

# JULIUS LEE PE.

RE: 492601 -

**1109 COASTAL BAY BLVD,  
BOYNTON BEACH, FL 33435**

## Site Information:

Project Customer: Dreambuilder Custom Homes Project Name: 492601 Model: Custom  
Lot/Block: 179-2 Subdivision: Pablo Creek Reserve  
Address:  
City: Duval State: Florida

## Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: Pontigo, Luis Antonio, PE License #: 53311  
Address: 420 Osceola Ave.  
City: Jacksonville Beach State: Florida

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

FBC 2010/TPI 2007 Design Program: MiTek 20/20 7.3  
ASCE 7-10 Wind Speed: 130 mph Floor Load: 55.0 psf  
Roof Load: 40.0 psf

This package includes 89 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules. This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

**In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.**

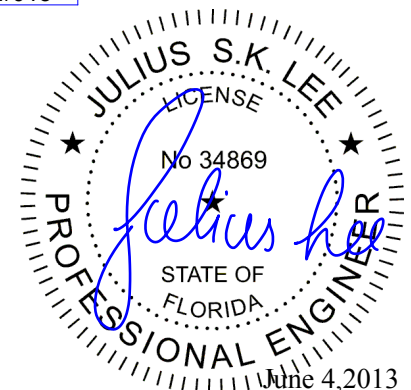
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I6813356	CJ01	6/4/013	18	I6813373	CJ20	6/4/013
2	I6813357	CJ02	6/4/013	19	I6813374	CJ21	6/4/013
3	I6813358	CJ03	6/4/013	20	I6813375	CJ22	6/4/013
4	I6813359	CJ04	6/4/013	21	I6813376	CJ23	6/4/013
5	I6813360	CJ05	6/4/013	22	I6813377	CJ24	6/4/013
6	I6813361	CJ08	6/4/013	23	I6813378	EJ01	6/4/013
7	I6813362	CJ09	6/4/013	24	I6813379	EJ02	6/4/013
8	I6813363	CJ10	6/4/013	25	I6813380	EJ03	6/4/013
9	I6813364	CJ11	6/4/013	26	I6813381	EJ04	6/4/013
10	I6813365	CJ12	6/4/013	27	I6813382	EJ05	6/4/013
11	I6813366	CJ13	6/4/013	28	I6813383	EJ06	6/4/013
12	I6813367	CJ14	6/4/013	29	I6813384	F01	6/4/013
13	I6813368	CJ15	6/4/013	30	I6813385	F02	6/4/013
14	I6813369	CJ16	6/4/013	31	I6813386	F03	6/4/013
15	I6813370	CJ17	6/4/013	32	I6813387	F04	6/4/013
16	I6813371	CJ18	6/4/013	33	I6813388	F06	6/4/013
17	I6813372	CJ19	6/4/013	34	I6813389	F07	6/4/013

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Jax).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2015.

**NOTE:** 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 Chapter 2.



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**Site Information:**

Project Customer: Dreambuilder Custom Homes Project Name: 492601 Model: Custom  
Lot/Block: 179-2 Subdivision: Pablo Creek Reserve  
Address:  
City: Duval State: Florida

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
35	I6813390	F08	6/4/013	78	I6813433	T31	6/4/013
36	I6813391	F09	6/4/013	79	I6813434	T32	6/4/013
37	I6813392	HJ01	6/4/013	80	I6813435	T33	6/4/013
38	I6813393	HJ02	6/4/013	81	I6813436	T40	6/4/013
39	I6813394	HJ03	6/4/013	82	I6813437	T41	6/4/013
40	I6813395	HJ04	6/4/013	83	I6813438	T42	6/4/013
41	I6813396	HJ05	6/4/013	84	I6813439	T43	6/4/013
42	I6813397	HJ06	6/4/013	85	I6813440	T44	6/4/013
43	I6813398	HJ07	6/4/013	86	I6813441	T45	6/4/013
44	I6813399	HJ08	6/4/013	87	I6813442	T46	6/4/013
45	I6813400	HJ09	6/4/013	88	I6813443	T47	6/4/013
46	I6813401	HJ10	6/4/013	89	I6813444	TG50	6/4/013
47	I6813402	P01	6/4/013				
48	I6813403	T01	6/4/013				
49	I6813404	T02	6/4/013				
50	I6813405	T03	6/4/013				
51	I6813406	T04	6/4/013				
52	I6813407	T05	6/4/013				
53	I6813408	T06	6/4/013				
54	I6813409	T07	6/4/013				
55	I6813410	T08	6/4/013				
56	I6813411	T09	6/4/013				
57	I6813412	T10	6/4/013				
58	I6813413	T11	6/4/013				
59	I6813414	T12	6/4/013				
60	I6813415	T13	6/4/013				
61	I6813416	T14	6/4/013				
62	I6813417	T15	6/4/013				
63	I6813418	T16	6/4/013				
64	I6813419	T17	6/4/013				
65	I6813420	T18	6/4/013				
66	I6813421	T19	6/4/013				
67	I6813422	T20	6/4/013				
68	I6813423	T21	6/4/013				
69	I6813424	T22	6/4/013				
70	I6813425	T23	6/4/013				
71	I6813426	T24	6/4/013				
72	I6813427	T25	6/4/013				
73	I6813428	T26	6/4/013				
74	I6813429	T27	6/4/013				
75	I6813430	T28	6/4/013				
76	I6813431	T29	6/4/013				
77	I6813432	T30	6/4/013				

Job 492601	Truss CJ01	Truss Type Jack-Open Truss	Qty 6	Ply 1	Job Reference (optional) 6813356
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:16 2013 Page 1  
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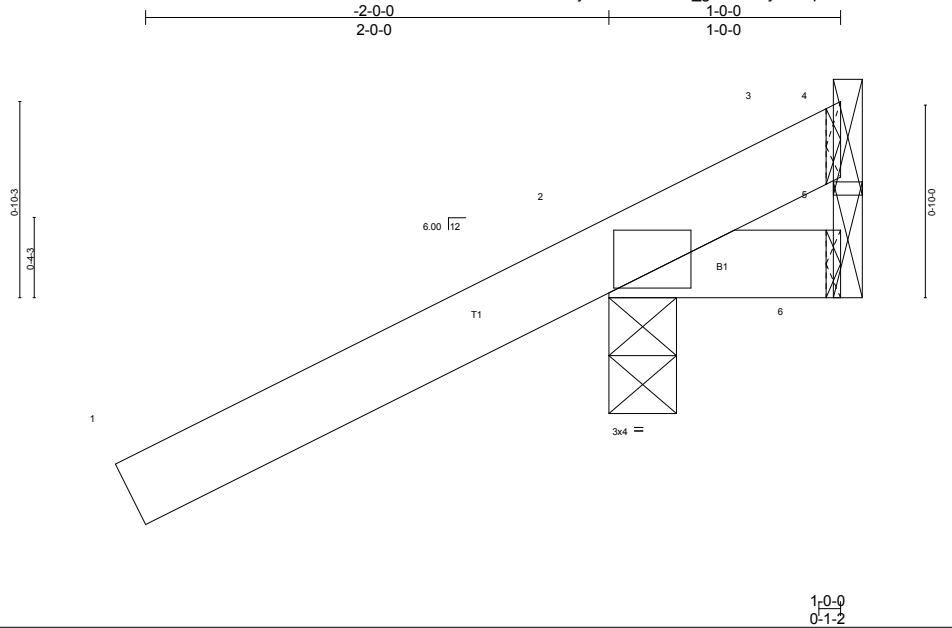


Plate Offsets (X,Y): [2:0-4-4,0-0-4]

<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	Plates Increase 1.25	TC 0.35	Vert(LL) -0.00 2 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.01	Vert(TL) -0.00 2 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 3 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 7 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-0-0 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.

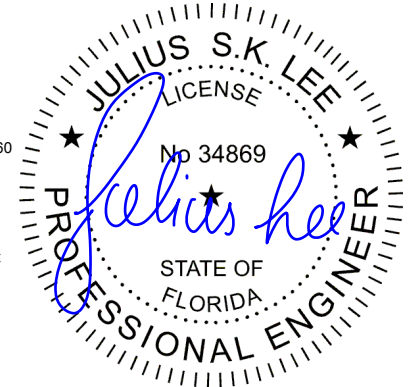
**REACTIONS** (lb/size) 2=306/0-3-8 (min. 0-1-8), 3=-119/Mechanical, 6=6/Mechanical  
Max Horz 2=68(LC 12)  
Max Uplift 2=-182(LC 12), 3=-139(LC 2), 6=-6(LC 8)  
Max Grav 2=356(LC 2), 3=75(LC 12), 6=19(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2, 139 lb uplift at joint 3 and 6 lb uplift at joint 6.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

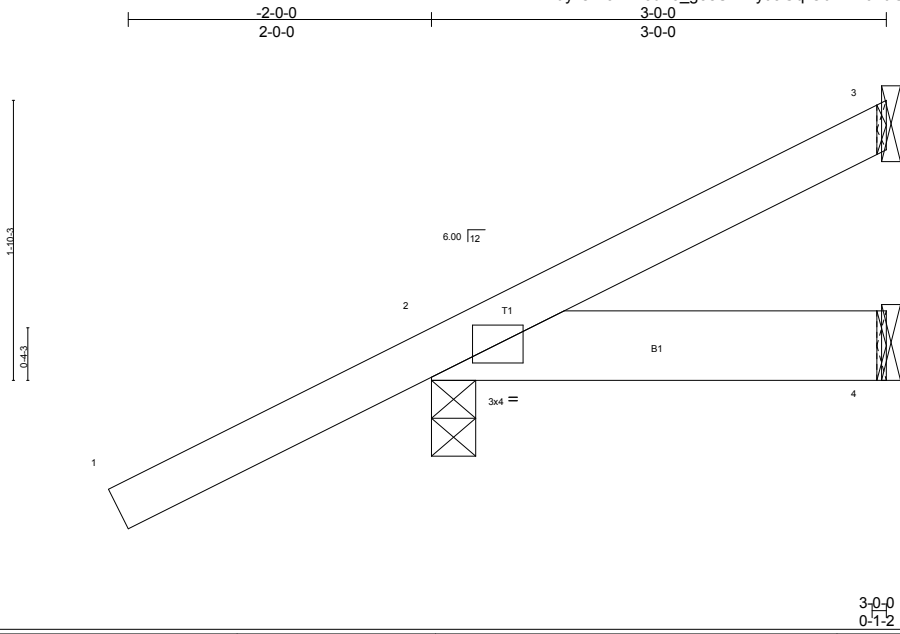
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss CJ02	Truss Type Jack-Open Truss	Qty 3	Ply 1	Job Reference (optional) 16813357
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:17 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDYuaGq-OuLDK61uGDnziv6gj6Hg6yHa47w9RmJPHo7XtUz9iqK



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.40 BC 0.04 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2-4 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 16 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-0-0 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) 3=31/Mechanical, 2=283/0-3-8 (min. 0-1-8), 4=14/Mechanical  
 Max Horz 2=114(LC 12)  
 Max Uplift 3=36(LC 12), 2=-141(LC 12), 4=-24(LC 8)  
 Max Grav 3=37(LC 21), 2=328(LC 2), 4=42(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3, 141 lb uplift at joint 2 and 24 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

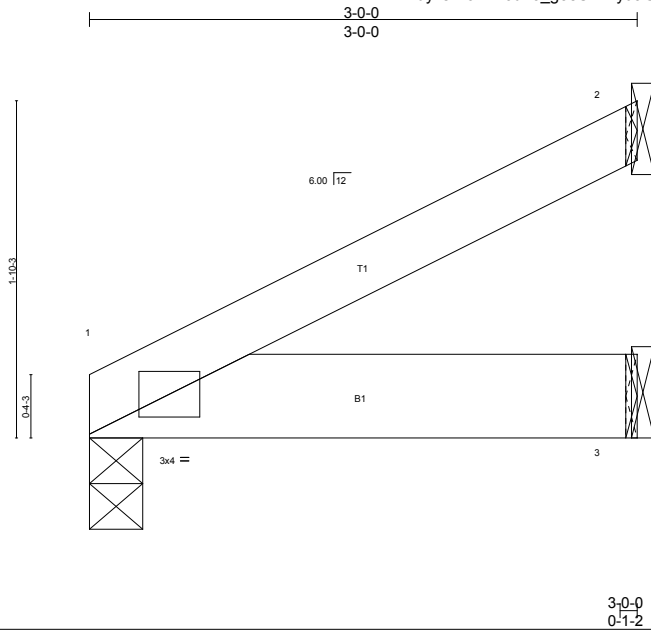


**LOAD CASE(S)** Standard

June 4, 2013

Job 492601	Truss CJ03	Truss Type Jack-Open Truss	Qty 3	Ply 1	Job Reference (optional) 16813358
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:18 2013 Page 1  
 ID:idyzswioVL?Jd1o\_g5eSWDyuaGq-s5ubYS1X1XvqJ2htHqove9qpFXGOADZZWSs4Qwz9iqJ



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.15 BC 0.04 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 1 >999 240 Vert(TL) -0.00 1-3 >999 180 Horz(TL) -0.00 2 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 12 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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.

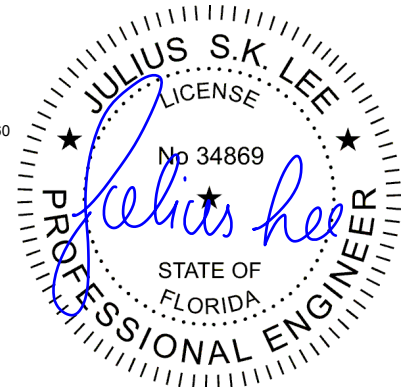
**REACTIONS** (lb/size) 1=98/0-3-8 (min. 0-1-8), 2=84/Mechanical, 3=14/Mechanical  
Max Horz 1=69(LC 12)  
Max Uplift 1=-43(LC 9), 2=-74(LC 12), 3=-24(LC 8)  
Max Grav 1=112(LC 2), 2=98(LC 2), 3=42(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 74 lb uplift at joint 2 and 24 lb uplift at joint 3.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

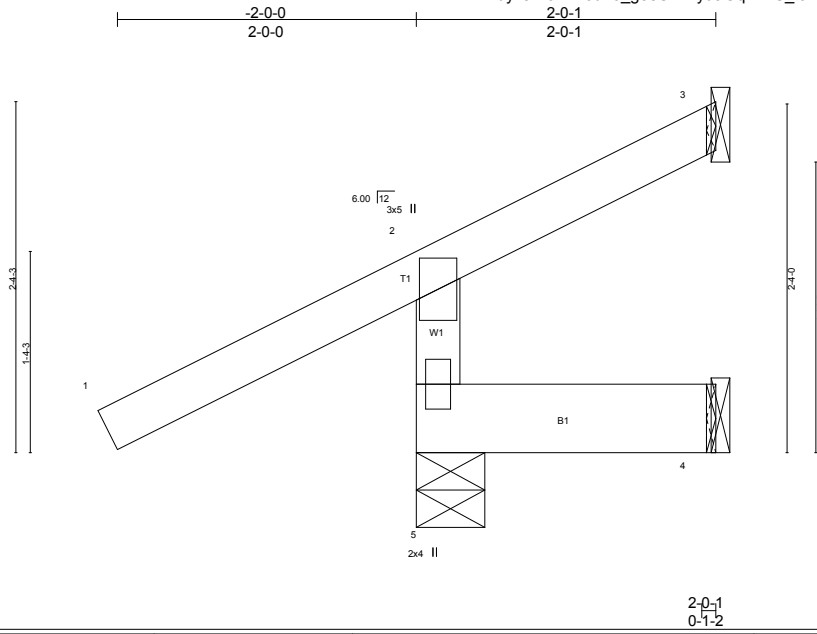
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Job 492601	Truss CJ04	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 6813359
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:19 2013 Page 1  
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Scale = 1:15.4

<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.42 BC 0.04 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.00 5 >999 240 Vert(TL) 0.00 5 >999 180 Horz(TL) -0.01 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 13 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-0-1 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=277/0-5-8 (min. 0-1-8), 3=-4/Mechanical, 4=-15/Mechanical  
 Max Horz 5=90(LC 12)  
 Max Uplift 5=-101(LC 12), 3=-23(LC 12), 4=-20(LC 23)  
 Max Grav 5=322(LC 2), 3=9(LC 8), 4=14(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-5=-301/273

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 5, 23 lb uplift at joint 3 and 20 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



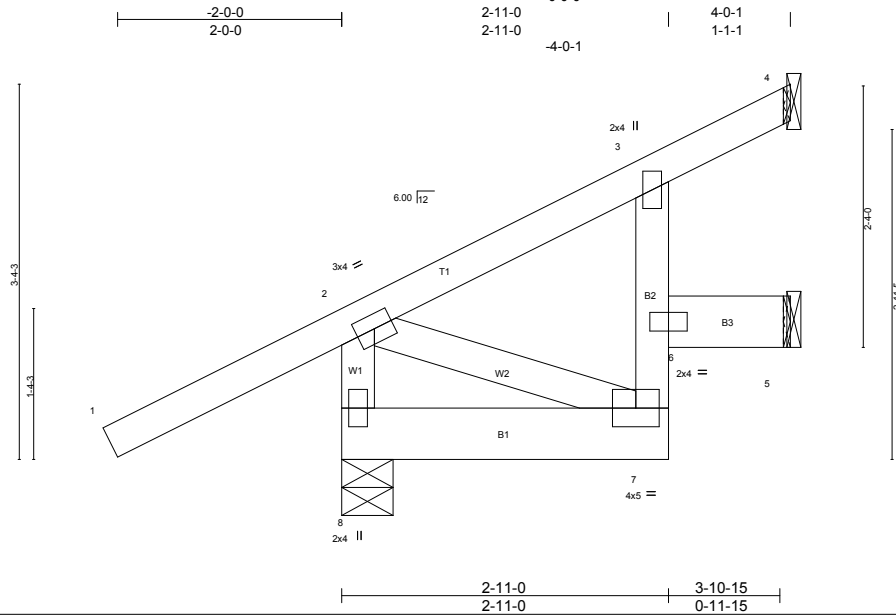
June 4, 2013

Job 492601	Truss CJ05	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 6813360
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:20 2013 Page 1

ID: idyzswioVL?Jd1o\_g5eSWDyuaGq-oT0My83nZ89YZMrFOFqNjav55Ky9e6urzmlBUoz9iqH



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.41 BC 0.02 WB 0.08 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.04 7 >999 240 Vert(TL) -0.04 7 >999 180 Horz(TL) -0.02 4 n/a n/a	<b>PLATES</b> <b>GRIP</b> MT20 244/190 Weight: 27 lb FT = 20%
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<b>LUMBER</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* WEBS 2x4 SP No.3	<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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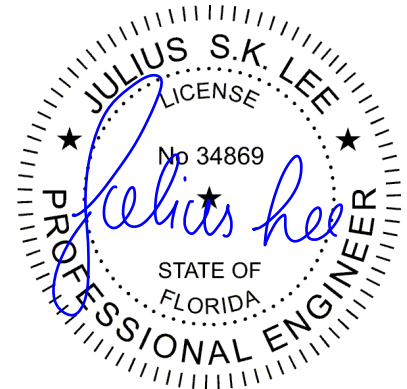
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 8=304/0-5-8 (min. 0-1-8), 4=88/Mechanical, 5=6/Mechanical  
Max Horz 8=121(LC 12)  
Max Uplift 8=108(LC 12), 4=99(LC 12)  
Max Grav 8=352(LC 2), 4=101(LC 2), 5=18(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-344/260  
WEBS 2-7=-102/255

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 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.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 8 and 99 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



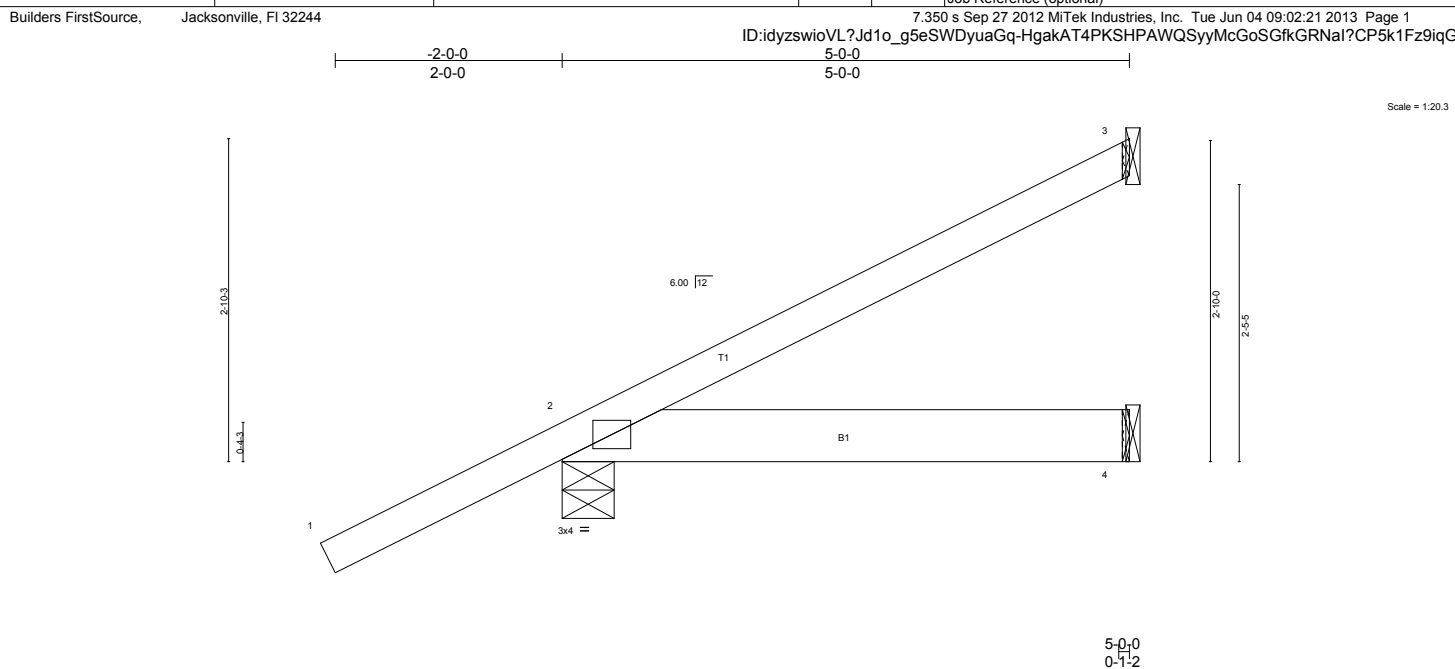
June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss CJ08	Truss Type Jack-Open Truss	Qty 1	Ply 1	Job Reference (optional)	16813361
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7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:21 2013 Page 1  
 ID:idyzswioVL?Jd1o\_g5eSWDyuaGq-HgakAT4PKSHPAWQSyMcGoSGfkGRNaI?CP5k1Fz9iqG



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.42 BC 0.08 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 2-4 >999 240 Vert(TL) -0.01 2-4 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 24 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-0-0 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.

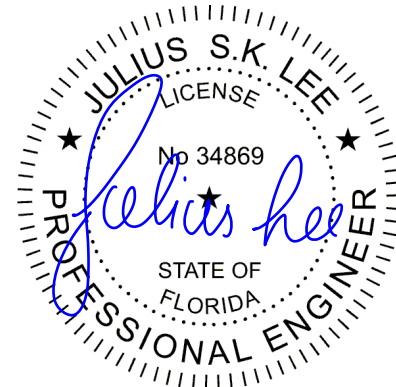
**REACTIONS** (lb/size) 3=108/Mechanical, 2=336/0-5-8 (min. 0-1-8), 4=24/Mechanical  
 Max Horz 2=163(LC 12)  
 Max Uplift 3=101(LC 12), 2=150(LC 12)  
 Max Grav 3=126(LC 2), 2=388(LC 2), 4=71(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 3 and 150 lb uplift at joint 2.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss CJ09	Truss Type Jack-Open Truss	Qty 1	Ply 1	Job Reference (optional) i6813362
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:22 2013 Page 1  
ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-Is86Np515IPGog?eWgtrp??Q88cZ61Y8R3qIzh9iqF

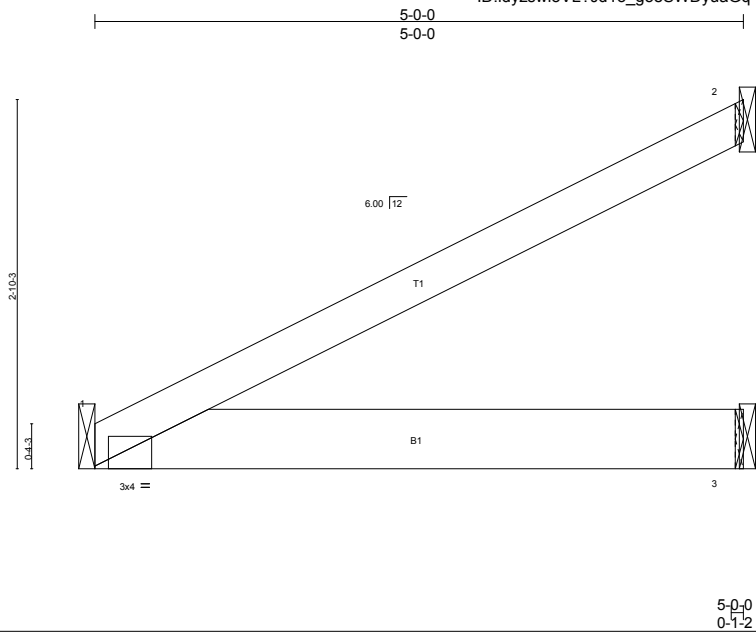


Plate Offsets (X,Y): [1:0-1-4,Edge]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.09	Vert(LL) -0.01 1-3 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.02 1-3 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 2 n/a n/a		
	Code FBC2010/TPI2007			Weight: 20 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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) 1=171/Mechanical, 2=146/Mechanical, 3=24/Mechanical  
Max Horz 1=118(LC 12)  
Max Uplift 1=-54(LC 12), 2=-127(LC 12)  
Max Grav 1=195(LC 2), 2=171(LC 2), 3=73(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1 and 127 lb uplift at joint 2.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

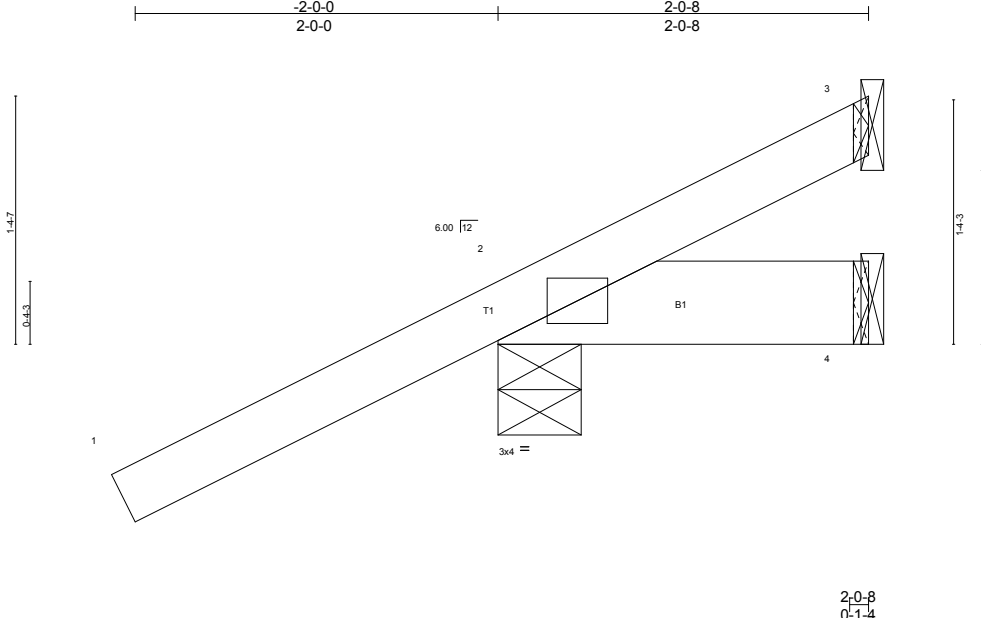
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss CJ10	Truss Type Jack-Open Truss	Qty 1	Ply 1	Job Reference (optional) 16813363
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:23 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.42 BC 0.01 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 244/190 Weight: 12 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-0-8 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) 3=-38/Mechanical, 2=289/0-5-8 (min. 0-1-8), 4=9/Mechanical  
 Max Horz 2=91(LC 12)  
 Max Uplift 3=-44(LC 2), 2=-158(LC 12)  
 Max Grav 3=35(LC 8), 2=336(LC 2), 4=26(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 158 lb uplift at joint 2.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

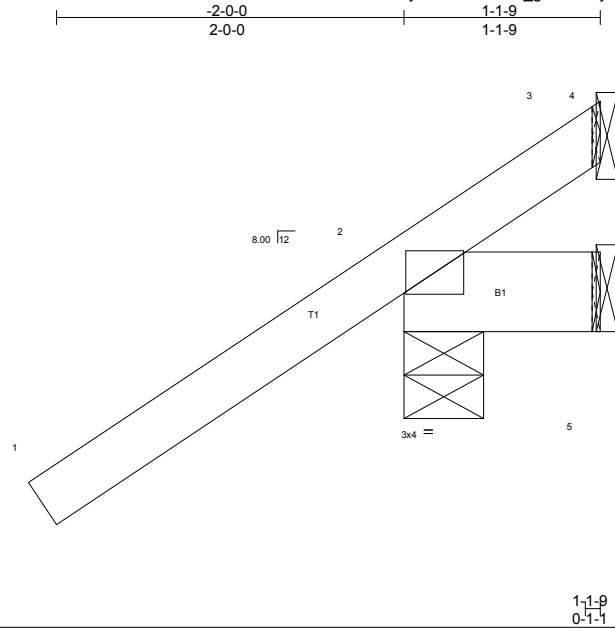
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss CJ11	Truss Type Jack-Open Truss	Qty 1	Ply 1	Job Reference (optional) 6813364
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:23 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.36 BC 0.00 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 244/190 Weight: 9 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-1-9 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.

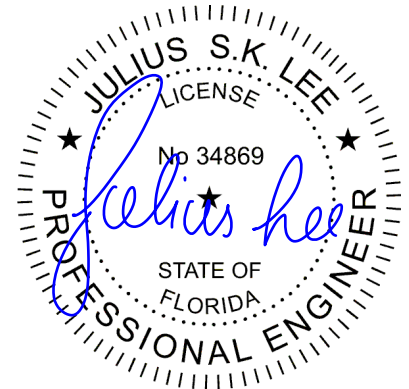
**REACTIONS** (lb/size) 2=299/0-5-8 (min. 0-1-8), 5=5/Mechanical, 3=-102/Mechanical  
 Max Horz 2=97(LC 12)  
 Max Uplift 2=-172(LC 12), 3=-119(LC 2)  
 Max Grav 2=347(LC 2), 5=16(LC 3), 3=60(LC 12)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2 and 119 lb uplift at joint 3.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

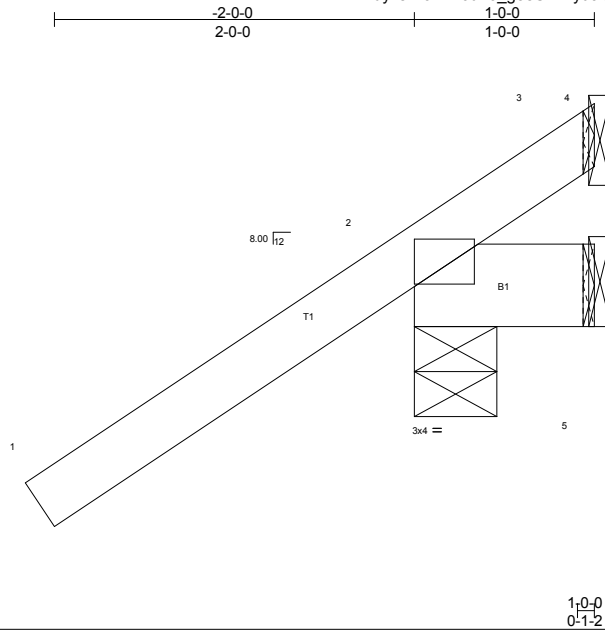
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss CJ12	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 68813365
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:24 2013 Page 1

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Scale = 1:12.8

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

<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	Plates Increase 1.25	TC 0.36	Vert(LL) -0.00 2 >999 240	MT20 244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.00	Vert(TL) -0.00 2 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 3 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 8 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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.

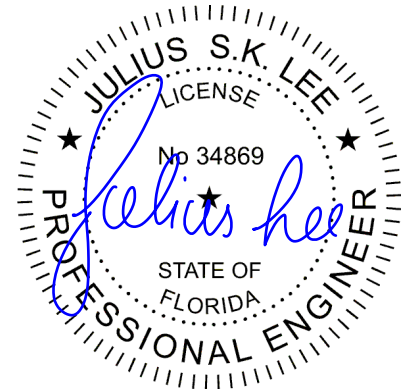
**REACTIONS** (lb/size) 2=315/0-5-8 (min. 0-1-8), 5=5/Mechanical, 3=-127/Mechanical  
Max Horz 2=92(LC 12)  
Max Uplift 2=-188(LC 12), 3=-149(LC 2)  
Max Grav 2=367(LC 2), 5=14(LC 3), 3=80(LC 12)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 149 lb uplift at joint 3.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

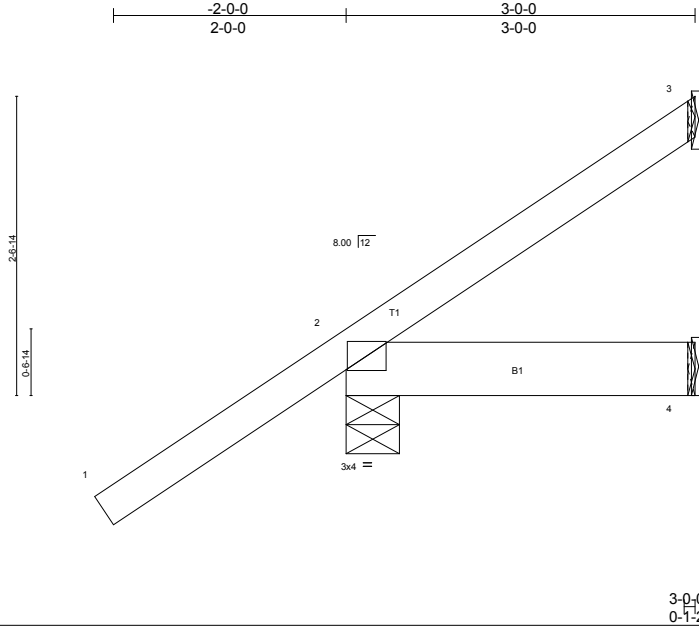
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss CJ13	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 16813366
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:25 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-9RpF0r7wOgorf7kDBoQYQedyZLfJJOlb713yA0z9iqC



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.43 BC 0.03 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2-4 >999 180 Horz(TL) 0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 16 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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.

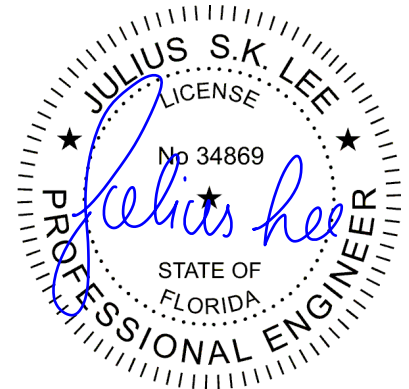
**REACTIONS** (lb/size) 3=22/Mechanical, 2=293/0-5-8 (min. 0-1-8), 4=14/Mechanical  
 Max Horz 2=154(LC 12)  
 Max Uplift 3=51(LC 12), 2=127(LC 12)  
 Max Grav 3=41(LC 21), 2=339(LC 2), 4=41(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 127 lb uplift at joint 2.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

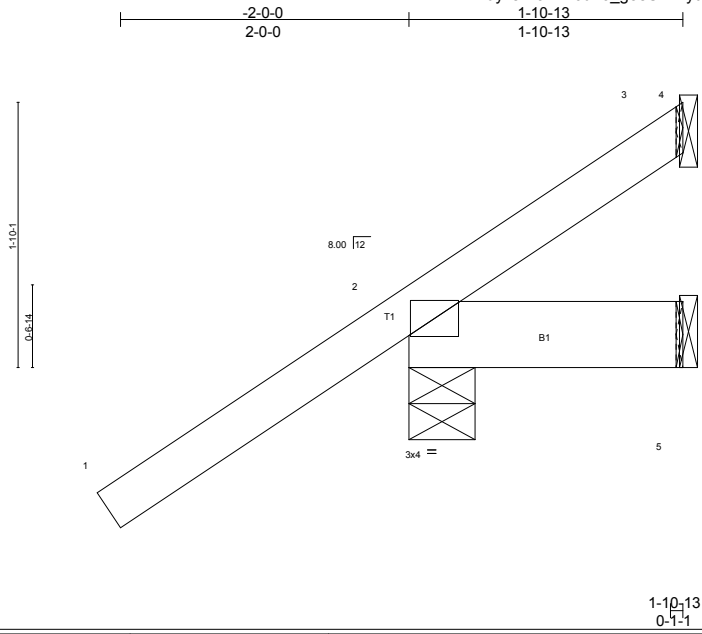
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss CJ14	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 16813367
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:26 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-ddNdDB8Y9\_wiHHIPVxnzr98II?f2rYkMhoViSz9iqB



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.36 BC 0.02 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2 >999 180 Horz(TL) 0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 12 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 1-10-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size) 2=266/0-5-8 (min. 0-1-8), 5=9/Mechanical, 3=-19/Mechanical  
 Max Horz 2=122(LC 12)  
 Max Uplift 2=-131(LC 12), 5=-16(LC 8), 3=-23(LC 2)  
 Max Grav 2=309(LC 2), 5=28(LC 3), 3=27(LC 8)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2, 16 lb uplift at joint 5 and 23 lb uplift at joint 3.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

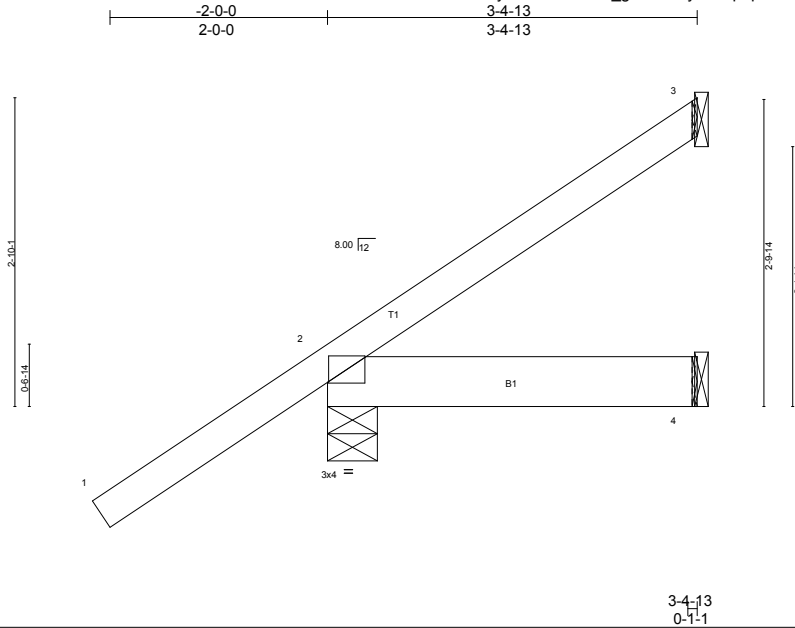
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss CJ15	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 16813368
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:27 2013 Page 1  
 ID: idyzswioVL?Jd1o\_g5eSWDyuaGq-5px?QX8AwI2YuRtbJDT0W3il39LKnlotLY2Evz9iqA



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.43 BC 0.05 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2-4 >999 240 Vert(TL) -0.00 2-4 >999 180 Horz(TL) 0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 18 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-4-13 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) 3=42/Mechanical, 2=299/0-5-8 (min. 0-1-8), 4=16/Mechanical  
 Max Horz 2=167(LC 12)  
 Max Uplift 3=69(LC 12), 2=124(LC 12), 4=-27(LC 8)  
 Max Grav 3=66(LC 21), 2=346(LC 2), 4=47(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 3, 124 lb uplift at joint 2 and 27 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

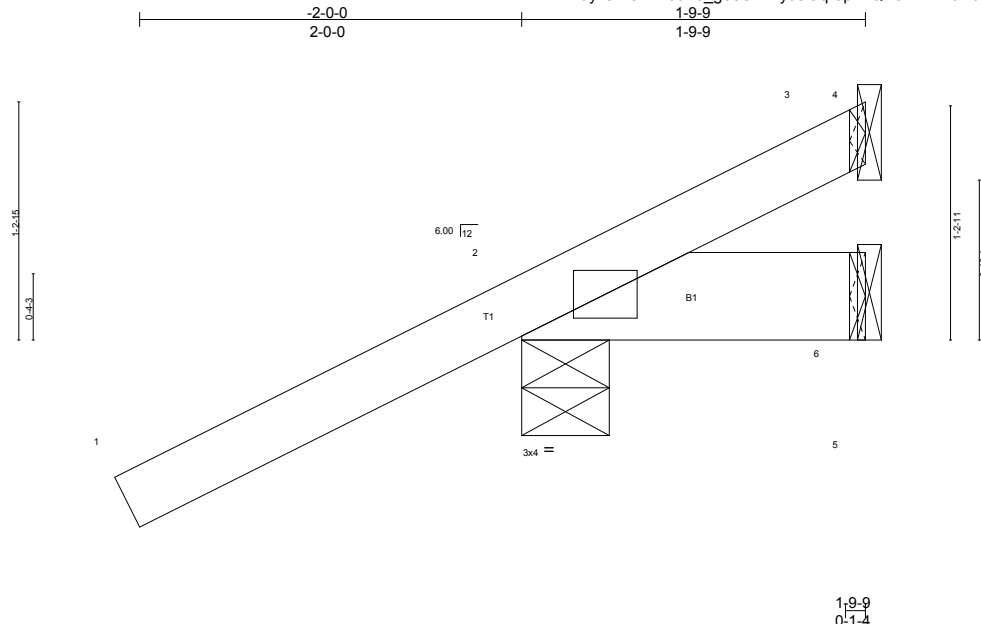
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss CJ16	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 16813369
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:27 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.37 BC 0.01 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 11 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 1-9-9 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=265/0-5-8 (min. 0-1-8), 3=-27/Mechanical, 6=10/Mechanical  
 Max Horz 2=87(LC 12)  
 Max Uplift 2=-147(LC 12), 3=-32(LC 2), 6=-13(LC 8)  
 Max Grav 2=308(LC 2), 3=33(LC 8), 6=30(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2, 32 lb uplift at joint 3 and 13 lb uplift at joint 6.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

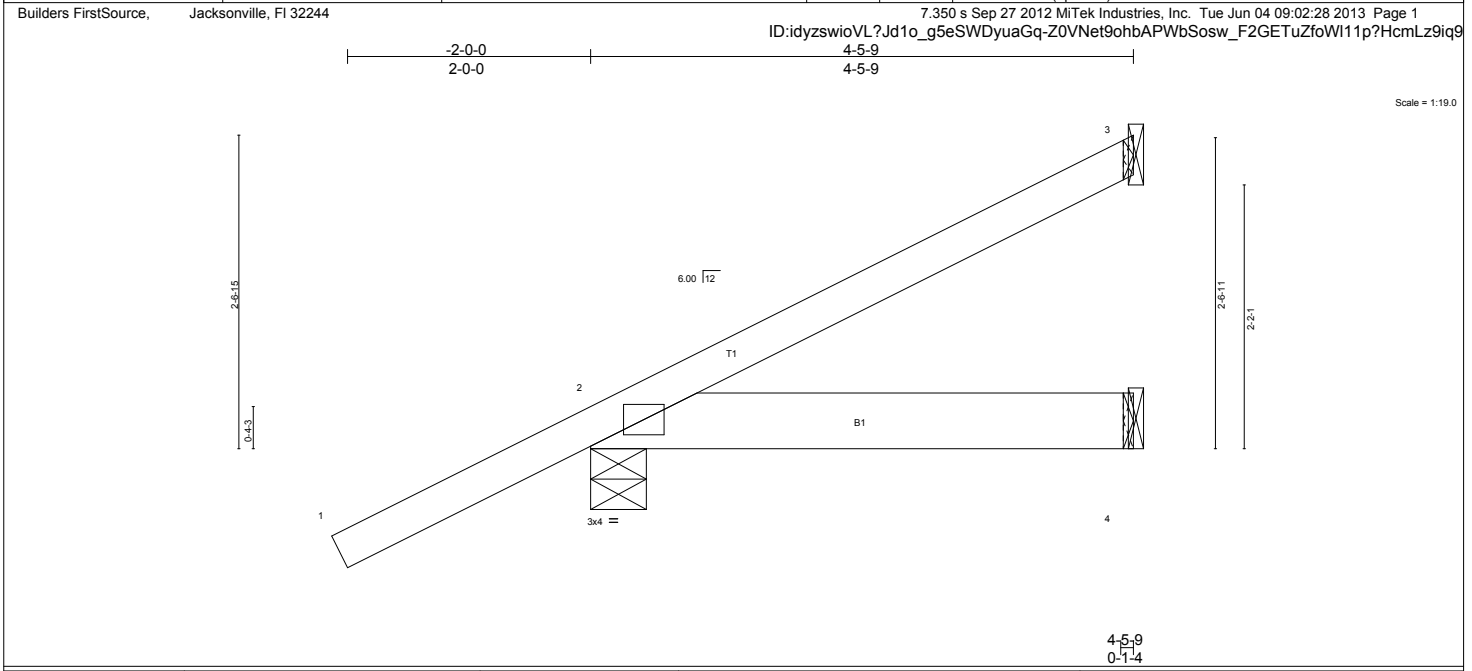


**LOAD CASE(S)** Standard

June 4, 2013



Job 492601	Truss CJ17	Truss Type Jack-Open Truss	Qty 1	Ply 1	Job Reference (optional)	16813370
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.42 BC 0.10 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.02 2-4 >999 240 Vert(TL) -0.01 2-4 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 21 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-9 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) 3=87/Mechanical, 2=322/0-5-8 (min. 0-1-8), 4=21/Mechanical  
 Max Horz 2=150(LC 12)  
 Max Uplift 3=84(LC 12), 2=147(LC 12), 4=36(LC 8)  
 Max Grav 3=102(LC 2), 2=372(LC 2), 4=63(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 3, 147 lb uplift at joint 2 and 36 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

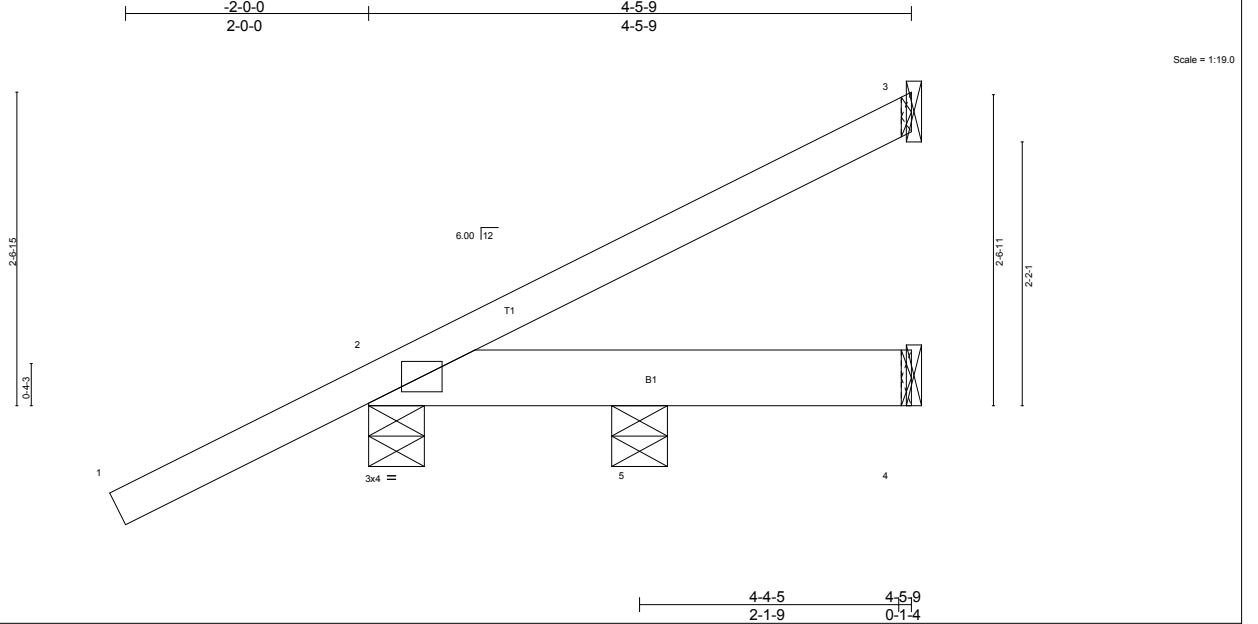
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss CJ18	Truss Type Jack-Open Truss	Qty 1	Ply 1	Job Reference (optional)	16813371
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.42 BC 0.02 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(TL) -0.00 5 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 21 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-9 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

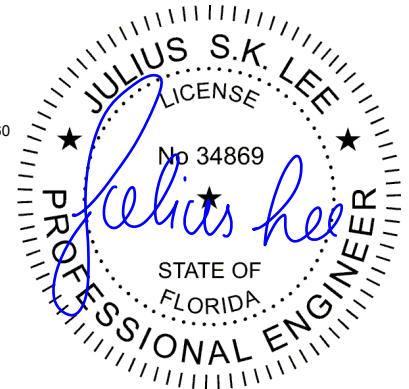
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings Mechanical except (jt=length) 2=0-5-8, 5=0-5-8.  
 (lb) - Max Horz 2=150(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 3, 5 except 2=156(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 3, 4, 5 except 2=358(LC 2)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5 except (jt=l) 2=156.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

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June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

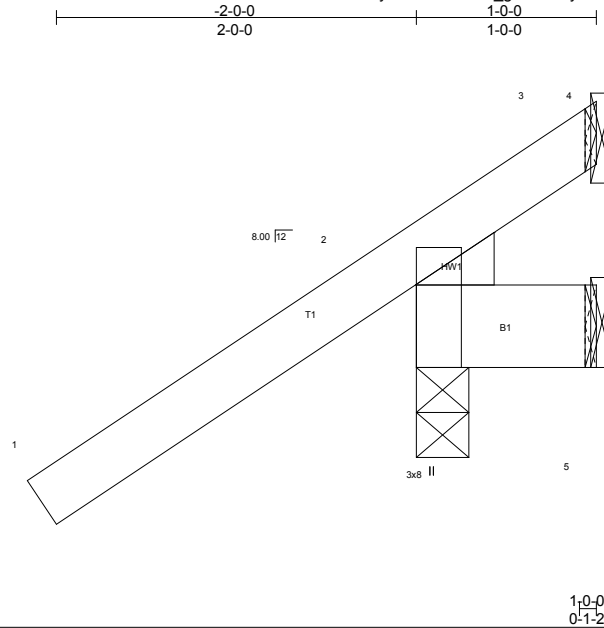
Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss CJ19	Truss Type Jack-Open Truss	Qty 4	Ply 1	16813372
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Builders FirstSource, Jacksonville, FL 32244

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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.33 BC 0.00 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(TL) -0.00 2 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 244/190 Weight: 9 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEDGE  
Left: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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.

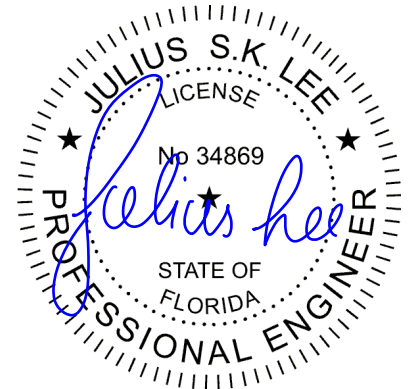
**REACTIONS** (lb/size) 5=5/Mechanical, 2=298/0-3-8 (min. 0-1-8), 3=-110/Mechanical  
Max Horz 2=94(LC 12)  
Max Uplift 2=-153(LC 12), 3=-129(LC 2)  
Max Grav 5=15(LC 3), 2=347(LC 2), 3=45(LC 12)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=153, 3=129.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

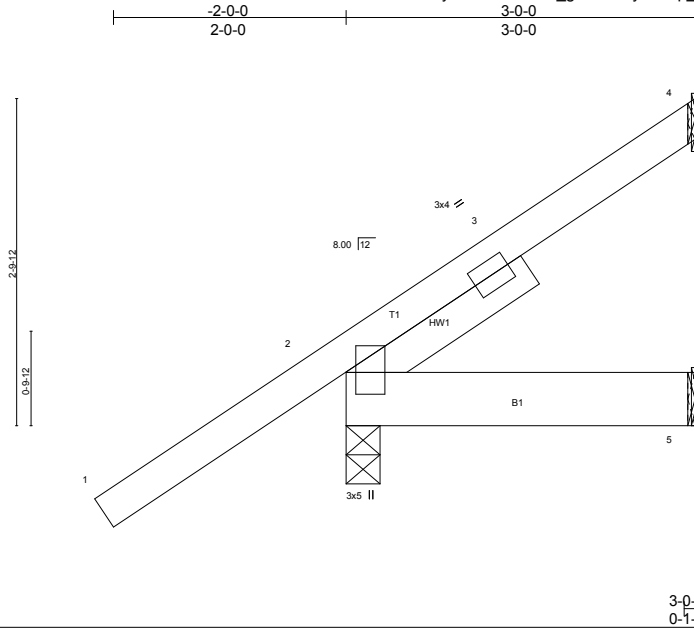
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss CJ20	Truss Type Jack-Open Truss	Qty 4	Ply 1	Job Reference (optional) i6813373
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:31 2013 Page 1  
ID:idywswioVL?Jd1o\_g5eSWDyuaGq\_bBWGuCgzWY\_N2BNY3Xygs?Vmidj5nTvZwGNgz9iq6



Scale = 1:19.8

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

<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	Plates Increase 1.25	TC 0.33	Vert(LL) -0.00 2-5 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.03	Vert(TL) -0.00 2-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.01 4 n/a n/a		
BCDL 5.0	Code FBC2010/TP12007	(Matrix)			
				Weight: 19 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
SLIDER Left 2x4 SP No.3 1-9-11

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

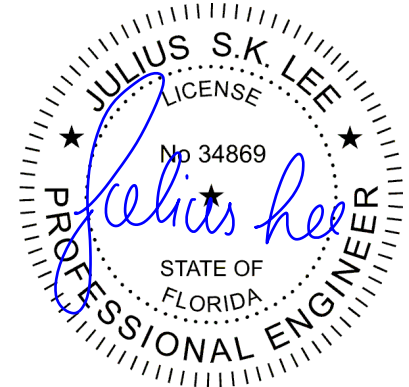
**REACTIONS** (lb/size) 4=44/Mechanical, 2=272/0-3-8 (min. 0-1-8), 5=15/Mechanical  
Max Horz 2=156(LC 12)  
Max Uplift 4=-74(LC 12), 2=-104(LC 12)  
Max Grav 4=69(LC 21), 2=315(LC 2), 5=44(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2=104.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

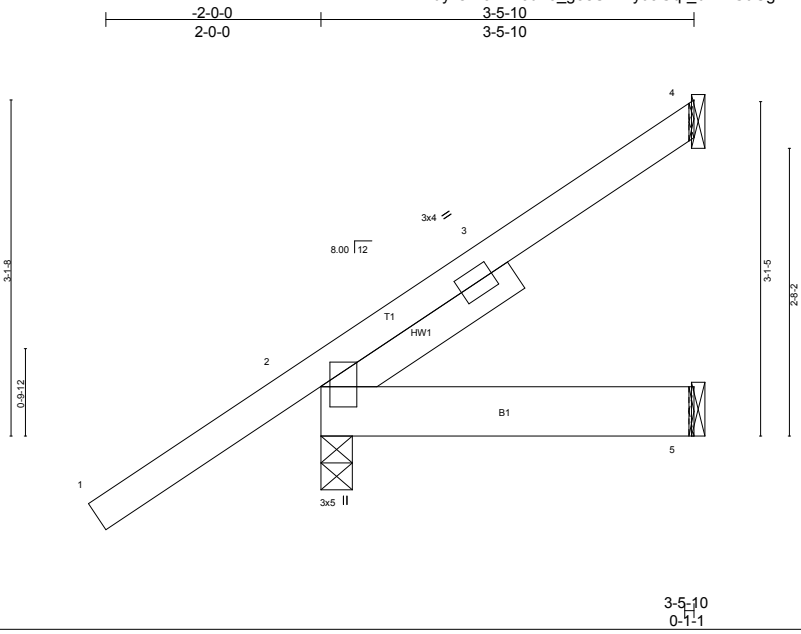
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss CJ21	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) i6813374
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7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:31 2013 Page 1  
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Builders FirstSource, Jacksonville, FL 32244



Scale = 1:21.4

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

<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	Plates Increase 1.25	TC 0.33	Vert(LL) -0.00 2-5 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.04	Vert(TL) -0.00 2-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.01 4 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 21 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 4=64/Mechanical, 2=282/0-3-8 (min. 0-1-8), 5=17/Mechanical  
 Max Horz 2=171(LC 12)  
 Max Uplift 4=93(LC 12), 2=103(LC 12)  
 Max Grav 4=94(LC 21), 2=326(LC 2), 5=51(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2=103.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

June 4, 2013

Job 492601	Truss CJ22	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) 6813375
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:32 2013 Page 1  
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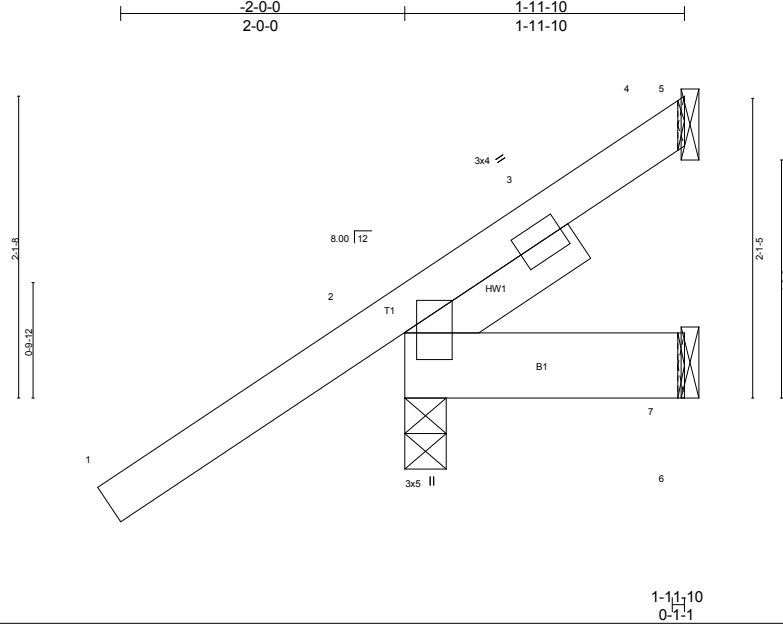


Plate Offsets (X,Y): [2-0-2-4,0-1-0]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.33	Vert(LL) -0.00 2 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.01	Vert(TL) -0.00 2 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 4 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 14 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-10 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-4-9	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=260/0-3-8 (min. 0-1-8), 4=-8/Mechanical, 7=11/Mechanical  
 Max Horz 2=126(LC 12)  
 Max Uplift 2=-111(LC 12), 4=-33(LC 12)  
 Max Grav 2=301(LC 2), 4=25(LC 8), 7=33(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2=111.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

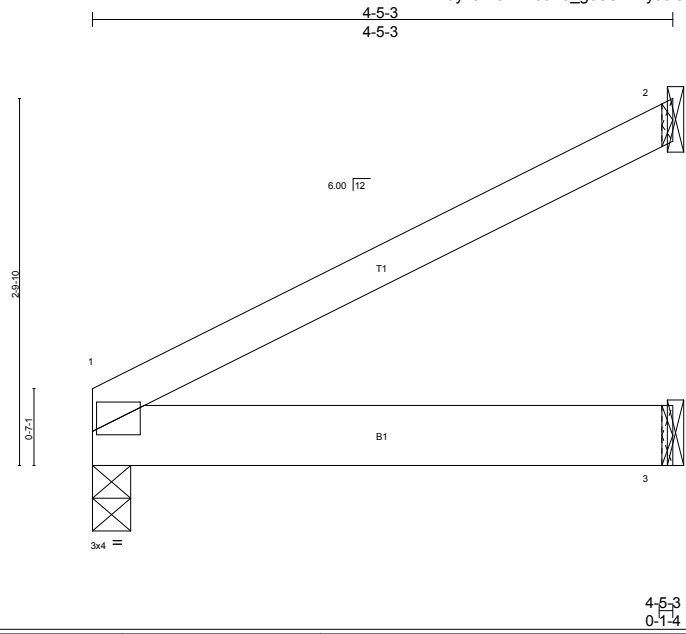


**LOAD CASE(S)** Standard

June 4, 2013

Job 492601	Truss CJ23	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional)	16813376
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:33 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.37 BC 0.07 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 1-3 >999 240 Vert(TL) -0.01 1-3 >999 180 Horz(TL) -0.00 2 n/a n/a	<b>PLATES</b> MT20 Weight: 18 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-3 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=148/0-3-8 (min. 0-1-8), 2=127/Mechanical, 3=21/Mechanical  
 Max Horz 1=116(LC 12)  
 Max Uplift 1=-40(LC 12), 2=-118(LC 12)  
 Max Grav 1=169(LC 2), 2=148(LC 2), 3=63(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 2=118.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

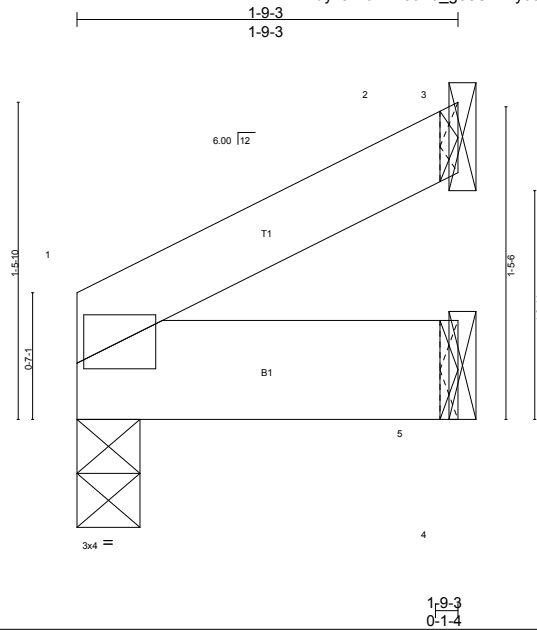
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss CJ24	Truss Type Jack-Open Truss	Qty 2	Ply 1	Job Reference (optional) i6813377
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:34 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 2-0-0 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.05 BC 0.01 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 1 >999 240 Vert(TL) -0.00 1 >999 180 Horz(TL) -0.00 2 n/a n/a	<b>PLATES</b> <b>GRIP</b> MT20 244/190 Weight: 7 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-9-3 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.

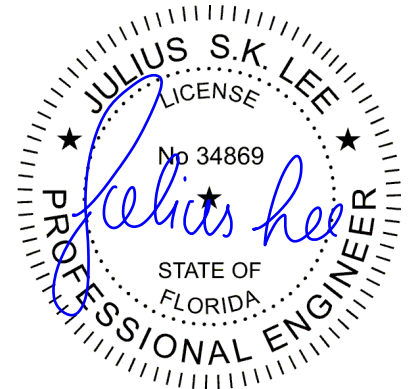
**REACTIONS** (lb/size) 1=57/0-3-8 (min. 0-1-8), 2=54/Mechanical, 5=10/Mechanical  
 Max Horz 1=53(LC 12)  
 Max Uplift 1=-10(LC 12), 2=-56(LC 12)  
 Max Grav 1=65(LC 2), 2=62(LC 2), 5=30(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

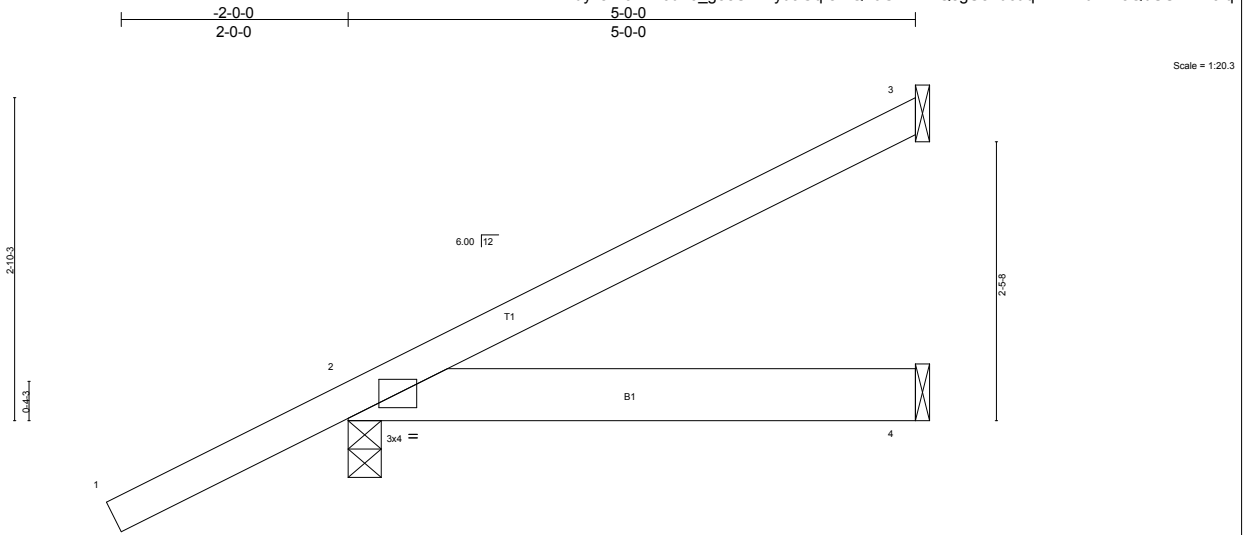
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss EJ01	Truss Type Jack-Partial Truss	Qty 8	Ply 1	Job Reference (optional) 6813378
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.40 BC 0.14 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.03 2-4 >999 240 Vert(TL) 0.02 2-4 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 24 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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) 3=113/Mechanical, 2=331/0-3-8 (min. 0-1-8), 4=24/Mechanical  
 Max Horz 2=163(LC 12)  
 Max Uplift 3=104(LC 12), 2=148(LC 12), 4=41(LC 8)  
 Max Grav 3=132(LC 2), 2=382(LC 2), 4=72(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 3=104, 2=148.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

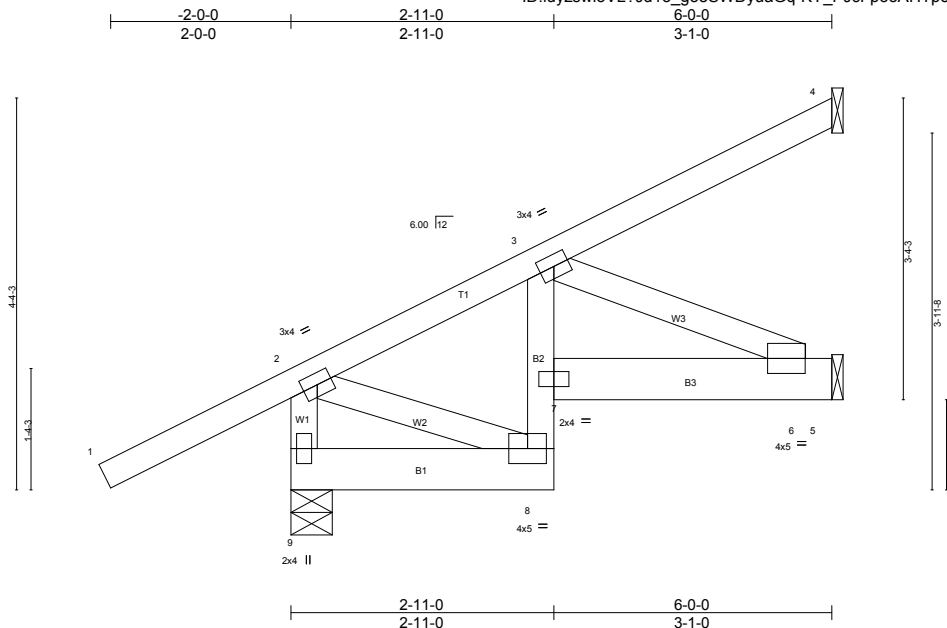
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss EJ02	Truss Type Jack-Partial Truss	Qty 1	Ply 1	Job Reference (optional) 6813379
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:36 2013 Page 1  
ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-KY\_PJcFp03AHTp3KkC77NyqCnISOLVCfFD12tz9iq



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.40 BC 0.50 WB 0.10 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.03 8 >999 240 Vert(TL) -0.03 7 >999 180 Horz(TL) -0.03 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 40 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2 \*Except\*  
                  B2: 2x4 SP No.3  
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, Except:  
6-0-0 oc bracing: 7-8.

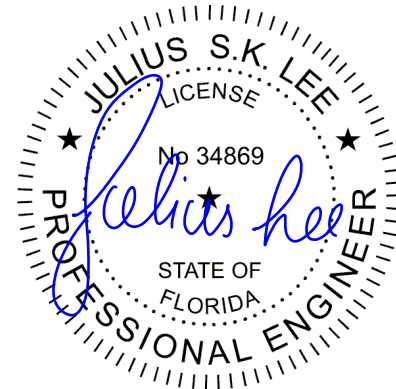
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 9=361/0-5-8 (min. 0-1-8), 4=91/Mechanical, 5=86/Mechanical  
Max Horz 9=170(LC 12)  
Max Uplift 9=-124(LC 12), 4=-79(LC 12), 5=-69(LC 3)  
Max Grav 9=416(LC 2), 4=106(LC 2), 5=113(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-9=-413/283  
BOT CHORD 8-9=-304/119, 6-7=-299/287  
WEBS 3-6=-315/329

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 9=124.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



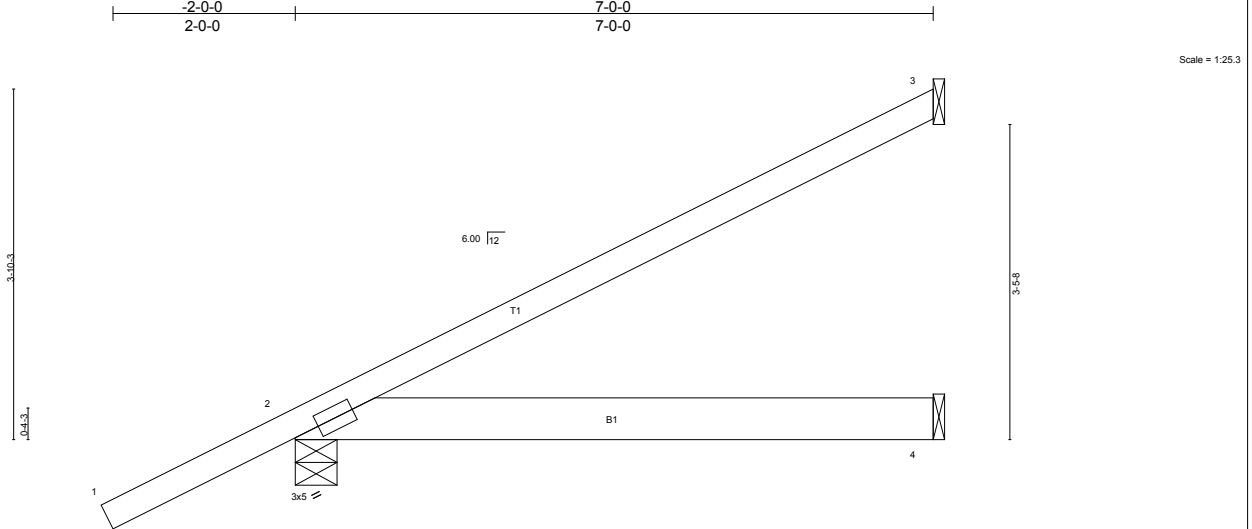
June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss EJ03	Truss Type Jack-Partial Truss	Qty 3	Ply 1	Job Reference (optional) 6813380
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:37 2013 Page 1  
 ID: idyzswioVL?Jd1o\_g5eSWDYuaGq-plYnXyGRZMI85zeWuJeMwA6yCBgO7pGMtvzabJz9iq0



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.58 BC 0.33 WB 0.00 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.07 4-6 >999 240 Vert(TL) -0.10 4-6 >839 180 Horz(TL) 0.00 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 32 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2

**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.

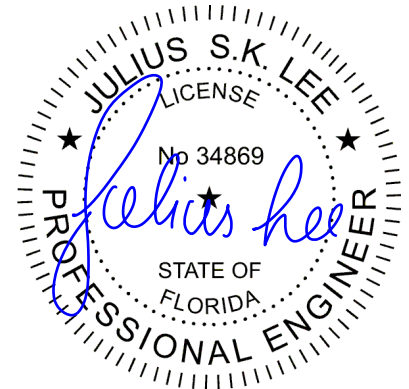
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 3=154/Mechanical, 2=385/0-5-8 (min. 0-1-8), 4=70/Mechanical  
 Max Horz 2=145(LC 12)  
 Max Uplift 3=85(LC 12), 2=84(LC 12), 4=4(LC 12)  
 Max Grav 3=180(LC 2), 2=444(LC 2), 4=117(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-299/168

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



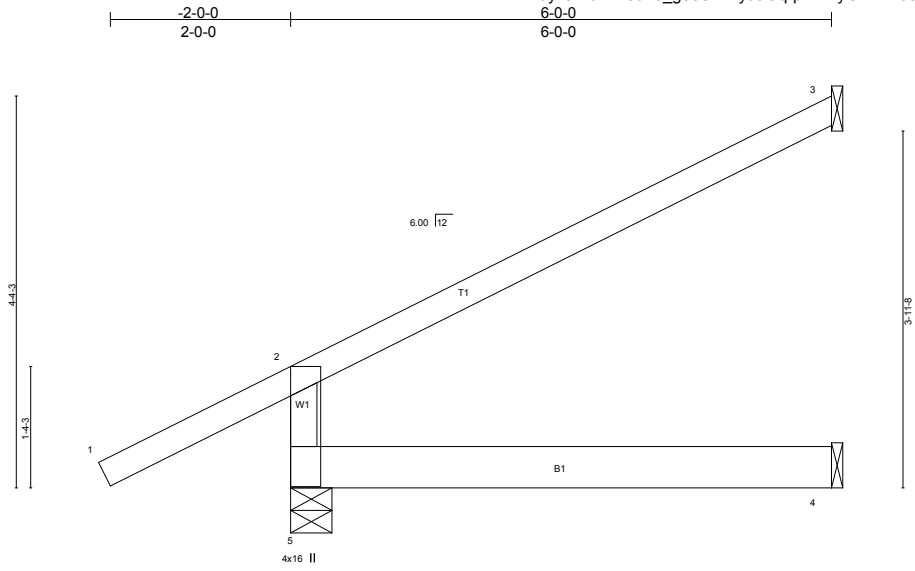
June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss EJ04	Truss Type Jack-Partial Truss	Qty 1	Ply 1	Job Reference (optional)	16813381
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:37 2013 Page 1  
 ID: idyzswioVL?Jd1o\_g5eSWDyuaGq-plYnXyGRZMI85zeWuJeMwA6tgBhL7pGMfvzabJz9iq0



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.93 BC 0.27 WB 0.00 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.04 4-5 >999 240 Vert(TL) -0.03 4-5 >999 180 Horz(TL) -0.07 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 29 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

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

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

**REACTIONS** (lb/size) 5=361/0-5-8 (min. 0-1-8), 3=139/Mechanical, 4=38/Mechanical  
 Max Horz 5=170(LC 12)  
 Max Uplift 5=124(LC 12), 3=131(LC 12), 4=17(LC 12)  
 Max Grav 5=416(LC 2), 3=162(LC 2), 4=89(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-5=423/340

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 5=124, 3=131.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

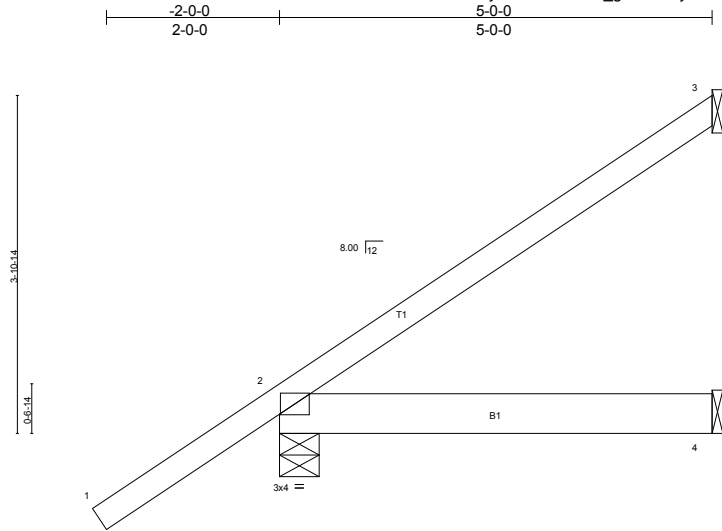
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss EJ05	Truss Type Jack-Partial Truss	Qty 15	Ply 1	Job Reference (optional) 16813382
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:38 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-Hx69KH3KgQ?j7DjS19bSNf8b3gsGWV6Zi87mz9iq?



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.55 BC 0.13 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.03 2-4 >999 240 Vert(TL) 0.02 2-4 >999 180 Horz(TL) 0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 244/190 Weight: 24 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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.

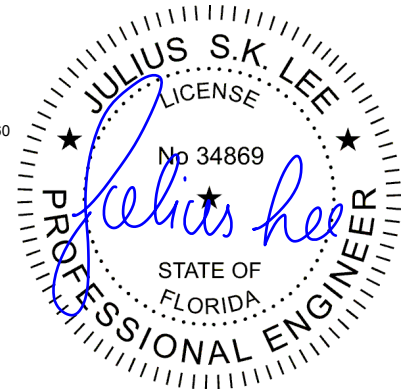
**REACTIONS** (lb/size) 3=107/Mechanical, 2=337/0-5-8 (min. 0-1-8), 4=24/Mechanical  
 Max Horz 2=219(LC 12)  
 Max Uplift 3=131(LC 12), 2=121(LC 12), 4=40(LC 8)  
 Max Grav 3=149(LC 21), 2=390(LC 2), 4=71(LC 3)

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

**NOTES** (7-9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=131, 2=121.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

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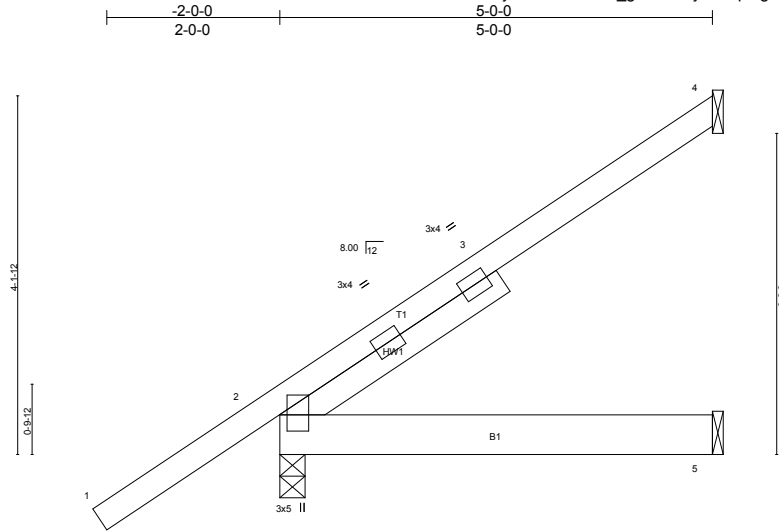
Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss EJ06	Truss Type Jack-Partial Truss	Qty 20	Ply 1	Job Reference (optional) 16813383
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:39 2013 Page 1

ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-l7gXydl5\_YsKHov0kgq?bClp?QWbjmeLDSHfCz9iq  
5-0-0  
5-0-0



Scale = 1:26.6

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

<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	Plates Increase 1.25	TC 0.63	Vert(LL) -0.01 2-5 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.09	Vert(TL) -0.02 2-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.03 4 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 29 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

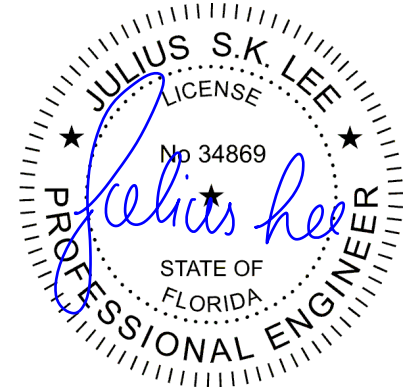
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 4=122/Mechanical, 2=324/0-3-8 (min. 0-1-8), 5=25/Mechanical  
Max Horz 2=221(LC 12)  
Max Uplift 4=-148(LC 12), 2=-105(LC 12)  
Max Grav 4=168(LC 21), 2=374(LC 2), 5=74(LC 3)

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

- NOTES** (7-9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=148, 2=105.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



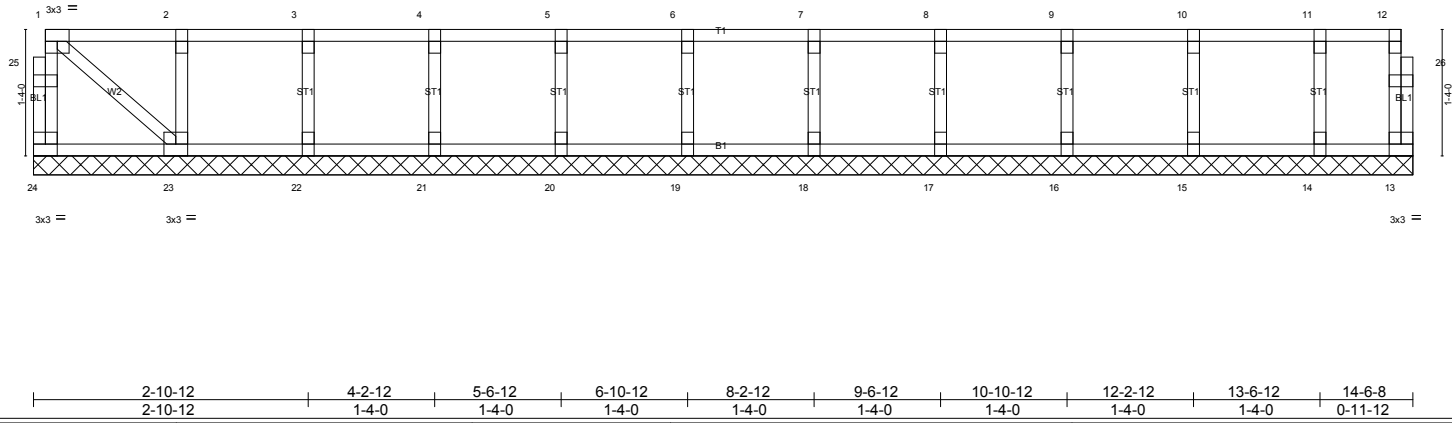
June 4, 2013

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Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss F01	Truss Type GABLE	Qty 2	Ply 1	6813384
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 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-hWnIMJJydbpZaby179jl40Hmgo6G3dixoXxoj5z9ipy



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber Increase 1.00	WB 0.04	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 13 n/a n/a		
	Code FBC2010/TPI2007			Weight: 67 lb	FT = 11%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)  
 OTHERS 2x4 SP No.3(flat)

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

**REACTIONS** All bearings 14-6-8.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

- NOTES** (7-9)
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss F02	Truss Type Floor Truss	Qty 20	Ply 1	Job Reference (optional) 6813385
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7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:42 2013 Page 1  
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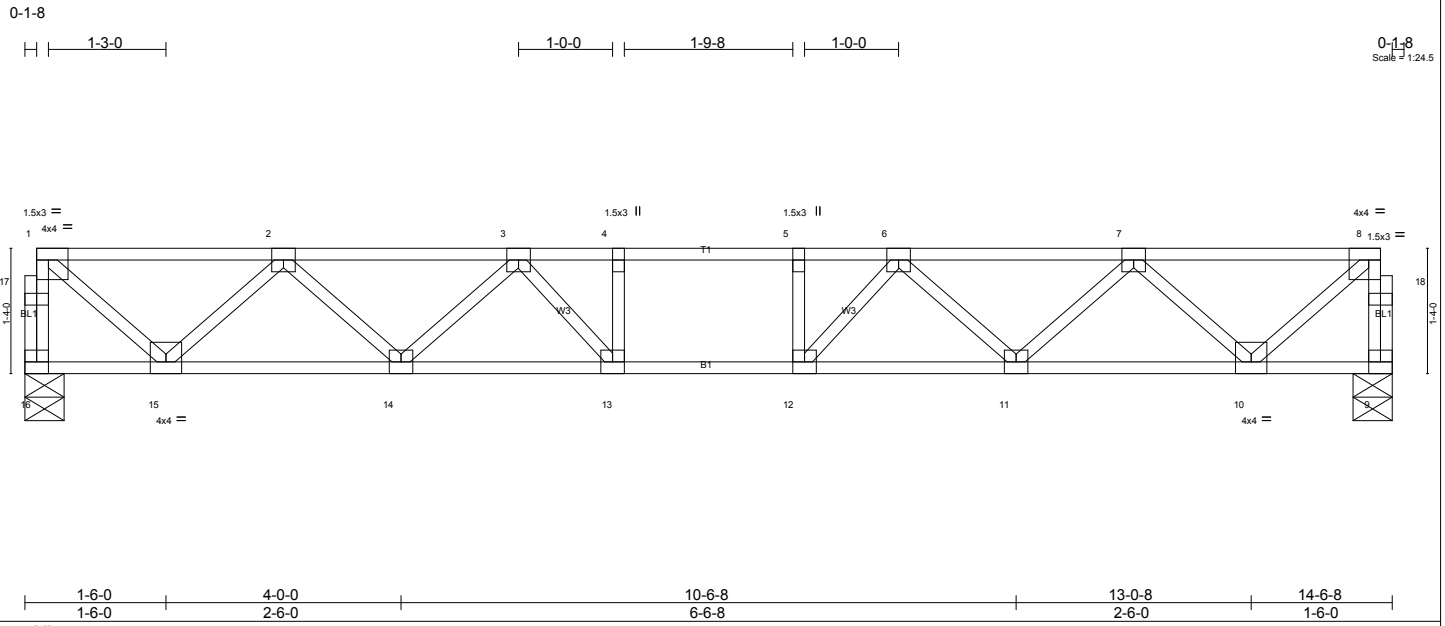


Plate Offsets (X,Y): [1:Edge,0-1-8], [8:0-1-8,Edge]

<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 40.0	Plates Increase 1.00	TC 0.49	Vert(LL) -0.12 13-14 >999 360	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.71	Vert(TL) -0.17 13-14 >984 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(TL) 0.04 9 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 76 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 16=780/0-5-0 (min. 0-1-8), 9=780/0-5-0 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 16-17=-775/0, 1-17=-774/0, 9-18=-775/0, 8-18=-774/0, 1-2=-771/0, 2-3=-1812/0, 3-4=-2294/0, 4-5=-2294/0, 5-6=-2294/0, 6-7=-1812/0, 7-8=-771/0  
BOT CHORD 14-15=0/1445, 13-14=0/2153, 12-13=0/2294, 11-12=0/2153, 10-11=0/1445  
WEBS 8-10=0/993, 1-15=0/993, 7-10=-938/0, 2-15=-938/0, 7-11=0/510, 2-14=0/510, 6-11=-474/0, 3-14=-474/0, 6-12=-47/452, 3-13=-47/452, 4-13=-255/0, 5-12=-255/0

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013



Job 492601	Truss F03	Truss Type Floor Truss	Qty 6	Ply 1	Job Reference (optional)	16813386
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:43 2013 Page 1  
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0-1-8



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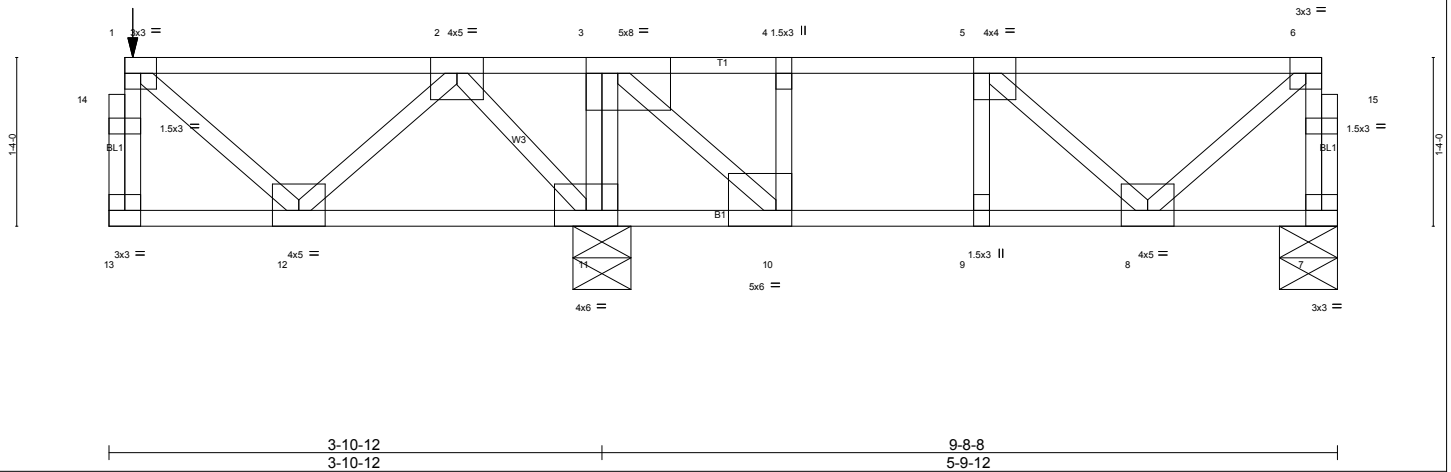


Plate Offsets (X,Y): [3:0-3:0,Edge], [5:0-1:8,Edge], [10:0-1:8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.82	Vert(LL) -0.10 8-9 >666 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.90	Vert(TL) -0.16 8-9 >434 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.01 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 55 lb	FT = 11%F, 11%E

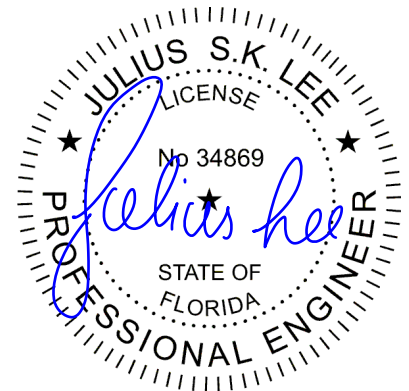
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 7=-240/0-5-8 (min. 0-1-8), 11=1902/0-5-8 (min. 0-1-8)  
Max Uplift 7=-463(LC 3)  
Max Grav 7=157(LC 4), 11=1902(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 7-15=-171/424, 6-15=-171/424, 1-2=0/790, 2-3=0/2652, 3-4=0/1450, 4-5=0/1450, 5-6=-48/572  
BOT CHORD 11-12=-1599/0, 10-11=-2652/0, 9-10=-1450/0, 8-9=-1450/0  
WEBS 3-11=-1029/0, 1-12=-1075/0, 2-12=0/1127, 2-11=-1532/0, 6-8=-748/53, 5-8=0/1192, 5-9=-647/0, 3-10=0/1894, 4-10=-616/0

- NOTES** (7-9)
- Unbalanced floor live loads have been considered for this design.
  - Bearings are assumed to be: Joint 7 SYP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 463 lb uplift at joint 7.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 7-13=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 1=-634



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss F04	Truss Type Floor Truss	Qty 2	Ply 1	Job Reference (optional) 16813387
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:44 2013 Page 1  
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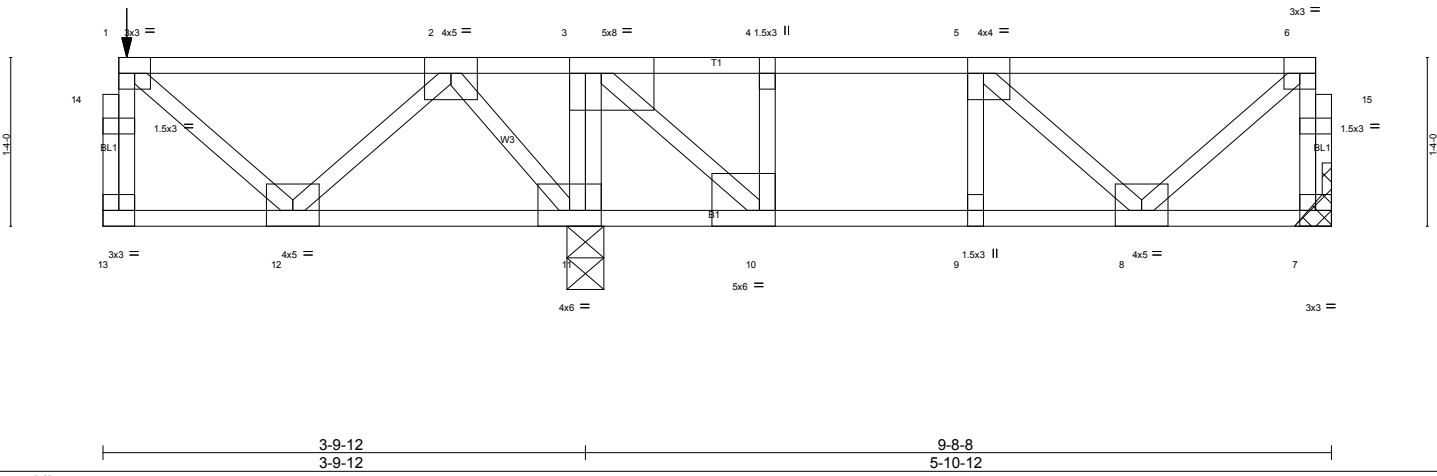
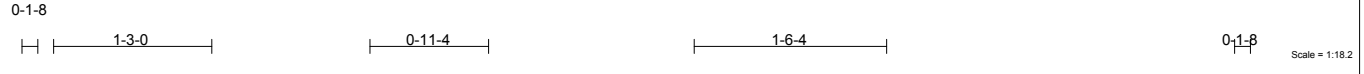


Plate Offsets (X,Y): [3:0-3-0,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.87	Vert(LL) -0.11 8-9 >634 360	MT20 244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.83	Vert(TL) -0.17 8-9 >414 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.90	Horz(TL) -0.01 7 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 55 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 7=-213/Mechanical, 11=1875/0-3-8 (min. 0-1-8)  
 Max Uplift 7=-439(LC 3)  
 Max Grav 7=168(LC 4), 11=1875(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 7-15=-182/400, 6-15=-182/399, 1-2=0/790, 2-3=0/2586, 3-4=0/1400, 4-5=0/1400, 5-6=-60/546  
 BOT CHORD 11-12=-1599/0, 10-11=-2586/0, 9-10=-1400/0, 8-9=-1400/0  
 WEBS 3-11=-998/0, 1-12=-1074/0, 2-12=0/1128, 2-11=-1495/0, 6-8=-714/68, 5-8=0/1160, 3-10=0/1881, 4-10=-618/0, 5-9=-634/0

- NOTES** (6-9)
- Unbalanced floor live loads have been considered for this design.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 7.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson THA422 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 7-13=-10, 1-6=-100  
 Concentrated Loads (lb)  
 Vert: 1=-634



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss F06	Truss Type Floor Truss	Qty 1	Ply 1	Job Reference (optional)	16813388
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:45 2013 Page 1  
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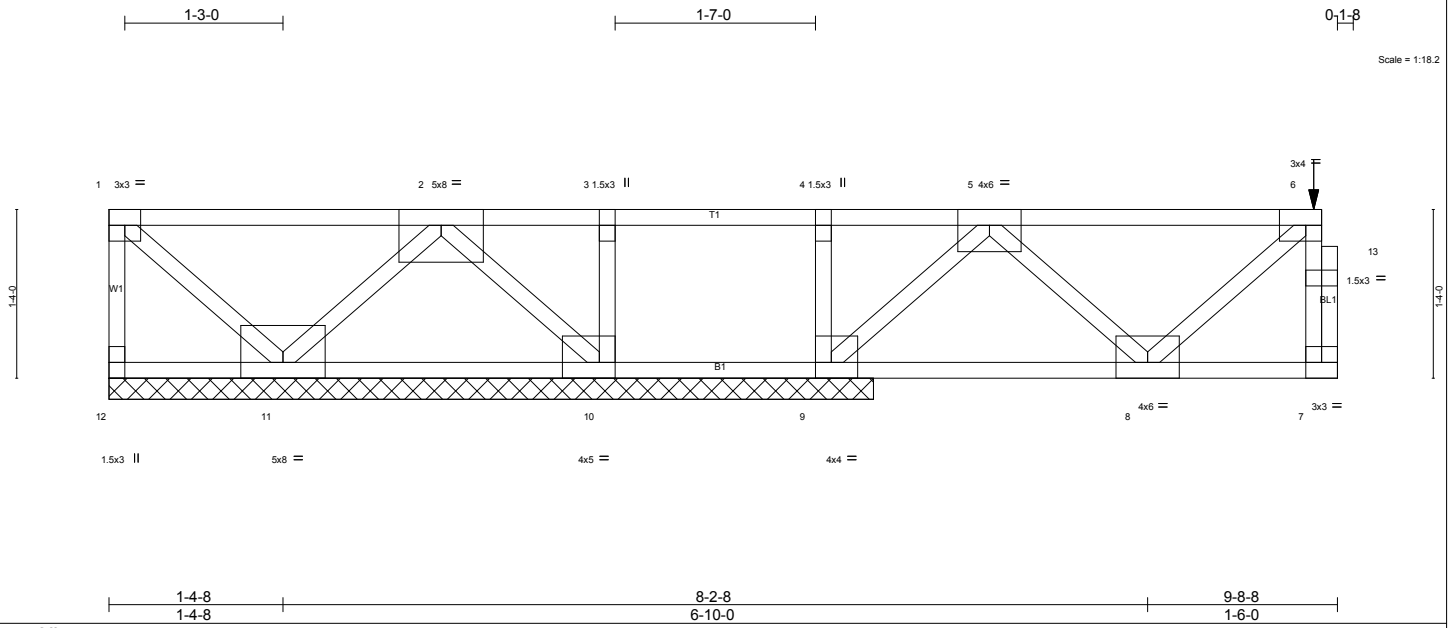


Plate Offsets (X,Y): [6:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge]	
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0
TCLL 40.0	Plates Increase 1.00
TCDL 10.0	Lumber Increase 1.00
BCLL 0.0	Rep Stress Incr NO
BCDL 5.0	Code FBC2010/TPI2007
<b>CSI</b>	<b>DEFL</b>
TC 0.93	in (loc) l/defl L/d
BC 0.47	Vert(LL) n/a - n/a 999
WB 0.95	Vert(TL) n/a - n/a 999
(Matrix)	Horz(TL) -0.02 9 n/a n/a
	<b>PLATES</b> <b>GRIP</b>
	MT20 244/190
	Weight: 51 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 9-8-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS 2x4 SP No.3(flat)	10-0-0 oc bracing: 11-12.

**REACTIONS** (lb/size) 12=316/6-0-8 (min. 0-1-8), 11=817/6-0-8 (min. 0-1-8), 9=1453/6-0-8 (min. 0-1-8), 10=1599/6-0-8 (min. 0-1-8)  
Max Uplift 12=377(LC 4), 11=960(LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-12=0/378, 1-2=0/457, 2-3=0/3443, 3-4=0/3443, 4-5=0/3443, 5-6=0/1078  
BOT CHORD 10-11=1865/0, 9-10=3443/0, 8-9=2110/0  
WEBS 6-8=1464/0, 1-11=621/0, 5-8=0/1436, 2-11=0/1993, 5-9=1813/0, 2-10=2265/0

- NOTES** (8-10)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint 12 and 960 lb uplift at joint 11.
  - Non Standard bearing condition. Review required.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 7-12=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 6=-879



June 4, 2013

Job 492601	Truss F07	Truss Type FLOOR TRUSS	Qty 1	Ply 1	6813389
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Job Reference (optional)  
7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:46 2013 Page 1  
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Builders FirstSource, Jacksonville, FL 32244

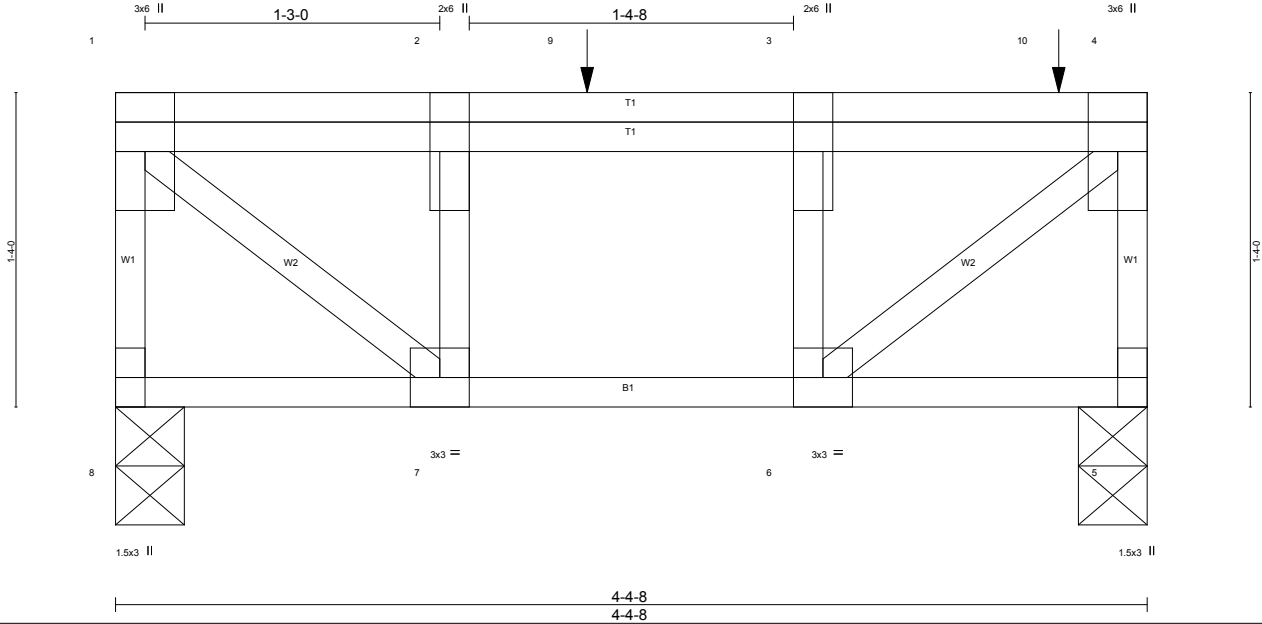


Plate Offsets (X,Y): [2:0-3-0,Edge], [3:0-3-0,0-0-0]

<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.08 BC 0.09 WB 0.17 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 7 >999 360 Vert(TL) -0.01 6 >999 240 Horz(TL) 0.00 5 n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 30 lb FT = 11%F, 11%E
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<b>LUMBER</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)	<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS** (lb/size) 8=286/0-3-8 (min. 0-1-8), 5=351/0-3-8 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-8=-280/0, 4-5=-344/0, 1-2=-275/0, 2-9=-275/0, 3-9=-275/0, 3-10=-275/0, 4-10=-275/0  
BOT CHORD 6-7=0/275  
WEBS 1-7=0/357, 4-6=0/357

- NOTES** (5-7)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 5-8=-10, 1-4=-100  
Concentrated Loads (lb)  
Vert: 9=-85 10=-85

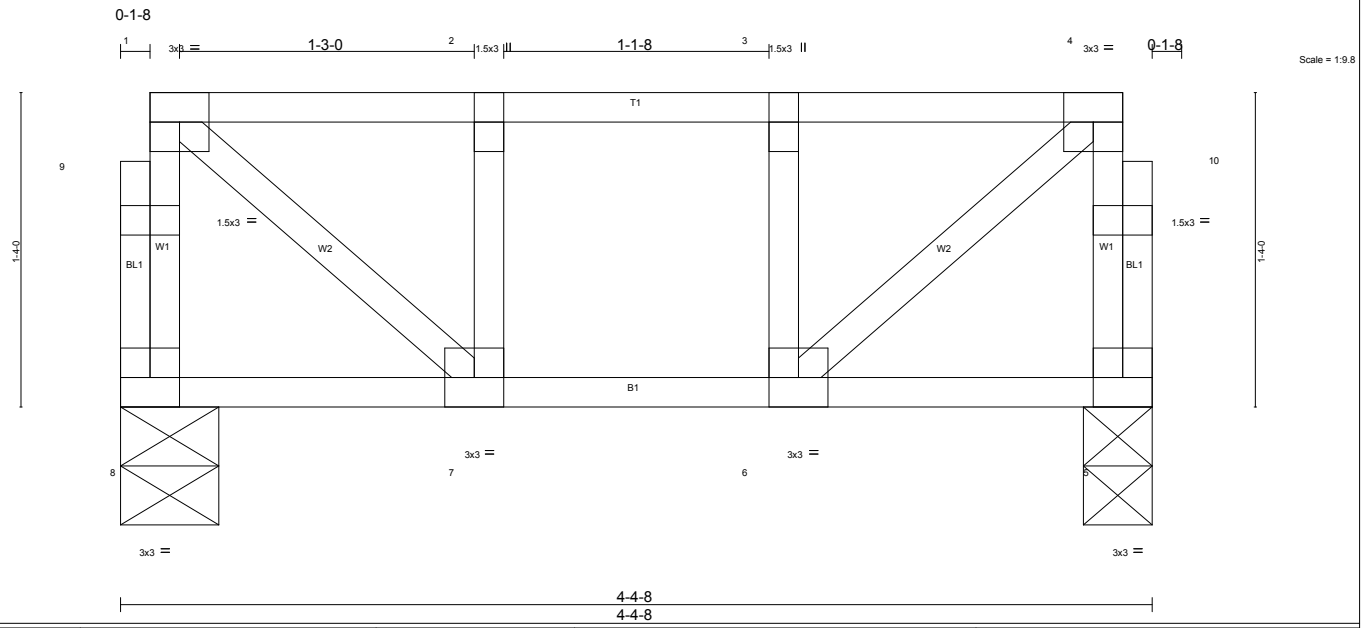


June 4, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b> 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 492601	Truss F08	Truss Type Floor Truss	Qty 1	Ply 1	6813390
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<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.11 BC 0.10 WB 0.11 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 7 >999 360 Vert(TL) -0.01 7 >999 240 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 27 lb FT = 11%F, 11%E
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**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=221/0-5-0 (min. 0-1-8), 5=221/0-3-8 (min. 0-1-8)

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

**NOTES** (5-7)  
 1) Unbalanced floor live loads have been considered for this design.  
 2) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.  
 3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
 5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.  
 6) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.  
 7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

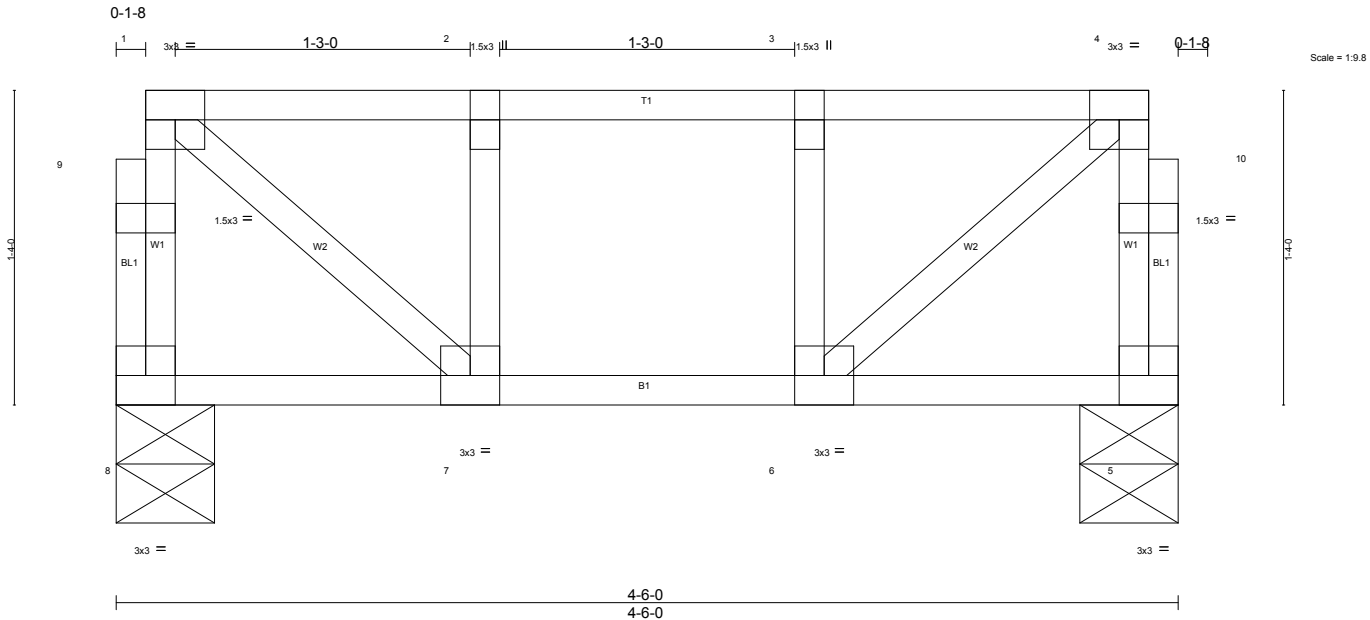
**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss F09	Truss Type Floor Truss	Qty 6	Ply 1	Job Reference (optional) i6813391
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:47 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.11 BC 0.11 WB 0.12 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 7 >999 360 Vert(TL) -0.01 7 >999 240 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 27 lb FT = 11%F, 11%E
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**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

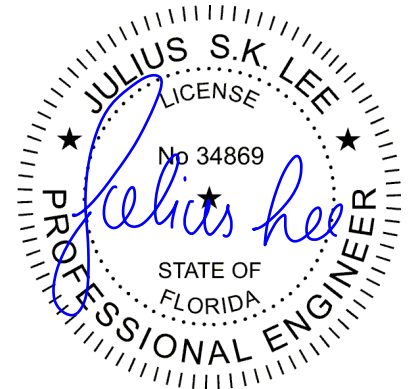
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=227/0-5-0 (min. 0-1-8), 5=227/0-5-0 (min. 0-1-8)

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

- NOTES** (5-7)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss HJ01	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Job Reference (optional) 6813392
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:49 2013 Page 1  
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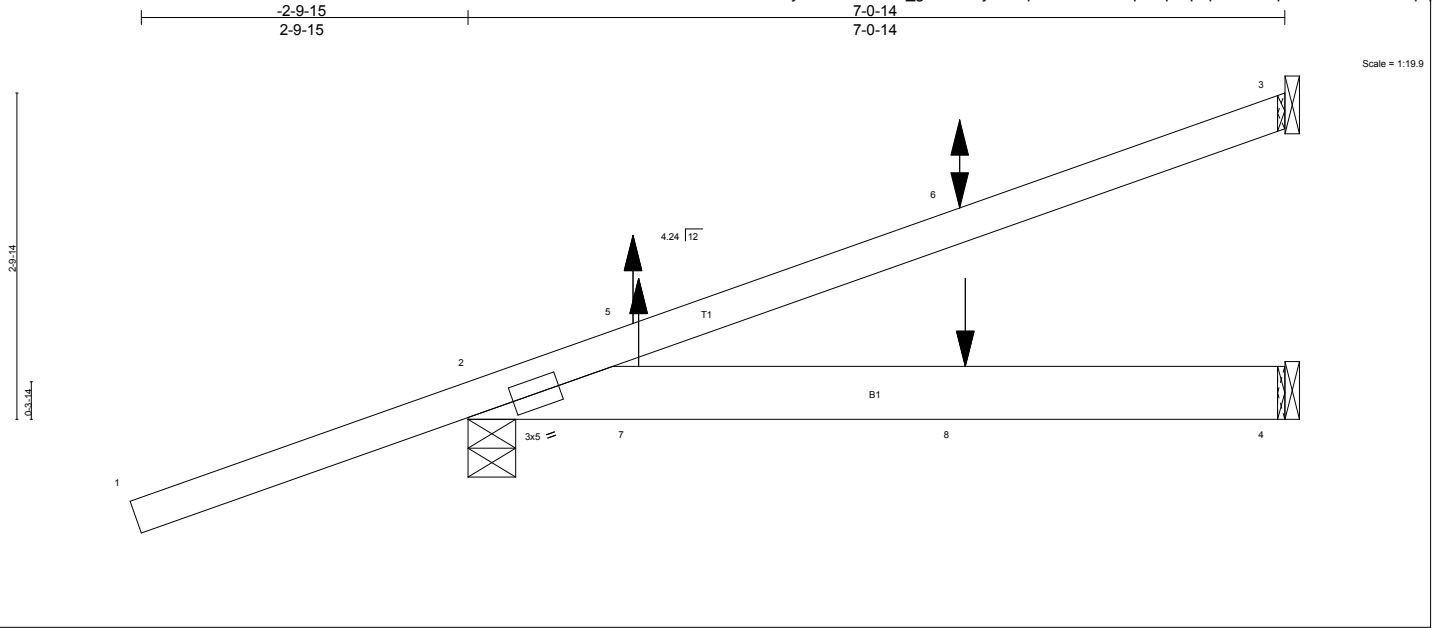


Plate Offsets (X,Y): [2:0-5-0,0-1-8]

<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	Plates Increase 1.25	TC 0.87	Vert(LL) 0.04 2-4 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.17	Vert(TL) 0.05 2-4 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 32 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**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) 3=139/Mechanical, 2=319/0-4-15 (min. 0-1-8), 4=25/Mechanical  
Max Horz 2=187(LC 4)  
Max Uplift 3=-137(LC 8), 2=-360(LC 4), 4=-74(LC 5)  
Max Grav 3=165(LC 2), 2=390(LC 2), 4=94(LC 3)

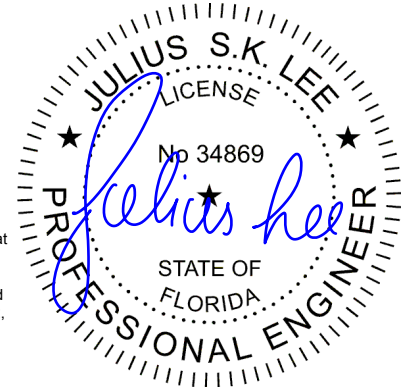
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES** (9-11)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 3, 360 lb uplift at joint 2 and 74 lb uplift at joint 4.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 124 lb up at 1-5-12, 22 lb down and 124 lb up at 1-5-12, and 28 lb down and 92 lb up at 4-3-11, and 1 lb down and 56 lb up at 4-3-11 on top chord, and 11 lb down and 16 lb up at 1-5-12, 11 lb down and 16 lb up at 1-5-12, and 12 lb down and 34 lb up at 4-3-11, and 12 lb down and 34 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 2-4=-10  
Concentrated Loads (lb)  
Vert: 5=174(F=87, B=87) 6=5(F=-24, B=29) 7=8(F=4, B=4) 8=-8(F=-4, B=-4)



June 4, 2013

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Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435



Job 492601	Truss HJ02	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional) 68813393
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:50 2013 Page 1  
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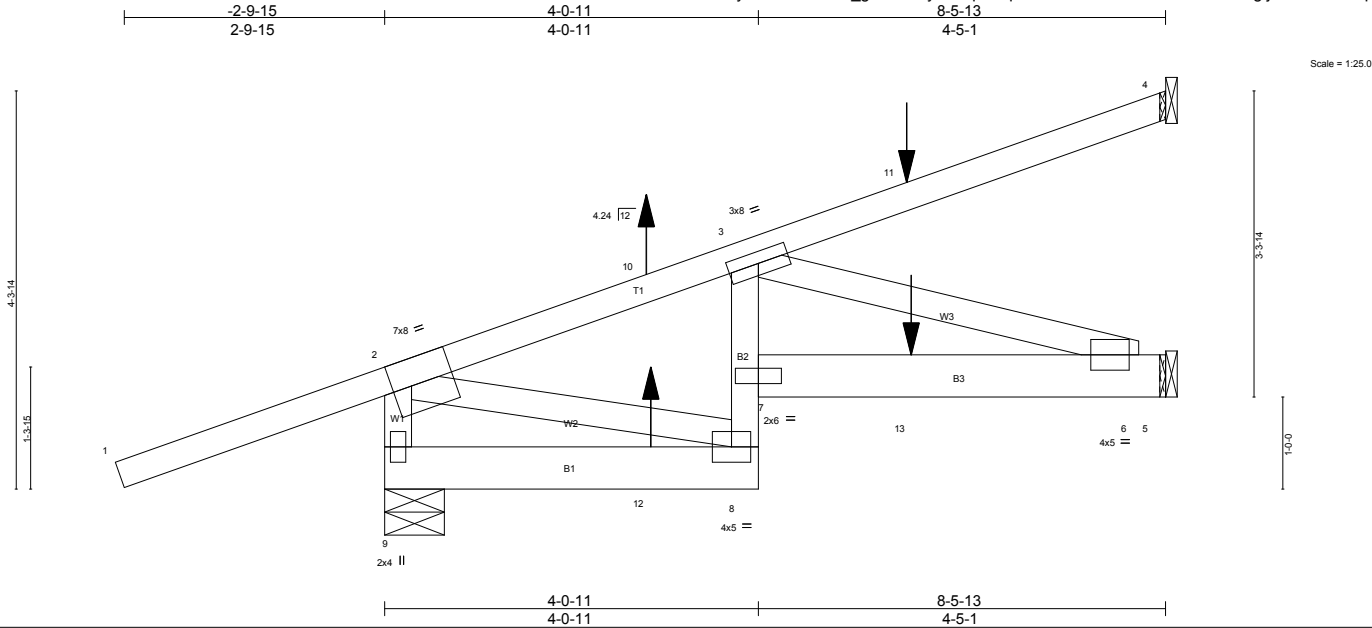


Plate Offsets (X,Y): [2:0-2-8,Edge]

<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	Plates Increase 1.25	TC 0.83	Vert(LL) 0.04 6-7 >999 240	MT20 244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.60	Vert(TL) -0.04 6-7 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.18	Horz(TL) -0.03 5 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 53 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 9=460/0-7-12 (min. 0-1-8), 4=115/Mechanical, 5=144/Mechanical  
 Max Horz 9=192(LC 4)  
 Max Uplift 9=353(LC 4), 4=93(LC 4), 5=167(LC 8)  
 Max Grav 9=539(LC 2), 4=134(LC 2), 5=178(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-545/378, 2-10=-284/187  
 BOT CHORD 7-13=-438/405, 6-13=-438/405  
 WEBS 3-6=-424/459, 2-8=-217/404

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 9, 93 lb uplift at joint 4 and 167 lb uplift at joint 5.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 77 lb up at 2-10-12, and 22 lb down and 69 lb up at 5-8-10, and 22 lb down and 69 lb up at 5-8-11 on top chord, and 28 lb up at 2-10-10, 28 lb up at 2-10-12, and 19 lb down and 55 lb up at 5-8-10, and 19 lb down and 55 lb up at 5-8-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-4=-60, 8-9=-10, 5-7=-10  
 Concentrated Loads (lb)  
 Vert: 10=68(F=34, B=34) 11=-15(F=-8, B=-8) 12=22(F=11, B=11) 13=-33(F=-17, B=17)



June 4, 2013

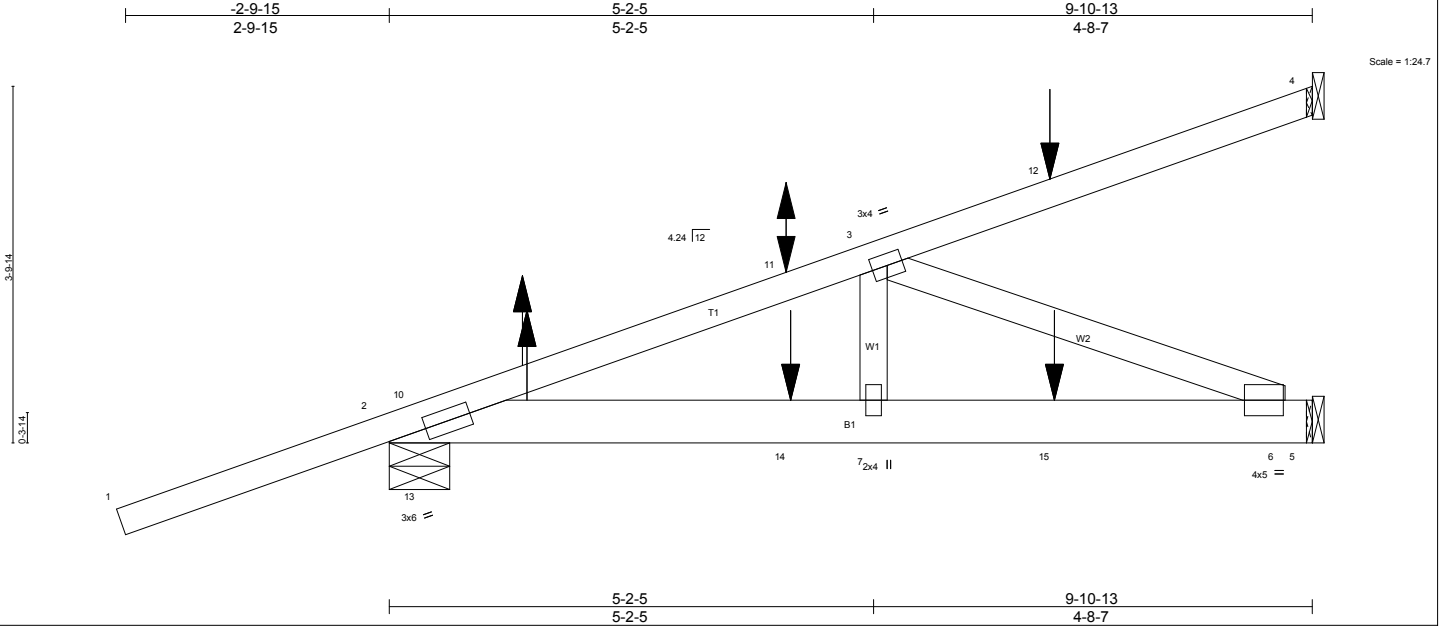
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss HJ03	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional) 6813394
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:51 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.75 BC 0.33 WB 0.32 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.02 6-7 >999 240 Vert(TL) -0.04 6-7 >999 180 Horz(TL) -0.01 4 n/a n/a	<b>PLATES</b> MT20 244/190 Weight: 52 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

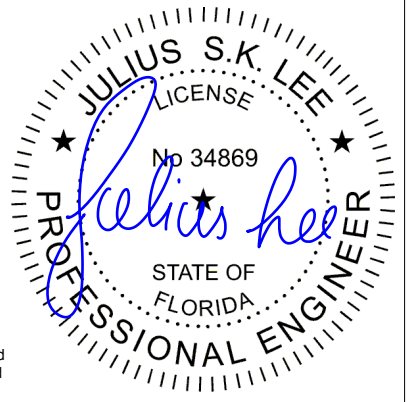
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size) 4=157/Mechanical, 2=420/0-7-12 (min. 0-1-8), 5=257/Mechanical  
 Max Horz 2=234(LC 4)  
 Max Uplift 4=-134(LC 4), 2=-401(LC 4), 5=-187(LC 8)  
 Max Grav 4=183(LC 2), 2=505(LC 2), 5=295(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-10=-686/424, 2-11=-707/434, 3-11=-626/412  
 BOT CHORD 2-13=-515/633, 2-14=-519/635, 7-14=-519/635, 7-15=-519/635, 6-15=-519/635  
 WEBS 3-6=-685/559

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 4, 401 lb uplift at joint 2 and 187 lb uplift at joint 5.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 124 lb up at 1-5-12, 22 lb down and 124 lb up at 1-5-12, 28 lb down and 92 lb up at 4-3-11, 1 lb down and 56 lb up at 4-3-11, and 101 lb down and 146 lb up at 7-1-10, and 56 lb down and 121 lb up at 7-1-10 on top chord, and 16 lb up at 1-5-12, 16 lb up at 1-5-12, 12 lb down and 34 lb up at 4-3-11, 12 lb down and 34 lb up at 4-3-11, and 43 lb down at 7-1-10, and 41 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

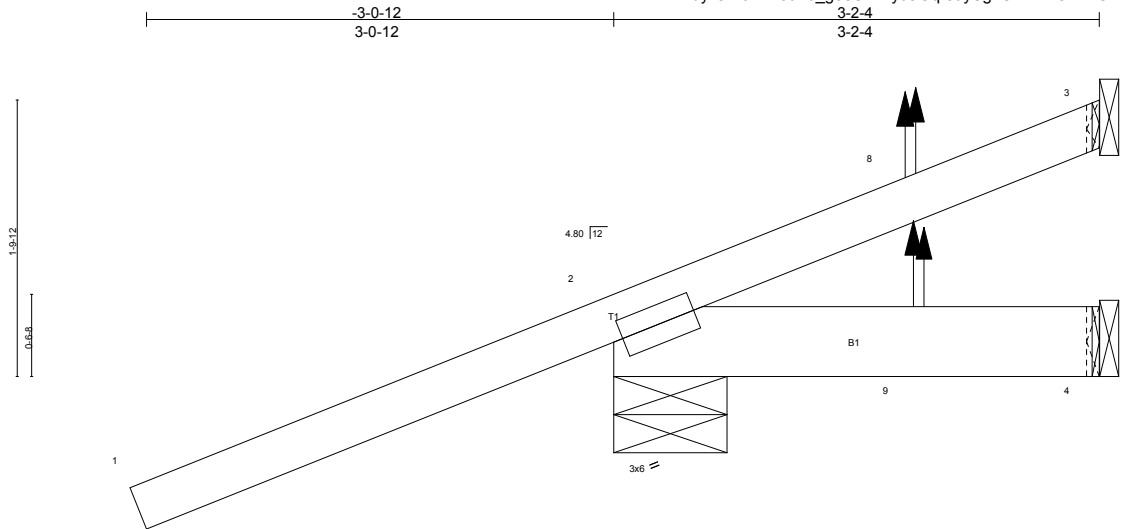


**LOAD CASE(S)** Standard  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-10=-30, 4-10=-60, 2-5=-10  
 Concentrated Loads (lb)  
 Vert: 8=174(F=87, B=87) 9=8(F=4, B=4) 11=5(F=-24, B=29) 12=-134(F=-86, B=-48) 14=-8(F=-4, B=-4) 15=-28(F=-14, B=-14)

June 4, 2013

Job 492601	Truss HJ04	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional) 6813395
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.89 BC 0.19 WB 0.00 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 4-7 >999 240 Vert(TL) 0.01 4-7 >999 180 Horz(TL) -0.00 2 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 18 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-2-4 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.

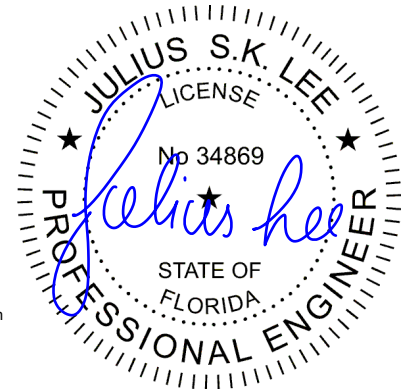
**REACTIONS** (lb/size) 3=-7/Mechanical, 2=322/0-8-15 (min. 0-1-8), 4=-61/Mechanical  
Max Horz 2=117(LC 4)  
Max Uplift 3=-46(LC 17), 2=-242(LC 4), 4=-69(LC 2)  
Max Grav 3=1(LC 2), 2=379(LC 2), 4=58(LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-339/416  
BOT CHORD 2-9=-540/394

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 242 lb uplift at joint 2 and 69 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 23 lb down and 114 lb up at 1-11-9, and 23 lb down and 82 lb up at 2-0-7 on top chord, and 14 lb up at 1-11-9, and 5 lb up at 2-0-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-30, 3-6=-60, 4-5=-10  
Concentrated Loads (lb)  
Vert: 8=127(F=79, B=49) 9=6(F=5, B=1)



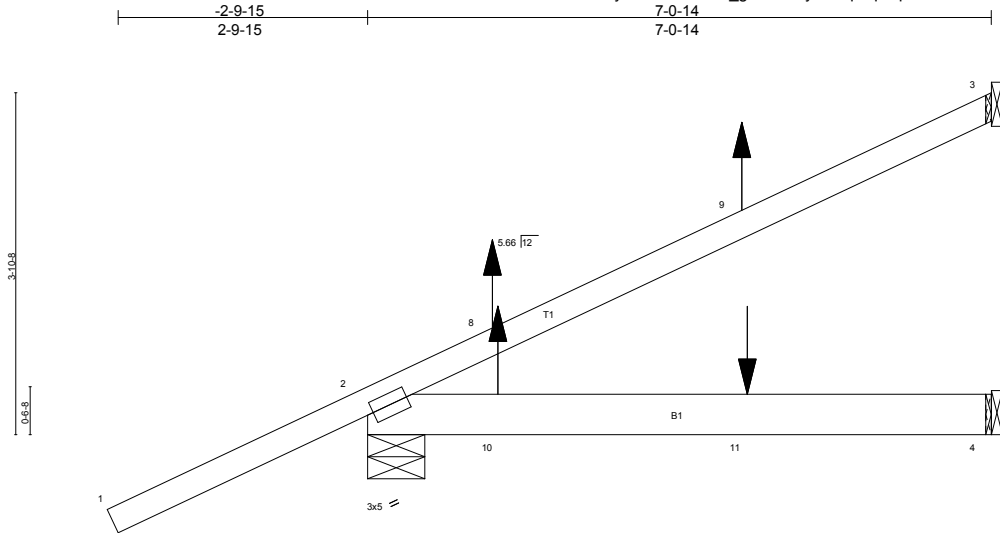
June 4, 2013

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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss HJ05	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional) 68813396
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:53 2013 Page 1  
 ID:idyzswioVL?Jd1o\_g5eSWDYuaGq-LqWquQTUoHJs0Rtbqgw6ZYnfFeAPT2DiZOrR8Oz9ipm



Scale = 1:26.1

<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.76 BC 0.18 WB 0.00 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.03 4-7 >999 240 Vert(TL) 0.03 4-7 >999 180 Horz(TL) -0.00 3 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 33 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2

**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.

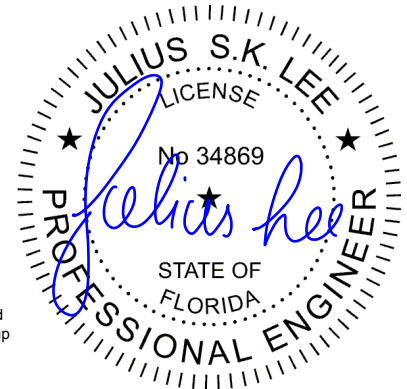
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 3=108/Mechanical, 2=260/0-7-12 (min. 0-1-8), 4=19/Mechanical  
Max Horz 2=216(LC 8)  
Max Uplift 3=143(LC 8), 2=181(LC 8), 4=9(LC 18)  
Max Grav 3=128(LC 2), 2=320(LC 2), 4=85(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=352/430  
BOT CHORD 2-10=476/151

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 3, 181 lb uplift at joint 2 and 9 lb uplift at joint 4.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 136 lb up at 1-5-12, 19 lb down and 136 lb up at 1-5-12, and 78 lb up at 4-3-11, and 78 lb up at 4-3-11 on top chord, and 16 lb up at 1-5-12, 16 lb up at 1-5-12, and 11 lb down and 2 lb up at 4-3-11, and 11 lb down and 2 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-30, 3-6=-60, 4-5=-10  
Concentrated Loads (lb)  
Vert: 8=183(F=91, B=91) 9=76(F=38, B=38) 10=11(F=5, B=5) 11=-7(F=-4, B=-4)



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss HJ06	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	6813397
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:54 2013 Page 1  
 ID:idyzwioVL7Jd1o\_g5eSWDyuaGq-p04C5mT6ZbRjeaRoOOSL6LJo\_2T5cU1so2a\_gqz9ip

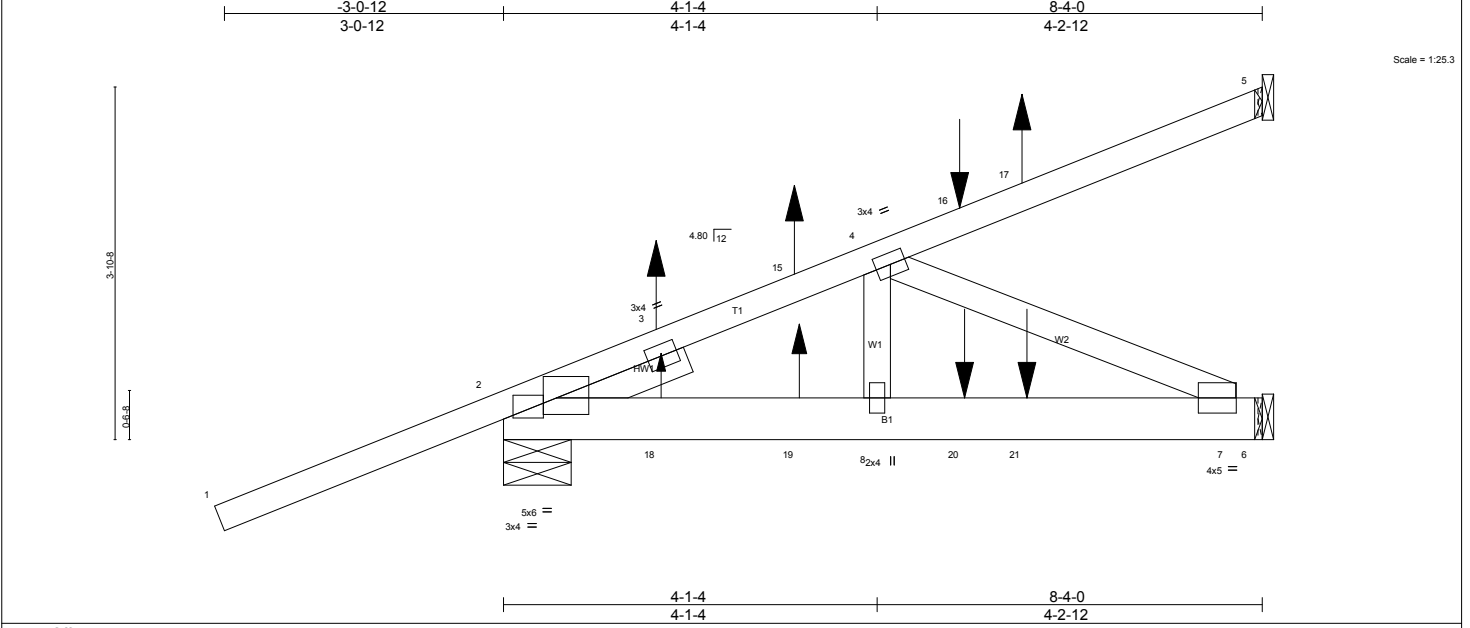


Plate Offsets (X,Y): [2:0-1-12,0-2-3], [2:0-1-12,0-2-10]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.89	Vert(LL) 0.02 7-8 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.34	Vert(TL) -0.02 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.09	Horz(TL) -0.01 5 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)		Weight: 48 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-6-0	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=108/Mechanical, 2=489/0-8-15 (min. 0-1-8), 6=115/Mechanical  
 Max Horz 2=213(LC 8)  
 Max Uplift 5=-102(LC 8), 2=-337(LC 4), 6=-138(LC 8)  
 Max Grav 5=126(LC 2), 2=572(LC 2), 6=168(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-12=-271/287  
 BOT CHORD 2-9=-274/215, 2-18=-274/215, 18-19=-274/215, 8-19=-274/215, 8-20=-274/215, 20-21=-274/215, 7-21=-274/215  
 WEBS 4-7=-236/302

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 5, 337 lb uplift at joint 2 and 138 lb uplift at joint 6.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 28 lb down and 74 lb up at 1-8-12, 20 lb down and 76 lb up at 3-3-0, and 32 lb down and 104 lb up at 5-0-12, and 90 lb up at 5-9-0 on top chord, and 23 lb up at 1-8-12, 26 lb up at 3-3-0, and 33 lb down and 46 lb up at 5-0-12, and 17 lb down and 37 lb up at 5-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-60, 6-9=-10

Continued on page 2

June 4, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job	Truss	Truss Type	Qty	Ply	
492601	HJ06	Diagonal Hip Girder	1	1	6813397

Job Reference (optional)

Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:54 2013 Page 2  
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**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)  
 Vert: 3=41(F) 15=38(B) 16=-27(F) 17=18(B) 18=0(F) 19=1(B) 20=-11(F) 21=-6(B)



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss HJ07	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	16813398
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:55 2013 Page 1  
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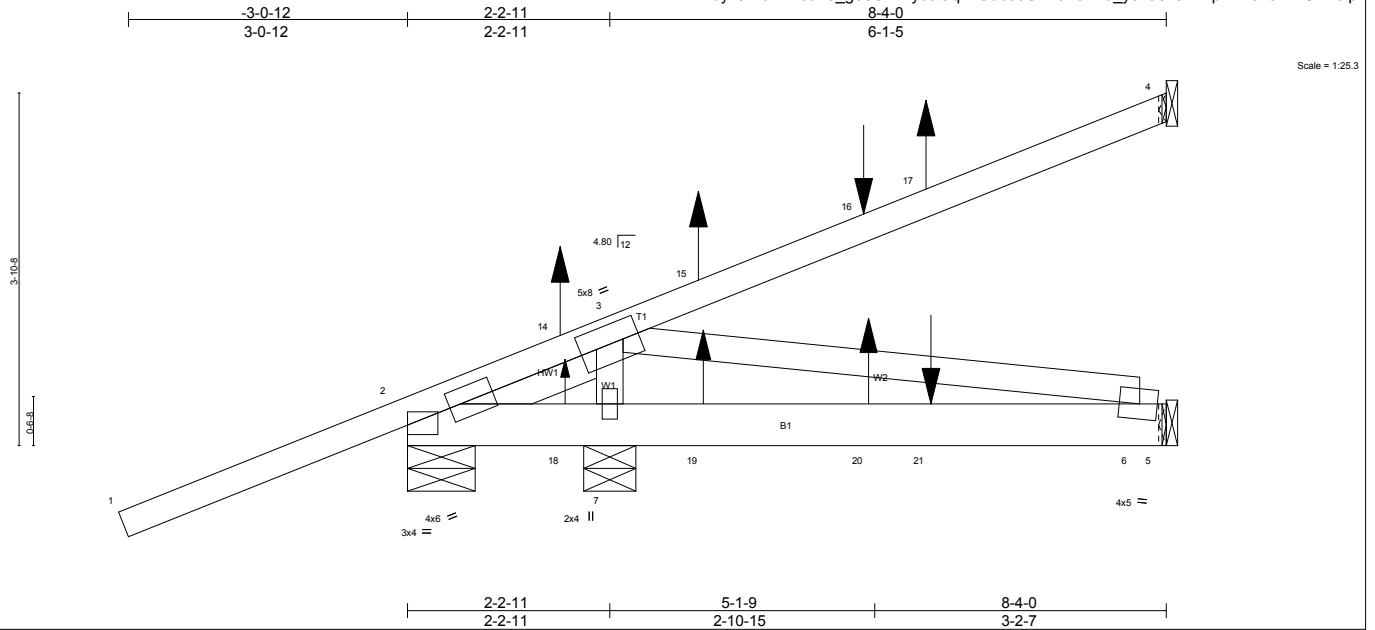


Plate Offsets (X,Y): [2:0-1-8,0-2-0], [2:Edge,0-4-1], [6:0-2-5,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.34	Vert(LL) -0.01 6-7 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.12	Vert(TL) -0.02 6-7 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) -0.00 4 n/a n/a		
	Code FBC2010/TPI2007			Weight: 50 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 1-7-5

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

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

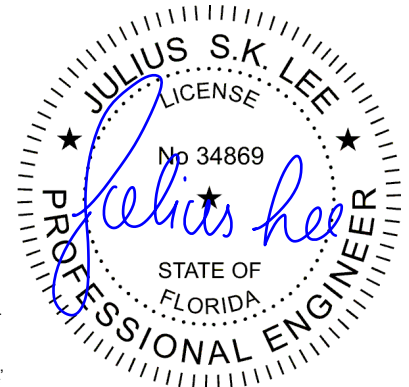
**REACTIONS** All bearings Mechanical except (jt=length) 2=0-8-15, 7=0-6-14.  
 (lb) - Max Horz 2=212(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 4=139(LC 8), 2=187(LC 4), 7=274(LC 5)  
 Max Grav All reactions 250 lb or less at joint(s) 4, 5, 7 except 2=375(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-11=-264/282, 2-2=-321/363, 2-14=-417/477, 3-14=-407/478  
 WEBS 3-7=-391/403

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=139, 2=187, 7=274.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 28 lb down and 74 lb up at 1-8-12, 20 lb down and 76 lb up at 3-3-0, and 32 lb down and 104 lb up at 5-0-12, and 90 lb up at 5-9-0 on top chord, and 4 lb down and 23 lb up at 1-8-12, 26 lb up at 3-3-0, and 5 lb up at 5-0-12, and 17 lb down and 37 lb up at 5-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-9=-30, 4-9=-60, 5-8=-10  
 Concentrated Loads (lb)  
 Vert: 14=41(B) 15=38(F) 16=-27(B) 17=18(F) 18=0(B) 19=1(F) 20=2(B) 21=-6(F)



June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss HJ08	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Job Reference (optional) 68813399
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:56 2013 Page 1  
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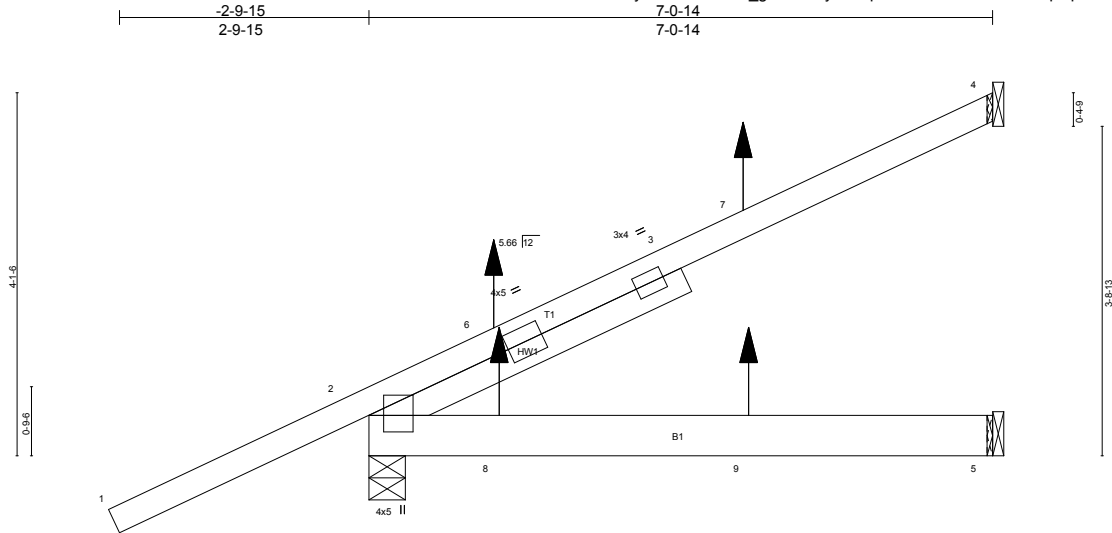


Plate Offsets (X,Y): [2-0-2-4,0-2-0]

<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	Plates Increase 1.25	TC 0.75	Vert(LL) -0.03 2-5 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.16	Vert(TL) 0.04 2-5 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(TL) -0.02 4 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 39 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 SLIDER Left 2x4 SP No.3 3-10-15

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

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

**REACTIONS** (lb/size) 4=118/Mechanical, 2=258/0-4-15 (min. 0-1-8), 5=20/Mechanical  
 Max Horz 2=220(LC 8)  
 Max Uplift 4=163(LC 8), 2=211(LC 8), 5=12(LC 8)  
 Max Grav 4=141(LC 2), 2=326(LC 2), 5=84(LC 3)

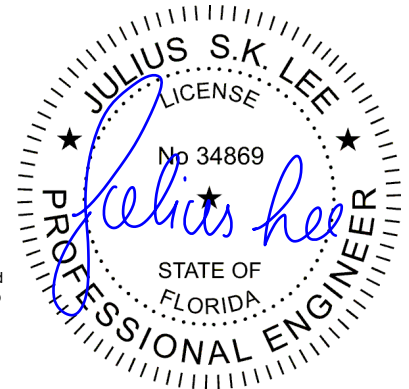
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES** (9-11)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=163, 2=211.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 132 lb up at 1-5-12, 18 lb down and 132 lb up at 1-5-12, and 87 lb up at 4-3-11, and 87 lb up at 4-3-11 on top chord, and 41 lb up at 1-5-12, 41 lb up at 1-5-12, and 1 lb down and 4 lb up at 4-3-11, and 1 lb down and 4 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-60, 2-5=-10  
 Concentrated Loads (lb)  
 Vert: 6=173(F=87, B=87) 7=30(F=15, B=15) 8=57(F=29, B=29) 9=8(F=4, B=4)



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss HJ09	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	16813400
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:57 2013 Page 1  
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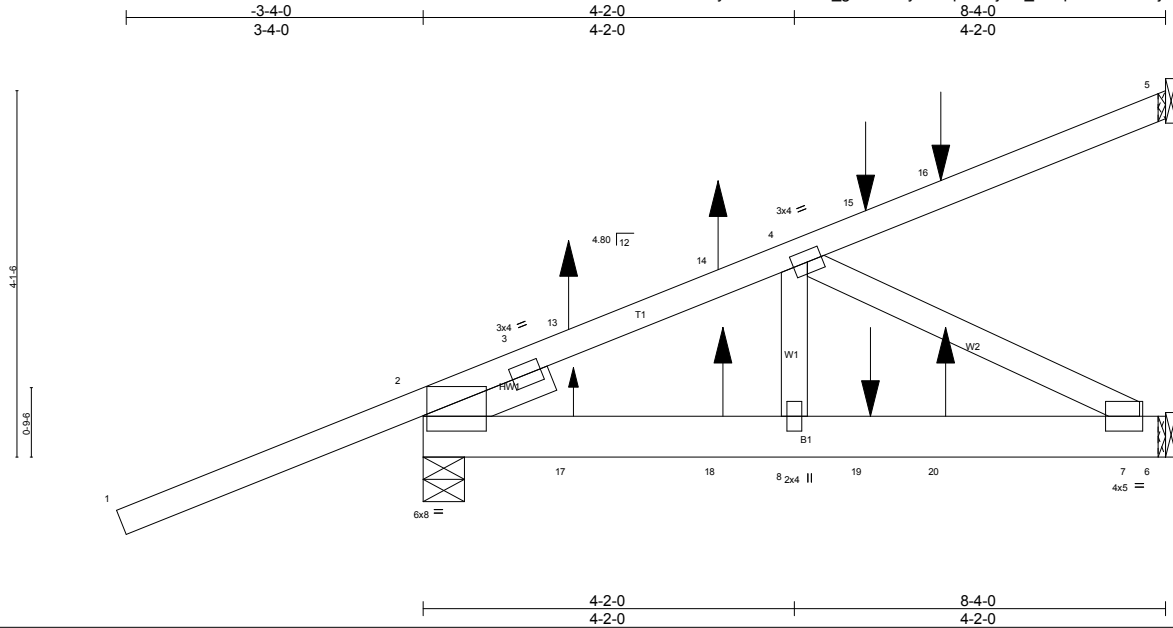


Plate Offsets (X,Y): [2-0-0-8,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.26	Vert(LL) 0.01 7-8 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.13	Vert(TL) -0.02 7-8 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) -0.01 5 n/a n/a		
	Code FBC2010/TPI2007			Weight: 49 lb	FT = 20%

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

**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.

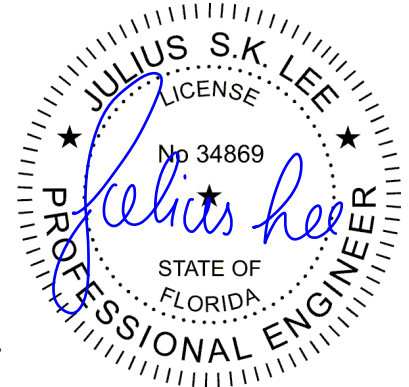
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=116/Mechanical, 2=535/0-5-9 (min. 0-1-8), 6=160/Mechanical  
 Max Horz 2=217(LC 8)  
 Max Uplift 5=-105(LC 8), 2=-338(LC 4), 6=-131(LC 8)  
 Max Grav 5=135(LC 2), 2=620(LC 2), 6=201(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-13=-329/185, 13-14=-276/177, 4-14=-275/176  
 BOT CHORD 2-17=-256/280, 17-18=-256/280, 8-18=-256/280, 8-19=-256/280, 19-20=-256/280, 7-20=-256/280  
 WEBS 4-7=-317/289

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=105, 2=338, 6=131.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb up at 1-8-4, 12 lb down and 74 lb up at 3-4-6, and 78 lb down and 136 lb up at 5-0-4, and 5 lb down and 97 lb up at 5-10-6 on top chord, and 4 lb up at 1-8-4, 21 lb up at 3-4-6, and 33 lb down at 5-0-4, and 10 lb down and 11 lb up at 5-10-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-60, 6-9=-10  
 Concentrated Loads (lb)  
 Vert: 13=6(B) 14=28(F) 15=-67(B) 16=-3(F) 17=0(B) 18=14(F) 19=-11(B) 20=3(F)



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	16813401
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:58 2013 Page 1  
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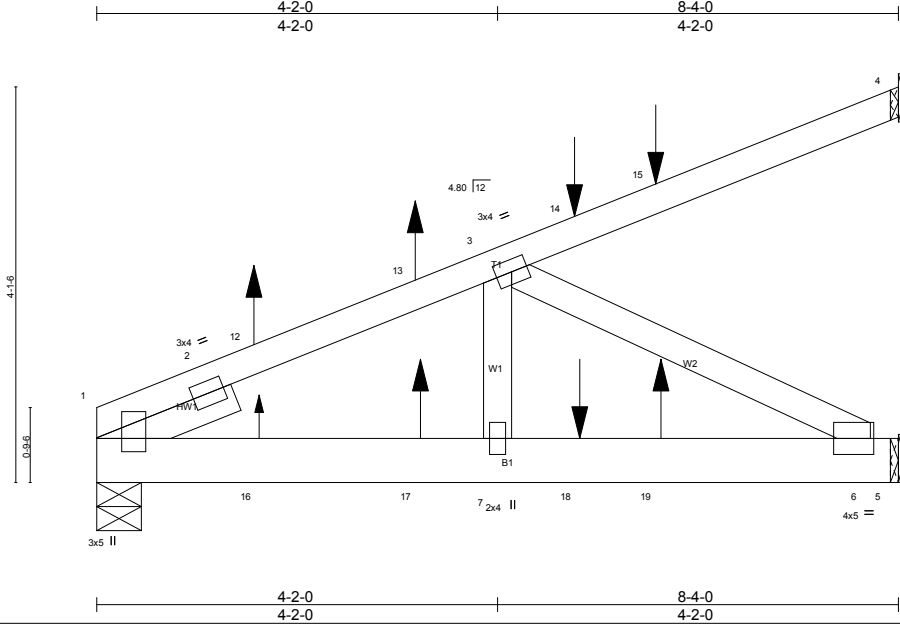


Plate Offsets (X,Y): [1:0-1-10,0-3-2]	
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0
TCLL 20.0	Plates Increase 1.25
TCDL 15.0	Lumber Increase 1.25
BCLL 0.0 *	Rep Stress Incr NO
BCDL 5.0	Code FBC2010/TPI2007
<b>CSI</b>	<b>DEFL</b>
TC 0.35	in (loc) l/defl L/d
BC 0.15	Vert(LL) 0.01 7 >999 240
WB 0.14	Vert(TL) -0.02 6-7 >999 180
(Matrix-M)	Horz(TL) -0.00 4 n/a n/a
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 44 lb FT = 20%	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-6-0	

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

<b>REACTIONS</b> (lb/size)	1=196/0-5-9 (min. 0-1-8), 4=115/Mechanical, 5=172/Mechanical
	Max Horz 1=149(LC 8)
	Max Uplift 1=145(LC 8), 4=102(LC 8), 5=153(LC 8)
	Max Grav 1=253(LC 3), 4=134(LC 2), 5=224(LC 3)

<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-299/140, 2-12=-351/216, 12-13=-328/212, 3-13=-333/216
BOT CHORD 1-16=-316/320, 16-17=-316/320, 7-17=-316/320, 7-18=-316/320, 18-19=-316/320, 6-19=-316/320
WEBS 3-6=-362/358

- NOTES** (9-11)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=145, 4=102, 5=153.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb up at 1-8-4, 19 lb down and 68 lb up at 3-4-6, and 78 lb down and 136 lb up at 5-0-4, and 5 lb down and 97 lb up at 5-10-6 on top chord, and 4 lb up at 1-8-4, 21 lb up at 3-4-6, and 33 lb down at 5-0-4, and 10 lb down and 11 lb up at 5-10-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



<b>LOAD CASE(S)</b> Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-60, 5-8=-10
Concentrated Loads (lb)
Vert: 12=6(F) 13=28(B) 14=-67(F) 15=-3(B) 16=0(F) 17=14(B) 18=-11(F) 19=3(B)

June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss P01	Truss Type Piggyback Truss	Qty 1	Ply 1	Job Reference (optional)	16813402
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:02:59 2013 Page 1  
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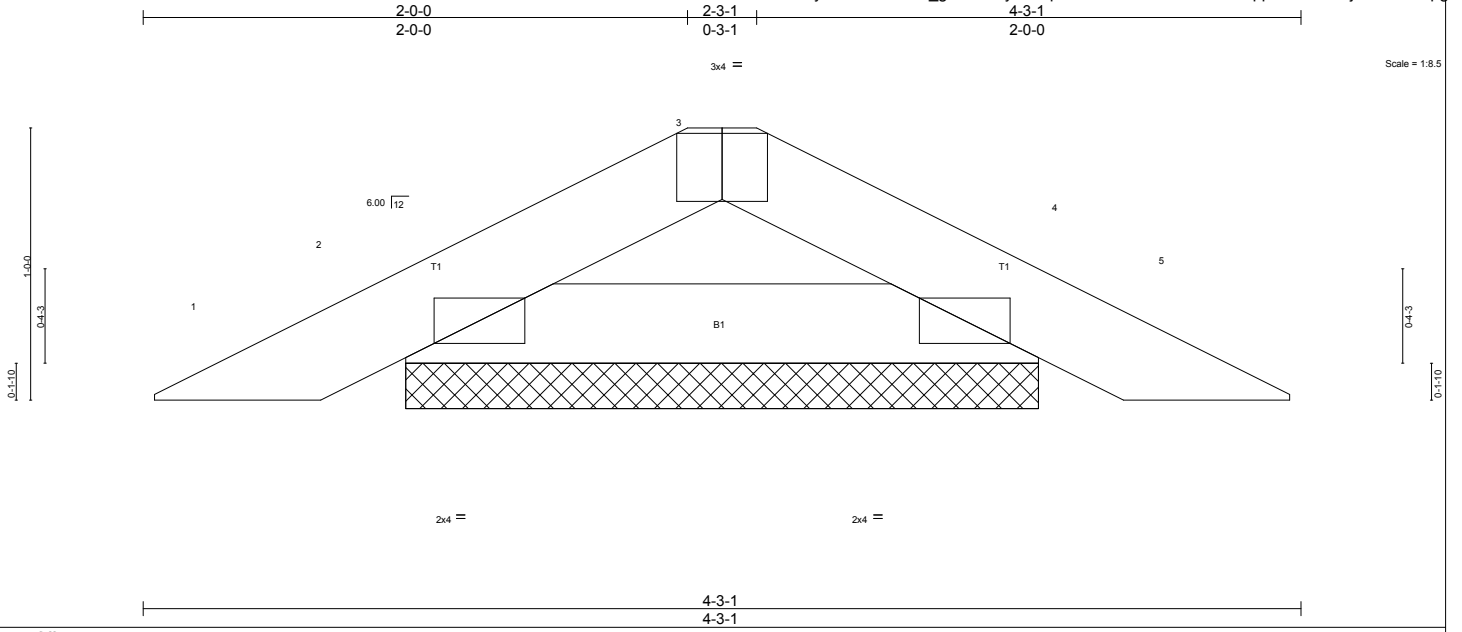


Plate Offsets (X,Y): [3:0-2-0,Edge]									
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.04	Vert(LL) -0.00	4	n/r	120		MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.05	Vert(TL) -0.00	4	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	4	n/a	n/a			
BCDL 5.0	Code FBC2010/TP12007	(Matrix)							
								Weight: 10 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins.
BOT CHORD 2x4 SP No.2	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=118/2-3-14 (min. 0-1-8), 4=118/2-3-14 (min. 0-1-8)  
 Max Horz 2=12(LC 11)  
 Max Uplift 2=-31(LC 12), 4=-31(LC 13)  
 Max Grav 2=136(LC 2), 4=136(LC 2)

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

- NOTES** (10-12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - "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.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



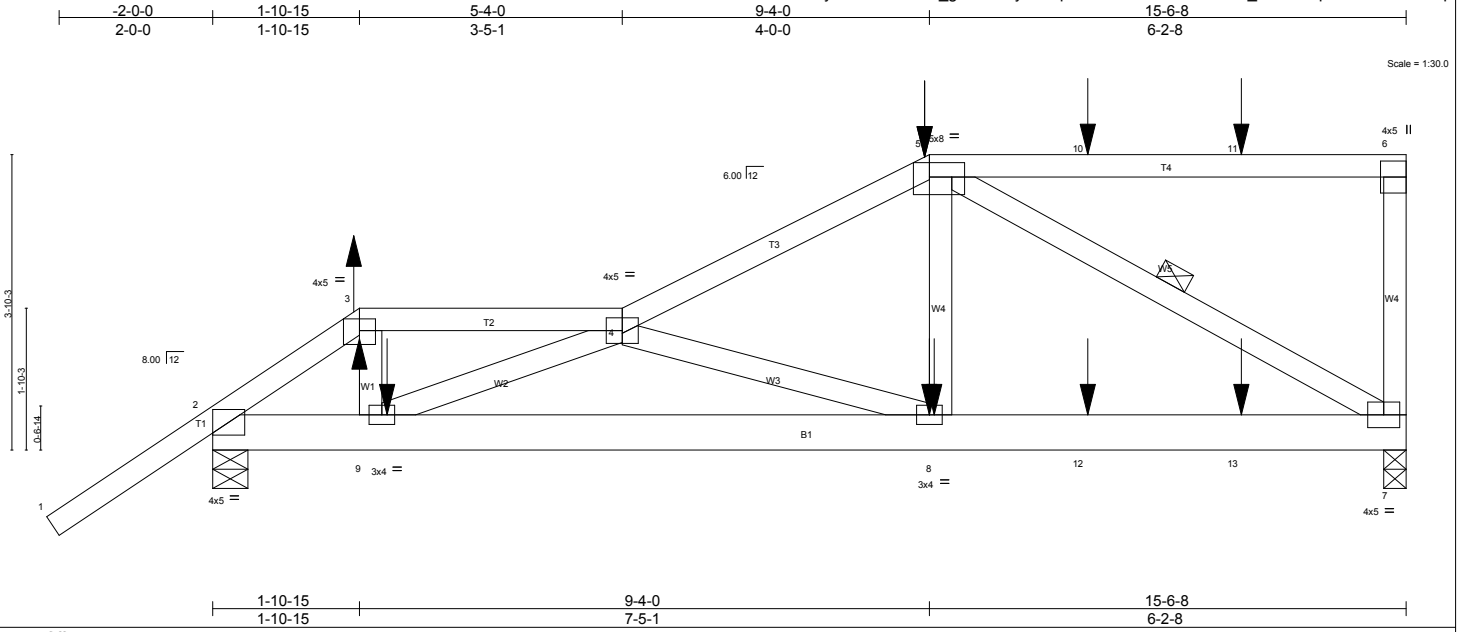
**LOAD CASE(S)** Standard

June 4, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 492601	Truss T01	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813403
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:01 2013 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFLL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.47	Vert(LL) 0.06 8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	Vert(TL) -0.13 8-9 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.03 7 n/a n/a		
				Weight: 96 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 T4: 2x4 SP No.1  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.  
 WEBS 1 Row at midpt 5-7

**REACTIONS** (lb/size) 7=999/0-3-8 (min. 0-1-8), 2=935/0-5-8 (min. 0-1-8)  
 Max Horz 2=150(LC 8)  
 Max Uplift 7=-436(LC 8), 2=-417(LC 8)  
 Max Grav 7=1144(LC 2), 2=1088(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1191/468, 3-4=-933/396, 4-5=-1554/637, 6-7=-321/140  
 BOT CHORD 2-9=-441/868, 8-9=-978/2239, 8-12=-614/1391, 12-13=-614/1391, 7-13=-614/1391  
 WEBS 3-9=-234/648, 4-9=-1430/563, 4-8=-931/398, 5-8=-249/802, 5-7=-1527/681

- NOTES** (10-12)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=436, 2=417.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb up at 1-10-15, 226 lb down and 266 lb up at 9-4-0, and 109 lb down and 108 lb up at 11-4-12, and 109 lb down and 108 lb up at 13-4-12 on top chord, and 50 lb up at 1-10-15, 156 lb down and 67 lb up at 2-3-4, 318 lb down and 193 lb up at 9-4-0, and 51 lb down at 11-4-12, and 51 lb down at 13-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 2-7=-10

Continued on page 2



June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T01	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813403
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:01 2013 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 3=73(B) 9=-99(B) 8=-279(B) 5=-195(B) 10=-94(B) 11=-94(B) 12=-24(B) 13=-24(B)



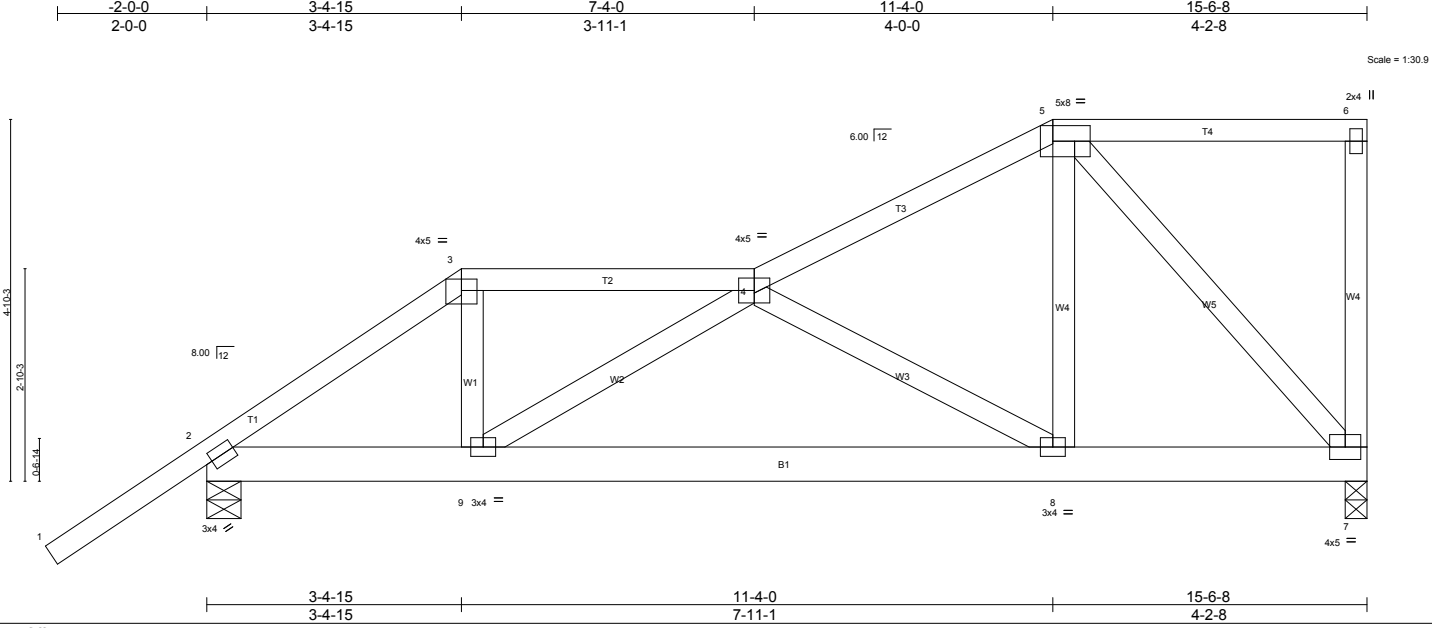
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss T02	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813404
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<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.23	Vert(LL) -0.03 8-9 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.42	Vert(TL) -0.07 8-9 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 102 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 7=520/0-3-8 (min. 0-1-8), 2=680/0-5-8 (min. 0-1-8)  
 Max Horz 2=184(LC 12)  
 Max Uplift 7=-122(LC 12), 2=-166(LC 12)  
 Max Grav 7=594(LC 2), 2=781(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-890/279, 3-4=-701/266, 4-5=-527/191  
 BOT CHORD 2-9=-376/716, 8-9=-515/991, 7-8=-225/452  
 WEBS 3-9=-31/278, 4-9=-352/183, 4-8=-642/342, 5-8=-130/397, 5-7=-657/326

- NOTES** (8-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=122, 2=166.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

Job 492601	Truss T03	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional)	16813405
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:03 2013 Page 1  
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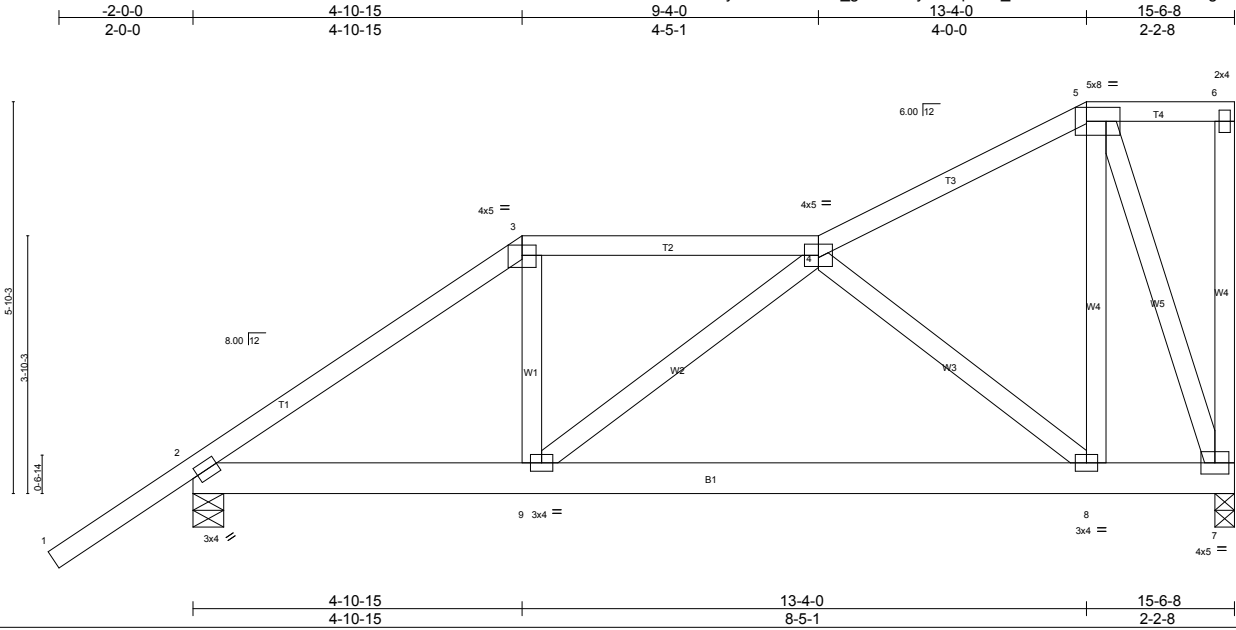


Plate Offsets (X,Y): [2:0-1-0,0-1-8], [3:0-2-8,0-1-13], [5:0-6-0,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.21	Vert(LL) -0.03 8-9 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.39	Vert(TL) -0.08 8-9 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 109 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

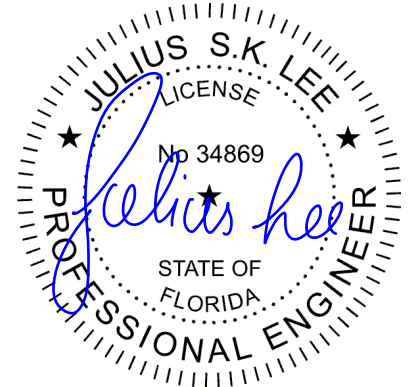
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 7=520/0-3-8 (min. 0-1-8), 2=680/0-5-8 (min. 0-1-8)  
 Max Horz 2=218(LC 12)  
 Max Uplift 7=-153(LC 12), 2=-160(LC 12)  
 Max Grav 7=594(LC 2), 2=781(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-865/242, 3-4=-673/256, 4-5=-284/65  
 BOT CHORD 2-9=-369/698, 8-9=-367/701  
 WEBS 4-8=-633/340, 5-8=-158/455, 5-7=-636/309

- NOTES** (8-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=153, 2=160.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T04	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813406
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:05 2013 Page 1  
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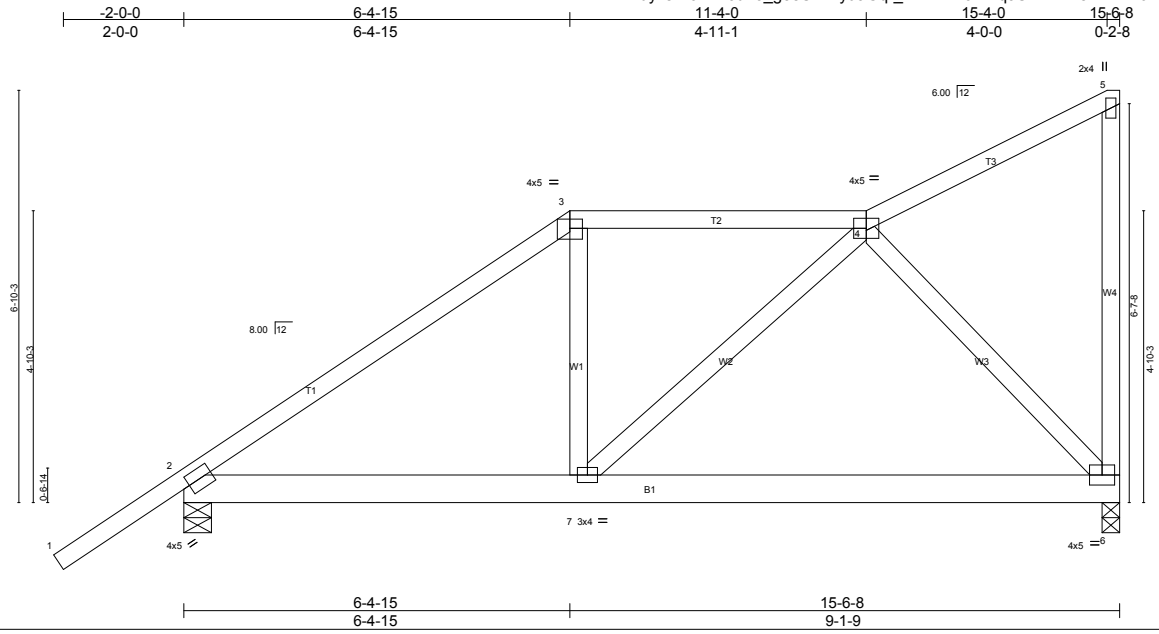


Plate Offsets (X,Y): [2:0-1-5,0-2-0], [3:0-2-8,0-1-13]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.58 BC 0.30 WB 0.46 (Matrix)	<b>DEFLL</b> in (loc) l/defl L/d Vert(LL) -0.05 6-7 >999 240 Vert(TL) -0.09 6-7 >999 180 Horz(TL) 0.01 6 n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 99 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 6=520/0-3-8 (min. 0-1-8), 2=680/0-5-8 (min. 0-1-8)  
 Max Horz 2=252(LC 12)  
 Max Uplift 6=-190(LC 12), 2=-148(LC 12)  
 Max Grav 6=594(LC 2), 2=781(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-812/180, 3-4=-620/224  
 BOT CHORD 2-7=-340/651, 6-7=-245/460  
 WEBS 4-7=-125/260, 4-6=-673/359

**NOTES** (8-10)  
 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 2) Provide adequate drainage to prevent water ponding.  
 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.  
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=190, 2=148.  
 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.  
 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.  
 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013



Job 492601	Truss T05	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813407
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:06 2013 Page 1  
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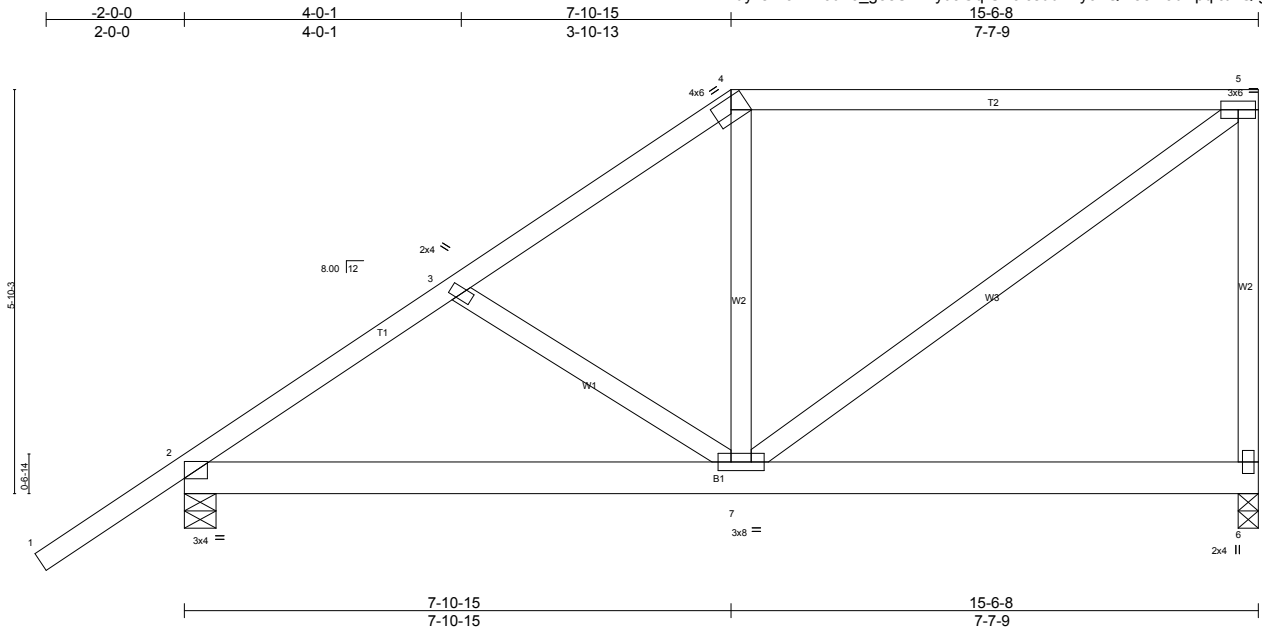


Plate Offsets (X,Y): [2:Edge,0-1-8]

<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	Plates Increase 1.25	TC 0.93	Vert(LL) -0.03 2-7 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.22	Vert(TL) -0.05 2-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(TL) 0.01 6 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 101 lb	FT = 20%

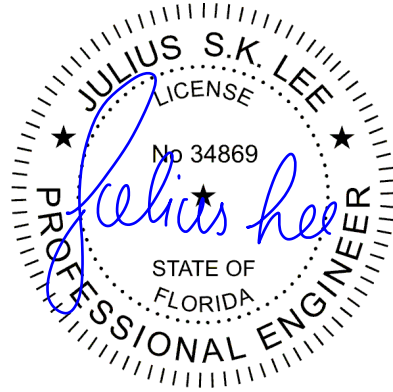
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 6=520/0-3-8 (min. 0-1-8), 2=680/0-5-8 (min. 0-1-8)  
 Max Horz 2=218(LC 12)  
 Max Uplift 6=-149(LC 9), 2=-138(LC 12)  
 Max Grav 6=594(LC 2), 2=781(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-903/264, 3-4=-664/221, 4-5=-539/241, 5-6=-638/327  
 BOT CHORD 2-7=-389/789  
 WEBS 3-7=-296/172, 5-7=-278/632

- NOTES** (8-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=149, 2=138.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013



Job 492601	Truss T06	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813408
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:07 2013 Page 1  
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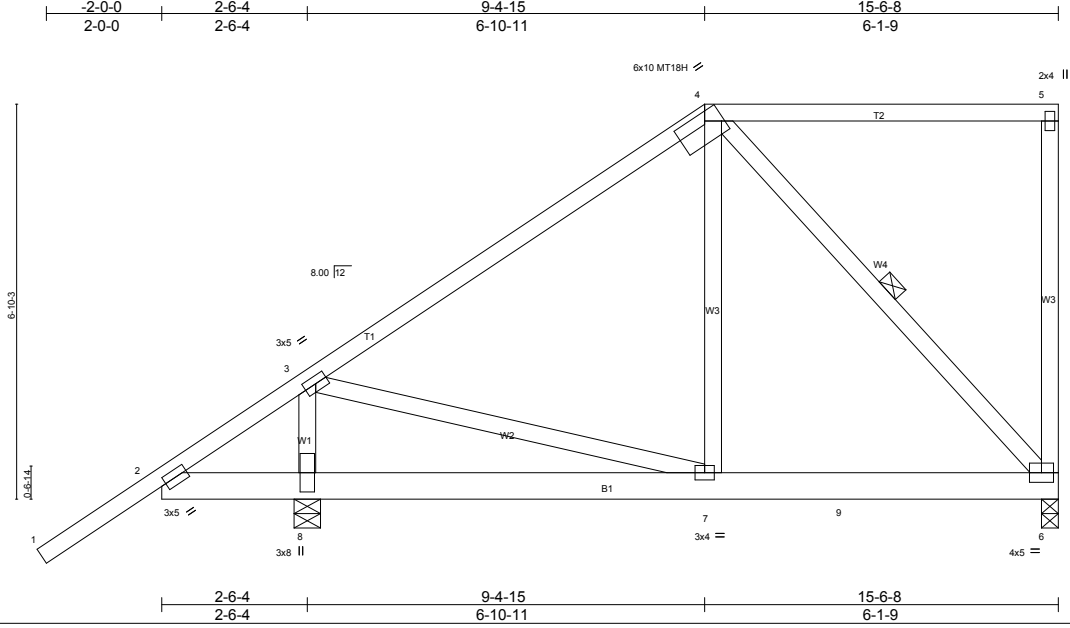


Plate Offsets (X,Y): [2:0-1-0,0-1-8], [4:0-6-8,0-1-12]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.19	Vert(LL) -0.01 7-8 >999 240	MT18H	244/190
BCLL 0.0 *	Lumber Increase 1.25	WB 0.20	Vert(TL) -0.02 7-8 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 6 n/a n/a		
	Code FBC2010/TPI2007			Weight: 109 lb	FT = 20%

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

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

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

**REACTIONS** (lb/size) 6=443/0-3-8 (min. 0-1-8), 8=829/0-5-8 (min. 0-1-8)  
 Max Horz 8=252(LC 12)  
 Max Uplift 6=-137(LC 9), 8=-157(LC 12)  
 Max Grav 6=455(LC 2), 8=923(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-453/475, 3-4=-483/81  
 BOT CHORD 2-8=-323/448, 7-8=-242/308, 7-9=-154/361, 6-9=-154/361  
 WEBS 3-8=-1103/591, 3-7=-203/488, 4-6=-512/215

**NOTES** (9-11)  
 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 2) Provide adequate drainage to prevent water ponding.  
 3) All plates are MT20 plates unless otherwise indicated.  
 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 = 5.0psf.  
 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.  
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=137, 8=157.  
 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.  
 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.  
 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

June 4, 2013

Job 492601	Truss T07	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) i6813409
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:08 2013 Page 1  
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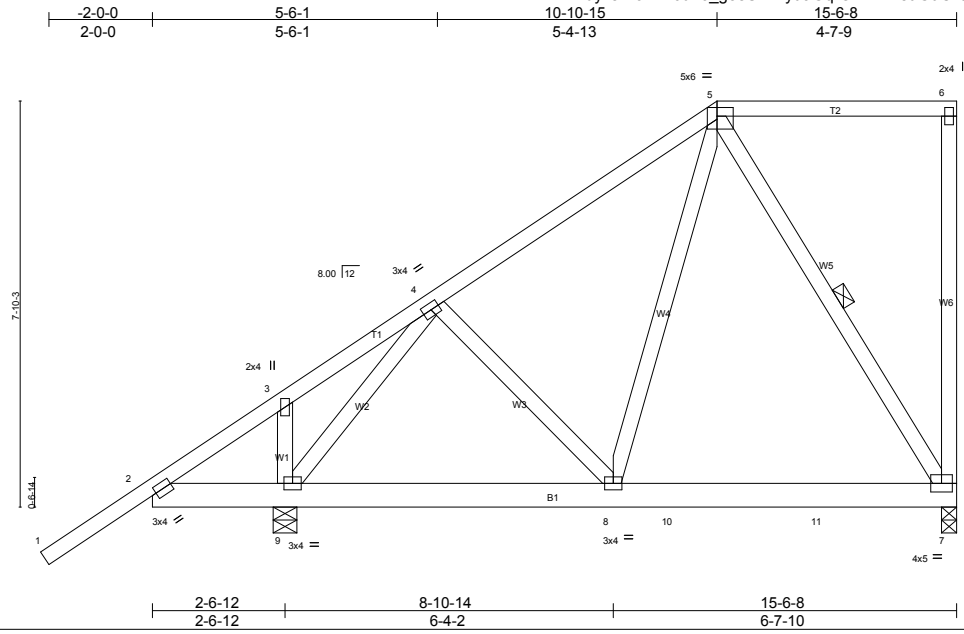


Plate Offsets (X,Y): [2:0-1-0,0-1-8], [5:0-3-12,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.16	Vert(LL) -0.02 7-8 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.43	Vert(TL) -0.04 7-8 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2010/TPI2007			Weight: 116 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-7

**REACTIONS** (lb/size) 7=456/0-3-8 (min. 0-1-8), 9=833/0-5-8 (min. 0-1-8)  
 Max Horz 9=286(LC 12)  
 Max Uplift 7=-141(LC 9), 9=-147(LC 12)  
 Max Grav 7=456(LC 1), 9=925(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-512/597, 3-4=-429/574, 4-5=-449/84  
 BOT CHORD 2-9=-516/550, 8-9=-233/444, 8-10=-130/278, 10-11=-130/278, 7-11=-130/278  
 WEBS 5-7=-527/247, 4-9=-1056/491

- NOTES** (8-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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, with BCDL = 5.0psf.
  - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 7=141, 9=147.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

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



June 4, 2013

Job 492601	Truss T08	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional)	16813410
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:09 2013 Page 1  
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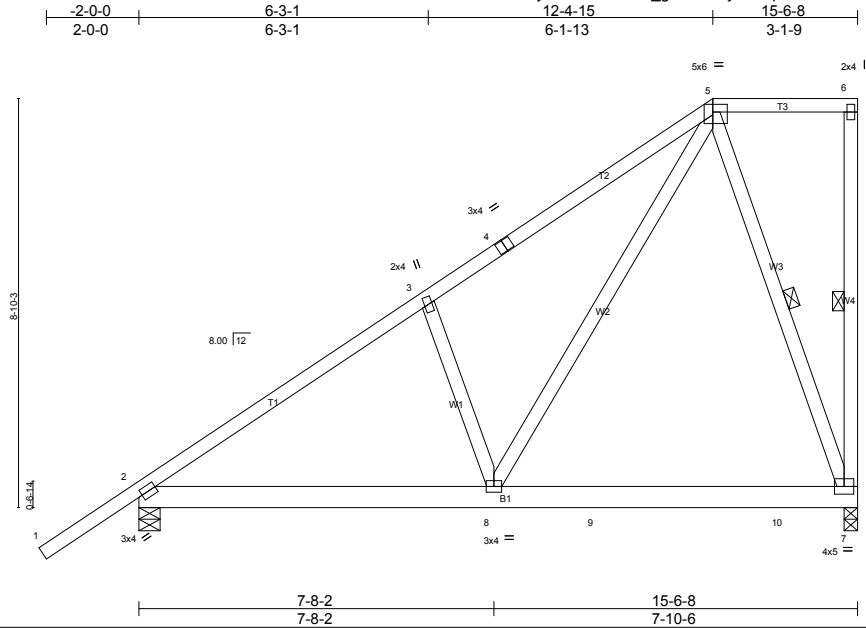


Plate Offsets (X,Y): [2:0-1-0,0-1-8], [5:0-3-12,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.25	Vert(LL) -0.06 7-8 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.55	Vert(TL) -0.09 7-8 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2010/TPI2007				Weight: 112 lb FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-7, 5-7

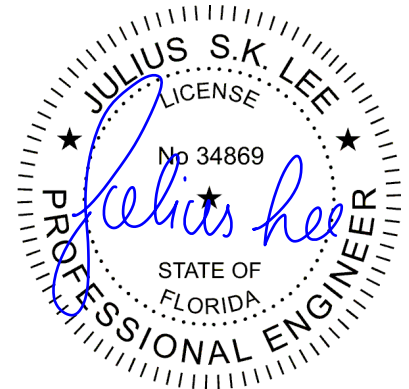
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 7=612/0-3-8 (min. 0-1-8), 2=707/0-5-8 (min. 0-1-8)  
Max Horz 2=319(LC 12)  
Max Uplift 7=-190(LC 12), 2=-111(LC 12)  
Max Grav 7=653(LC 21), 2=781(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-894/114, 3-4=-839/210, 4-5=-723/236  
BOT CHORD 2-8=-381/836, 8-9=-120/252, 9-10=-120/252, 7-10=-120/252  
WEBS 3-8=-566/339, 5-8=-309/822, 5-7=-747/361

- NOTES** (8-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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, with BC DL = 5.0psf.
  - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=190, 2=111.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss T09	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813411
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:10 2013 Page 1  
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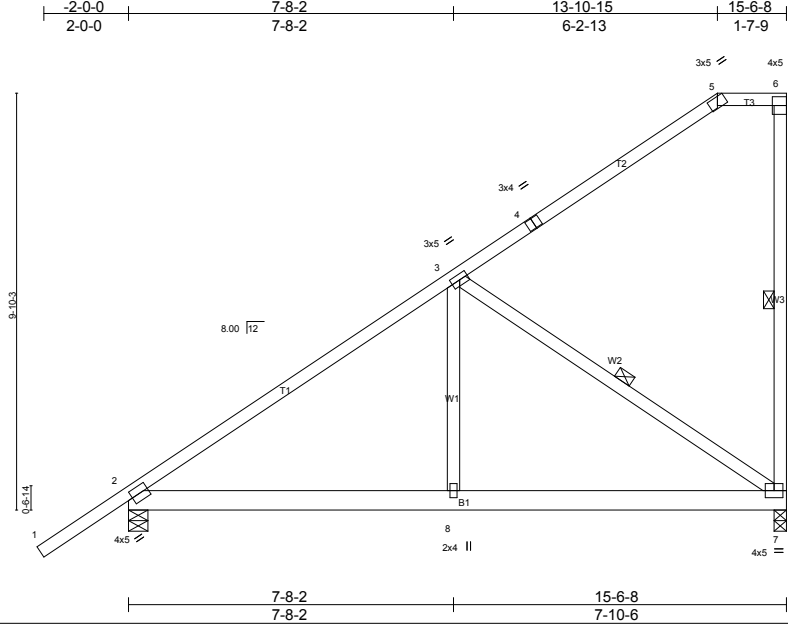


Plate Offsets (X,Y): [2:0-1-5,0-2-0], [5:0-2-0,0-2-3], [6:Edge,0-3-8]

<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	Plates Increase 1.25	TC 0.91	Vert(LL) -0.05 2-8 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.31	Vert(TL) -0.08 2-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(TL) 0.01 7 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 102 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-7, 3-7

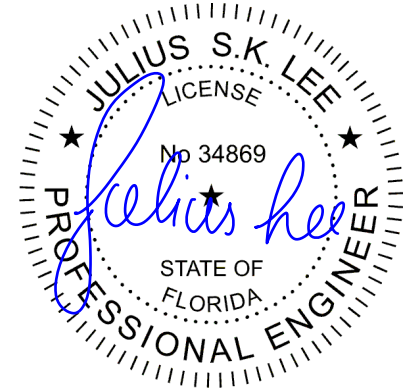
**REACTIONS** (lb/size) 7=520/0-3-8 (min. 0-1-8), 2=680/0-5-8 (min. 0-1-8)  
 Max Horz 2=354(LC 12)  
 Max Uplift 7=-226(LC 12), 2=-94(LC 12)  
 Max Grav 7=602(LC 21), 2=781(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-768/45, 6-7=-286/170  
 BOT CHORD 2-8=-349/736, 7-8=-349/736  
 WEBS 3-8=0/276, 3-7=-859/405

- NOTES** (9-11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf, BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=226.
  - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

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



June 4, 2013

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 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T10	Truss Type Monopitch Truss	Qty 7	Ply 1	Job Reference (optional) 6813412
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:11 2013 Page 1  
 ID: idyzswioVL?Jd1o\_g5eSWDyuaGq-pHbefahmZpaJACF3uSFKILWp0uKz59ZMiBCNnLz9ipU

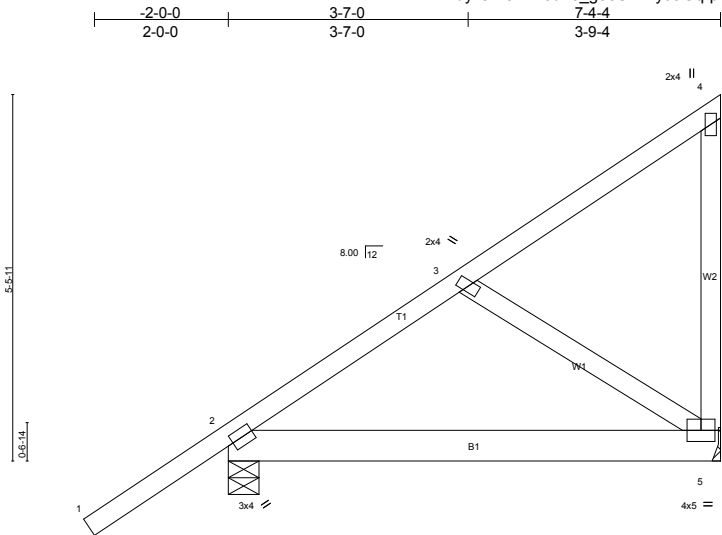


Plate Offsets (X,Y): [2:0-1-0,0-1-8]

<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	Plates Increase 1.25	TC 0.42	Vert(LL) -0.03 2-5 >999 240	MT20 244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.16	Vert(TL) -0.04 2-5 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(TL) 0.00 5 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 47 lb FT = 20%

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

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

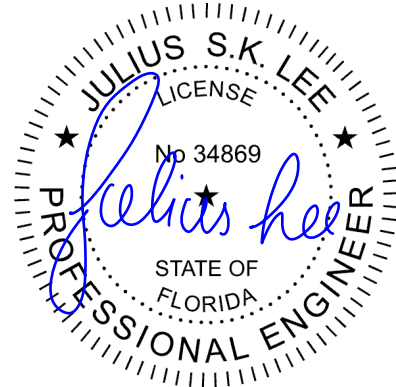
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=221/Mechanical, 2=406/0-5-8 (min. 0-1-8)  
 Max Horz 2=201(LC 12)  
 Max Uplift 5=-118(LC 12), 2=-60(LC 2)  
 Max Grav 5=278(LC 21), 2=468(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-303/7  
 BOT CHORD 2-5=-189/312  
 WEBS 3-5=-361/222

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=118.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T11	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813413
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:12 2013 Page 1  
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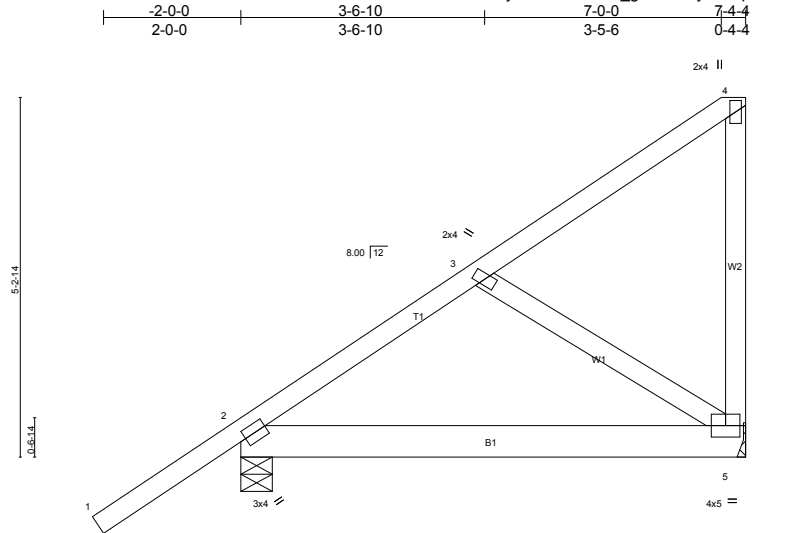


Plate Offsets (X,Y): [2:0-1-0,0-1-8]

<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	Plates Increase 1.25	TC 0.42	Vert(LL) -0.03 2-5 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.16	Vert(TL) -0.04 2-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(TL) 0.00 5 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 47 lb	FT = 20%

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

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

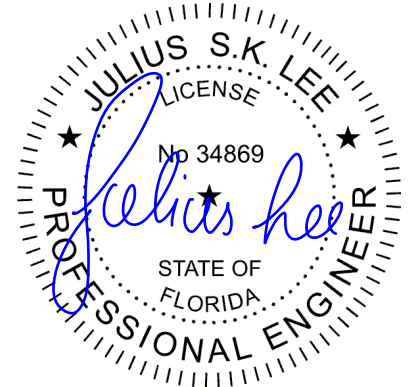
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=221/Mechanical, 2=406/0-5-8 (min. 0-1-8)  
 Max Horz 2=201(LC 12)  
 Max Uplift 5=-118(LC 12), 2=-60(LC 12)  
 Max Grav 5=278(LC 21), 2=468(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-304/8  
 BOT CHORD 2-5=-191/315  
 WEBS 3-5=-363/223

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=118.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T12	Truss Type Half Hip Truss	Qty 1	Ply 1	6813414
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:13 2013 Page 1  
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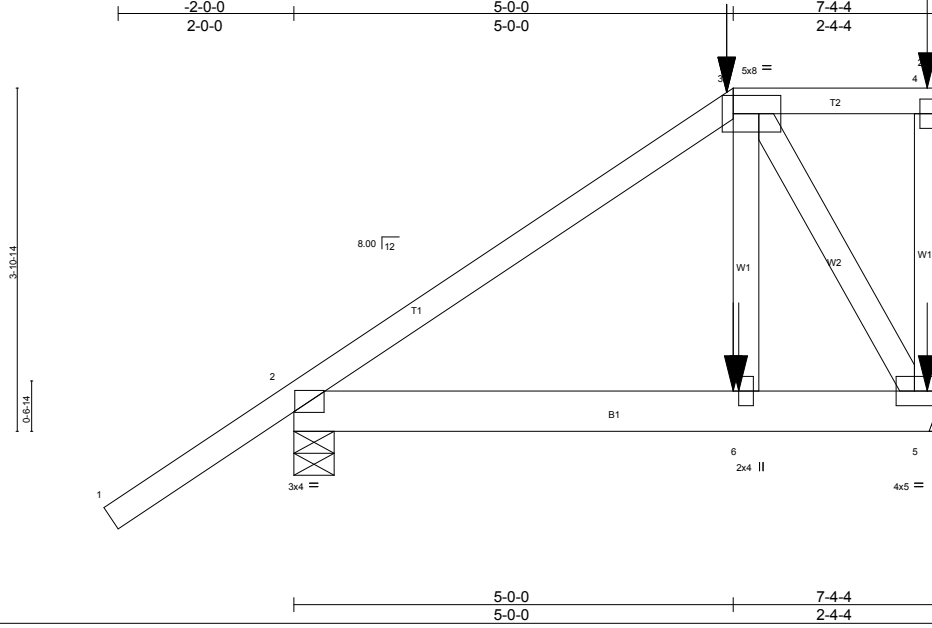


Plate Offsets (X,Y): [3:0-6-8,0-2-8]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.48	Vert(LL) -0.01 2-6 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.10	Vert(TL) -0.01 2-6 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Horz(TL) 0.00 5 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 48 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=363/Mechanical, 2=442/0-5-8 (min. 0-1-8)  
 Max Horz 2=152(LC 8)  
 Max Uplift 5=-447(LC 8), 2=-183(LC 8)  
 Max Grav 5=415(LC 2), 2=510(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-330/161  
 WEBS 3-5=-326/323

- NOTES** (10-13)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=447, 2=183.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 329 lb up at 5-0-0, and 55 lb down and 158 lb up at 7-2-8 on top chord, and 93 lb down and 62 lb up at 5-0-0, and 41 lb down and 50 lb up at 7-2-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 13) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 2-5=-10  
 Concentrated Loads (lb)  
 Vert: 4=-47(F) 5=-14(F) 6=-26(F) 3=-92(F)

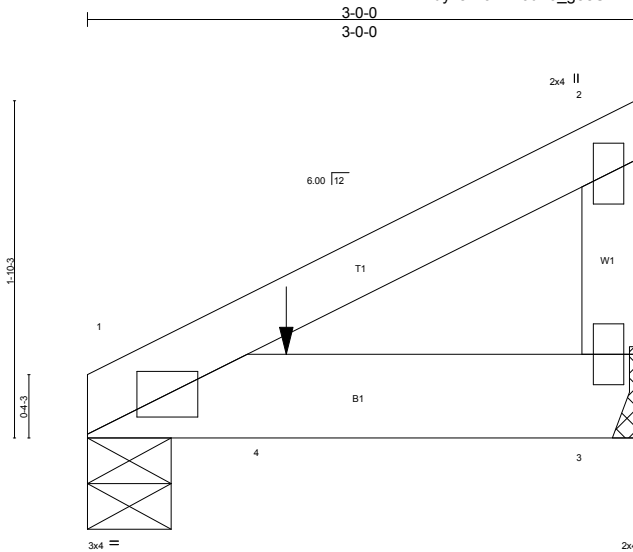


June 4, 2013



Job 492601	Truss T13	Truss Type Monopitch Truss	Qty 1	Ply 1	16813415
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:13 2013 Page 1  
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Scale = 1:12.6

<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.15 BC 0.12 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 1-3 >999 240 Vert(TL) -0.00 1-3 >999 180 Horz(TL) 0.00 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 14 lb FT = 20%
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**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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=200/0-5-8 (min. 0-1-8), 3=144/Mechanical  
Max Horz 1=47(LC 8)  
Max Uplift 1=52(LC 8), 3=57(LC 8)  
Max Grav 1=229(LC 2), 3=166(LC 2)

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

**NOTES** (9-12)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down and 62 lb up at 1-1-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- 12) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 1-3=-10  
Concentrated Loads (lb)  
Vert: 4=-161(B)



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435



Job 492601	Truss T14	Truss Type Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813416
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:15 2013 Page 1  
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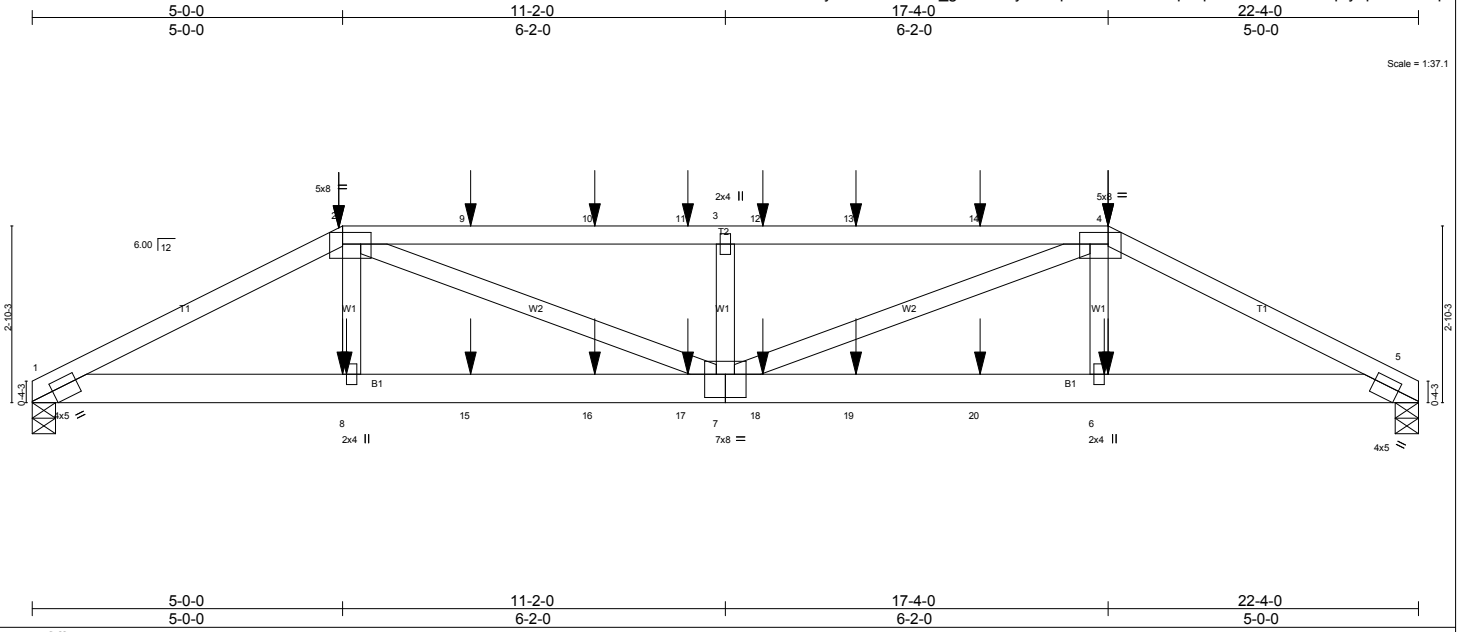


Plate Offsets (X,Y): [1:0-4-6,0-1-9], [2:0-5-8,0-2-4], [4:0-5-8,0-2-4], [5:0-4-6,0-1-9], [7:0-4-0,0-4-8]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.88	Vert(LL) 0.27 7 >992 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.49	Vert(TL) -0.32 7 >813 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Horz(TL) 0.06 5 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 115 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2 *Except* T2: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-3-12 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 1=1131/0-4-8 (min. 0-1-8), 5=1131/0-4-8 (min. 0-1-8)  
 Max Horz 1=33(LC 5)  
 Max Uplift 1=1007(LC 5), 5=1010(LC 4)  
 Max Grav 1=1293(LC 2), 5=1293(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2550/2085, 2-9=-3245/2763, 9-10=-3245/2763, 10-11=-3245/2763, 3-11=-3244/2763,  
 3-12=-3244/2763, 12-13=-3245/2763, 13-14=-3245/2763, 4-14=-3245/2763, 4-5=-2550/2090  
 BOT CHORD 1-8=-1855/2207, 8-15=-1868/2215, 15-16=-1868/2215, 16-17=-1868/2215, 7-17=-1868/2215,  
 7-18=-1842/2215, 18-19=-1842/2215, 19-20=-1842/2215, 6-20=-1842/2215, 5-6=-1830/2207  
 WEBS 2-8=-213/346, 2-7=-980/1184, 3-7=-751/527, 4-7=-963/1161, 4-6=-213/346

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=1007, 5=1010.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 154 lb down and 296 lb up at 5-0-0, 62 lb down and 130 lb up at 7-0-12, 62 lb down and 130 lb up at 9-0-12, 62 lb down and 130 lb up at 10-6-12, 62 lb down and 130 lb up at 11-9-4, 62 lb down and 130 lb up at 13-3-4, and 62 lb down and 130 lb up at 15-3-4, and 194 lb down and 296 lb up at 17-4-0 on top chord, and 107 lb down and 126 lb up at 5-0-0, 42 lb down and 51 lb up at 7-0-12, 42 lb down and 51 lb up at 9-0-12, 42 lb down and 51 lb up at 10-6-12, 42 lb down and 51 lb up at 11-9-4, 42 lb down and 51 lb up at 13-3-4, and 42 lb down and 51 lb up at 15-3-4, and 107 lb down and 126 lb up at 17-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard  
 Continued on page 2

June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
492601	T14	Hip Truss	1	1	

I6813416

Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:15 2013 Page 2  
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**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-5=-60, 1-5=-10

Concentrated Loads (lb)

Vert: 2=-129(B) 4=-129(B) 8=-32(B) 6=-32(B) 9=-53(B) 10=-53(B) 11=-53(B) 12=-53(B) 13=-53(B) 14=-53(B) 15=-14(B) 16=-14(B) 17=-14(B) 18=-14(B) 19=-14(B) 20=-14(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T15	Truss Type Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813417
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:17 2013 Page 1  
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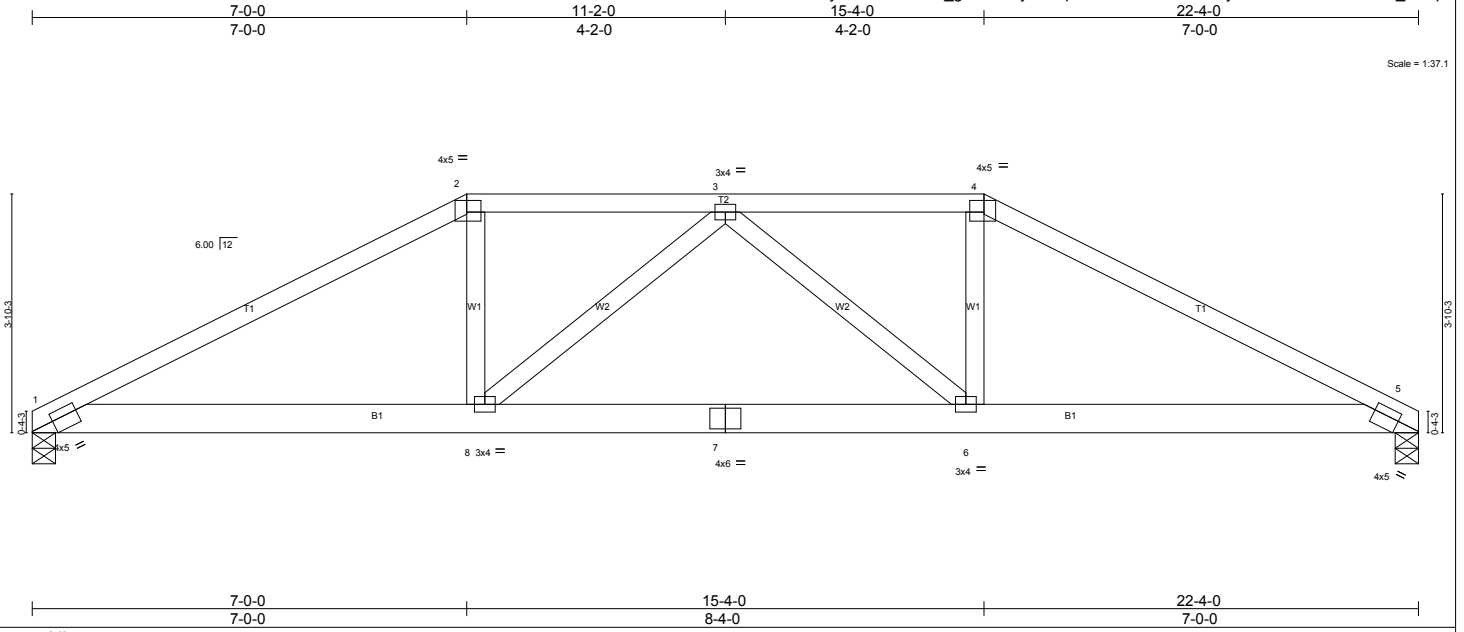


Plate Offsets (X,Y): [1:0-4-6,0-1-9], [2:0-2-12,0-2-4], [4:0-2-12,0-2-4], [5:0-4-6,0-1-9]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.87	Vert(LL) 0.16 6-8 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.35	Vert(TL) 0.13 6-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(TL) -0.04 5 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 112 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-10-3 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 1=769/0-4-8 (min. 0-1-8), 5=769/0-4-8 (min. 0-1-8)  
 Max Horz 1=47(LC 9)  
 Max Uplift 1=-386(LC 9), 5=-386(LC 8)  
 Max Grav 1=878(LC 2), 5=878(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1505/1685, 2-3=-1254/1605, 3-4=-1254/1605, 4-5=-1505/1685  
 BOT CHORD 1-8=-1398/1244, 7-8=-1489/1401, 6-7=-1489/1401, 5-6=-1398/1244  
 WEBS 2-8=-492/308, 3-8=-296/116, 3-6=-296/116, 4-6=-492/308

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=386, 5=386.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

June 4, 2013

Job	Truss	Truss Type	Qty	Ply	6813418
492601	T16	Hip Truss	1	1	

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:18 2013 Page 1  
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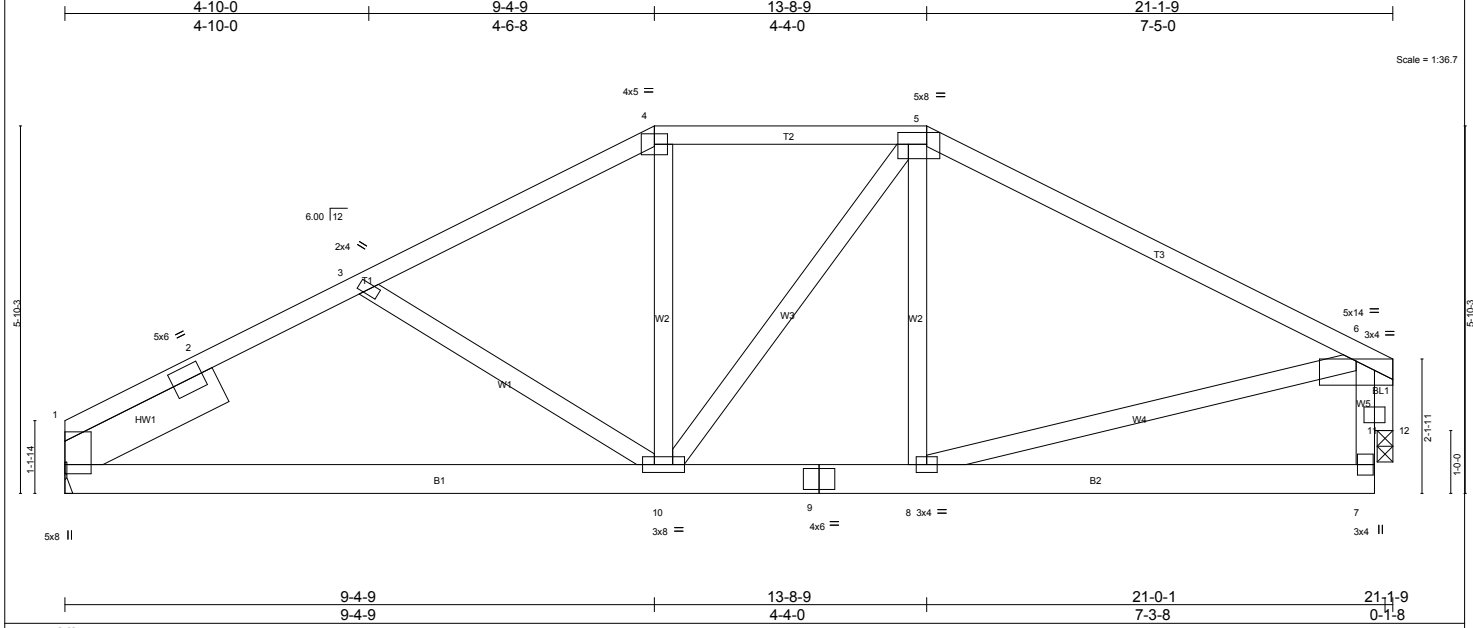


Plate Offsets (X,Y): [5:0-5-8,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFLL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.30	Vert(LL) -0.06 1-10 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.20	Vert(TL) -0.12 1-10 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 12 n/a n/a		
	Code FBC2010/TPI2007			Weight: 139 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
SLIDER Left 2x8 SP 2400F 2.0E 2-9-7	

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

**REACTIONS** (lb/size) 1=735/Mechanical, 12=713/0-3-0 (min. 0-1-8)  
 Max Horz 1=110(LC 12)  
 Max Uplift 1=-154(LC 12), 12=-137(LC 13)  
 Max Grav 1=840(LC 2), 12=815(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1296/604, 2-3=-1212/617, 3-4=-1026/515, 4-5=-882/515, 5-6=-994/468  
 BOT CHORD 1-10=-523/1030, 9-10=-309/775, 8-9=-309/775, 7-8=-156/280  
 WEBS 6-8=-160/519

- NOTES** (10-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=154, 12=137.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T17	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813419
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:20 2013 Page 1  
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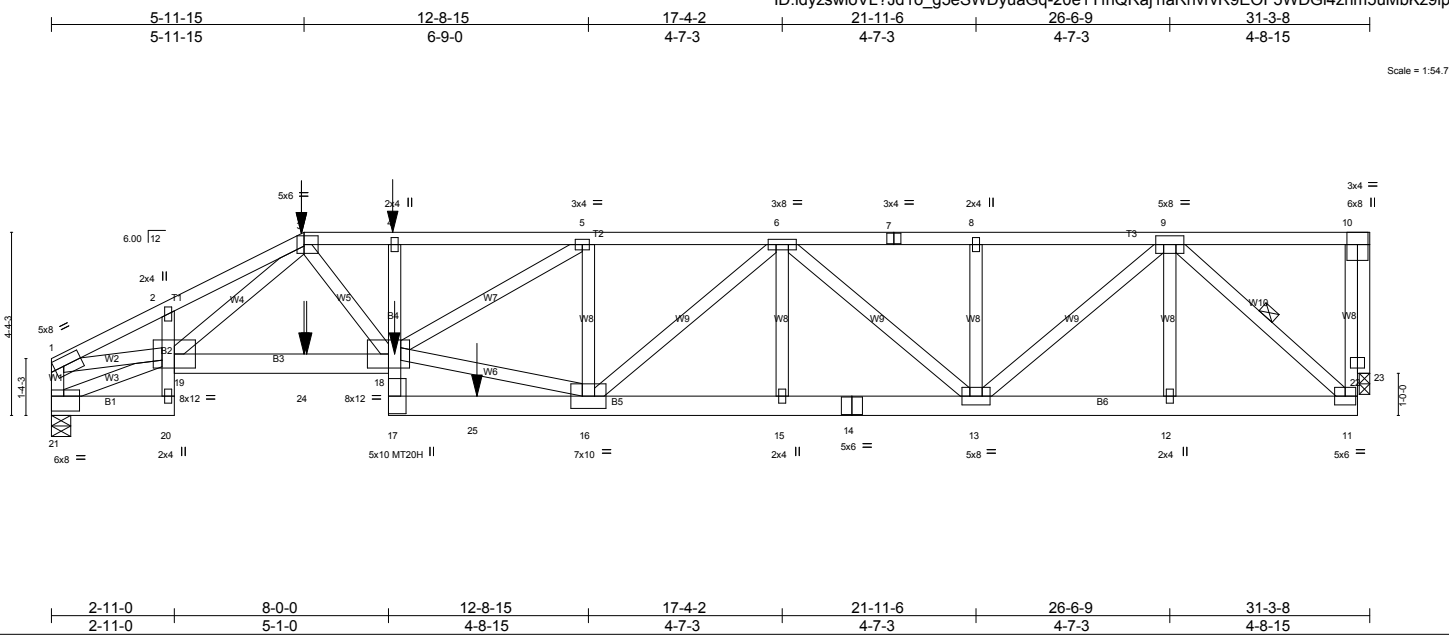


Plate Offsets (X,Y): [3:0-4:0,0-2:8], [2:1:Edge,0-4:4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.85	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.85	Vert(LL) 0.25 16-17 >999 240	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Vert(TL) -0.60 16-17 >622 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.20 23 n/a n/a		
				Weight: 226 lb	FT = 20%

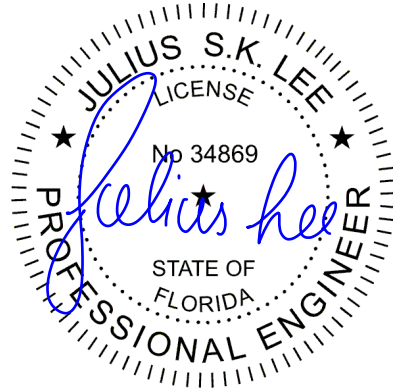
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
B2: 2x4 SP No.3, B3: 2x6 SP SS, B4: 2x4 SP No.2	WEBS 1 Row at midpt 9-11
WEBS 2x4 SP No.3 *Except*	
W6,W2: 2x4 SP No.2	
OTHERS 2x4 SP No.3	

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

**REACTIONS** (lb/size) 21=1896/0-5-8 (min. 0-2-9), 23=1379/0-3-0 (min. 0-1-14)  
 Max Horz 21=100(LC 8)  
 Max Uplift 21=803(LC 5), 23=473(LC 5)  
 Max Grav 21=2169(LC 2), 23=1577(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=4330/1708, 2-3=4438/1802, 3-4=4697/1831, 4-5=4650/1809, 5-6=4097/1410,  
 6-7=2883/907, 7-8=2883/907, 8-9=2883/907, 11-22=425/1443, 10-22=425/1443,  
 1-21=2097/819  
 BOT CHORD 19-24=1507/3704, 18-24=1507/3704, 17-18=125/521, 4-18=288/186, 17-25=164/598,  
 16-25=164/598, 15-16=1200/3658, 14-15=1200/3658, 13-14=1200/3658, 12-13=511/1673,  
 11-12=511/1673  
 WEBS 3-19=243/321, 3-18=565/1690, 5-18=545/658, 5-16=700/384, 16-18=1275/3580,  
 6-16=395/580, 6-13=1024/387, 9-13=524/1598, 9-11=2062/630, 8-13=316/115,  
 1-19=1447/3672

- NOTES** (12-14)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 7) Bearing at joint(s) 23 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) except (jt=lb) 21=803, 23=473.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 259 lb up at 5-11-15, and 97 lb down and 163 lb up at 8-1-3 on top chord, and 189 lb down and 219 lb up at 5-11-15, and 53 lb down and 20 lb up at 8-1-12, and 826 lb down and 224 lb up at 10-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Continued on page 2

June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
492601	T17	Half Hip Truss	1	1	6813419

Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:20 2013 Page 2  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-20e1YfnQRaj1aRnrvrR9EOF5WDGI4zhm5uMbKz9ipl

- 12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 13) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-10=-60, 20-21=-10, 18-19=-10, 11-17=-10

Concentrated Loads (lb)

Vert: 3=-132(F) 18=-24(F) 4=-84(F) 24=-165(F) 25=-721(F)



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

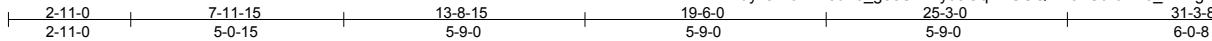
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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 1109 Coastal Bay  
 Boynton Beach, FL 33435

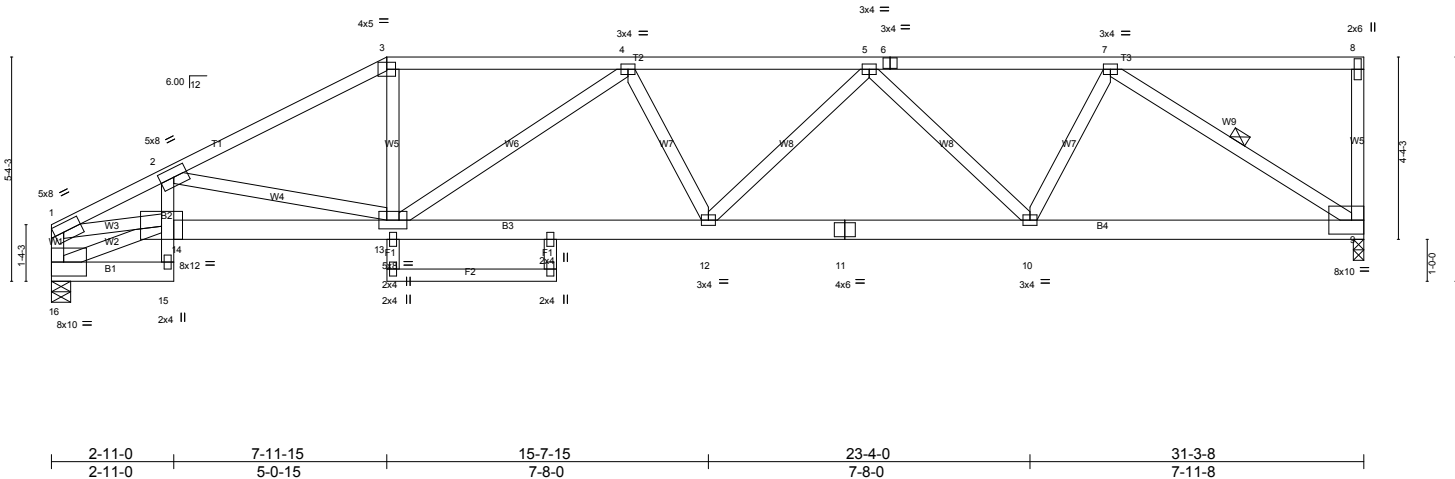
Job 492601	Truss T18	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813420
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:21 2013 Page 1

ID:idyzswioVL?Jd1o\_g5eSWDyuaGq-WCCQm?o2CuruNk0\_TZRgiSxVlwbCRVhq?ldv7mz9ipK



Scale = 1:54.9



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.50 BC 0.74 WB 0.93 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d TC (LL) 0.18 12 >999 240 Vert(TL) -0.33 12-13 >999 180 Horz(TL) 0.17 9 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 207 lb FT = 20%
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<b>LUMBER</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* WEBS 2x4 SP No.3	<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 3-3-13 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 5-9-3 oc bracing. Except: WEBS 1 Row at midpt 7-9
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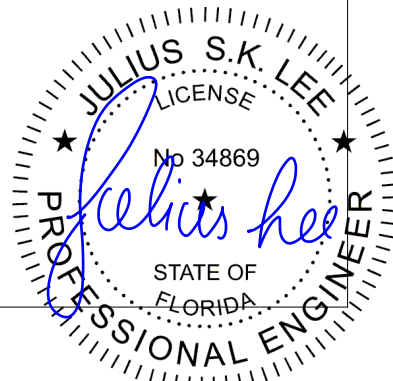
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 9=1085/0-3-0 (min. 0-1-8), 16=1085/0-5-8 (min. 0-1-8)  
Max Horz 16=133(LC 12)  
Max Uplift 9=-302(LC 9), 16=-228(LC 9)  
Max Grav 9=1240(LC 2), 16=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2989/1507, 2-3=-2224/1015, 3-4=-1965/974, 4-5=-2469/1144, 5-6=-1858/835, 6-7=-1858/835, 1-16=-1221/623  
BOT CHORD 2-14=-201/308, 13-14=-1634/2876, 12-13=-1191/2495, 11-12=-1100/2353, 10-11=-1100/2353, 9-10=-729/1573  
WEBS 2-13=-959/686, 3-13=-225/584, 4-13=-658/265, 5-10=-713/382, 7-10=-244/657, 7-9=-1864/864, 1-14=-1273/2537

**NOTES** (8-10)  
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) Provide adequate drainage to prevent water ponding.  
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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.  
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=302, 16=228.  
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.  
9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.  
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



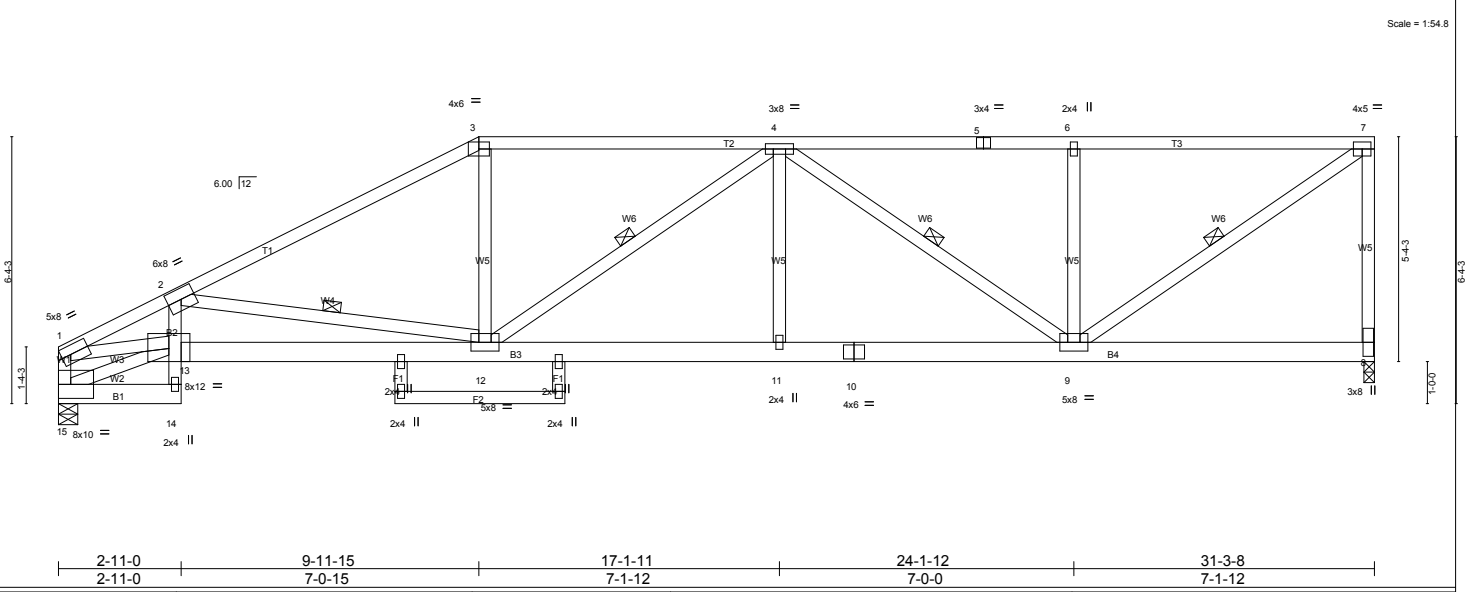
June 4, 2013

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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss T19	Truss Type Half Hip Truss	Qty 1	Ply 1	6813421
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:23 2013 Page 1  
 ID: idyzswioVL?Jd1o\_g5eSWDYuaGq-SbKABgqIKV5cc29Mbzt8nt0jNkF?vPs7S360Cfz9ip



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.97 BC 0.85 WB 0.95 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d TC 0.17 12-13 >999 240 Vert(TL) -0.29 12-13 >999 180 Horz(TL) 0.16 8 n/a n/a	<b>PLATES</b> MT20 Weight: 215 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B2,F2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

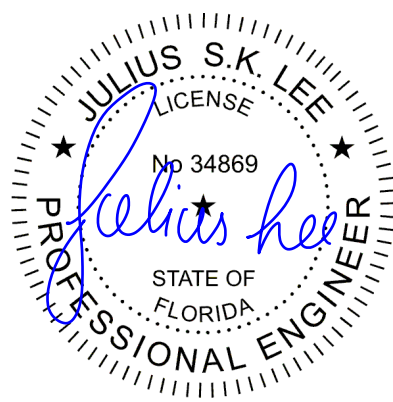
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-4-15 oc bracing.  
 WEBS 1 Row at midpt 2-12, 4-12, 4-9, 7-9

**REACTIONS** (lb/size) 8=1085/0-3-0 (min. 0-1-8), 15=1085/0-5-8 (min. 0-1-8)  
 Max Horz 15=167(LC 12)  
 Max Uplift 8=-301(LC 9), 15=-210(LC 9)  
 Max Grav 8=1240(LC 2), 15=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-3045/1578, 2-3=-2092/938, 3-4=-1814/921, 4-5=-1454/678, 5-6=-1454/678, 6-7=-1454/678, 7-8=-1230/597, 1-15=-1213/627  
 BOT CHORD 2-13=-198/302, 12-13=-1847/3079, 11-12=-977/2039, 10-11=-977/2039, 9-10=-977/2039  
 WEBS 2-12=-1296/943, 3-12=-122/446, 4-12=-297/142, 4-9=-717/368, 7-9=-814/1750, 6-9=-532/312, 1-13=-1359/2616

**NOTES** (8-10)  
 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 2) Provide adequate drainage to prevent water ponding.  
 3) This truss has been designed for a live load of 20.0psf 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.  
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 8=301, 15=210.  
 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.  
 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.  
 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

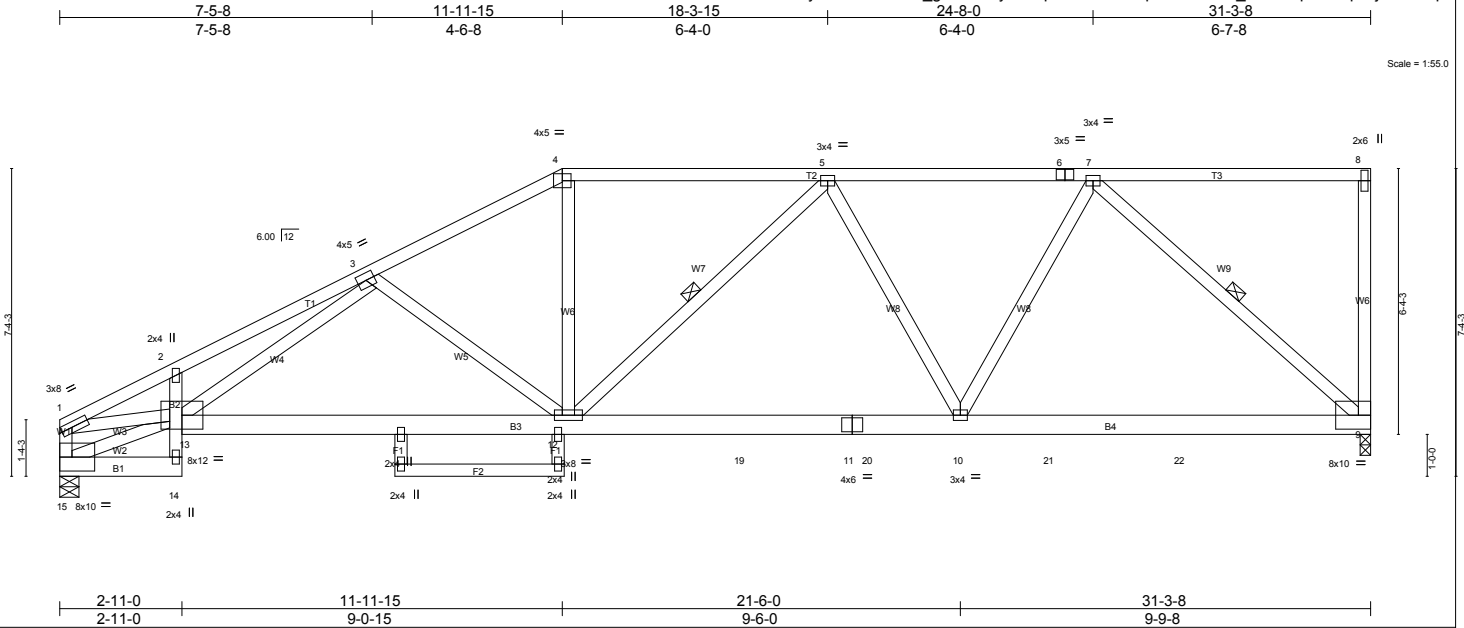
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss T20	Truss Type Half Hip Truss	Qty 1	Ply 1	Job Reference (optional) 6813422
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Builders FirstSource, Jacksonville, FL 32244 7:350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:24 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-wnuY00rwVpDTEckZ8h\_NJ4Z?q8iaeuqGhjsak5z9ipH



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.55 BC 0.44 WB 0.77 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.13 12-13 >999 240 Vert(TL) -0.25 12-13 >999 180 Horz(TL) 0.11 9 n/a n/a	<b>PLATES</b> MT20 Weight: 219 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-10-11 oc bracing.  
 WEBS 1 Row at midpt 5-12, 7-9

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

**REACTIONS** (lb/size) 9=1214/0-3-0 (min. 0-1-11), 15=1143/0-5-8 (min. 0-1-9)  
 Max Horz 15=201(LC 12)  
 Max Uplift 9=-299(LC 9), 15=-202(LC 12)  
 Max Grav 9=1240(LC 2), 15=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2651/1277, 2-3=-2792/1424, 3-4=-1999/876, 4-5=-1754/838, 5-6=-1596/671, 6-7=-1596/671, 1-15=-1308/642  
 BOT CHORD 2-13=-280/211, 12-13=-1149/2145, 12-19=-823/1813, 11-19=-823/1813, 11-20=-823/1813, 10-20=-823/1813, 10-21=-556/1253, 21-22=-556/1253, 9-22=-556/1253  
 WEBS 3-13=-398/456, 3-12=-504/395, 4-12=-174/501, 5-10=-476/324, 7-10=-247/731, 7-9=-1676/745, 1-13=-1066/2230

**NOTES** (8-10)  
 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 2) Provide adequate drainage to prevent water ponding.  
 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, with BCDL = 5.0psf.  
 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.  
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=299, 15=202.  
 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.  
 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.  
 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

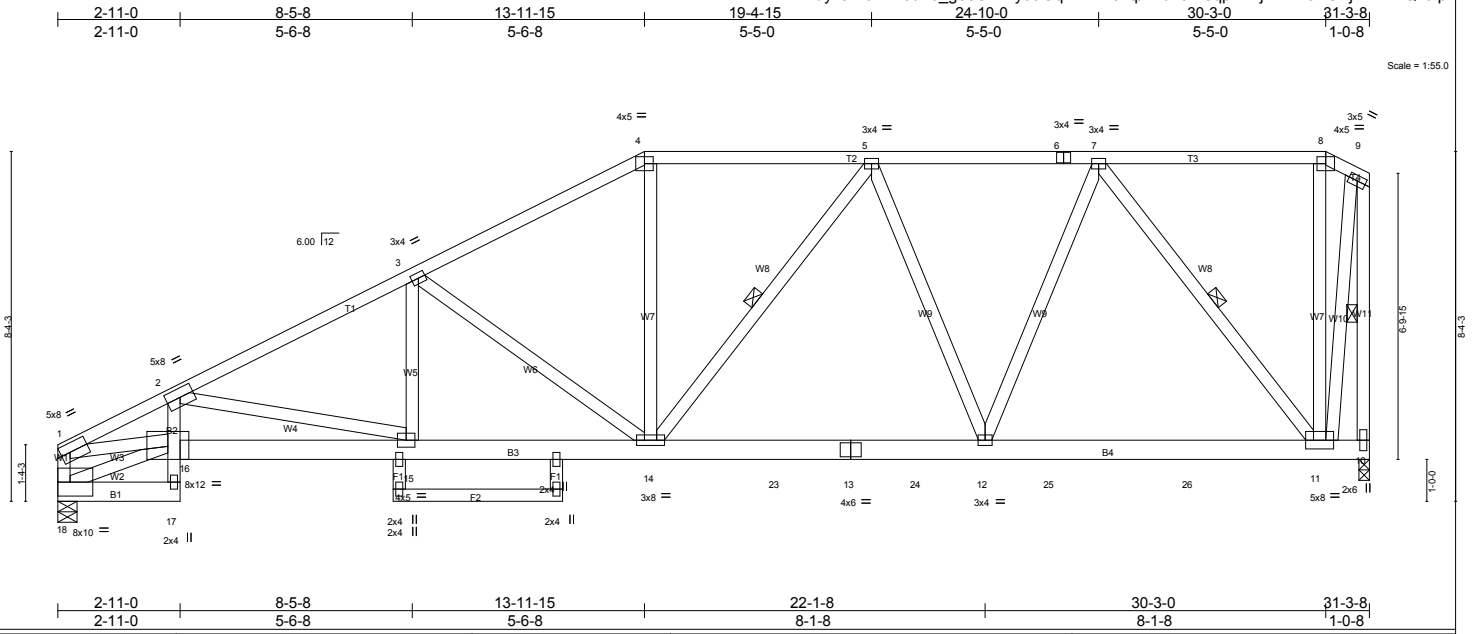
June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T21	Truss Type Hip Truss	Qty 1	Ply 1	6813423
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:27 2013 Page 1  
 ID:idyzswioVL?Jd1o\_g5eSWDyuaGq-LMZho2tpnkb25fT8qpX4xBVLerrCAjNh4ELQz9ipE



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>2-0-0</b> 2-0-0 1.25 1.25 YES FBC2010/TPI2007	<b>CSI</b> TC 0.45 BC 0.73 WB 0.93 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d TC (LL) 0.14 15-16 >999 240 Vert(TL) -0.24 15-16 >999 180 Horz(TL) 0.14 10 n/a n/a	<b>PLATES</b> MT20 Weight: 250 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B2,F2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

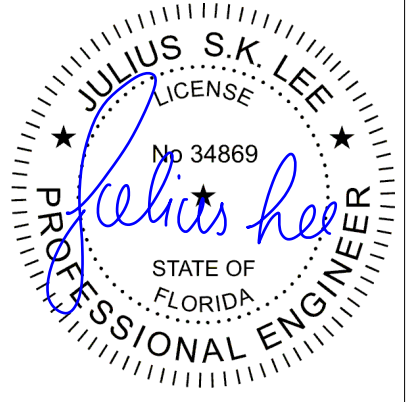
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.  
 WEBS 1 Row at midpt 5-14, 7-11, 9-10

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

**REACTIONS** (lb/size) 10=1227/0-3-0 (min. 0-1-11), 18=1143/0-5-8 (min. 0-1-9)  
 Max Horz 18=225(LC 12)  
 Max Uplift 10=276(LC 9), 18=211(LC 12)  
 Max Grav 10=1240(LC 2), 18=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-3182/1624, 2-3=-2358/1028, 3-4=-1823/803, 4-5=-1581/778, 5-6=-1342/596, 6-7=-1342/596, 1-18=-1299/670, 9-10=-1347/522  
 BOT CHORD 2-16=-271/349, 15-16=-1864/3089, 14-15=-1118/2103, 14-23=-691/1518, 13-23=-691/1518, 13-24=-691/1518, 12-24=-691/1518, 12-25=-466/1058, 25-26=-466/1058, 11-26=-466/1058  
 WEBS 2-15=-1010/765, 3-14=-667/457, 4-14=-141/420, 5-12=-504/332, 7-12=-290/766, 7-11=-1412/640, 9-11=-493/1265, 1-16=-1376/2703, 16-18=-268/35

- NOTES** (10-12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=276, 18=211.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE, Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd, Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

June 4, 2013

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 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	
492601	T22	Hip Truss	1	1	6813424

Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:28 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-pY73EOuRY1kvjp2KNX3JUWkgjl\_haeSscLqntsZ9ipD

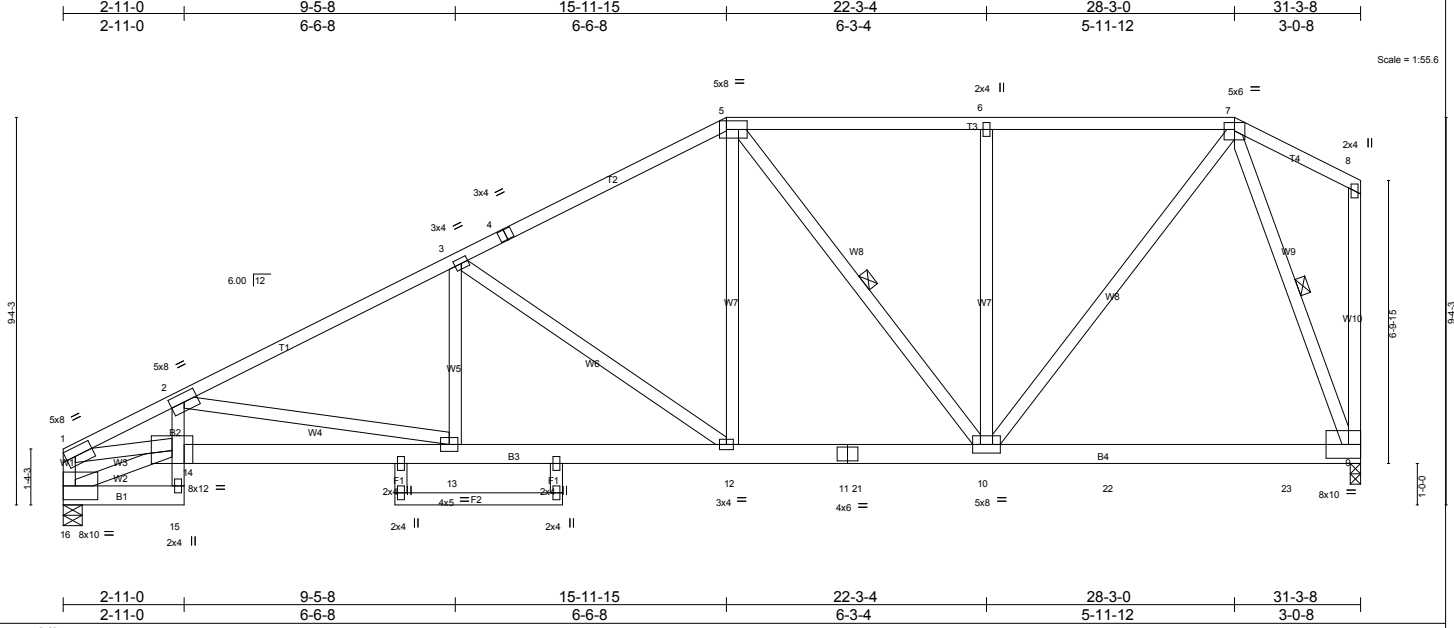


Plate Offsets (X,Y): [5:0-6-0,0-2-8], [7:0-3-0,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.75	Vert(LL) 0.16 13-14 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.99	Vert(TL) -0.25 13-14 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.14 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 243 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B2,F2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-3-11 oc bracing.  
 WEBS 1 Row at midpt 5-10, 7-9

**REACTIONS** (lb/size) 9=1251/0-3-0 (min. 0-1-11), 16=1141/0-5-8 (min. 0-1-9)  
 Max Horz 16=237(LC 12)  
 Max Uplift 9=-227(LC 9), 16=-221(LC 12)  
 Max Grav 9=1251(LC 1), 16=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-3197/1643, 2-3=-2301/996, 3-4=-1653/721, 4-5=-1554/743, 5-6=-1204/593, 6-7=-1204/593, 1-16=-1294/669  
 BOT CHORD 2-14=-258/331, 13-14=-1916/3150, 12-13=-1075/2037, 11-12=-657/1399, 11-21=-657/1399, 10-21=-657/1399, 10-22=-210/466, 22-23=-210/466, 9-23=-210/466  
 WEBS 2-13=-1132/856, 3-13=-73/304, 3-12=-792/516, 5-12=-261/557, 5-10=-349/230, 6-10=-492/280, 7-10=-508/1194, 7-9=-1335/610, 1-14=-1401/2726, 14-16=-255/25

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.psf 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 = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=227, 16=221.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



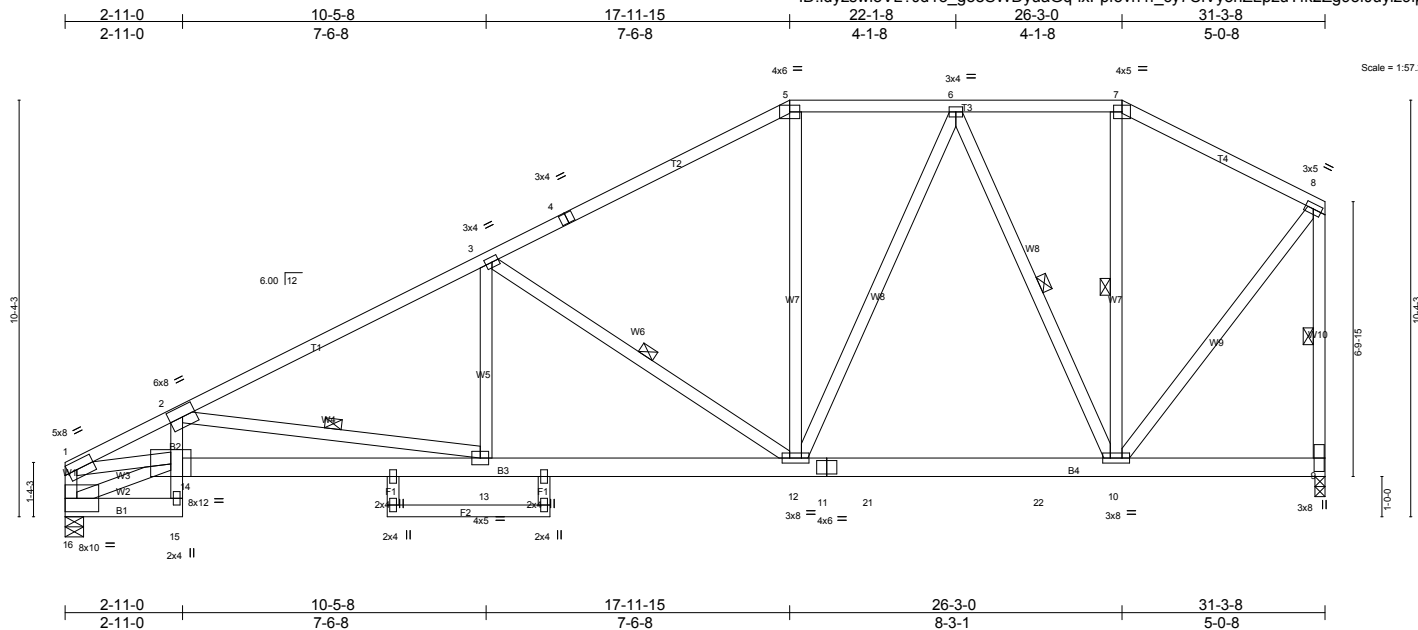
June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T23	Truss Type Hip Truss	Qty 1	Ply 1	Job Reference (optional)	16813425
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:30 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-lxFp3vh4f\_cy7CivY5nZLpzuYfk2Zg93fJuyz9ipB



<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.83 BC 0.78 WB 0.94 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d TC (LL) 0.17 13-14 >999 240 Vert(TL) -0.27 13-14 >999 180 Horz(TL) 0.15 9 n/a n/a	<b>PLATES</b> MT20 Weight: 249 lb	<b>GRIP</b> 244/190 FT = 20%
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<b>LUMBER</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B2,F2: 2x4 SP No.3 WEBS 2x4 SP No.3	<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 5-2-12 oc bracing. WEBS 1 Row at midpt 2-13, 3-12, 6-10, 7-10, 8-9
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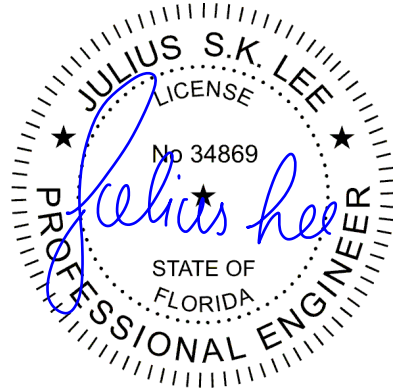
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 9=1175/0-3-0 (min. 0-1-10), 16=1122/0-5-8 (min. 0-1-9)  
 Max Horz 16=250(LC 12)  
 Max Uplift 9=211(LC 12), 16=228(LC 12)  
 Max Grav 9=1240(LC 2), 16=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-3175/1662, 2-3=-2201/969, 3-4=-1463/653, 4-5=-1347/679, 5-6=-1230/684, 6-7=-712/418, 7-8=-839/400, 1-16=-1273/668, 8-9=-1381/640  
 BOT CHORD 2-14=-245/322, 13-14=-1971/3186, 12-13=-1036/1933, 11-12=-451/997, 11-21=-451/997, 21-22=-451/997, 10-22=-451/997  
 WEBS 2-13=-1270/948, 3-13=-69/329, 3-12=-893/585, 6-12=-248/489, 6-10=-789/409, 8-10=-454/1088, 1-14=-1426/2719

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=211, 16=228.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

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 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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T24	Truss Type Hip Truss	Qty 1	Ply 1	Job Reference (optional)	6813426
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Builders FirstSource, Jacksonville, FL 32244 7:350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:32 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-hKNa4lxxcGEKBL5cM7FemuIIMOFWVjSXyo?0dz9ip9

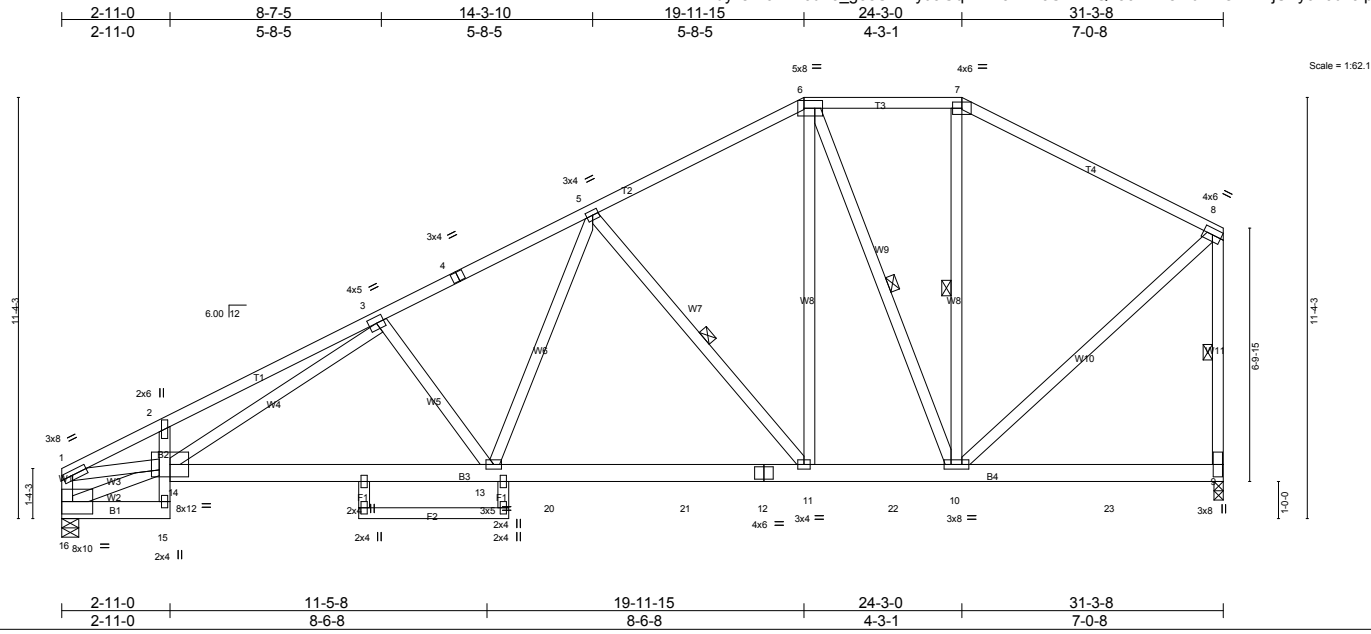


Plate Offsets (X,Y): [6:0-6:0,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.52	Vert(LL) 0.14 13-14 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.78	Vert(TL) -0.25 13-14 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.10 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 252 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-1-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* B2,F2: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-11, 6-10, 7-10, 8-9

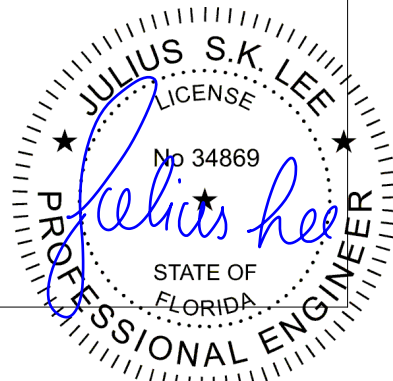
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 9=1267/0-3-0 (min. 0-1-12), 16=1168/0-5-8 (min. 0-1-10)  
 Max Horz 16=262(LC 12)  
 Max Uplift 9=-231(LC 12), 16=-234(LC 12)  
 Max Grav 9=1267(LC 1), 16=1240(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2732/1327, 2-3=-2932/1530, 3-4=-2123/941, 4-5=-1983/960, 5-6=-1293/640, 6-7=-856/520,  
 7-8=-1020/490, 1-16=-1333/656, 8-9=-1388/660  
 BOT CHORD 2-14=-360/276, 13-14=-1137/2151, 13-20=-789/1612, 20-21=-789/1612, 12-21=-789/1612,  
 11-12=-789/1612, 11-22=-450/1061, 10-22=-450/1061  
 WEBS 3-14=-530/574, 3-13=-522/408, 5-13=-302/652, 5-11=-888/542, 6-11=-378/839, 6-10=-665/304,  
 8-10=-434/1065, 1-14=-1120/2313

- NOTES** (9-11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 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 BCCL = 5.0psf.
  - 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=) 9=231, 16=234.
  - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T25	Truss Type Piggyback Base Truss	Qty 1	Ply 1	Job Reference (optional)	16813427
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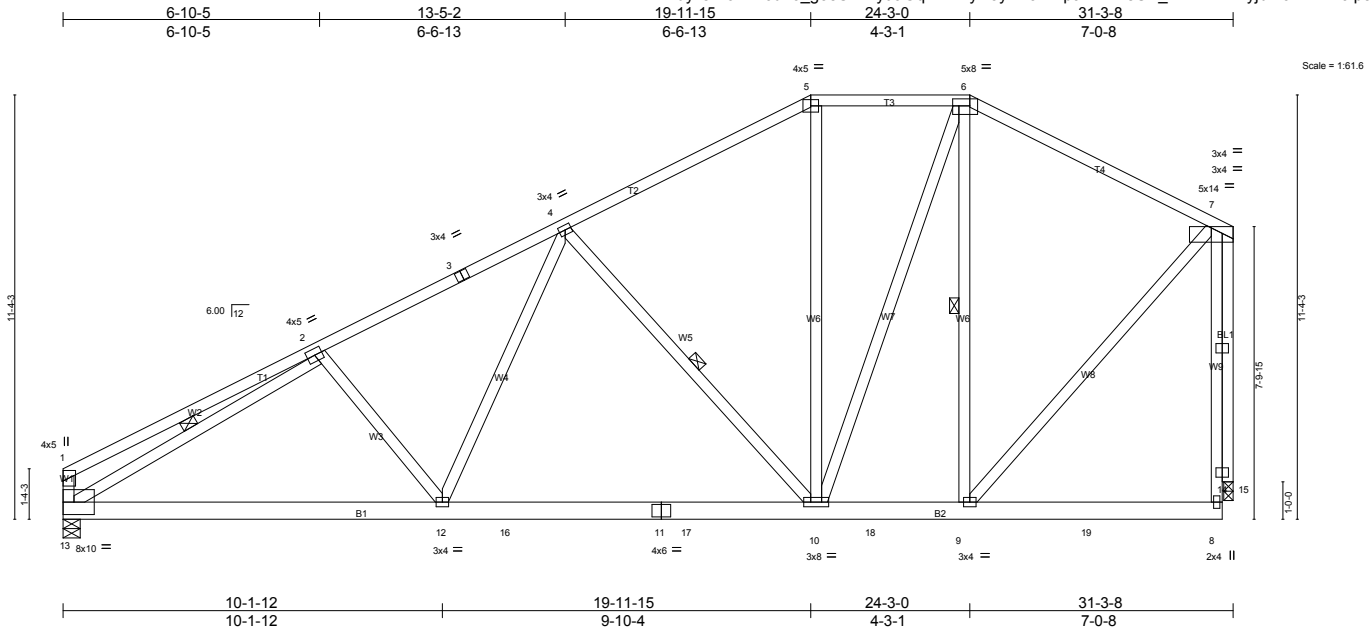


Plate Offsets (X,Y): [6:0-5-8,0-2-4]

<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	Plates Increase 1.25	TC 0.72	Vert(LL) -0.13 10-12 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.44	Vert(TL) -0.25 10-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(TL) 0.05 15 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			Weight: 254 lb FT = 20%

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

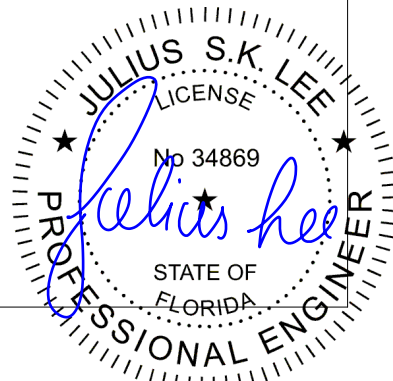
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-4-15 oc bracing.  
 WEBS 1 Row at midpt 4-10, 6-9, 2-13  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 13=1192/0-5-8 (min. 0-1-10), 15=1280/0-3-0 (min. 0-1-12)  
 Max Horz 13=266(LC 12)  
 Max Uplift 13=233(LC 12), 15=229(LC 12)  
 Max Grav 13=1241(LC 2), 15=1280(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-367/229, 2-3=-1940/796, 3-4=-1779/818, 4-5=-1227/584, 5-6=-1030/590, 6-7=-958/457, 1-13=-354/232  
 BOT CHORD 12-13=-992/1845, 12-16=-742/1508, 11-16=-742/1508, 11-17=-742/1508, 10-17=-742/1508, 10-18=-304/745, 9-18=-304/745  
 WEBS 2-12=-268/297, 4-12=-174/436, 4-10=-799/501, 6-10=-309/680, 6-9=-651/334, 2-13=-1816/626, 7-9=-399/1002

- NOTES** (10-12)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 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 BCCL = 5.0psf.
  - 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 7) Bearing at joint(s) 15 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) except (it=lb) 13=233, 15=229.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

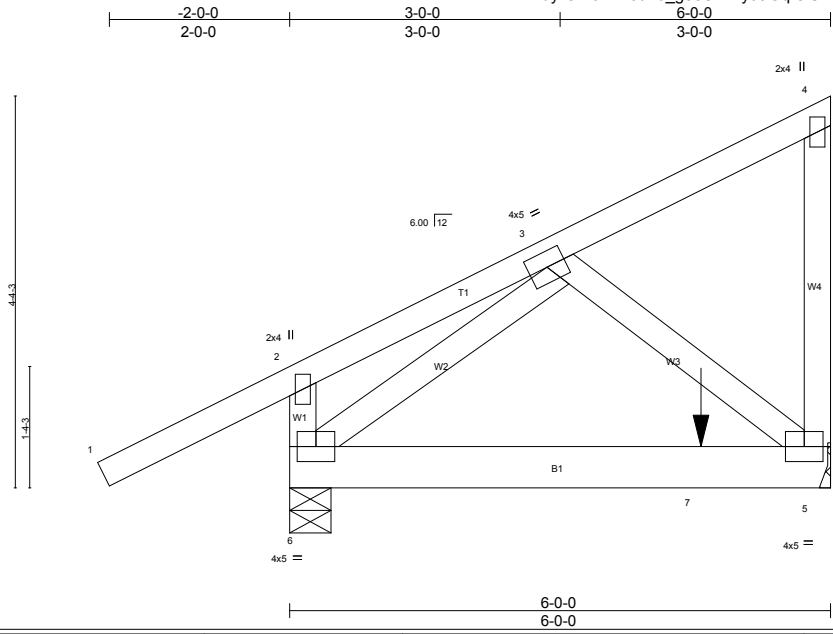


June 4, 2013



Job 492601	Truss T26	Truss Type Monopitch Truss	Qty 1	Ply 1	68813428
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.43 BC 1.00 WB 0.04 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.06 5-6 >999 240 Vert(TL) -0.16 5-6 >417 180 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 Weight: 44 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-7-8 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=731/Mechanical, 6=521/0-5-8 (min. 0-1-8)  
 Max Horz 6=126(LC 8)  
 Max Uplift 5=-214(LC 8), 6=-96(LC 8)  
 Max Grav 5=836(LC 2), 6=600(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-6=-302/117

- NOTES** (9-12)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=214.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 824 lb down and 162 lb up at 4-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 12) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)  
 Vert: 1-2=-60, 2-4=-60, 5-6=-10

Concentrated Loads (lb)  
 Vert: 7=-720(F)



June 4, 2013



Job 492601	Truss T27	Truss Type Hip Truss	Qty 1	Ply 1	Job Reference (optional) 16813429
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:37 2013 Page 1  
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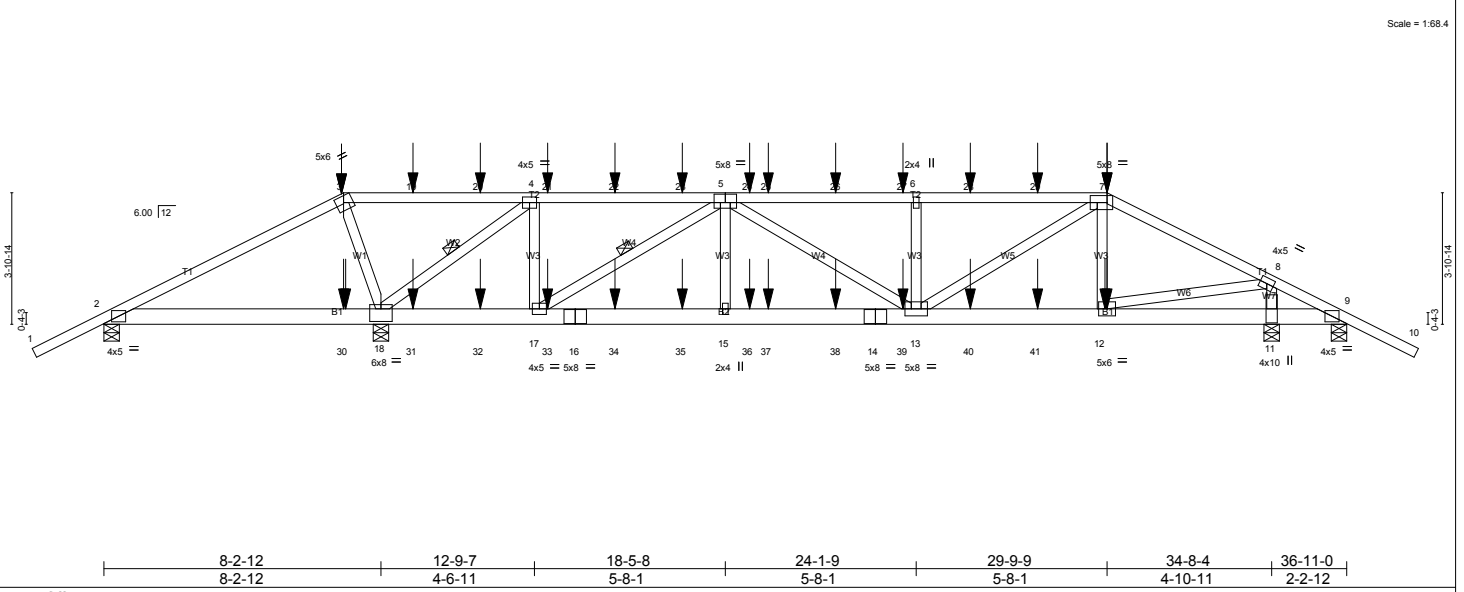


Plate Offsets (X, Y):	[3:0-2-12,0-2-4], [5:0-4-0,0-3-0], [7:0-6-0,0-2-8], [18:0-4-0,0-4-8]				
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.43	Vert(LL) 0.21 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.75	Vert(TL) -0.25 13-15 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.03 11 n/a n/a		
				Weight: 218 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 5-8-1 oc bracing.  
 WEBS 1 Row at midpt 4-18, 5-17

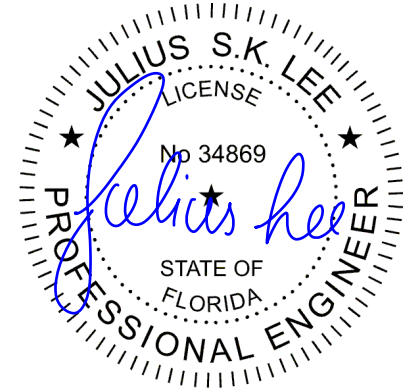
**REACTIONS** All bearings 0-5-8.  
 (lb) - Max Horz 2=57(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=322(LC 22), 18=2419(LC 5),  
 11=1254(LC 4), 9=172(LC 21)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=492(LC 13), 18=2830(LC 2),  
 11=1684(LC 22), 9=259(LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=993/1214, 3-19=1093/1326, 19-20=1093/1326, 4-20=1093/1327, 4-21=581/536,  
 21-22=581/536, 22-23=581/536, 5-23=581/536, 5-24=2247/1965, 24-25=2247/1965,  
 25-26=2247/1965, 26-27=2247/1965, 6-27=2247/1965, 6-28=2247/1964, 28-29=2247/1964,  
 7-29=2248/1965, 7-8=1686/1344, 8-9=383/461  
 BOT CHORD 2-30=1015/946, 18-30=1015/946, 18-31=448/581, 31-32=448/581, 17-32=448/581,  
 17-33=1674/1967, 16-33=1674/1967, 16-34=1674/1967, 34-35=1674/1967, 15-35=1674/1967,  
 15-36=1674/1967, 36-37=1674/1967, 37-38=1674/1967, 14-38=1674/1967, 14-39=1674/1967,  
 13-39=1674/1967, 13-40=1109/1422, 40-41=1109/1422, 12-41=1109/1422, 11-12=368/357,  
 9-11=368/357  
 WEBS 3-18=1115/878, 4-18=2412/2060, 4-17=781/880, 5-17=1645/1447, 5-15=145/334,  
 5-13=236/333, 6-13=602/491, 7-13=895/997, 7-12=322/277, 8-12=1510/1832,  
 8-11=1592/1168

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 2, 2419 lb uplift at joint 18, 1254 lb uplift at joint 11 and 172 lb uplift at joint 9.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

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



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MI TEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
492601	T27	Hip Truss	1	1	

16813429

Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:37 2013 Page 2  
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**NOTES** (11-13)

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 151 lb down and 278 lb up at 7-1-7, 55 lb down and 154 lb up at 9-2-3, 55 lb down and 154 lb up at 11-2-3, 55 lb down and 154 lb up at 13-2-3, 55 lb down and 154 lb up at 15-2-3, 55 lb down and 154 lb up at 17-2-3, 55 lb down and 154 lb up at 19-2-3, 55 lb down and 154 lb up at 19-8-13, 55 lb down and 154 lb up at 21-8-13, 55 lb down and 154 lb up at 23-8-13, 55 lb down and 154 lb up at 25-8-13, and 55 lb down and 154 lb up at 27-8-13, and 187 lb down and 316 lb up at 29-9-9 on top chord, and 178 lb down and 199 lb up at 7-1-7, 41 lb down and 50 lb up at 9-2-3, 41 lb down and 50 lb up at 11-2-3, 41 lb down and 50 lb up at 13-2-3, 41 lb down and 50 lb up at 15-2-3, 41 lb down and 50 lb up at 17-2-3, 41 lb down and 50 lb up at 19-2-3, 41 lb down and 50 lb up at 19-8-13, 41 lb down and 50 lb up at 21-8-13, 41 lb down and 50 lb up at 23-8-13, 41 lb down and 50 lb up at 25-8-13, and 41 lb down and 50 lb up at 27-8-13, and 86 lb down and 74 lb up at 29-8-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 12) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-10=-60, 2-9=-10

Concentrated Loads (lb)

Vert: 3=-95(B) 7=-126(B) 12=-35(B) 19=-47(B) 20=-47(B) 21=-47(B) 22=-47(B) 23=-47(B) 24=-47(B) 25=-47(B) 26=-47(B) 27=-47(B) 28=-47(B) 29=-47(B) 30=-118(B) 31=-14(B) 32=-14(B) 33=-14(B) 34=-14(B) 35=-14(B) 36=-14(B) 37=-14(B) 38=-14(B) 39=-14(B) 40=-14(B) 41=-14(B)

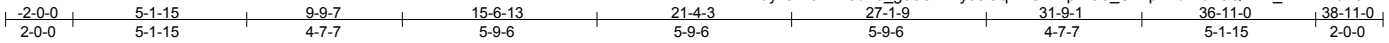
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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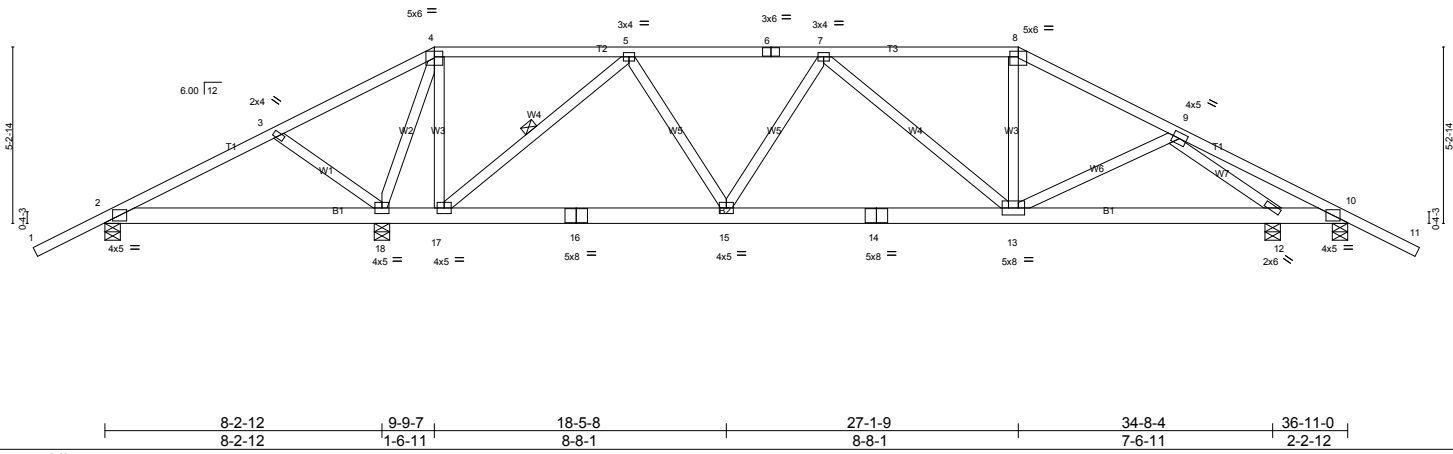
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 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	
492601	T28	Hip Truss	1	1	16813430

Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:38 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDYuaGq-WUkrKp?iC6\_UvLpFzEfu18QAnV\_wEBKvuFJEHz9ip3



Scale = 1:68.4



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.31	Vert(LL) 0.06 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Vert(TL) -0.13 13-15 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.03 12 n/a n/a		
				Weight: 228 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-17

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

**REACTIONS** All bearings 0-5-8.  
 (lb) - Max Horz 2=-80(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 18=442(LC 9), 12=185(LC 8), 10=110(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=260(LC 27), 18=1709(LC 2), 12=1041(LC 28), 10=258(LC 28)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-96/410, 3-4=-204/639, 5-6=-1152/581, 6-7=-1152/581, 7-8=-1156/615, 8-9=-1336/628  
 BOT CHORD 2-18=-336/211, 17-18=-123/311, 16-17=-183/898, 15-16=-183/898, 14-15=-375/1279,  
 13-14=-375/1279, 12-13=-424/1103  
 WEBS 3-18=-391/309, 4-18=-1471/502, 4-17=-184/796, 5-17=-1248/596, 5-15=-162/448, 7-15=-333/215,  
 7-13=-312/121, 8-13=-68/262, 9-12=-1519/701

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 18=442, 12=185, 10=110.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

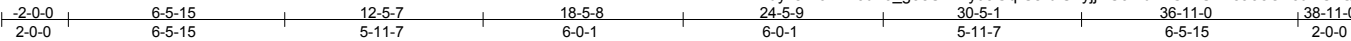
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Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

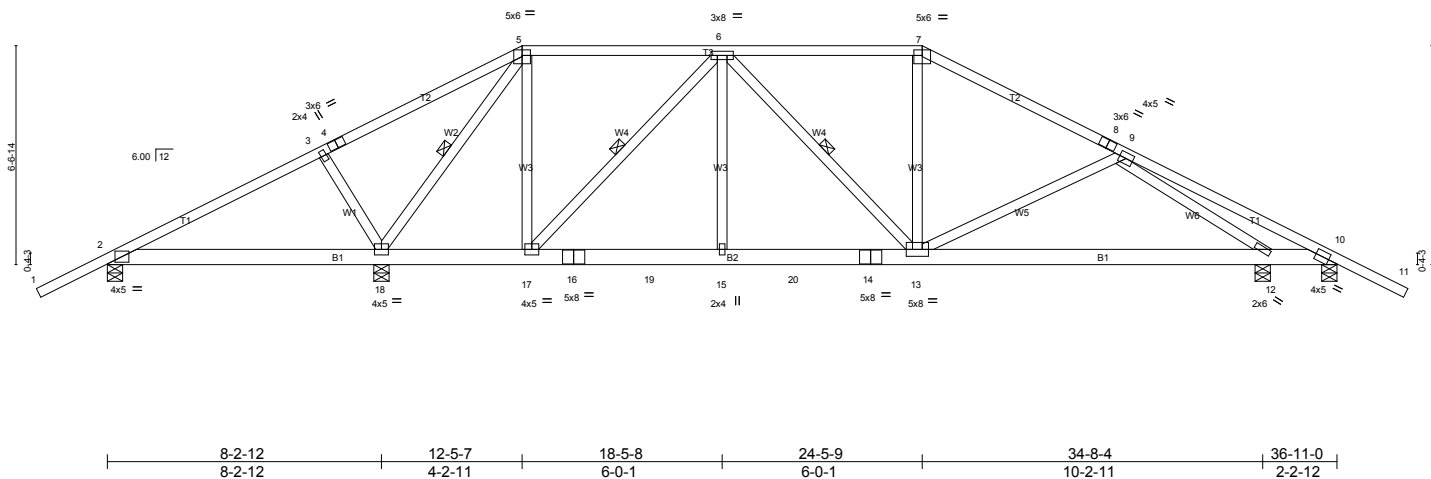
Job 492601	Truss T29	Truss Type Hip Truss	Qty 1	Ply 1	16813431
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Scale = 1:69.2



<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	Plates Increase 1.25	TC 0.53	Vert(LL) -0.07 12-13 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.40	Vert(TL) -0.14 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(TL) 0.04 10 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 236 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
6-0-0 oc bracing: 2-18.  
WEBS 1 Row at midpt 5-18, 6-17, 6-13

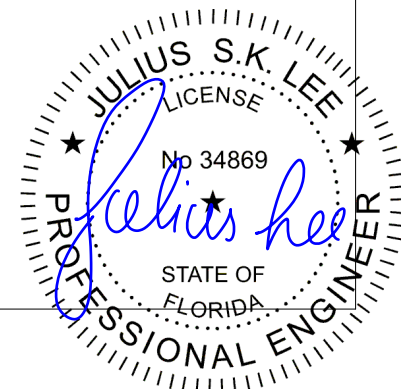
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 0-5-8.  
(lb) - Max Horz 2=98(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2 except 18=265(LC 12), 12=112(LC 13), 10=147(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) except 2=390(LC 27), 18=1548(LC 2), 12=943(LC 2), 10=382(LC 28)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 4-5=38/372, 5-6=-591/383, 6-7=-1216/654, 7-8=-1408/658, 8-9=-1423/635, 9-10=-335/161  
BOT CHORD 17-18=-44/508, 16-17=-249/1132, 16-19=-249/1132, 15-19=-249/1132, 15-20=-249/1132, 14-20=-249/1132, 13-14=-249/1132, 12-13=-537/1383  
WEBS 3-18=-466/350, 5-18=-1447/582, 5-17=-233/678, 6-17=-902/366, 9-13=-280/301, 9-12=-1442/669

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 18=265, 12=112, 10=147.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

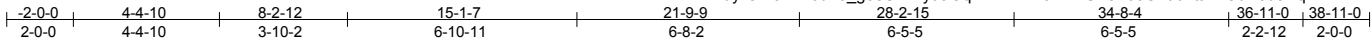
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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss T30	Truss Type Hip Truss	Qty 1	Ply 1	16813432
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Scale = 1:69.2

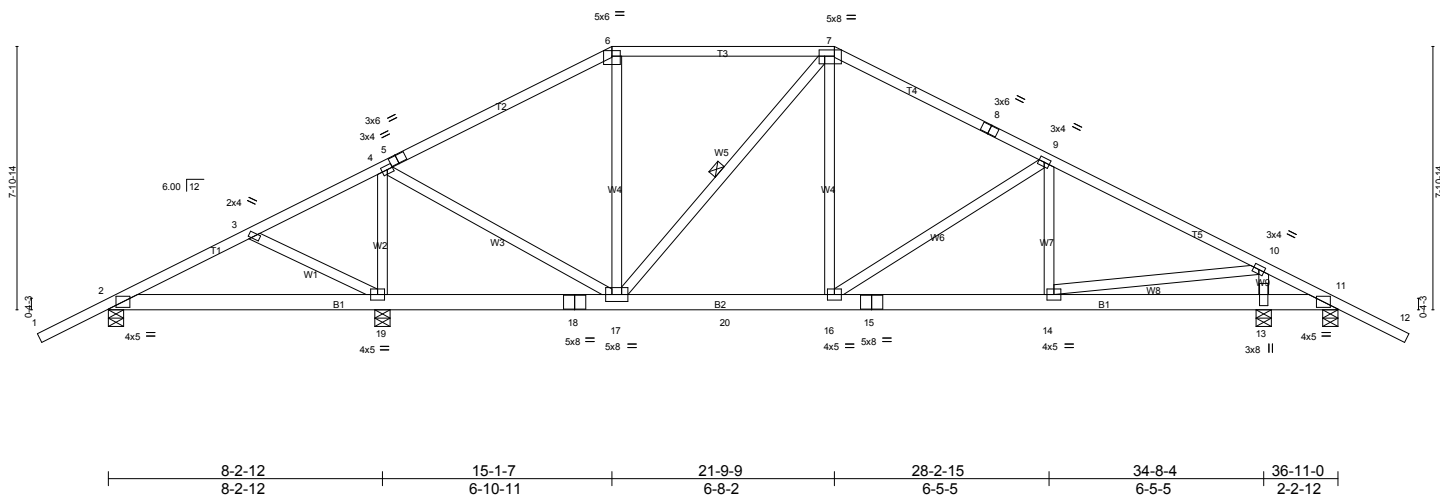


Plate Offsets (X,Y): [5:0-2-13,0-1-8], [6:0-3-0,0-2-0], [7:0-5-8,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.23	Vert(TL) 0.07 2-19 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.46	Vert(TL) -0.10 14-16 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 11 n/a n/a		
	Code FBC2010/TPI2007			Weight: 239 lb	FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-17

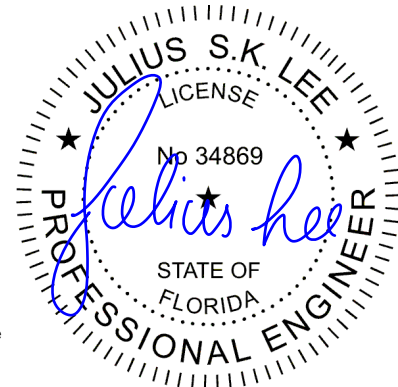
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 0-5-8.  
 (lb) - Max Horz 2=-116(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-129(LC 8), 19=-302(LC 9),  
 13=-212(LC 13), 11=-104(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=399(LC 27), 19=1529(LC 2),  
 13=1067(LC 2), 11=277(LC 28)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-79/304, 4-5=-918/419, 5-6=-906/446, 6-7=-754/472, 7-8=-1124/595, 8-9=-1218/573,  
 9-10=-1523/672  
 BOT CHORD 18-19=-248/294, 17-18=-248/294, 17-20=-144/935, 16-20=-144/935, 15-16=-393/1258,  
 14-15=-393/1258  
 WEBS 3-19=-259/215, 4-19=-1461/681, 4-17=-321/1031, 7-17=-425/198, 7-16=-146/373, 9-16=-397/306,  
 10-14=-406/1115, 10-13=-1148/576

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDC=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2, 302 lb uplift at joint 19, 212 lb uplift at joint 13 and 104 lb uplift at joint 11.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

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Julius Lee PE,  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T31	Truss Type ATTIC TRUSS	Qty 1	Ply 1	6813433
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:43 2013 Page 1  
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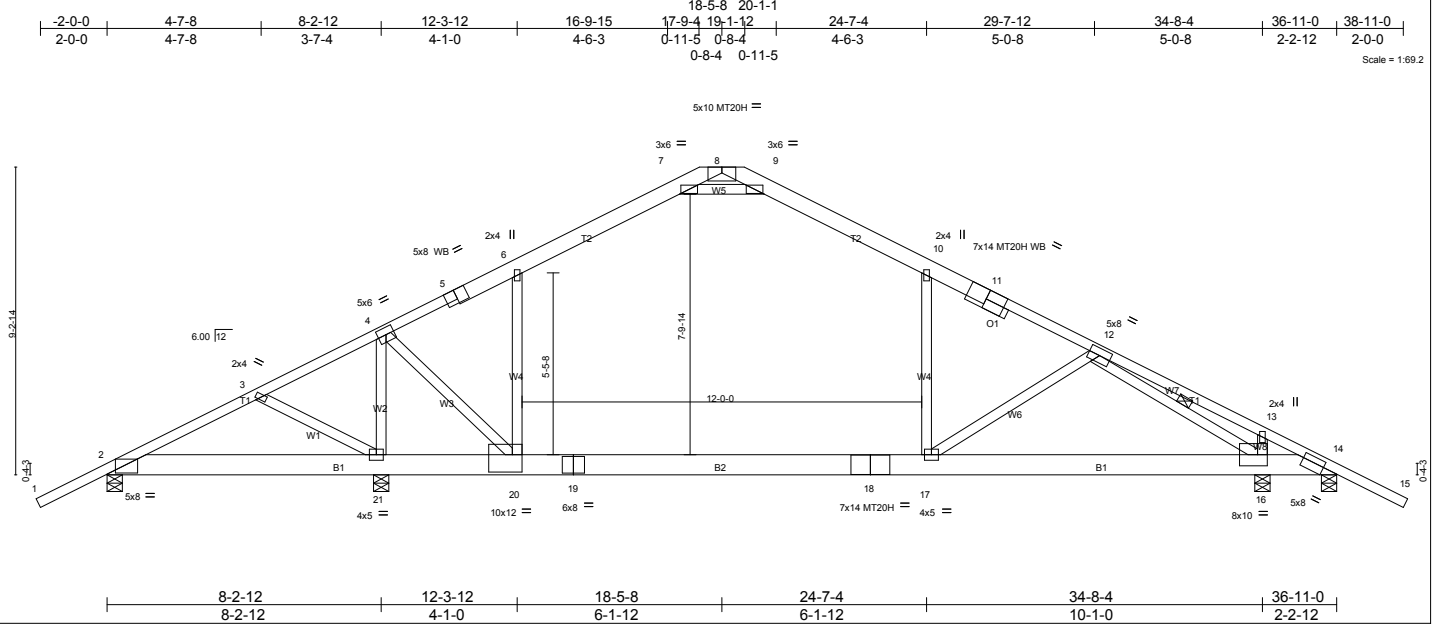


Plate Offsets (X,Y): [2:0-4-0,0-1-15], [5:0-4-0,Edge], [14:0-5-5,0-2-1], [16:0-3-8,0-4-0], [20:0-3-8,0-6-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.64	Vert(LL) -0.42 17-20 >757 240	MT20H	187/143
BCLL 0.0 *	Lumber Increase 1.25	WB 0.91	Vert(TL) -0.91 17-20 >349 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 16 n/a n/a		
	Code FBC2010/TPI2007		Attic -0.24 17-20 608 360	Weight: 255 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP M 31 *Except* T2: 2x6 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-0-1 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 12-16
OTHERS 2x4 SP No.3	

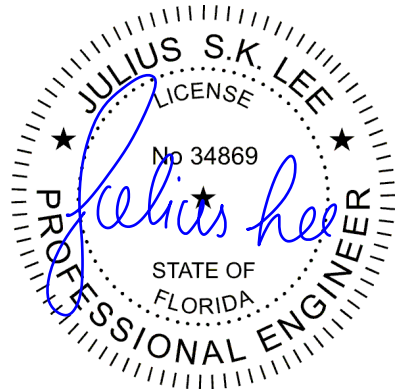
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 0-5-8.  
 (lb) - Max Horz 2=-135(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 21 except 2=-115(LC 8), 16=-235(LC 13), 14=-1485(LC 23)  
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=578(LC 2), 21=1972(LC 22), 16=3275(LC 23)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-533/368, 3-4=-283/479, 4-5=-1509/300, 5-6=-1410/307, 6-7=-1395/426, 7-8=-210/1397, 8-9=-214/1429, 9-10=-1355/420, 10-11=-1442/304, 11-12=-1571/298, 12-13=-389/2490, 13-14=-505/2525  
 BOT CHORD 2-21=-304/413, 20-21=-398/235, 19-20=0/1205, 18-19=0/1205, 17-18=0/1205, 16-17=-120/1141, 14-16=-2206/554  
 WEBS 4-21=-2491/362, 6-20=-293/164, 10-17=-98/281, 13-16=-372/245, 4-20=-118/1968, 3-21=-311/241, 12-16=-4068/772, 7-9=-2833/696

- NOTES** (13-15)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-9; Wall dead load (5.0psf) on member(s).6-20, 10-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-20
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 2=115, 16=235, 14=1485.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
  - Attic room checked for L/360 deflection.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.

Continued Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T31	Truss Type ATTIC TRUSS	Qty 1	Ply 1	6813433 Job Reference (optional)
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:44 2013 Page 2  
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LOAD CASE(S) Standard



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Boynton Beach, FL 33435



Job	Truss	Truss Type	Qty	Ply	16813434
492601	T32	Attic Truss	2	1	

Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:45 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDYuaGq-pqfUoC55YfUFQrhtbslgWxaMbpJ3L\_MWURBzNz9ioy  
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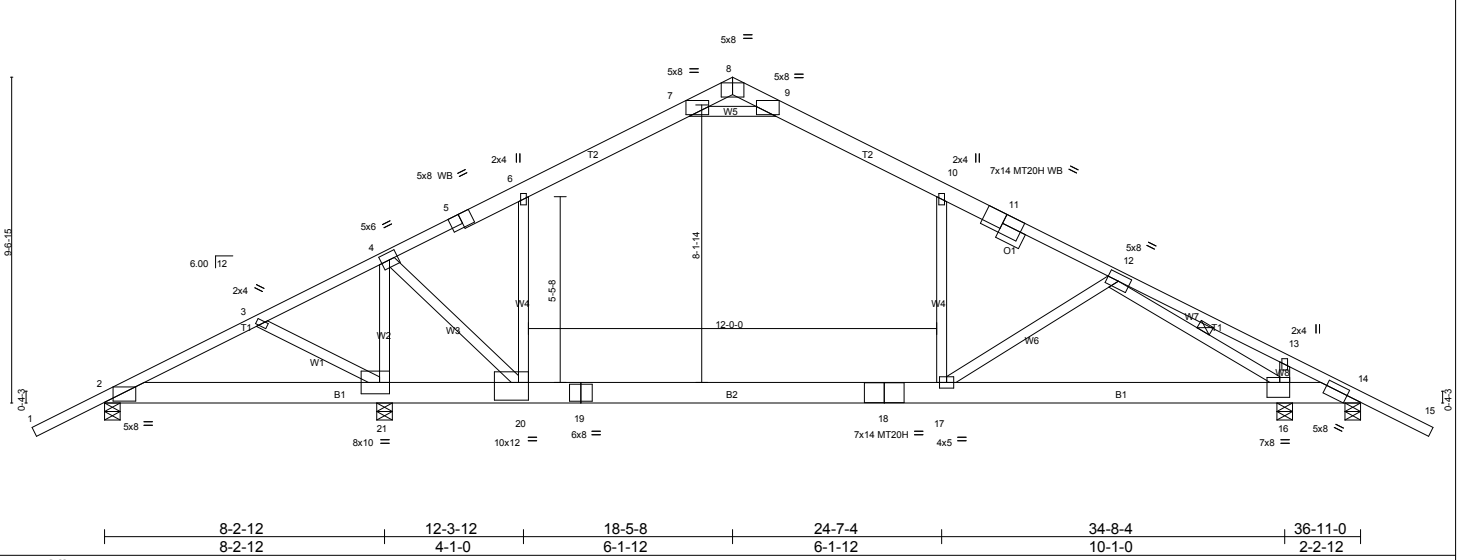


Plate Offsets (X,Y): [2:0-4-0,0-1-15], [5:0-4-0,Edge], [7:Edge,0-5-9], [8:0-4-0,Edge], [9:Edge,0-5-9], [14:0-5-5,0-2-1], [16:0-3-8,0-5-4], [20:0-3-8,0-6-4], [21:0-3-8,0-4-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.58	Vert(LL) 0.48 17-20 >655 240	MT20H	187/143
BCLL 0.0 *	Lumber Increase 1.25	WB 0.90	Vert(TL) -0.90 17-20 >352 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 16 n/a n/a		
	Code FBC2010/TPI2007		Attic -0.24 17-20 611 360	Weight: 256 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP M 31 *Except T2: 2x6 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 12-16
OTHERS 2x6 SYP No.2	

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

**REACTIONS** All bearings 0-5-8.  
 (lb) - Max Horz 2=138(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 21 except 2=207(LC 8), 16=234(LC 13), 14=1474(LC 23)  
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=588(LC 2), 21=1914(LC 1), 16=3231(LC 23)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=553/341, 3-4=304/452, 4-5=1499/518, 5-6=1400/522, 6-7=1387/592, 7-8=501/1187, 8-9=516/1226, 9-10=1349/577, 10-11=1431/528, 11-12=1559/526, 12-13=996/2368, 13-14=1117/2401  
 BOT CHORD 2-21=280/432, 20-21=374/339, 19-20=124/1198, 18-19=124/1198, 17-18=124/1198, 16-17=233/1145, 14-16=2096/1096  
 WEBS 4-21=2400/906, 6-20=289/172, 10-17=94/286, 13-16=369/256, 4-20=599/1885, 3-21=310/251, 12-16=3939/1574, 7-9=2667/1227

- NOTES** (13-15)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-9; Wall dead load (5.0psf) on member(s).6-20, 10-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-20
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (t=lb) 2=207, 16=234, 14=1474.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
  - Attic room checked for L/360 deflection.



Continued on page 2

June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
492601	T32	Attic Truss	2	1	6813434

Builders FirstSource, Jacksonville, FL 32244

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ID:idyzswioVL?Jd1o\_g5eSWDyuaGq-pqfUoC55YfUfQrbtbslgWxaMbpJ3L\_MWURBzNz9ioy

- 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 14) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 15) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	
492601	T33	ATTIC TRUSS	4	1	16813435

Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:47 2013 Page 1  
 ID:idyzwioVL7Jd1o\_g5eSWDyuaGq-lCnFDu6L47CVk?\_?0umlx0sKPYCXLoF\_owH1Gz9iow

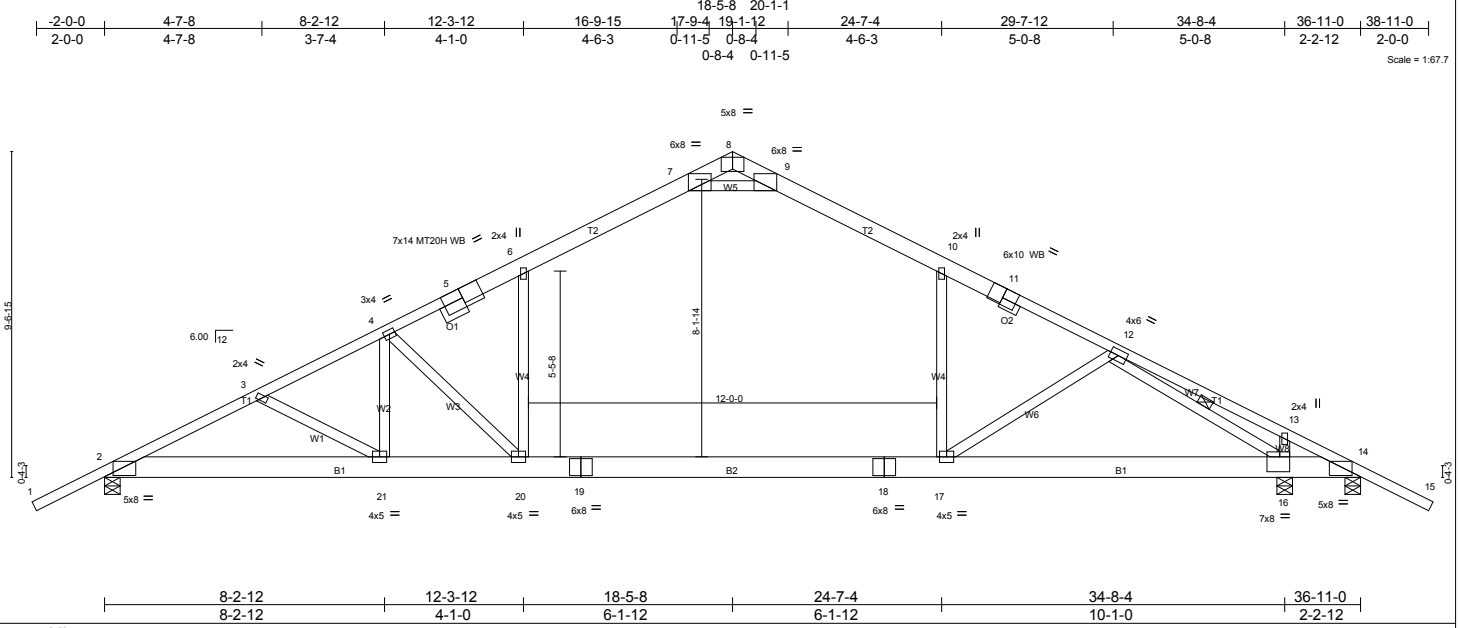


Plate Offsets (X,Y): [2:0-4-0,0-1-15], [7:Edge,0-6-0], [8:0-4-0,Edge], [9:Edge,0-6-0], [11:0-5-0,Edge], [14:0-4-0,0-1-15], [16:0-3-8,0-5-4]

LOADING (psf)	SPACING	1-4-0	CSI	DEFLL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.85	Vert(LL)	0.77	17-20	>536	MT20	244/190
TCDL 15.0	Lumber Increase	1.25	BC 0.43	Vert(TL)	-1.16	17-20	>357	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.04	16	n/a		
BCDL 5.0	Code	FBC2010/TPI2007	(Matrix)	Attic	-0.20	17-20	750		
								Weight: 257 lb	FT = 20%

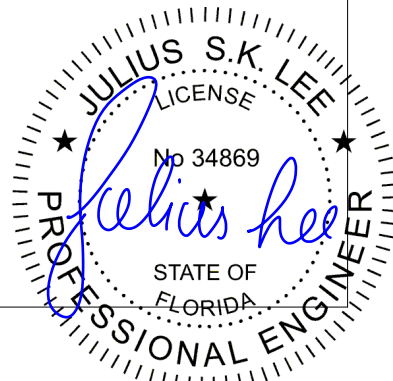
LUMBER	BRACING
TOP CHORD 2x4 SP M.31 *Except* T2: 2x6 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 14-16.
WEBS 2x4 SP No.3 *Except* W7,W5: 2x4 SP No.2	WEBS 1 Row at midpt 12-16
OTHERS 2x4 SP No.3 *Except* O1: 2x6 SYP No.2	

**REACTIONS** (lb/size) 2=1235/0-5-8 (min. 0-1-9), 16=2113/0-5-8 (min. 0-2-11), 14=-647/0-5-8 (min. 0-1-8)  
 Max Horz 2=-92(LC 10)  
 Max Uplift 2=-156(LC 9), 16=-325(LC 8), 14=-745(LC 27)  
 Max Grav 2=1235(LC 1), 16=2122(LC 27), 14=150(LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2458/1438, 3-4=-2338/1399, 4-5=-1967/1016, 5-6=-1887/1010, 6-7=-1529/829,  
 7-8=-1242/2082, 8-9=-1211/2031, 9-10=-1580/859, 10-11=-1776/943, 11-12=-1864/942,  
 12-13=-834/1397, 13-14=-912/1393  
 BOT CHORD 2-21=-1172/2134, 20-21=-1103/2069, 19-20=-585/1514, 18-19=-585/1514, 17-18=-585/1514,  
 16-17=-605/1448, 14-16=-1205/879  
 WEBS 4-21=-324/252, 6-20=-507/786, 10-17=-275/468, 4-20=-786/747, 12-16=-3196/1787,  
 7-9=-3896/2317

- NOTES** (12-14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vuлт=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-9; Wall dead load (5.0psf) on member(s).6-20, 10-17
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-20
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=156, 16=325, 14=745.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Attic room checked for L/360 deflection.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	6813436
492601	T40	Hip Truss	2	1	

Job Reference (optional)  
 Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:49 2013 Page 1  
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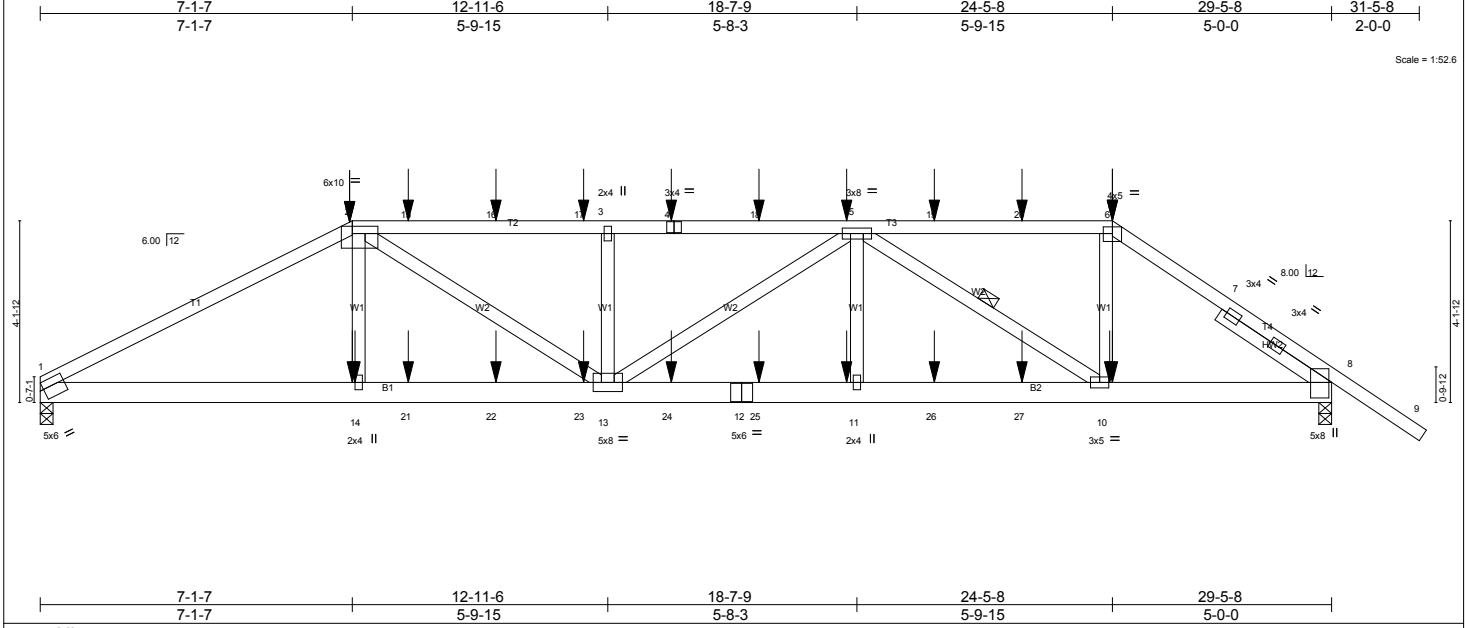


Plate Offsets (X,Y):	[1:Edge,0-2-0], [2:0-7-0,0-2-0], [6:0-2-8,0-1-13], [8:0-4-5,0-0-12]				
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.66	Vert(LL) 0.26 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.61	Vert(TL) -0.40 11-13 >886 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.11 8 n/a n/a		
				Weight: 173 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.1 *Except* T1: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-0-4 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-10
SLIDER Right 2x4 SP No.3 3-0-1	

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

<b>REACTIONS</b> (lb/size)	1=1554/0-3-8 (min. 0-2-1), 8=1662/0-3-8 (min. 0-2-4)
Max Horz	1=81(LC 7)
Max Uplift	1=972(LC 8), 8=1065(LC 9)
Max Grav	1=1774(LC 2), 8=1905(LC 2)
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-3330/1953, 2-15=-3683/2316, 15-16=-3682/2316, 16-17=-3682/2315, 3-17=-3682/2315, 3-4=-3682/2316, 4-18=-3682/2316, 5-18=-3682/2316, 5-19=-2076/1379, 19-20=-2077/1380, 6-20=-2077/1380, 6-7=-2541/1643, 7-8=-2648/1631
BOT CHORD	1-14=-1746/2832, 14-21=-1749/2844, 21-22=-1749/2844, 22-23=-1749/2844, 13-23=-1749/2844, 13-24=-2158/3465, 12-24=-2158/3465, 12-25=-2158/3465, 11-25=-2158/3465, 26-27=-2158/3465, 10-27=-2158/3465, 8-10=-1255/2040
WEBS	2-14=-88/505, 2-13=-717/1076, 3-13=-629/523, 5-13=-165/283, 5-11=0/316, 5-10=-1701/1068, 6-10=-495/983

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 1=972, 8=1065.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 177 lb down and 298 lb up at 7-1-7, 72 lb down and 171 lb up at 8-4-12, 72 lb down and 171 lb up at 10-4-12, 72 lb down and 171 lb up at 12-4-12, 72 lb down and 171 lb up at 14-4-12, 72 lb down and 171 lb up at 16-4-12, 72 lb down and 171 lb up at 18-4-12, 72 lb down and 171 lb up at 20-4-12, and 72 lb down and 171 lb up at 22-4-12, and 144 lb down and 371 lb up at 24-5-8 on top chord, and 215 lb down and 136 lb up at 7-1-7, 44 lb down at 8-4-12, 44 lb down at 10-4-12, 44 lb down at 12-4-12, 44 lb down at 14-4-12, 44 lb down at 16-4-12, 44 lb down at 18-4-12, 44 lb down at 20-4-12, and 44 lb down at 22-4-12, and 98 lb down and 19 lb up at 24-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.

Continued Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
492601	T40	Hip Truss	2	1	

I6813436

Builders FirstSource, Jacksonville, FL 32244

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**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-9=-60, 1-8=-10

Concentrated Loads (lb)

Vert: 2=-118(F) 4=-62(F) 6=-120(F) 14=-165(F) 11=-15(F) 10=-25(F) 5=-62(F) 15=-62(F) 16=-62(F) 17=-62(F) 18=-62(F) 19=-62(F) 20=-62(F) 21=-15(F) 22=-15(F) 23=-15(F) 24=-15(F) 25=-15(F) 26=-15(F) 27=-15(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	6813437
492601	T41	Hip Truss	2	1	

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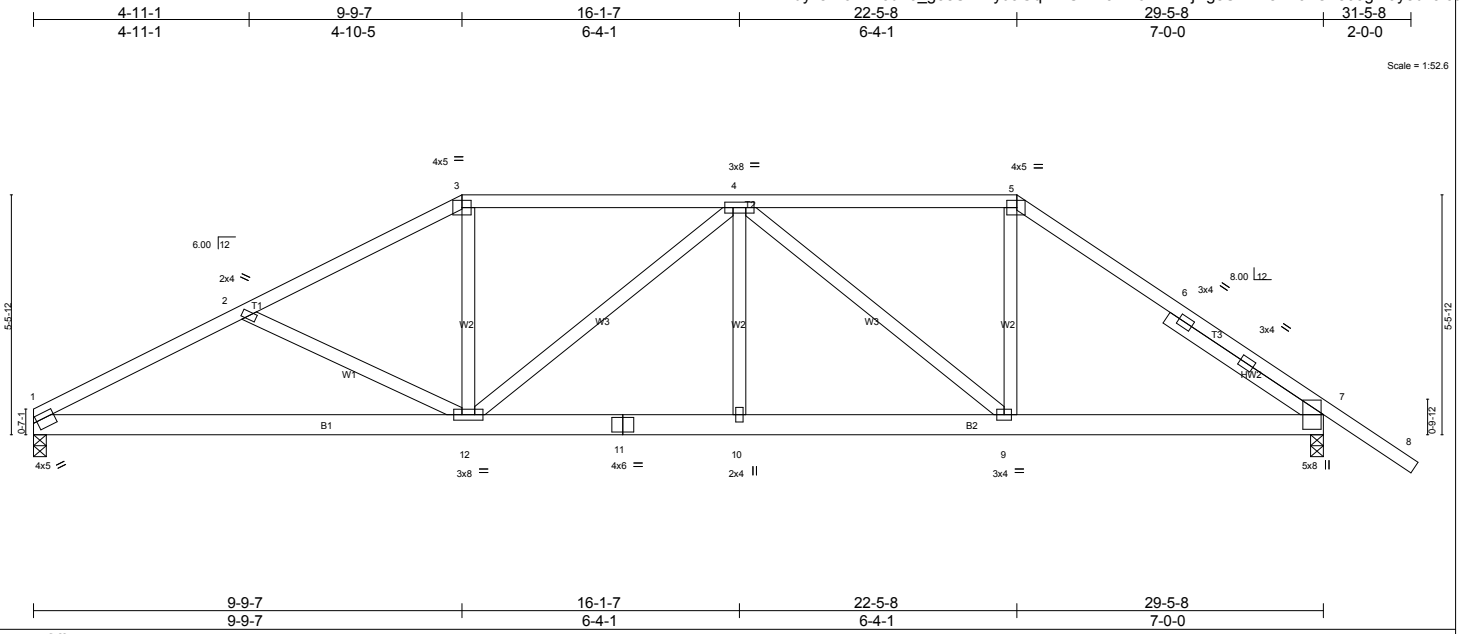


Plate Offsets (X,Y): [1:0-1-0,0-1-8], [5:0-2-12,0-2-0], [7:0-4-1,0-0-10]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.46	Vert(LL) -0.09 1-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Vert(TL) -0.21 1-12 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.06 7 n/a n/a		
				Weight: 179 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-8 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 4-2-8	

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

<b>REACTIONS</b> (lb/size)	1=1022/0-3-8 (min. 0-1-8), 7=1155/0-3-8 (min. 0-1-12)
	Max Horz 1=138(LC 11)
	Max Uplift 1=197(LC 12), 7=214(LC 13)
	Max Grav 1=1167(LC 2), 7=1323(LC 2)

<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2209/994, 2-3=-1872/836, 3-4=-1638/806, 4-5=-1427/670, 5-6=-1641/711, 6-7=-1800/694
BOT CHORD 1-12=-800/1813, 11-12=-617/1728, 10-11=-617/1728, 9-10=-617/1728, 7-9=-393/1290
WEBS 2-12=-348/303, 3-12=-151/435, 4-12=-355/137, 4-9=-672/294, 5-9=-166/491

- NOTES** (9-11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 1=197, 7=214.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

June 4, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 492601	Truss T42	Truss Type Hip Truss	Qty 2	Ply 1	Job Reference (optional) 16813438
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:51 2013 Page 1  
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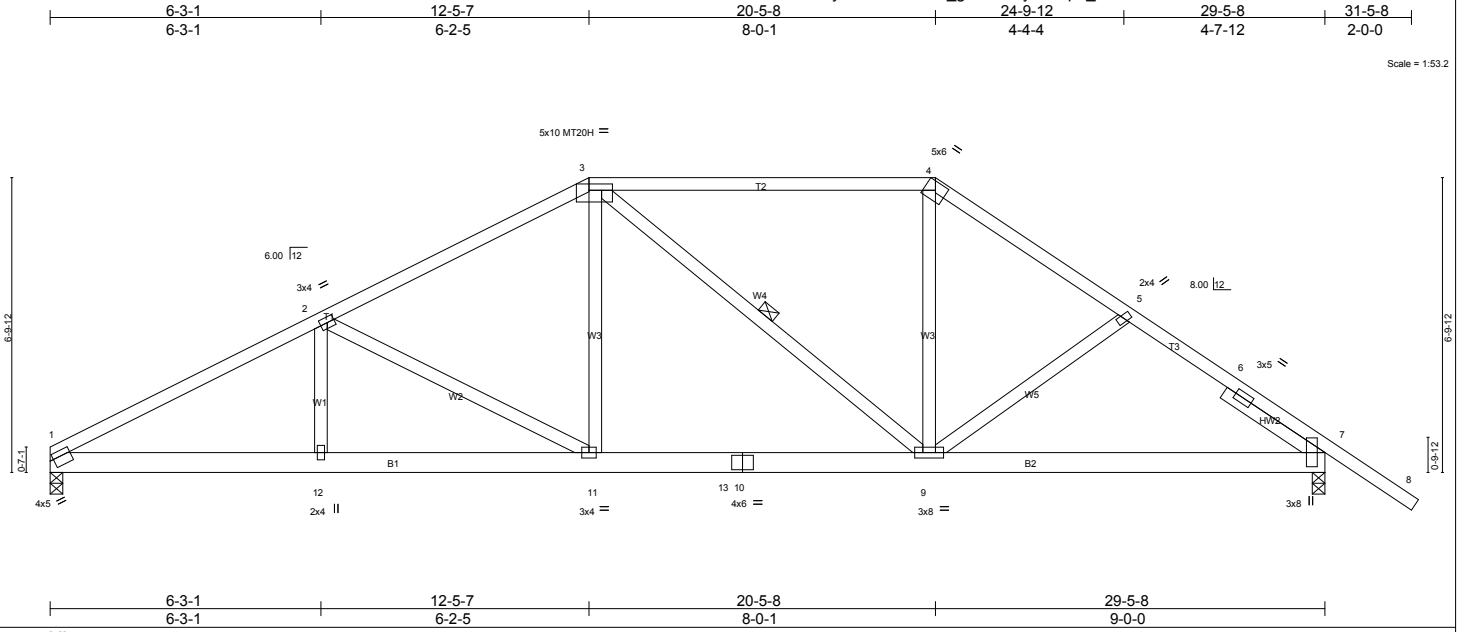


Plate Offsets (X,Y): [1:0-1-0,0-1-8], [3:0-6-8,0-1-12], [4:0-3-0,0-2-3], [7:0-3-15,0-2-2]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.93	Vert(LL) 0.08 11 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.37	Vert(TL) -0.16 9-11 >999 180	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(TL) 0.06 7 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 180 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2 *Excerpt* T2: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-5-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-9
SLIDER Right 2x4 SP No.3 2-8-9	

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

<b>REACTIONS</b> (lb/size)	1=1069/0-3-8 (min. 0-1-8), 7=1199/0-3-8 (min. 0-1-13)
Max Horz	1=172(LC 11)
Max Uplift	1=-214(LC 12), 7=-229(LC 13)
Max Grav	1=1167(LC 2), 7=1323(LC 2)
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-2338/951, 2-3=-1826/778, 3-4=-1418/658, 4-5=-1703/708, 5-6=-1875/745, 6-7=-1959/725
BOT CHORD	1-12=-757/1895, 11-12=-757/1895, 11-13=-432/1423, 10-13=-432/1423, 9-10=-432/1423, 7-9=-461/1472
WEBS	2-11=-544/371, 3-11=-139/418, 3-9=-300/145, 4-9=-129/402, 5-9=-281/173

- NOTES** (10-12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=214, 7=229.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss T43	Truss Type Hip Truss	Qty 2	Ply 1	Job Reference (optional) 16813439
Builders FirstSource, Jacksonville, FL 32244		7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:53 2013 Page 1 ID:idyzwioVL?Jd1o_g5eSWDYuaGq-aM8WUxB6ftMDfs7LH?A?BGtwqb_x5SYMkNcFvz9io			
Plate Offsets (X,Y): [1:0-1-0,0-1-8], [4:0-6-0,0-2-8], [5:0-2-8,0-1-13]					
<b>LOADING</b> (psf) TCLL 20.0 TC DL 15.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.84 BC 0.40 WB 0.42 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.09 14-15 >999 240 Vert(TL) -0.18 14-15 >999 180 Horz(TL) 0.06 9 n/a n/a	<b>PLATES</b> GRIP MT20 244/190  Weight: 194 lb FT = 20%	
<b>LUMBER</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 SLIDER Right 2x4 SP No.3 3-3-11			<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied or 8-5-13 oc bracing. WEBS 1 Row at midpt 2-14, 4-12 <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">           MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         </div>		
<b>REACTIONS</b> (lb/size) 1=1022/0-3-8 (min. 0-1-8), 9=1155/0-3-8 (min. 0-1-13) Max Horz 1=206(LC 11) Max Uplift 1=-228(LC 12), 9=-241(LC 13) Max Grav 1=1167(LC 2), 9=1323(LC 2)					
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2253/932, 2-3=-1548/667, 3-4=-1432/693, 4-5=-1259/654, 5-6=-1447/704, 6-7=-1543/681, 7-8=-1740/728, 8-9=-1919/710 BOT CHORD 1-15=-737/1793, 14-15=-737/1793, 13-14=-304/1115, 12-13=-304/1115, 11-12=-440/1435, 9-11=-440/1435 WEBS 2-15=0/263, 2-14=-778/494, 4-14=-186/404, 4-12=-281/117, 5-12=-238/476, 7-12=-482/232					
<b>NOTES</b> (9-11) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=228, 9=241. 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB. 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435					
<b>LOAD CASE(S)</b> Standard					



June 4, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435
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Job 492601	Truss T44	Truss Type Special Truss	Qty 2	Ply 1	Job Reference (optional)	16813440
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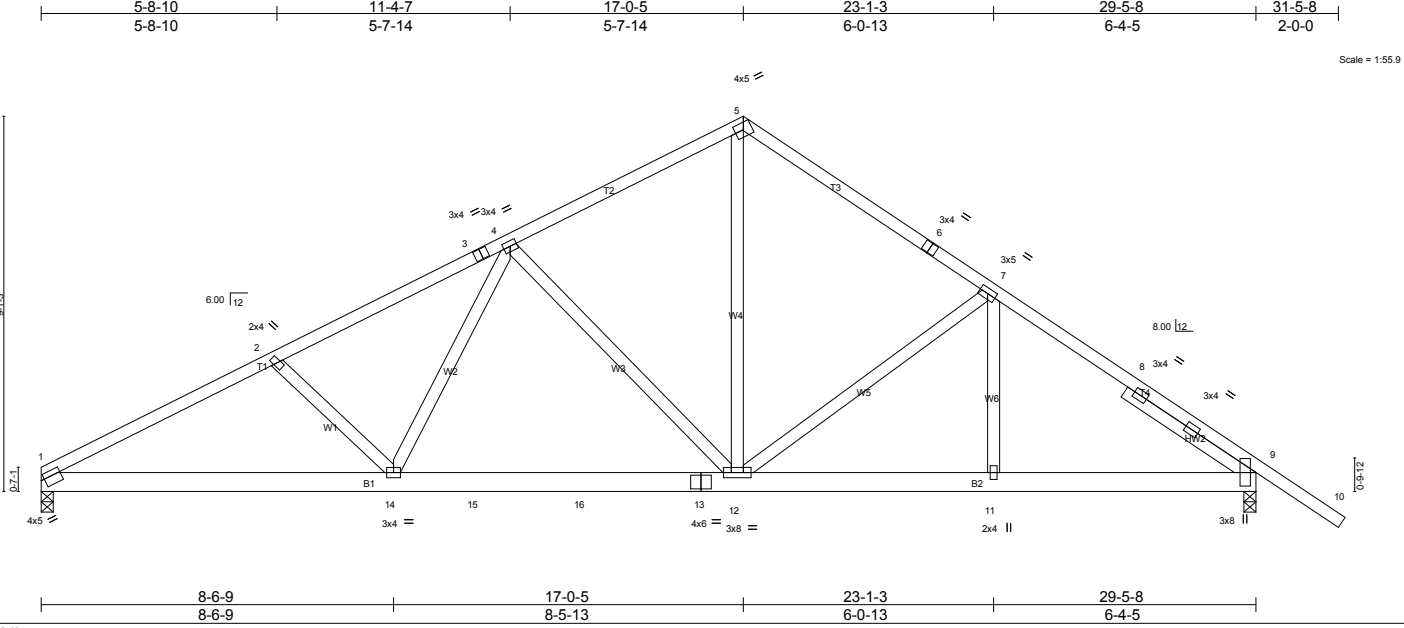


Plate Offsets (X, Y): [1:0-1-0,0-1-8], [9:0-3-15,0-1-10]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.39	Vert(LL) 0.09 12-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Vert(TL) -0.19 12-14 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.06 9 n/a n/a		
				Weight: 185 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	8-3-4 oc bracing: 1-14.
SLIDER Right 2x4 SP No.3 3-8-14	

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

<b>REACTIONS</b> (lb/size)	1=1068/0-3-8 (min. 0-1-9), 9=1186/0-3-8 (min. 0-1-14)
	Max Horz 1=231(LC 11)
	Max Uplift 1=-236(LC 12), 9=-249(LC 13)
	Max Grav 1=1167(LC 2), 9=1323(LC 2)

<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2422/967, 2-3=-2167/885, 3-4=-2028/905, 4-5=-1470/665, 5-6=-1435/689, 6-7=-1544/664, 7-8=-1778/734, 8-9=-1979/714
BOT CHORD 1-14=-795/1940, 14-15=-516/1515, 15-16=-516/1515, 13-16=-516/1515, 12-13=-516/1515, 11-12=-434/1473, 9-11=-434/1473
WEBS 2-14=-339/292, 4-14=-174/433, 4-12=-699/436, 5-12=-445/971, 7-12=-565/279

- NOTES** (8-10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 5.0psf.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=236, 9=249.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



**LOAD CASE(S)** Standard

June 4, 2013

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Job 492601	Truss T45	Truss Type Special Truss	Qty 6	Ply 1	16813441
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 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:55 2013 Page 1  
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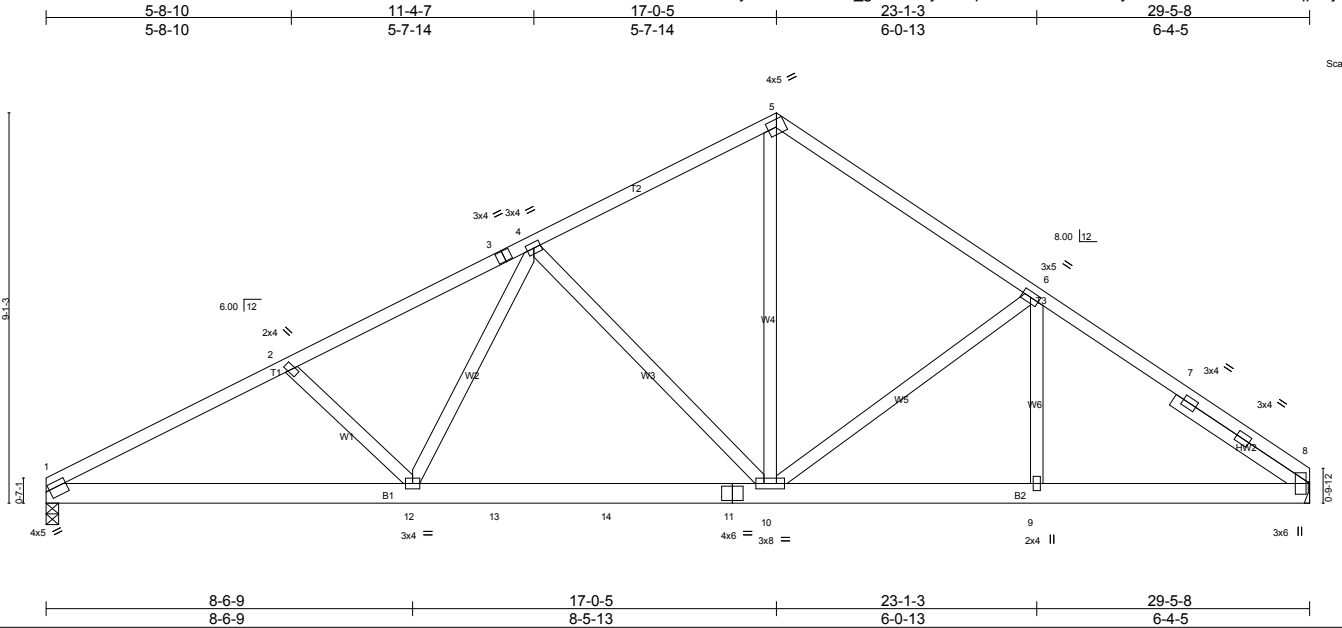


Plate Offsets (X,Y): [1:0-1-0,0-1-8], [8:0-3-1,0-1-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.39	Vert(LL) 0.09 10-12 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.85	Vert(TL) -0.19 10-12 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 8 n/a n/a		
	Code FBC2010/TPI2007			Weight: 182 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x4 SP No.3 3-8-14

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.

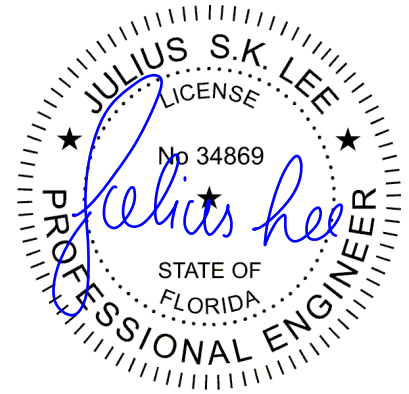
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 1=1073/0-3-8 (min. 0-1-9), 8=1057/Mechanical  
 Max Horz 1=223(LC 9)  
 Max Uplift 1=-236(LC 12), 8=-209(LC 13)  
 Max Grav 1=1173(LC 2), 8=1173(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2427/973, 2-3=-2172/891, 3-4=-2033/911, 4-5=-1475/671, 5-6=-1550/697, 6-7=-1792/750, 7-8=-1969/728  
 BOT CHORD 1-12=-839/1922, 12-13=-559/1497, 13-14=-559/1497, 11-14=-559/1497, 10-11=-559/1497, 9-10=-490/1465, 8-9=-490/1465  
 WEBS 2-12=-339/292, 4-12=-173/433, 4-10=-699/436, 5-10=-453/977, 6-10=-578/295

- NOTES** (8-11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 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, with BCDL = 5.0psf.
  - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=236, 8=209.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 11) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T46	Truss Type GABLE	Qty 1	Ply 1	6813442
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:58 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-xKxPxEFFUFVeJQL58qbLIFzsdROXcStHW?5Nw7z9io

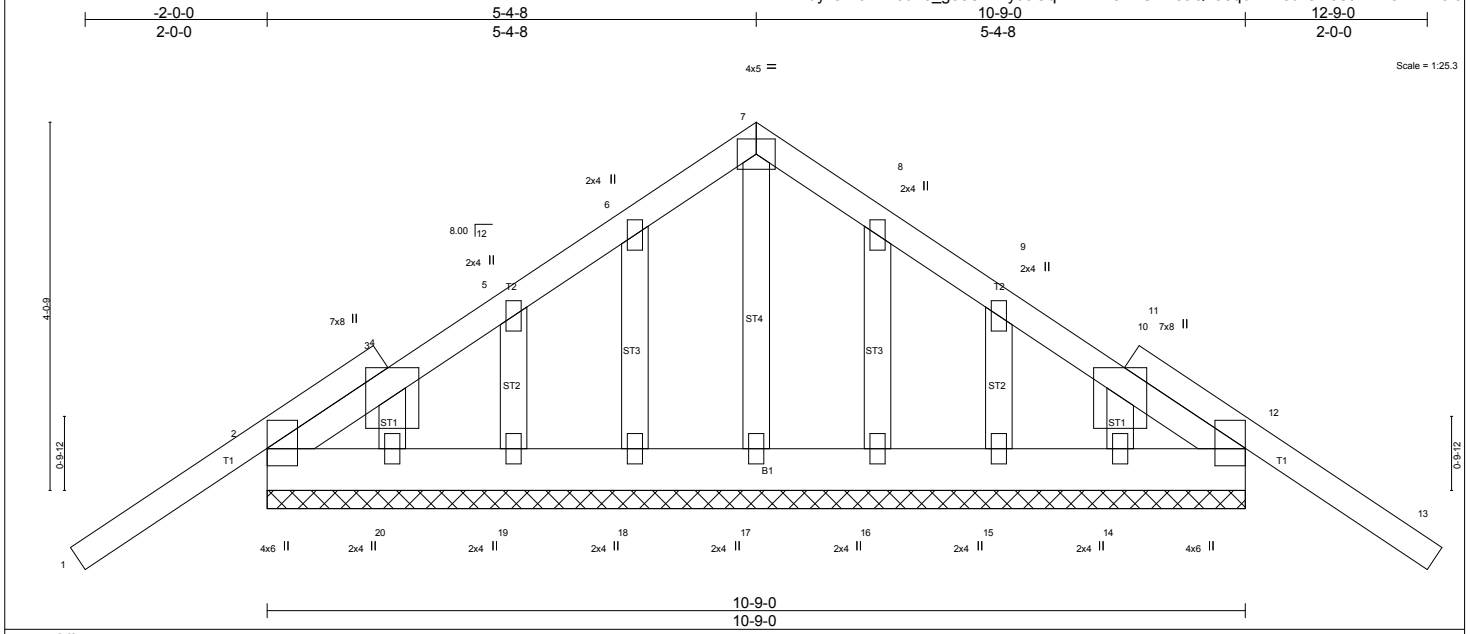


Plate Offsets (X,Y): [3:0-3-13,0-3-8], [11:0-3-13,0-3-8], [12:Edge,0-6-3]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plates Increase 1.25	BC 0.06	Vert(LL) -0.03 13 n/r 120		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.03	Vert(TL) -0.06 13 n/r 120		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 12 n/a n/a		
	Code FBC2010/TPI2007			Weight: 75 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 10-9-0.  
 (lb) - Max Horz 2=-143(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 20, 16, 15, 14 except 2=-101(LC 12), 12=-117(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=320(LC 2), 12=320(LC 2)

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

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 20, 16, 15, 14 except (jt=lb) 2=101, 12=117.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard



June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T47	Truss Type Common Truss	Qty 1	Ply 2	Job Reference (optional) 6813443
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:59 2013 Page 1  
 ID:idyzwioVL?Jd1o\_g5eSWDyuaGq-PWVnk\_GtFZeVxavHiX6aESW?9EchLjqKqfqsZz9iok

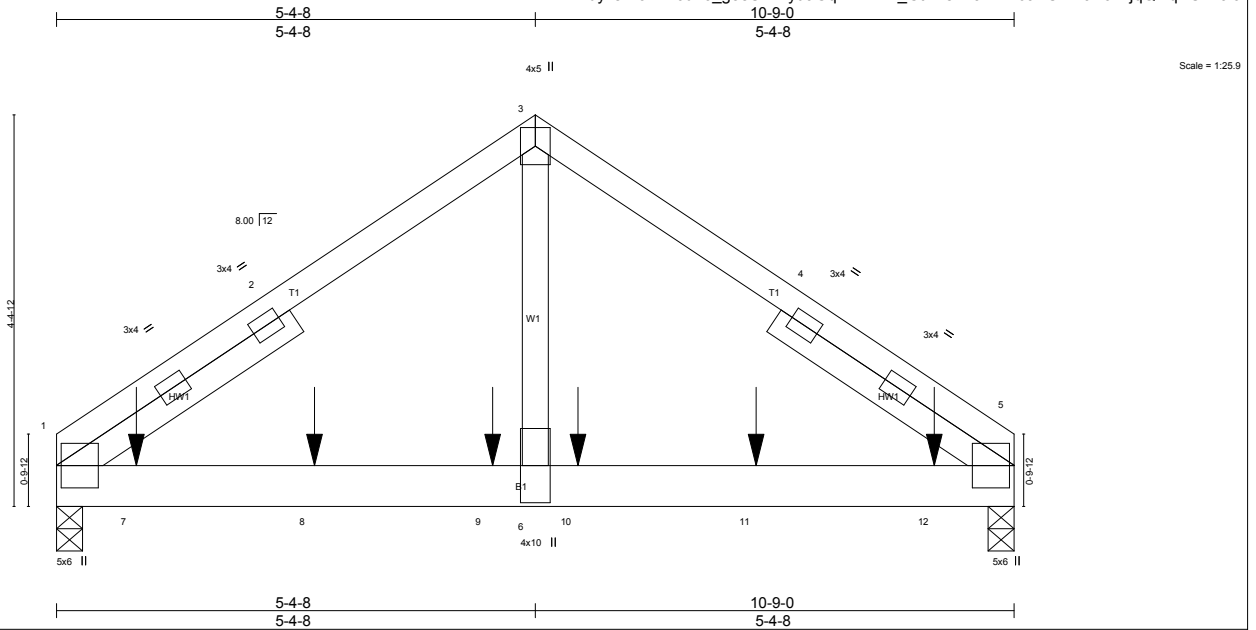


Plate Offsets (X,Y): [1:0-3-0,0-0-10], [5:0-3-1,0-0-10]

<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	Plates Increase 1.25	TC 0.47	Vert(LL) -0.05 1-6 >999 240	MT20	244/190
TCDL 15.0	Lumber Increase 1.25	BC 0.51	Vert(TL) -0.11 1-6 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(TL) 0.02 5 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 119 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP SS  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 3-1-12, Right 2x4 SP No.3 3-1-12

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

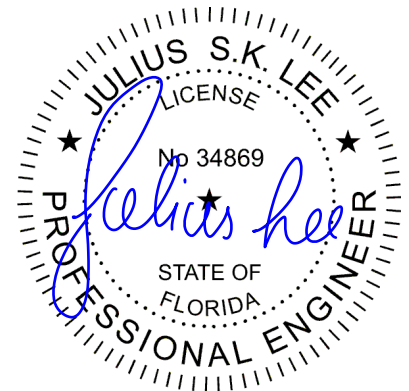
**REACTIONS** (lb/size) 1=3517/0-3-8 (min. 0-2-5), 5=3517/0-3-8 (min. 0-2-5)  
 Max Horz 1=99(LC 7)  
 Max Uplift 1=-723(LC 8), 5=-723(LC 9)  
 Max Grav 1=3917(LC 2), 5=3918(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-4106/746, 2-3=-3999/771, 3-4=-3999/771, 4-5=-4106/746  
 BOT CHORD 1-7=-571/3246, 7-8=-571/3246, 8-9=-571/3246, 9-10=-571/3246, 10-11=-571/3246, 11-12=-571/3246  
 WEBS 3-6=-766/4282

- NOTES** (11-13)
- 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 0-7-0 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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=723, 5=723.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1163 lb down and 219 lb up at 0-10-12, 1163 lb down and 219 lb up at 2-10-12, 1163 lb down and 219 lb up at 4-10-12, 1163 lb down and 219 lb up at 5-10-4, and 1163 lb down and 219 lb up at 7-10-4, and 1163 lb down and 219 lb up at 9-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**LOAD CASE(S)** Standard

Continued on page 2



June 4, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435

Job 492601	Truss T47	Truss Type Common Truss	Qty 1	Ply <b>2</b>	Job Reference (optional) 6813443
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:03:59 2013 Page 2  
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**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-10

Concentrated Loads (lb)

Vert: 7=-1047(B) 8=-1047(B) 9=-1047(B) 10=-1047(B) 11=-1047(B) 12=-1047(B)

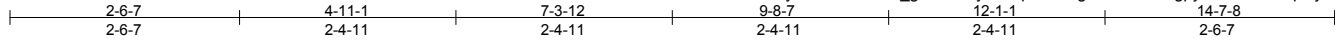
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

Job 492601	Truss TG50	Truss Type FLAT TRUSS	Qty 1	Ply 3	Job Reference (optional) 6813444
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:04:01 2013 Page 1  
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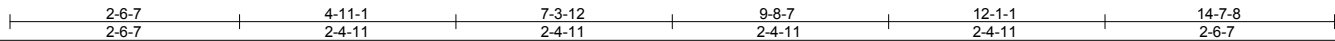
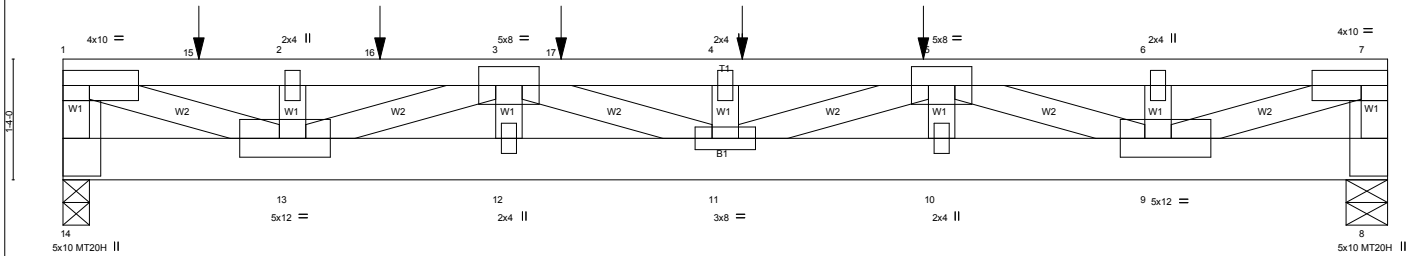


Plate Offsets (X,Y): [8:Edge,0-3-8], [9:0-3-4,0-2-8], [13:0-5-4,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plates Increase 1.00	TC 0.83	in (loc) l/defl L/d	MT20 244/190	
TCDL 10.0	Lumber Increase 1.00	BC 0.79	Vert(LL) -0.30 11 >570 360	MT20H 187/143	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Vert(TL) -0.47 11 >365 240		
BCDL 5.0	Code FBC2010/TP12007	(Matrix)	Horz(TL) 0.06 8 n/a n/a		
			Wind(LL) 0.20 11 >847 240		Weight: 244 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W2: 2x4 SP No.1	

**REACTIONS** (lb/size) 14=4585/0-3-8 (min. 0-2-3), 8=3676/0-5-8 (min. 0-1-12)  
 Max Uplift 14=992(LC 8), 8=795(LC 8)  
 Max Grav 14=5604(LC 2), 8=4492(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-14=-4929/1776, 1-15=-11043/3958, 2-15=-11043/3958, 2-16=-11043/3958, 3-16=-11043/3958,  
 3-17=-19729/7071, 4-17=-19729/7071, 4-5=-19729/7071, 5-6=-9509/3408, 6-7=-9509/3408,  
 7-8=-3993/1440  
 BOT CHORD 13-14=-285/791, 12-13=-6731/18775, 11-12=-6731/18775, 10-11=-6529/18212, 9-10=-6529/18212,  
 8-9=-197/547  
 WEBS 1-13=-3958/11046, 2-13=-1835/683, 3-13=-8331/2988, 3-12=-192/594, 3-11=-367/1027,  
 4-11=-1709/636, 5-11=-584/1634, 5-10=-120/394, 5-9=-9377/3362, 6-9=-582/233, 7-9=-3459/9656

- NOTES** (12-14)
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 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.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=992, 8=795.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1167 lb down and 418 lb up at 1-6-0, 1167 lb down and 418 lb up at 3-6-0, 1167 lb down and 418 lb up at 5-6-0, and 1167 lb down and 418 lb up at 7-6-0, and 1774 lb down and 636 lb up at 9-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
  - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



Continued on page 2  
**LOAD CASE(S)** Standard

June 4, 2013

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Julius Lee PE.  
 1109 Coastal Bay  
 Boynton Beach, FL 33435



Job 492601	Truss TG50	Truss Type FLAT TRUSS	Qty 1	Ply <b>3</b>	Job Reference (optional) 6813444
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Sep 27 2012 MiTek Industries, Inc. Tue Jun 04 09:04:01 2013 Page 2  
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**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-182, 8-14=-10

Concentrated Loads (lb)

Vert: 4=-955 5=-1451 15=-955 16=-955 17=-955

Trapezoidal Loads (plf)

Vert: 5=-280-to-7=-182

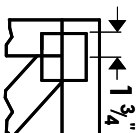
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

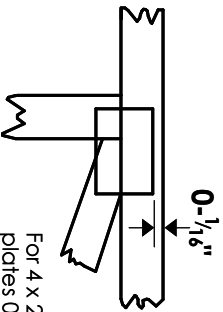
Julius Lee PE.  
1109 Coastal Bay  
Boynton Beach, FL 33435

# 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- $\frac{1}{8}$ " 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

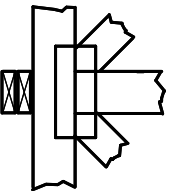
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

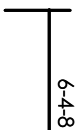


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

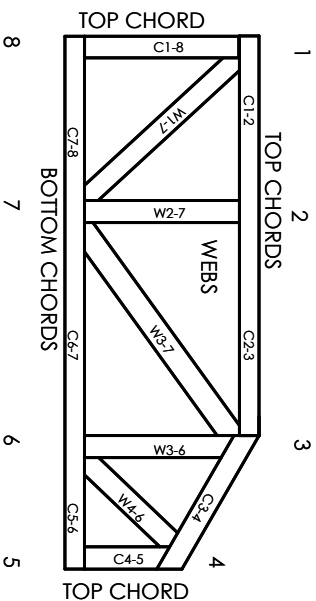
## Industry Standards:

ANSI/FP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



dimensions shown in ft-in-sixteenths (Drawings not to scale)



**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, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A  
NER-487, NER-561  
95110, 84-32, 96-67, ER-3907, 9432A

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# 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 BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware of joint locations are regulated by ANSI/FP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
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/TP11 Quality Criteria.