), 9=1277(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-722/0, 3-24=-1542/175, 4-24=-1518/210, 4-25=-1183/239, 5-25=-1080/281, 5-26=-828/272, 26-27=-828/272, 6-27=-828/272, 6-28=-1075/281, 7-28=-1177/239, 7-29=-1512/210, 8-29=-1536/175, 8-9=-719/0  
BOT CHORD 2-30=-101/1117, 15-30=-21/1117, 15-31=-22/1112, 14-31=-22/1112, 14-32=0/833, 13-32=0/833, 12-13=0/833, 12-33=-36/1107, 11-33=-36/1107, 11-34=-34/1112, 9-34=-102/1112  
WEBS 4-15=0/267, 4-14=-404/170, 5-14=-54/452, 6-12=-62/433, 7-12=-404/170, 7-11=0/267

- 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=30ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 12-7-14, Exterior(2) 12-7-14 to 21-6-1, Interior(1) 21-6-1 to 30-11-0 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 100 lb uplift at joint(s) 2, 9.
  - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Sample Roof Layout
PEAS0311-1	T7	Piggyback Base	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:27 2016 Page 2  
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**NOTES-**

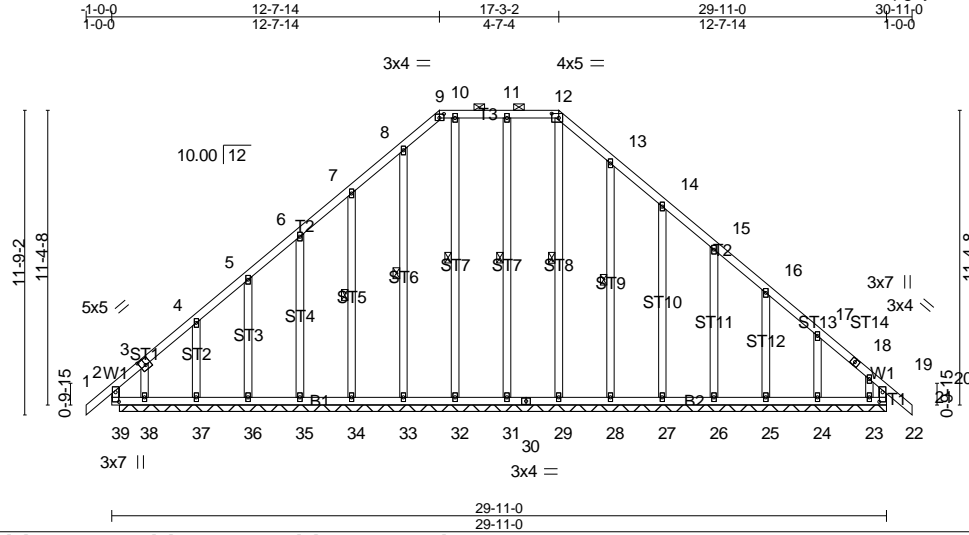
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job PEAS0311-1	Truss T8	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Sample Roof Layout Job Reference (optional)
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Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:29 2016 Page 1  
ID:ADPGGTQQxSZmmNZYQrpgdyaQar-ZagW?dige6zAG3z9?J\_tdmRyDdPJeKnSyfHPRnzc2jq



Scale = 1:89.0

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [9:0-2-0,0-1-13], [12:0-3-4,0-2-0], [20:0-4-8,0-1-8], [39:0-4-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 21 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(TL) -0.00 21 n/r 120		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.01 22 n/a n/a		
	Code IBC2009/TPI2007			Weight: 248 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 9-12.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 12-29, 11-31, 10-32, 8-33, 7-34, 13-28

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

**REACTIONS.** All bearings 29-7-8.  
 (lb) - Max Horz 38=-267(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 29, 31, 34, 35, 36, 37, 38, 28, 27, 26, 25, 24 except 22=-339(LC 9), 23=-189(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 29, 31, 32, 33, 34, 35, 36, 37, 38, 28, 27, 26, 25, 24 except 22=321(LC 8), 23=286(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 7-8=-47/328, 8-9=-64/349, 9-10=-53/311, 10-11=-53/311, 11-12=-53/311, 12-13=-86/371, 13-14=-109/297, 19-20=-255/286

- 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=30ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 12-7-14, Corner(3) 12-7-14 to 20-3-2, Exterior(2) 20-3-2 to 30-11-0 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 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 2x4 MT20 unless otherwise indicated.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - 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	Sample Roof Layout
PEAS0311-1	T8	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Peak Truss Builders, Holly Springs, NC

Run: 7.620 s Apr 30 2015 Print: 7.620 s Apr 30 2015 MiTek Industries, Inc. Fri Mar 11 09:13:29 2016 Page 2  
ID:ADPGGTeQQxSZmmNZYQrpgdyaQar-ZagW?dige6zAG3z9?J\_tdmRyDdPJeKnSyfHPRnzc2jq

**NOTES-**

- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 31, 34, 35, 36, 37, 38, 28, 27, 26, 25, 24 except (jt=lb) 22=339, 23=189.
- 12) Non Standard bearing condition. Review required.
- 13) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 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.

**LOAD CASE(S)** Standard