



404 SE Mill Creek Dr  
PRES 20151229

**MITek USA, Inc.**

14515 North Outer Forty Drive  
Suite 300  
Chesterfield, MO 63017-5746  
314-434-1200

Re: 450324  
Lot 90 MC

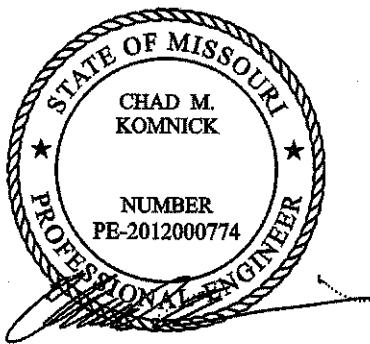
The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I24762771 thru I24762774

My license renewal date for the state of Missouri is December 31, 2016.

Missouri COA: 001193

Lumber design values are in accordance with ANSI/TPI 1 section 6.3  
These truss designs rely on lumber values established by others.



RECEIVED

OCT 7 2015

Planning & Codes Admin

August 24, 2015

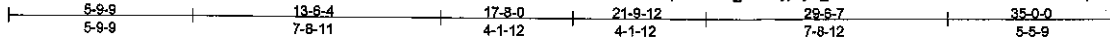
Komnick, Chad

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

Job 450324	Truss C1	Truss Type Hip	Qty 1	Ply 1	Lot 90 MC REPAIR: 4 TRUSSES, 4 UNITS TH	I24762771
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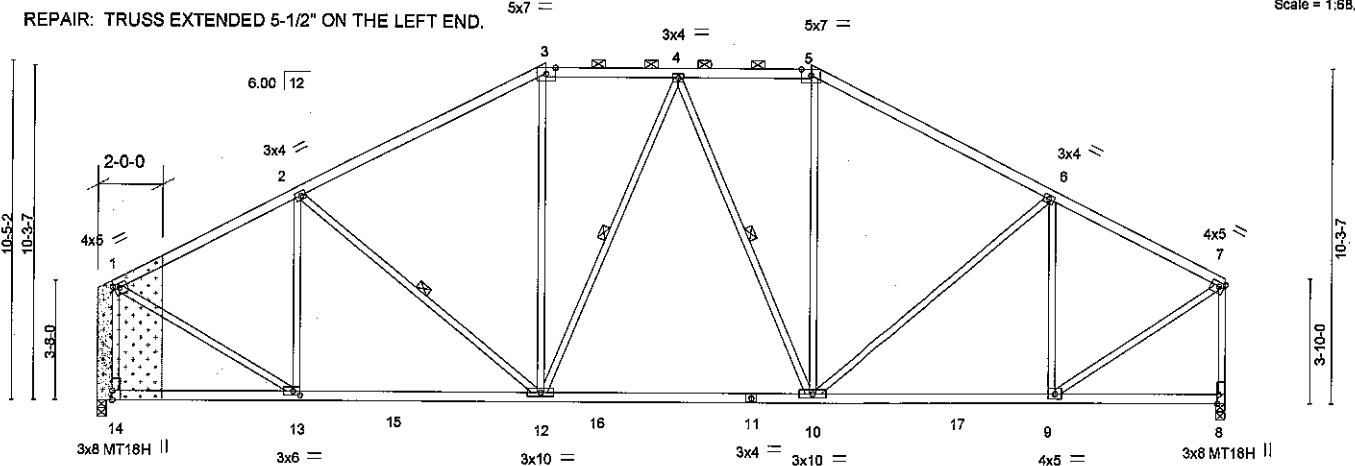
Wheeler Lumber LLC, Waverly, KS 66871

7.530 s Jul 11 2014 MiTek Industries, Inc. Mon Aug 24 14:14:23 2015 Page 1  
ID:D6oZpSHJf8D\_SYeKyjCyE\_zw4dC-JQCdNFZkI4B5WEvRXH12EqYuc\_2246HaC3e7KykoZk



REPAIR: TRUSS EXTENDED 5-1/2" ON THE LEFT END.

Scale = 1:68.5



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X MIN 2.5") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3's - 2 ROWS, 2 x 4's - 3 ROWS, 2 x 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

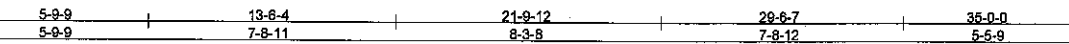


Plate Offsets (X,Y) - [1:0-2-0,0-1-8], [3:0-3-10,Edge], [5:0-3-10,Edge], [7:0-2-0,0-1-8], [8:0-3-8,Edge], [13:0-2-8,0-1-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plates Increase 1.15	TC 0.88	Vert(LL)	-0.22 10-12	>999	360	MT20	197/144
TCDL 10.0	Lumber Increase 1.15	BC 0.76	Vert(TL)	-0.42 10-12	>994	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(TL)	0.06 8	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007	(Matrix)	Wind(LL)	0.04 12	>999	240		
							Weight: 158 lb	FT = 10%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x3 SPF No.2

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

**REACTIONS.** (lb/size) 14=1566/0-3-8, 8=1566/0-3-8  
Max Horz 14=221(LC 5)  
Max Uplift 14=160(LC 8), 8=157(LC 9)

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

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1455/162, 2-3=-1591/206, 3-4=-1309/237, 4-5=-1297/233, 5-6=-1577/200, 6-7=-1383/151, 1-14=-1518/184, 7-8=-1522/178  
BOT CHORD 12-13=-181/1261, 10-12=-133/1362, 9-10=-133/1202  
WEBS 2-13=-609/153, 3-12=0/362, 4-12=-305/135, 4-10=-331/136, 5-10=0/358, 6-10=-62/260, 6-9=-661/157, 1-13=-126/1452, 7-9=-127/1432

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; V<sub>ult</sub>=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=160, 8=157.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 24, 2015

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 02/16/2015 BEFORE USE.**  
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSITR11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 761 N. Lee Street, Suite 312, Alexandria, VA 22314.

14515 N. Outer Forty, Suite #300  
Chesterfield, MO 63017

Job 450324	Truss C2	Truss Type Hip	Qty 1	Ply 1	Lot 90 MC 124762772
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Wheeler Lumber LLC, Waverly, KS 66871 7.530 s Jul 11 2014 MITek Industries, Inc. Mon Aug 24 14:25 2015 Page 1  
 ID:D6oZpSHJf6D\_SYeKyjOyE\_zw4dC-FoK\_Cxa\_PJKvKqOIYyJm7IwzbQjK1\_aa1WYI3DykcZI

REPAIR: TRUSS EXTENDED 5-1/2" ON THE LEFT END. Scale = 1:85.9  
 REFERENCE MITek DRAWING NUMBER I24762771 FOR REPAIR.

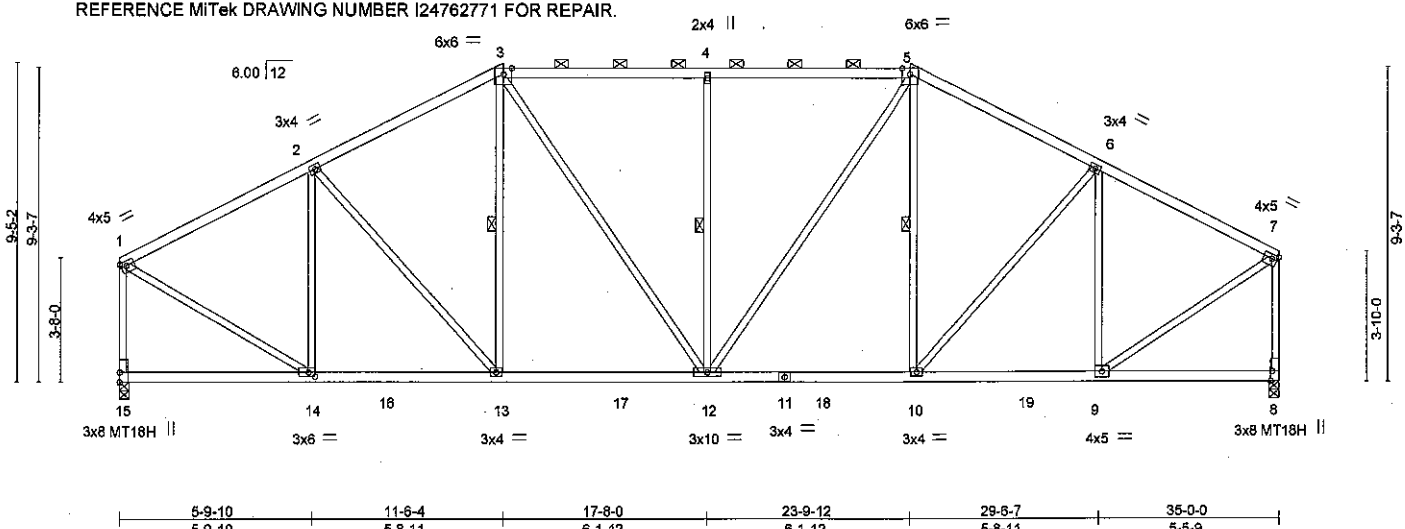


Plate Offsets (X,Y)-- [1:0-2-0,0-1-8], [7:0-2-0,0-1-8], [8:0-3-8,Edge], [14:0-2-8,0-1-8]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.52	Vert(LL) -0.10 12-13 >999 360	MT18H	197/144
BCLL 0.0 *	Lumber Increase 1.15	WB 0.64	Vert(TL) -0.22 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	WB (TL) 0.06 8 n/a n/a		
	Code IRC2012/TPI2007		Wind(LL) 0.05 12 >999 240		
				Weight: 160 lb	FT = 10%

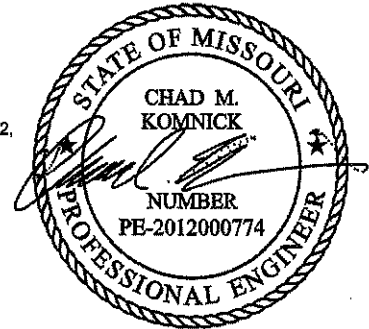
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-2 max.): 3-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	WEBS 1 Row at midpt 3-13, 4-12, 5-10

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

**REACTIONS.** (lb/size) 15=1566/0-3-8, 8=1566/0-3-8  
 Max Horz 15=208(LC 5)  
 Max Uplift 15=142(LC 8), 8=139(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1458/140, 2-3=-1593/193, 3-4=-1553/207, 4-5=-1553/207, 5-6=-1569/192,  
 6-7=-1385/130, 1-15=-1513/168, 7-8=-1517/162  
 BOT CHORD 13-14=-204/1238, 12-13=-187/1345, 10-12=-126/1326, 9-10=-108/1178  
 WEBS 2-14=-612/126, 2-13=-79/287, 3-12=-131/488, 4-12=-519/210, 5-12=-133/518,  
 6-10=-81/330, 6-9=-662/128, 1-14=-94/1419, 7-9=-95/1397

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=142, 8=139.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 24, 2015

Job 450324	Truss C3	Truss Type Hip	Qty 1	Ply 1	Lot 90 MC	124762773
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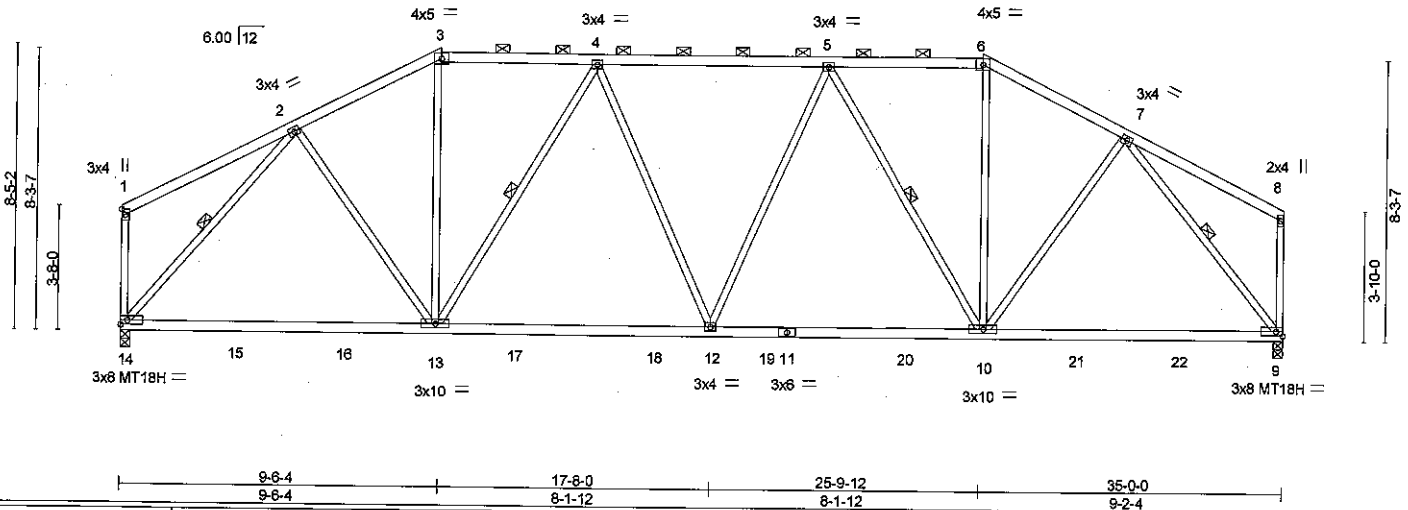
Wheeler Lumber LLC, Waverly, KS 66871

7.530 s Jul 11 2014 MiTek Industries, Inc. Mon Aug 24 14:26 2015 Page 1  
 ID: D6oZpSHUf6D\_SYeKyjOyE\_zw4dC-k?uMPGbcAdSmy\_zU8fq?gsS8hqz0mLSjGAIJbfycZh

REPAIR: TRUSS EXTENDED 5-1/2" ON THE LEFT END.

Scale = 1:65.7

REFERENCE MiTek DRAWING NUMBER I24762771 FOR REPAIR.



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.52	in (foc) l/defl L/d	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.87	Vert(LL) -0.19 9-10 >999 360	MT18H	197/144
BCLL 0.0 *	Lumber Increase 1.15	WB 0.98	Vert(TL) -0.48 9-10 >870 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.08 9 n/a n/a		
	Code IRC2012/TPI2007		Wind(LL) 0.06 12 >999 240		
				Weight: 152 lb	FT = 10%

**LUMBER-**

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2 \*Except\*  
 WEBS 2x3 SPF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-8 max.): 3-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-13, 5-10, 2-14, 7-9

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

**REACTIONS.**

(lb/size) 14=1566/0-3-8, 9=1566/0-3-8  
 Max Horz 14=195(LC 5)  
 Max Uplift 14=121(LC 8), 9=-118(LC 9)  
 Max Grav 14=1569(LC 2), 9=1570(LC 2)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1611/223, 3-4=-1388/213, 4-5=-1745/243, 5-6=-1355/211, 6-7=-1573/220  
 BOT CHORD 13-14=-241/1145, 12-13=-285/1690, 10-12=-256/1676, 9-10=-119/1080  
 WEBS 2-13=-46/496, 3-13=-24/488, 4-13=-688/206, 5-10=-718/207, 6-10=-22/467,  
 7-10=-52/538, 2-14=-1728/152, 7-9=-1702/155

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=121, 9=118.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 24, 2015

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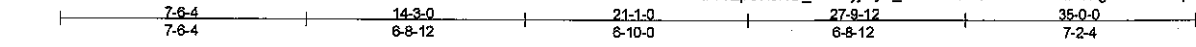


14515 N. Outer Forty, Suite #300  
 Chesterfield, MO 63017

Job 450324	Truss C4	Truss Type Hip	Qty 1	Ply 1	Lot 90 MC	124762774
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Wheeler Lumber LLC, Waverly, KS 66871

7.530 s Jul 11 2014 MiTek Industries, Inc. Mon Aug 24 14:14:27 2015 Page 1  
ID:D6oZpSHJf8D\_SyEkYjOyE\_zw4dC-CBSkcccExxada8YhgMLEC4?FqDMiVjIvq1s85ykcZg



REPAIR: TRUSS EXTENDED 5-1/2" ON THE LEFT END.

Scale = 1:87.2

REFERENCE MiTek DRAWING NUMBER 124762771 FOR REPAIR.

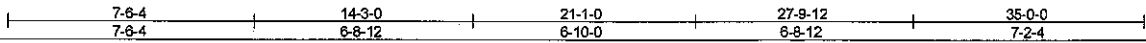
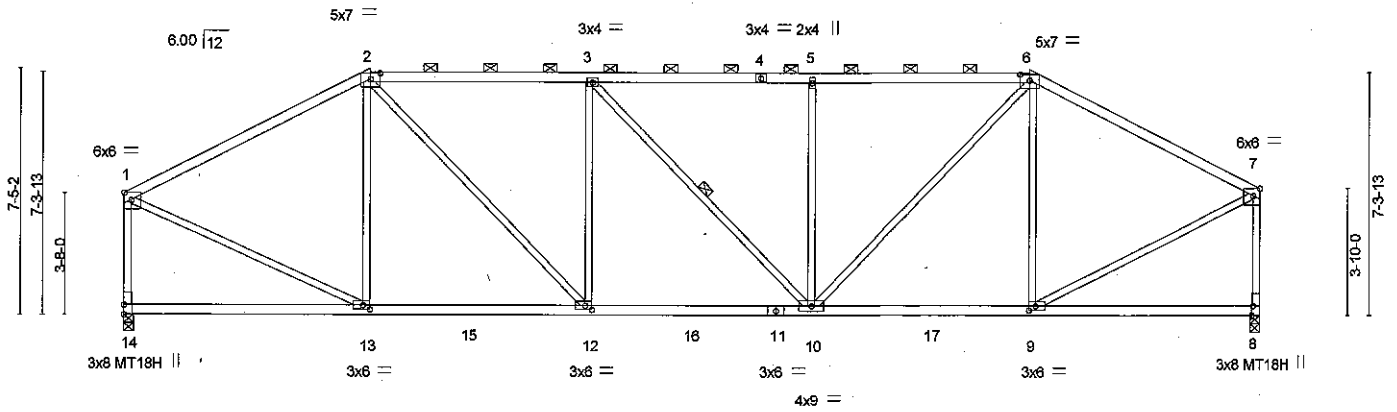


Plate Offsets (X,Y) - [1:Edge,0-2-11], [2:0-3-8,0-2-3], [6:0-3-8,0-2-3], [7:0-2-8,Edge], [8:0-3-8,Edge], [9:0-2-8,0-1-8], [12:0-2-8,0-1-8], [13:0-2-8,0-1-8]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.65	Vert(LL) -0.12 10-12 >999 360	MT18H	197/144
BCDL 0.0 *	Lumber Increase 1.15	WB 0.68	Vert(TL) -0.30 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 8 n/a n/a		
	Code IRC2012/TPI2007		Wind(LL) 0.08 10-12 >999 240		
				Weight: 145 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF 2100F 1.8E *Except* 2-4,4-6: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-13 max.): 2-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS 2x3 SPF No.2	WEBS 1 Row at midpt 3-10

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

**REACTIONS.** (lb/size) 14=1568/0-3-8, 8=1566/0-3-8  
Max Horz 14=182(LC 5)  
Max Uplift 14=153(LC 5), 8=155(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1587/235, 2-3=-1922/338, 3-5=-1905/335, 5-6=-1907/336, 6-7=-1530/232, 1-14=-1500/191, 7-8=-1503/192  
BOT CHORD 12-13=-260/1332, 10-12=-356/1920, 9-10=-185/1287  
WEBS 2-13=-446/169, 2-12=-212/928, 3-12=-541/232, 5-10=-520/212, 6-10=-214/966, 6-9=-489/173, 1-13=-173/1416, 7-9=-175/1399

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.80
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 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) except (jt=lb) 14=153, 8=155.
  - 8) "Semi-rigid pitchbreaks including heels" Member and fixity model was used in the analysis and design of this truss.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



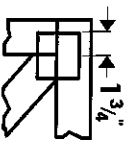
August 24, 2015

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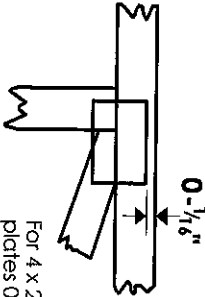
14515 N. Outer Forty, Suite #300  
Chesterfield, MO 63017

# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

**\*Plate location details available in Mitek 20/20 software or upon request.**

## PLATE SIZE

4 X 4

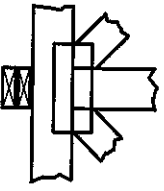
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or L bracing if indicated.

## BEARING

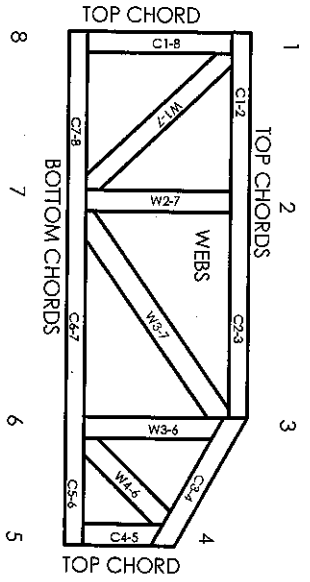
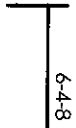


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.
- BCSI:

# Numbering System



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

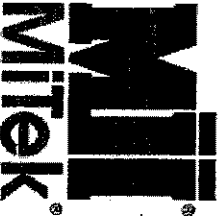
ICC-ES Reports:

- ESR-1311, ESR-1352, ESR1988
- ER-3907, ESR-2362, ESR-1397, ESR-3282

# General Safety Notes

**Failure to Follow Could Cause Property Damage or Personal Injury**

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative (or 1) bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, properly owner and all other interested parties.
5. Curl members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



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