73

JULIUS LEE PE.

RE: 371231 - BLAKE CONST. - ELLIOTT RES.

1109 COASTAL BAY BLVD, BOYNTON BEACH, FL 33435

Site Information:
Project Customer: BLAKE CONST. Project Name: 371231 Model: ELLIOTT RES.
Lot/Block: 21 Subdivision: COUNTRY LAKE
Address: 636 COUNTRY LAKE DR.
City: COLUMBIA CTY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: BLAKE N. LUNDE II License #: RR0067618
Address: 2250 SW JAGUAR DR
City: LAKE CITY, State: FL

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: N/A psf
Roof Load: 32.0 psf

This package includes 57 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	I5654158	CJ1	6/28/012	18	I5654175	HJ7A	6/28/012
2	I5654159	CJ1A	6/28/012	19	I5654176	HJ9	6/28/012
3	I5654160	CJ2	6/28/012	20	I5654177	PB01	6/28/012
4	I5654161	CJ2A	6/28/012	21	I5654178	PB01G	6/28/012
5	I5654162	CJ3	6/28/012	22	I5654179	PB02	6/28/012
6	I5654163	CJ4	6/28/012	23	I5654180	PB03	6/28/012
7	I5654164	CJ5	6/28/012	24	I5654181	T01	6/28/012
8	I5654165	EJ2	6/28/012	25	I5654182	T01G	6/28/012
9	I5654166	EJ2A	6/28/012	26	I5654183	T02	6/28/012
10	I5654167	EJ5	6/28/012	27	I5654184	T03	6/28/012
11	I5654168	EJ6	6/28/012	28	I5654185	T04	6/28/012
12	I5654169	EJ6A	6/28/012	29	I5654186	T05	6/28/012
13	I5654170	EJ6B	6/28/012	30	I5654187	T06	6/28/012
14	I5654171	EJ7	6/28/012	31	I5654188	T07	6/28/012
15	I5654172	FG1	6/28/012	32	I5654189	T08	6/28/012
16	I5654173	FG2	6/28/012	33	I5654190	T09	6/28/012
17	I5654174	HJ7	6/28/012	34	I5654191	T10	6/28/012

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, 2013.

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.

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

Julius Lee

RE: 371231 - BLAKE CONST. - ELLIOTT RES.

Site Information:

Project Customer: BLAKE CONST. Project Name: 371231 Model: ELLIOTT RES.
Lot/Block: 21 Subdivision: COUNTRY LAKE
Address: 636 COUNTRY LAKE DR.
City: COLUMBIA CTY State: FL

No.	Seal#	Truss Name	Date
35	I5654192	T11	6/28/012
36	I5654193	T12	6/28/012
37	I5654194	T13	6/28/012
38	I5654195	T15	6/28/012
39	I5654196	T16	6/28/012
40	I5654197	T16A	6/28/012
41	I5654198	T17	6/28/012
42	I5654199	T18	6/28/012
43	I5654200	T19	6/28/012
44	I5654201	T20	6/28/012
45	I5654202	T21	6/28/012
46	I5654203	T22	6/28/012
47	I5654204	T23	6/28/012
48	I5654205	T24	6/28/012
49	I5654206	T25	6/28/012
50	I5654207	T26	6/28/012
51	I5654208	T27	6/28/012
52	I5654209	T28	6/28/012
53	I5654210	T29	6/28/012
54	I5654211	T30	6/28/012
55	I5654212	T31	6/28/012
56	I5654213	T32	6/28/012
57	I5654214	T33	6/28/012

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	CJ1	JACK	10	1	I5654158
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:25 2012 Page 1

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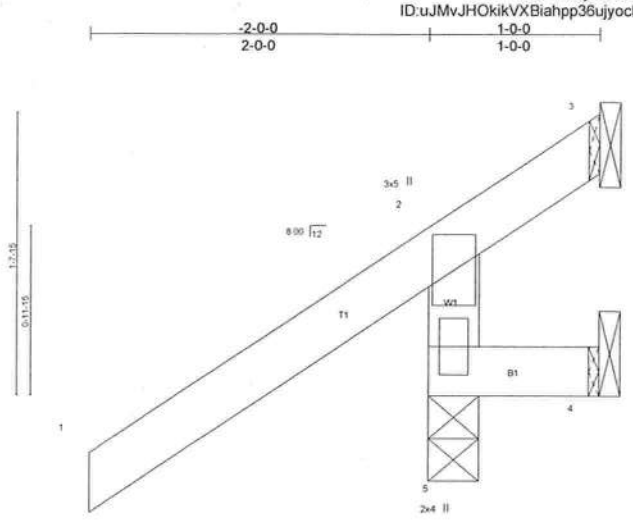

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 8 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=237/0-3-8 (min. 0-1-8), 4=-23/Mechanical, 3=-74/Mechanical
Max Horz 5=89(LC 12)
Max Uplift5=-143(LC 12), 4=-30(LC 22), 3=-91(LC 2)
Max Grav 5=290(LC 2), 4=3(LC 3), 3=50(LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-329/323

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for 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 5, 30 lb uplift at joint 4 and 91 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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	CJ1A	JACK	2	1	I5654159
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:26 2012 Page 1

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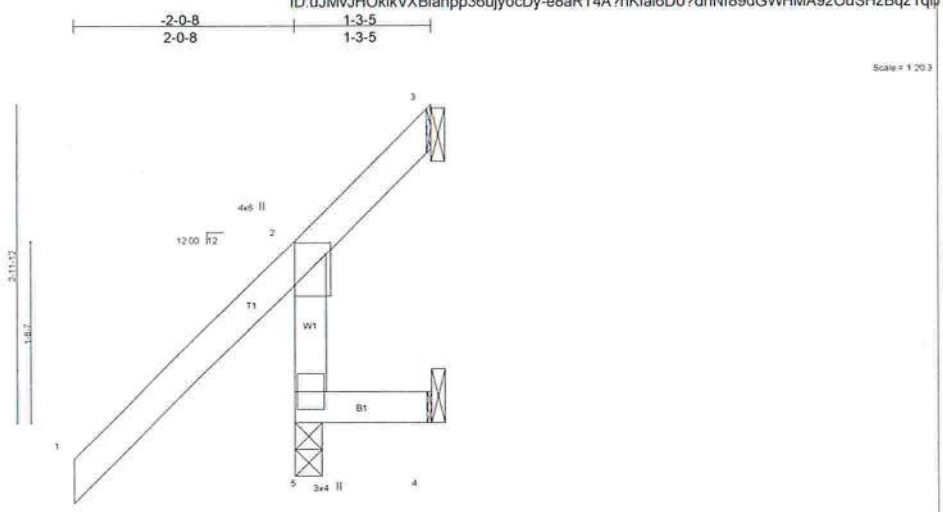


Plate Offsets (X,Y): [2:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.02	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 11 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

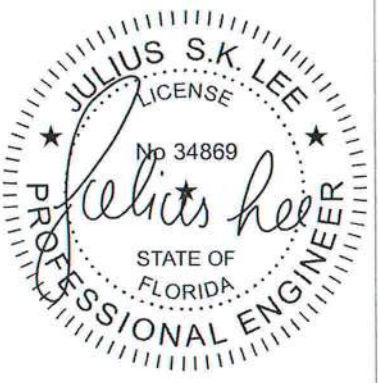
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=221/0-3-0 (min. 0-1-8), 4=-13/Mechanical, 3=-51/Mechanical
Max Horz 5=149(LC 12)
Max Uplift 5=-32(LC 12), 4=-72(LC 12), 3=-63(LC 2)
Max Grav 5=270(LC 2), 4=10(LC 3), 3=42(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-289/263

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 32 lb uplift at joint 5, 72 lb uplift at joint 4 and 63 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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	CJ2	JACK	2	1	I5654160
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:27 2012 Page 1

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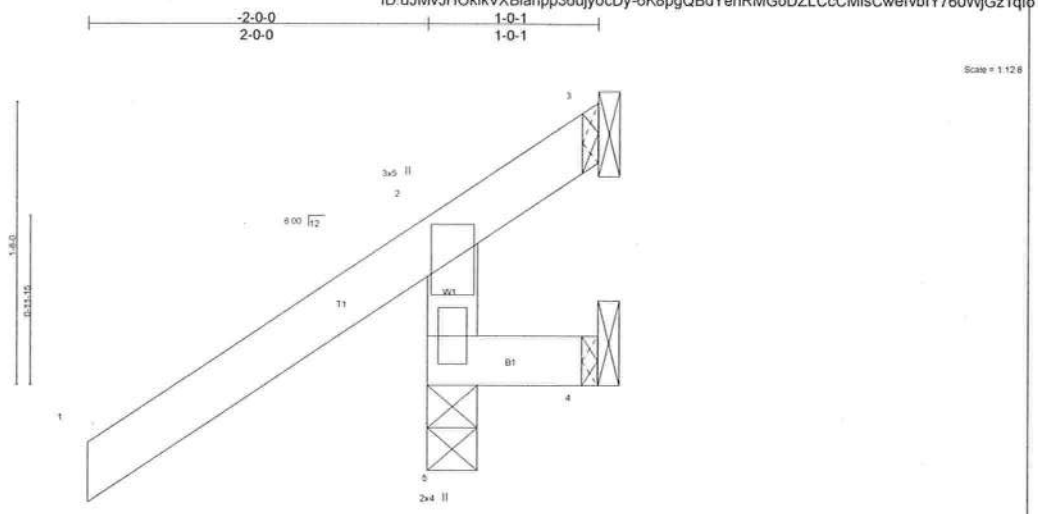

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 8 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-1 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=237/0-3-8 (min. 0-1-8), 4=-23/Mechanical, 3=-74/Mechanical
Max Horz 5=89(LC 12)
Max Uplift 5=-142(LC 12), 4=-29(LC 2), 3=-91(LC 2)
Max Grav 5=290(LC 2), 4=4(LC 10), 3=49(LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-328/324

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 142 lb uplift at joint 5, 29 lb uplift at joint 4 and 91 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) 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 28,201

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
121231	CJ2A	JACK	2	1	I5654161
					Job Reference (optional)

Builders FirstSource Lake City, FL 32055 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:28 2012 Page 1

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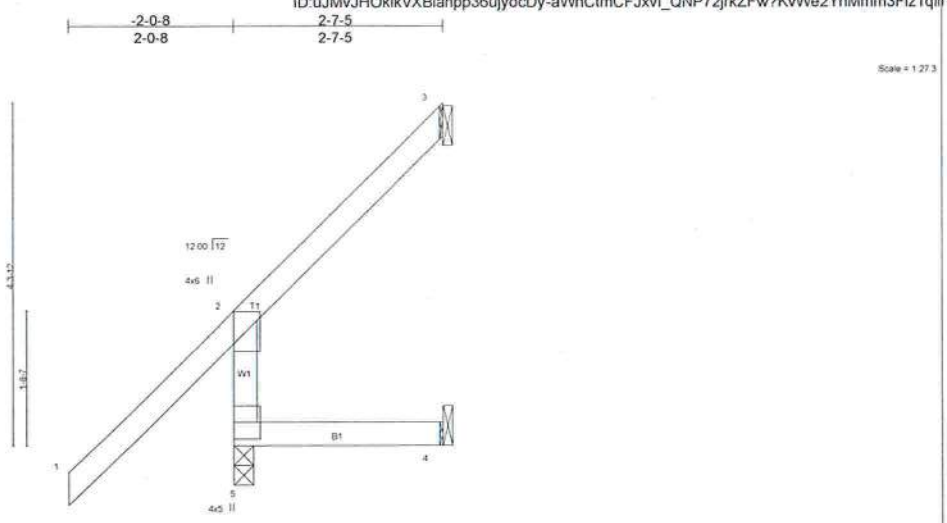


Plate Offsets (X,Y) [2:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.88	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	0.02	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.06	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 16 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

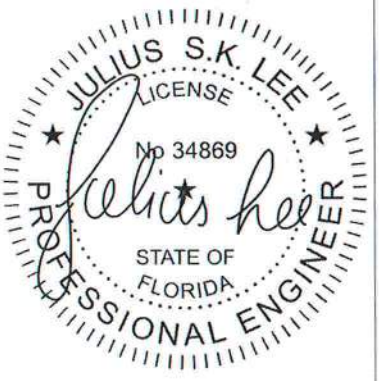
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=205/0-3-0 (min. 0-1-8), 3=19/Mechanical, 4=2/Mechanical
Max Horz 5=187(LC 12)
Max Uplift 5=-9(LC 12), 3=-105(LC 12), 4=-45(LC 12)
Max Grav 5=249(LC 2), 3=74(LC 10), 4=35(LC 10)

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

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 9 lb uplift at joint 5, 105 lb uplift at joint 3 and 45 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) 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 28,2012

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	CJ3	JACK	10	1	I5654162
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:29 2012 Page 1

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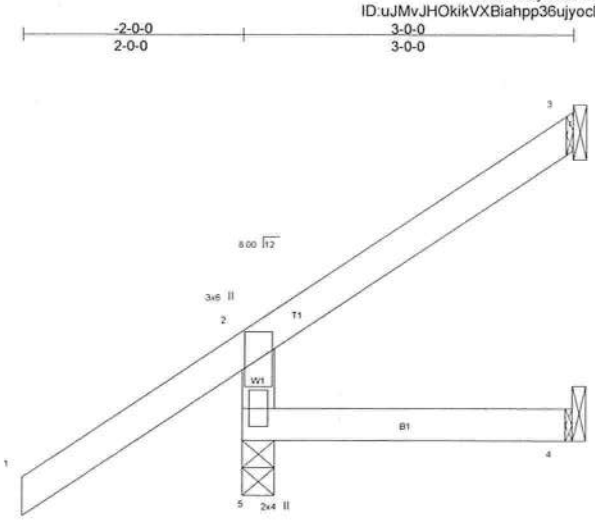

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.02	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 14 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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=206/0-3-8 (min. 0-1-8), 3=34/Mechanical, 4=5/Mechanical
Max Horz 5=140(LC 12)
Max Uplift 5=-95(LC 12), 3=-71(LC 12), 4=-34(LC 9)
Max Grav 5=250(LC 2), 3=67(LC 21), 4=36(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-277/214

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for 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 95 lb uplift at joint 5, 71 lb uplift at joint 3 and 34 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) 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 28,201

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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	BLAKE CONST. - ELLIOTT RES. I5654163
371231	CJ4	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:29 2012 Page 1
ID:uJMvJHOkikVXBiahpp36ujyocDy-2jFa56Dt4F19caybglE4HnnCYkHtNVorbQVdo8z1qlm

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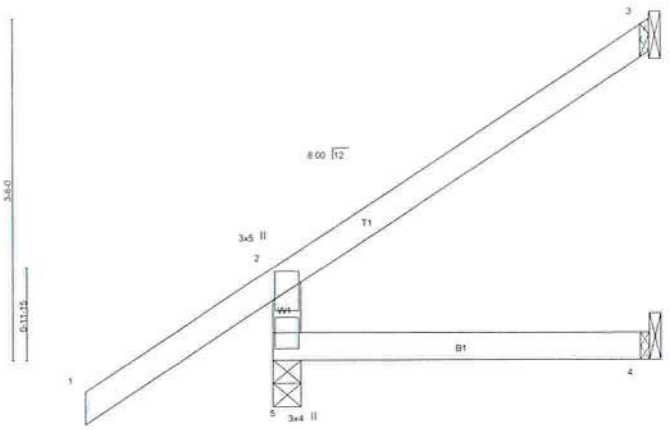


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.03	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.04	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 18 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

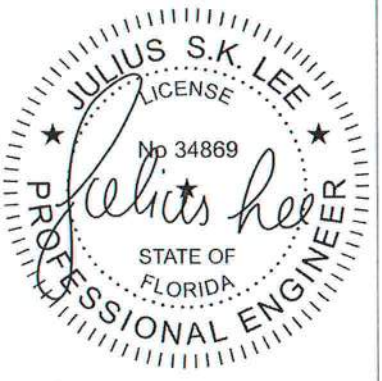
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=224/0-3-8 (min. 0-1-8), 3=61/Mechanical, 4=15/Mechanical
Max Horz 5=174(LC 12)
Max Uplift 5=-94(LC 12), 3=-105(LC 12), 4=-8(LC 12)
Max Grav 5=270(LC 2), 3=102(LC 21), 4=51(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-303/225

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 94 lb uplift at joint 5, 105 lb uplift at joint 3 and 8 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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	CJ5	JACK	6	1	I5654164
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:30 2012 Page 1

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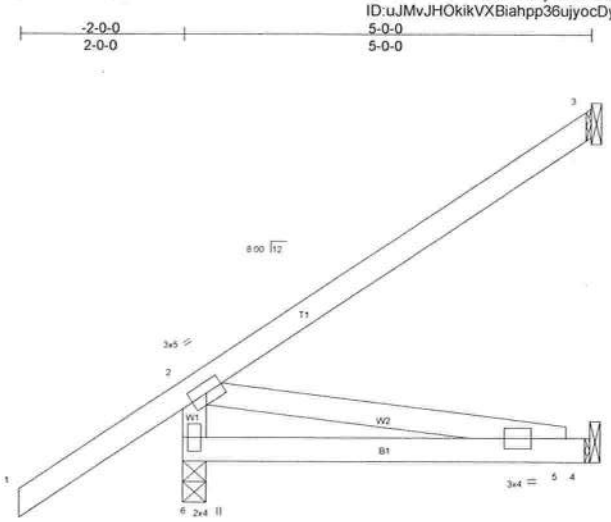

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.06	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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) 6=245/0-3-8 (min. 0-1-8), 3=84/Mechanical, 4=24/Mechanical
Max Horz 6=207(LC 12)
Max Uplift6=-96(LC 12), 3=-127(LC 12), 4=-20(LC 12)
Max Grav 6=295(LC 2), 3=138(LC 21), 4=72(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-314/210
BOT CHORD 5-6=-277/207
WEBS 2-5=-210/281

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 96 lb uplift at joint 6, 127 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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	EJ2	JACK	3	1	I5654165

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:31 2012 Page 1

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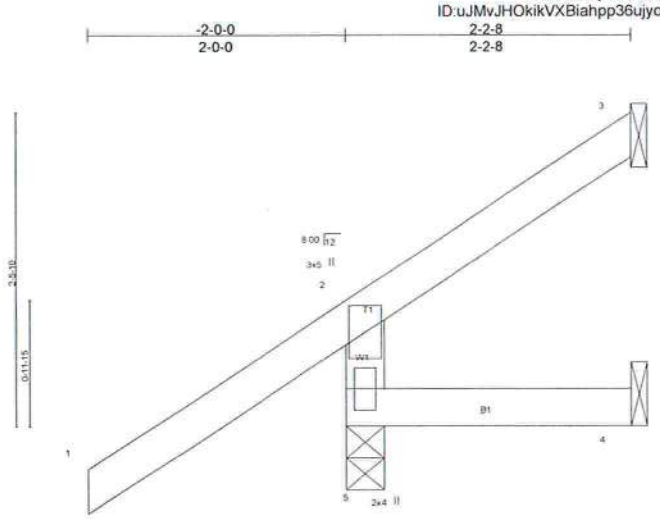


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

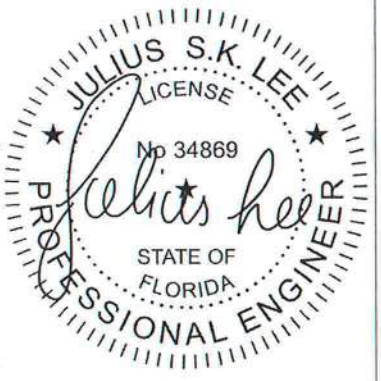
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=199/0-3-8 (min. 0-1-8), 3=8/Mechanical, 4=-4/Mechanical
Max Horz 5=127(LC 12)
Max Uplift 5=-99(LC 12), 3=-40(LC 12), 4=-7(LC 2)
Max Grav 5=242(LC 2), 3=42(LC 10), 4=24(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-269/228

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 99 lb uplift at joint 5, 40 lb uplift at joint 3 and 7 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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	EJ2A	MONO TRUSS	1	1	I5654166
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:31 2012 Page 1
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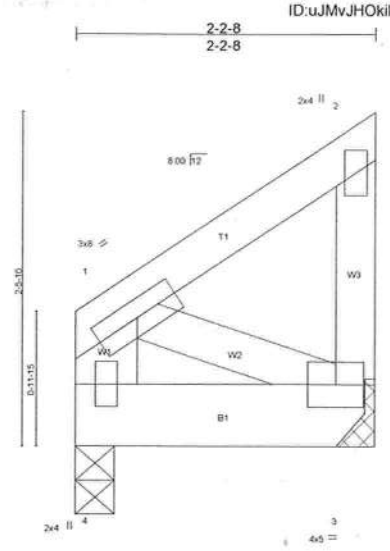

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.06	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 15 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=654/0-3-8 (min. 0-1-8), 3=49/Mechanical
Max Horz 4=42(LC 8)
Max Uplift 4=-178(LC 8), 3=-50(LC 8)
Max Grav 4=777(LC 2), 3=71(LC 15)

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

NOTES (9-12)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 178 lb uplift at joint 4 and 50 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 719 lb down and 194 lb up at 0-2-12 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 SPp, 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: 3-4=-10, 1-2=-44
Concentrated Loads (lb)
Vert: 4=-605(F)

June 28,201

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	EJ5	JACK	2	1	I5654167
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:32 2012 Page 1

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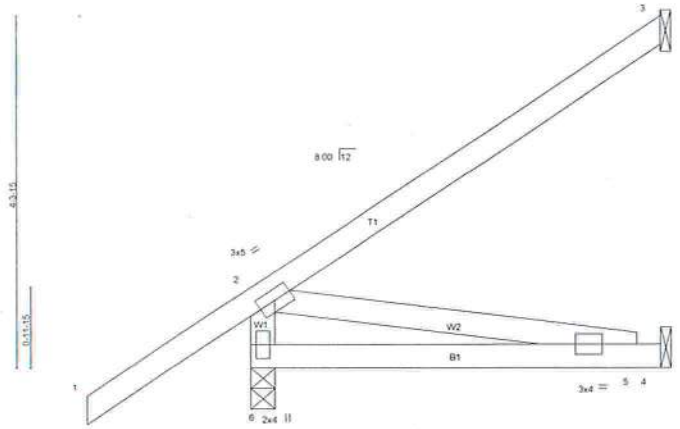

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	0.11	5-6	>520	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	0.10	5-6	>597	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=245/0-3-8 (min. 0-1-8), 3=84/Mechanical, 4=24/Mechanical
Max Horz 6=207(LC 12)
Max Uplift6=-96(LC 12), 3=-127(LC 12), 4=-63(LC 9)
Max Grav 6=295(LC 2), 3=137(LC 21), 4=72(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-314/210
BOT CHORD 5-6=-277/207
WEBS 2-5=-210/281

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for 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 96 lb uplift at joint 6, 127 lb uplift at joint 3 and 63 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) 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	EJ6	MONO TRUSS	4	1	I5654168
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:33 2012 Page 1

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2-0-0 2-9-11 3-5-14

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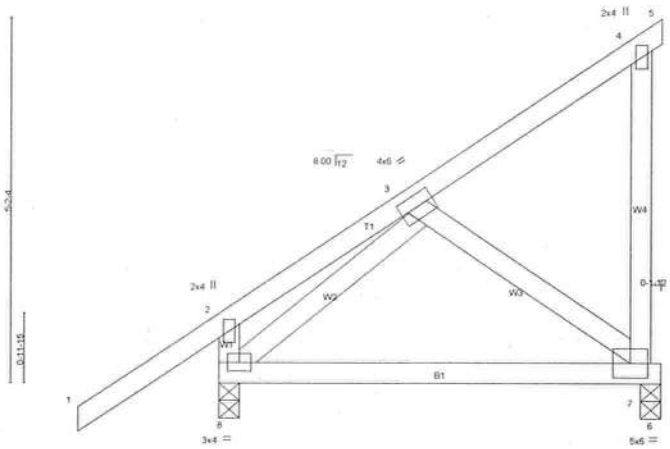

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.24	7-8	>297	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	0.21	7-8	>343	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 42 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

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

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

REACTIONS (lb/size) 7=148/0-3-8 (min. 0-1-8), 8=270/0-3-8 (min. 0-1-8)
Max Horz 8=173(LC 12)
Max Uplift 7=-144(LC 9), 8=-72(LC 9)
Max Grav 7=173(LC 2), 8=324(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-351/391
WEBS 3-7=-257/200, 3-8=-253/117

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for 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 144 lb uplift at joint 7 and 72 lb uplift at joint 8.
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) 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 28,201

WARNING - *Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	EJ6A	MONO TRUSS	2	1	I5654169
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:33 2012 Page 1

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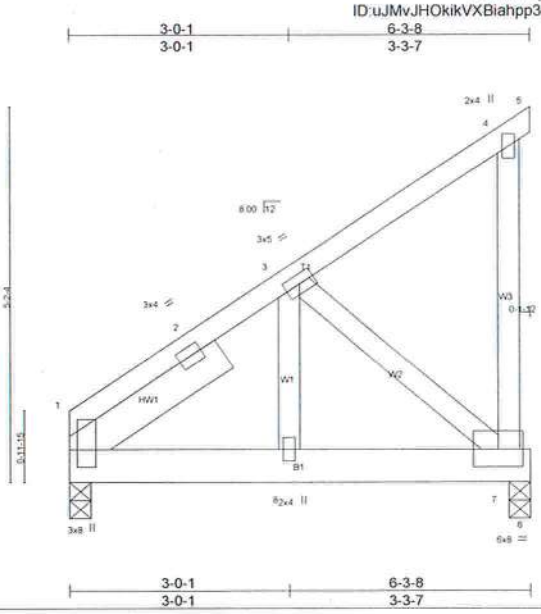

Plate Offsets (X,Y): [1:0-3-0,0-1-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.01	8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 47 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=808/0-3-8 (min. 0-1-8), 7=882/0-3-8 (min. 0-1-8)
Max Horz 1=434(LC 8)
Max Uplift 1=-168(LC 5), 7=-543(LC 5)
Max Grav 1=958(LC 2), 7=1144(LC 15)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-507/173, 2-3=-654/108, 4-7=-313/164
BOT CHORD 1-8=-396/706, 7-8=-370/706
WEBS 3-8=-224/460, 3-7=-934/489

NOTES (8-9)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left exposed; porch left and right 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 168 lb uplift at joint 1 and 543 lb uplift at joint 7.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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) 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: 6-9=-118(F=-108), 1-4=-152(F=-108), 4-5=-122(F=-108)

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	EJ8B	MONO HIP	2	1	I5654170
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:34 2012 Page 1
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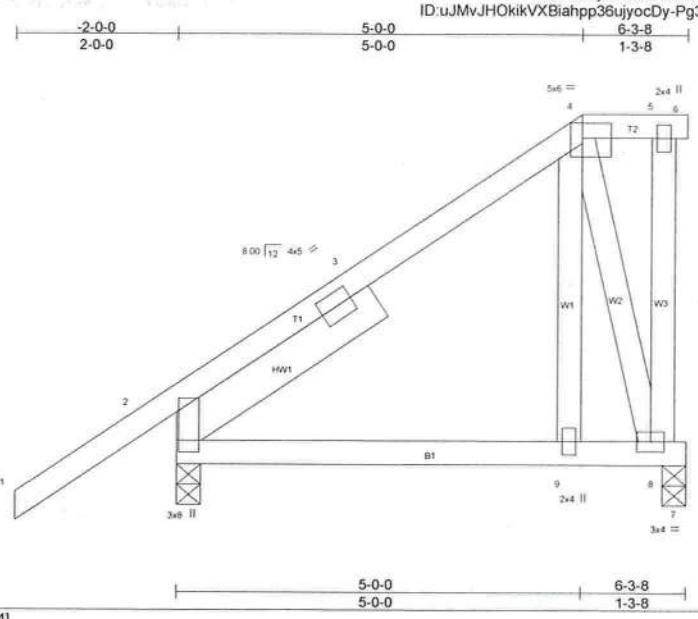

Plate Offsets (X,Y): [2:0-1-12,0-0-5], [4:0-4-4,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	0.03	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.04	2-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 48 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SYP No.2 3-0-5

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

REACTIONS (lb/size) 2=286/0-3-8 (min. 0-1-8), 8=258/0-3-8 (min. 0-1-8)
Max Horz 2=158(LC 8)
Max Uplift2=-164(LC 5), 8=-499(LC 8)
Max Grav 2=344(LC 2), 8=305(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-233/254, 4-8=-294/511

NOTES (11-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left exposed; porch left and right exposed; 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 164 lb uplift at joint 2 and 499 lb uplift at joint 8.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 347 lb up at 5-0-0 on top chord, and 97 lb down and 199 lb up at 5-0-0 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 SPp, 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: 1-4=-44, 4-5=-44, 5-6=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 9=-32(B) 4=-93(B)

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	EJ7	MONO TRUSS	25	1	I5654171
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:35 2012 Page 1

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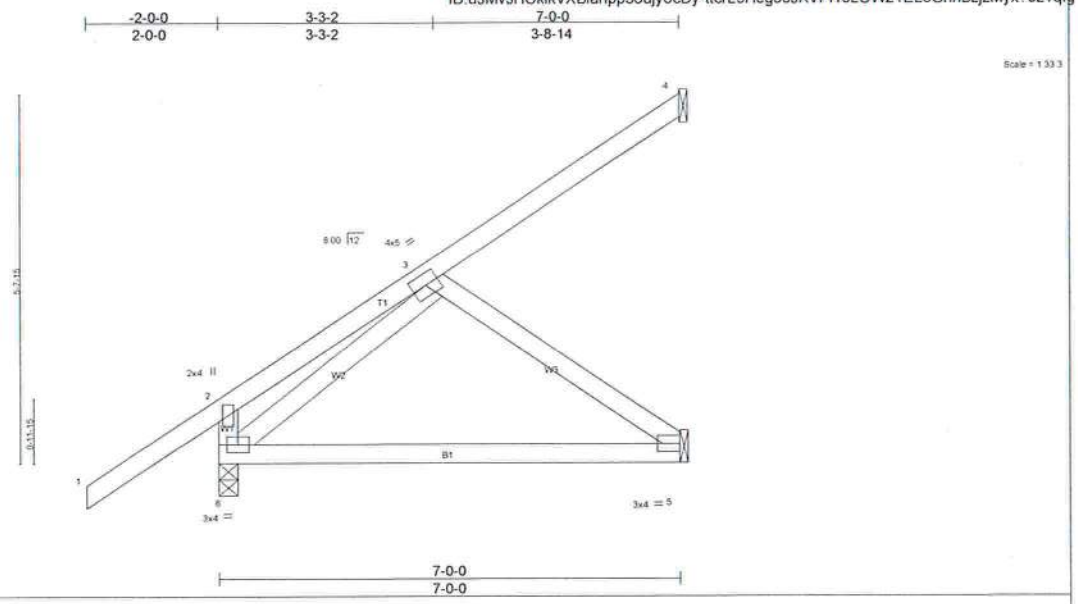


Plate Offsets (X,Y): [5:Edge,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.13	5-6	>621	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.23	5-6	>355	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 40 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

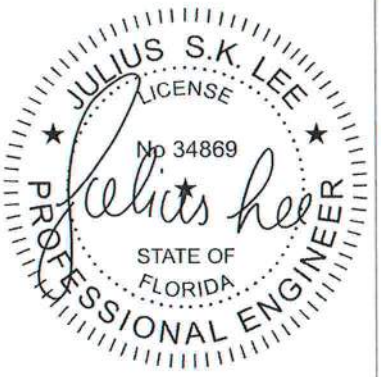
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=72/Mechanical, 5=96/Mechanical, 6=294/0-3-8 (min. 0-1-8)
Max Horz 6=189(LC 12)
Max Uplift4=-67(LC 12), 5=-64(LC 12), 6=-47(LC 12)
Max Grav 4=96(LC 21), 5=140(LC 21), 6=353(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-352/381
WEBS 3-5=-300/236

NOTES (7-8)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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 67 lb uplift at joint 4, 64 lb uplift at joint 5 and 47 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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	FG1	SPECIAL	1	1	I5654172
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:36 2012 Page 1

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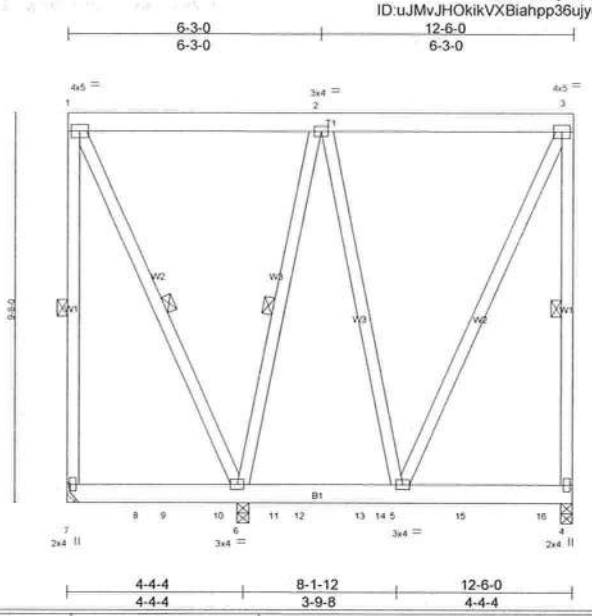

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	0.03	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.03	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 140 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SYP No.2
BOT CHORD 2x6 SYP 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.
WEBS 1 Row at midpt 1-7, 3-4, 1-6, 2-6

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

REACTIONS (lb/size) 7=204/Mechanical, 4=663/0-3-8 (min. 0-1-8), 6=1109/0-3-8 (min. 0-1-8)
Max Uplift 7=-152(LC 4), 4=-634(LC 4), 6=-1052(LC 4)
Max Grav 7=204(LC 1), 4=698(LC 2), 6=1211(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-428/345
WEBS 2-6=-602/444, 2-5=-270/198, 3-5=-309/329

NOTES (10-13)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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, 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 152 lb uplift at joint 7, 634 lb uplift at joint 4 and 1052 lb uplift at joint 6.
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) 220 lb down and 269 lb up at 1-9-12, 220 lb down and 269 lb up at 3-9-12, 220 lb down and 269 lb up at 5-9-12, 220 lb down and 269 lb up at 7-9-12, and 220 lb down and 269 lb up at 9-9-12, and 220 lb down and 269 lb up at 11-9-12 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 SPp, 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=-44, 7-9=-40, 9-11=-10, 11-13=-40, 13-15=-10, 4-15=-40
Concentrated Loads (lb)
Vert: 8=-184(F) 10=-184(F) 12=-184(F) 14=-184(F) 15=-184(F) 16=-184(F)

June 28,201

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	
371231	FG2	SPECIAL	1	1	Job Reference (optional)	I5654173

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:37 2012 Page 1

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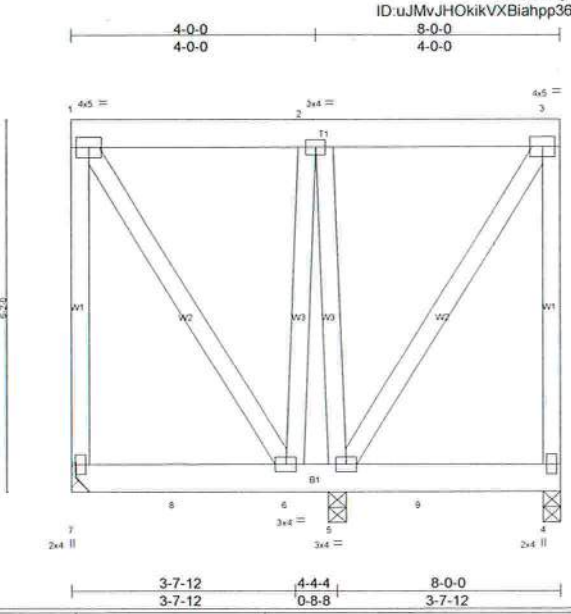


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.07	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 87 lb	FT = 20%

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

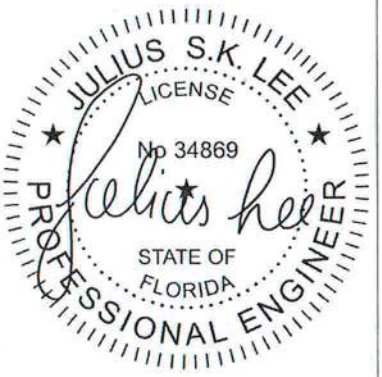
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 7=144/Mechanical, 4=168/0-3-8 (min. 0-1-8), 5=419/0-3-8 (min. 0-1-8)
Max Uplift 7=-148(LC 4), 4=-241(LC 4), 5=-430(LC 4)
Max Grav 7=170(LC 2), 4=199(LC 2), 5=500(LC 2)

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

NOTES (10-13)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 148 lb uplift at joint 7, 241 lb uplift at joint 4 and 430 lb uplift at joint 5.
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) 94 lb down and 170 lb up at 1-9-12, 94 lb down and 170 lb up at 3-9-12, and 94 lb down and 170 lb up at 5-9-12, and 94 lb down and 170 lb up at 7-10-4 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 SPp, 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=-44, 4-7=-10
Concentrated Loads (lb)
Vert: 4=-79(B) 6=-79(B) 8=-79(B) 9=-79(B)

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	HJ7	JACK	2	1	I5654174
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:38 2012 Page 1

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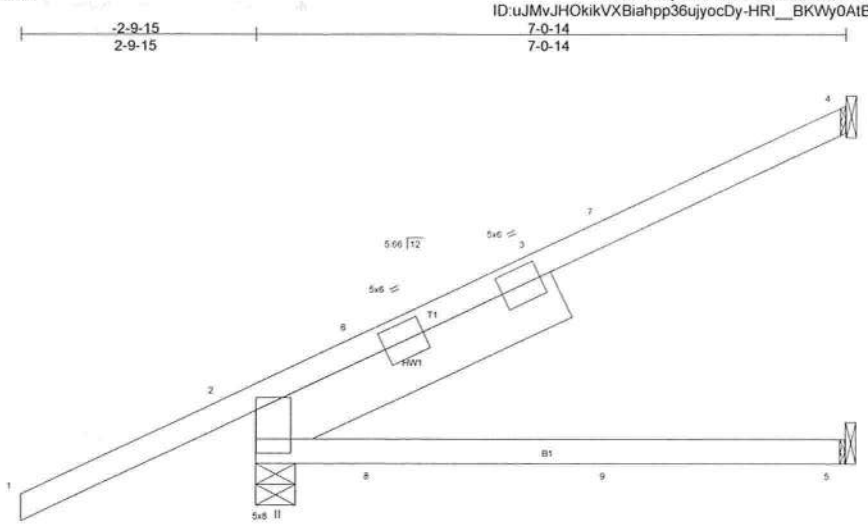

Plate Offsets (X,Y): [2:Edge,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	0.25	2-5	>340	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	0.22	2-5	>378	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.04	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 39 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SYP M 31
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SYP DSS 4-0-11

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=101/Mechanical, 2=246/0-5-11 (min. 0-1-8), 5=25/Mechanical
Max Horz 2=226(LC 8)
Max Uplift 4=-232(LC 8), 2=-256(LC 8), 5=-108(LC 5)
Max Grav 4=126(LC 2), 2=312(LC 2), 5=91(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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; porch left and right 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 232 lb uplift at joint 4, 256 lb uplift at joint 2 and 108 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) 39 lb down and 73 lb up at 1-5-12, 39 lb down and 73 lb up at 1-5-12, and 71 lb up at 4-3-11, and 71 lb up at 4-3-11 on top chord, and 38 lb up at 1-5-12, 38 lb up at 1-5-12, and 6 lb down and 44 lb up at 4-3-11, and 6 lb down and 44 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 SPp, 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=-44, 2-5=-10
Concentrated Loads (lb)
Vert: 6=75(F=38, B=38) 7=20(F=10, B=10) 8=29(F=15, B=15) 9=8(F=4, B=4)

June 28,201

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	HJ7A	JACK	2	1	I5654175
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:38 2012 Page 1

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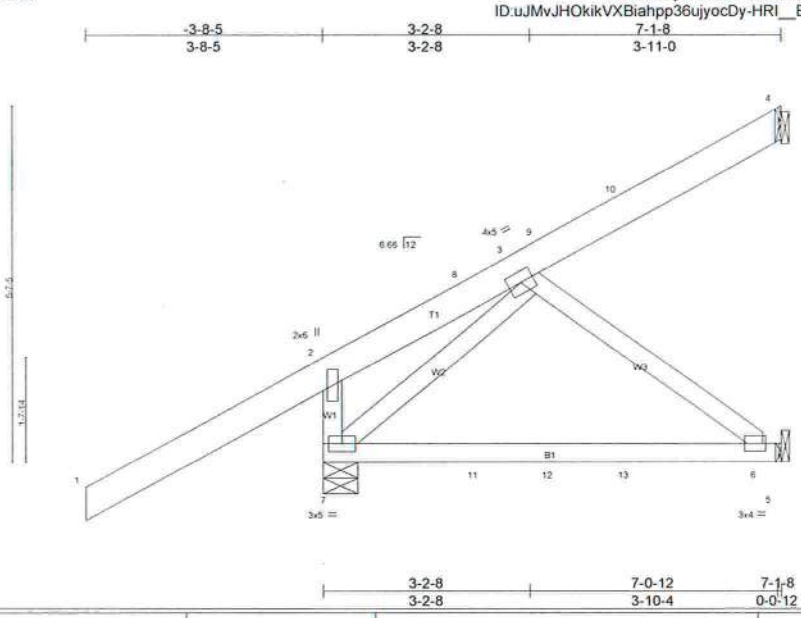


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.16	6-7	>519	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.18	6-7	>456	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 54 lb	FT = 20%

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

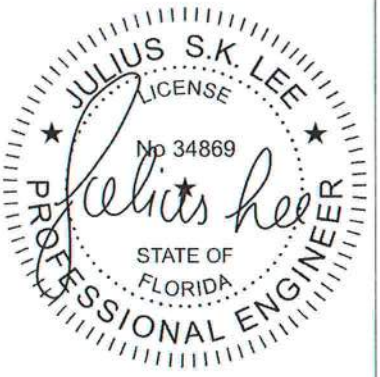
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 4=82/Mechanical, 5=35/Mechanical, 7=338/0-6-7 (min. 0-1-8)
Max Horz 7=259(LC 8)
Max Uplift 4=-139(LC 8), 5=-173(LC 8), 7=-277(LC 8)
Max Grav 4=99(LC 2), 5=98(LC 3), 7=421(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-333/298

NOTES (9-11)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 139 lb uplift at joint 4, 173 lb uplift at joint 5 and 277 lb uplift at joint 7.
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) 40 lb down and 70 lb up at 0-0-7, 17 lb down and 102 lb up at 2-4-10, and 20 lb down and 132 lb up at 3-6-13, and 131 lb up at 4-9-7 on top chord, and 82 lb up at 2-4-10, and 21 lb down and 18 lb up at 3-6-13, and 1 lb down and 55 lb up at 4-9-7 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 SPp, 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=-44, 2-4=-44, 5-7=-10
Concentrated Loads (lb)
Vert: 2=37(F) 8=30(B) 9=-17(F) 10=25(B) 11=10(B) 12=-5(F) 13=7(B)

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	HJ9	MONO TRUSS	3	1	I5654176
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:39 2012 Page 1

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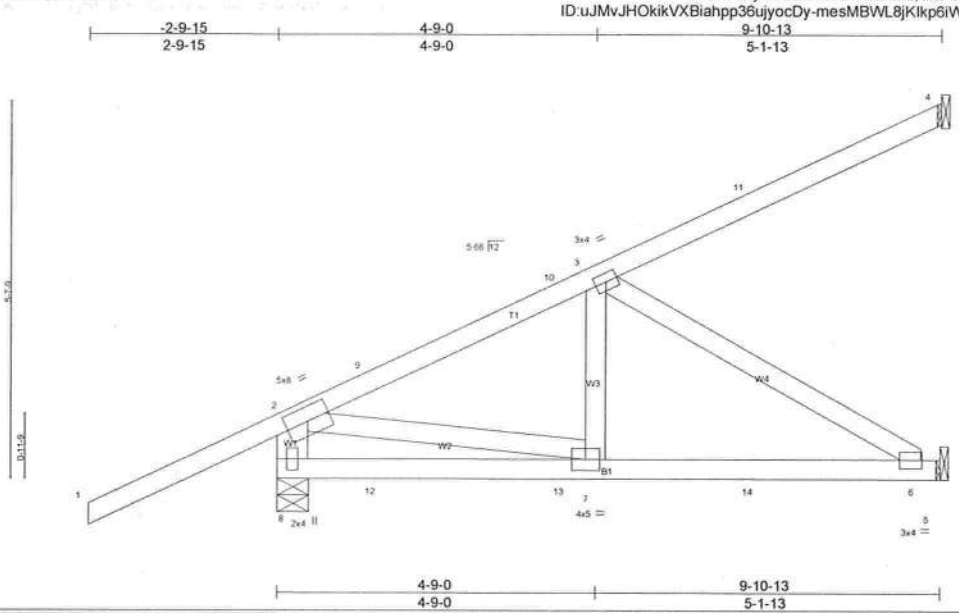

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 55 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SYP No.2

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.

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

REACTIONS (lb/size) 8=339/0-5-11 (min. 0-1-8), 4=123/Mechanical, 5=168/Mechanical
Max Horz 8=274(LC 8)
Max Uplift 8=-323(LC 8), 4=-170(LC 8), 5=-267(LC 8)
Max Grav 8=424(LC 2), 4=150(LC 2), 5=230(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-430/299, 2-9=-329/321, 9-10=-277/351, 3-10=-267/309
BOT CHORD 8-12=-289/129, 12-13=-289/129, 7-13=-289/129, 7-14=-467/284, 6-14=-467/284
WEBS 2-7=-473/582, 3-6=-331/543

NOTES (9-11)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 323 lb uplift at joint 8, 170 lb uplift at joint 4 and 267 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) 47 lb down and 78 lb up at 1-5-12, 47 lb down and 78 lb up at 1-5-12, 78 lb up at 4-3-11, 78 lb up at 4-3-11, and 49 lb down and 133 lb up at 7-1-10, and 49 lb down and 133 lb up at 7-1-10 on top chord , and 38 lb up at 1-5-12, 38 lb up at 1-5-12, 6 lb down and 44 lb up at 4-3-11, 6 lb down and 44 lb up at 4-3-11, and 42 lb down and 30 lb up at 7-1-10, and 42 lb down and 30 lb up 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 SPp, 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=-44, 2-4=-44, 5-8=-10
Concentrated Loads (lb)
Vert: 9=75(F=38, B=38) 10=20(F=10, B=10) 11=-81(F=-40, B=-40) 12=29(F=15, B=15) 13=8(F=4, B=4) 14=-28(F=-14, B=-14)

June 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	PB01	PIGGYBACK	31	1	I5654177
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:40 2012 Page 1
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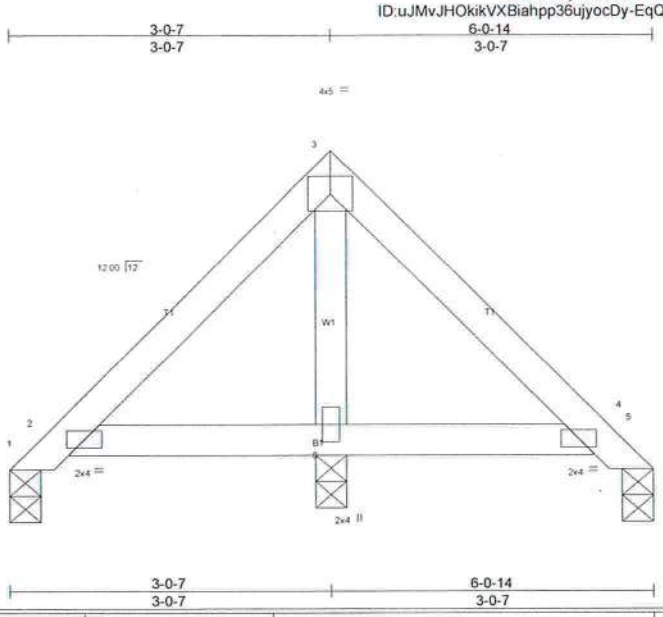


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.00	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 23 lb	FT = 20%

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

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

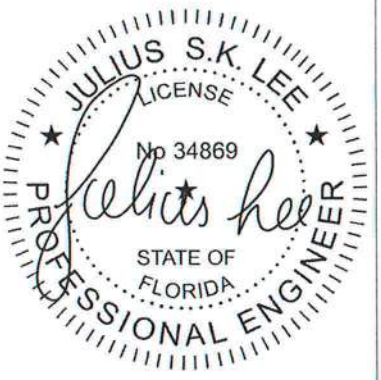
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=25/0-3-8 (min. 0-1-13), 5=25/0-3-8 (min. 0-1-13), 6=266/0-3-8 (min. 0-1-8)
Max Horz 1=74(LC 9)
Max Uplift 1=-11(LC 8), 5=-11(LC 8), 6=-115(LC 12)
Max Grav 1=49(LC 27), 5=49(LC 28), 6=315(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-378/234

NOTES (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 11 lb uplift at joint 5 and 115 lb uplift at joint 6.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	PB01G	PIGGYBACK	1	1	I5654178
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:41 2012 Page 1

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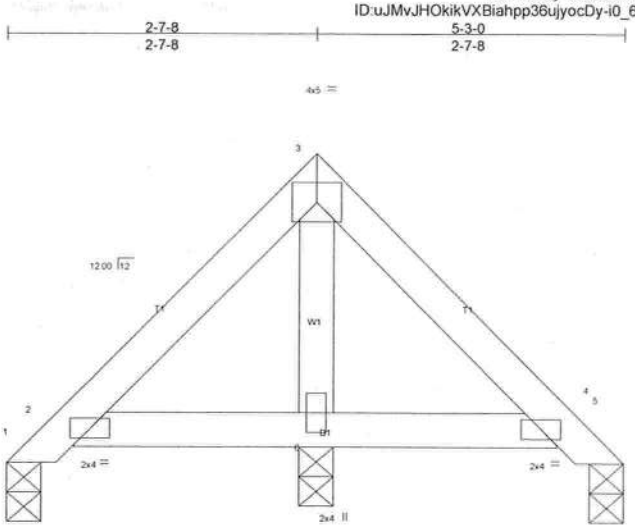


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.08	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.00	4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 20 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 1=27/0-3-8 (min. 0-1-14), 5=27/0-3-8 (min. 0-1-12), 6=217/0-3-8 (min. 0-1-8)
Max Horz 1=-79(LC 8)
Max Uplift 1=-15(LC 8), 5=-15(LC 8), 6=-149(LC 12)
Max Grav 1=47(LC 27), 5=47(LC 28), 6=257(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-295/175

NOTES (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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
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) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 15 lb uplift at joint 5 and 149 lb uplift at joint 6.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 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 28,201

⚠ ***WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	PB02	HIP PIGGYBACK	1	1	I5654179
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:42 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-ADYUpYN10FgJgZR5x_z7JWqX9zl_wOQlax9pluz1qlZ

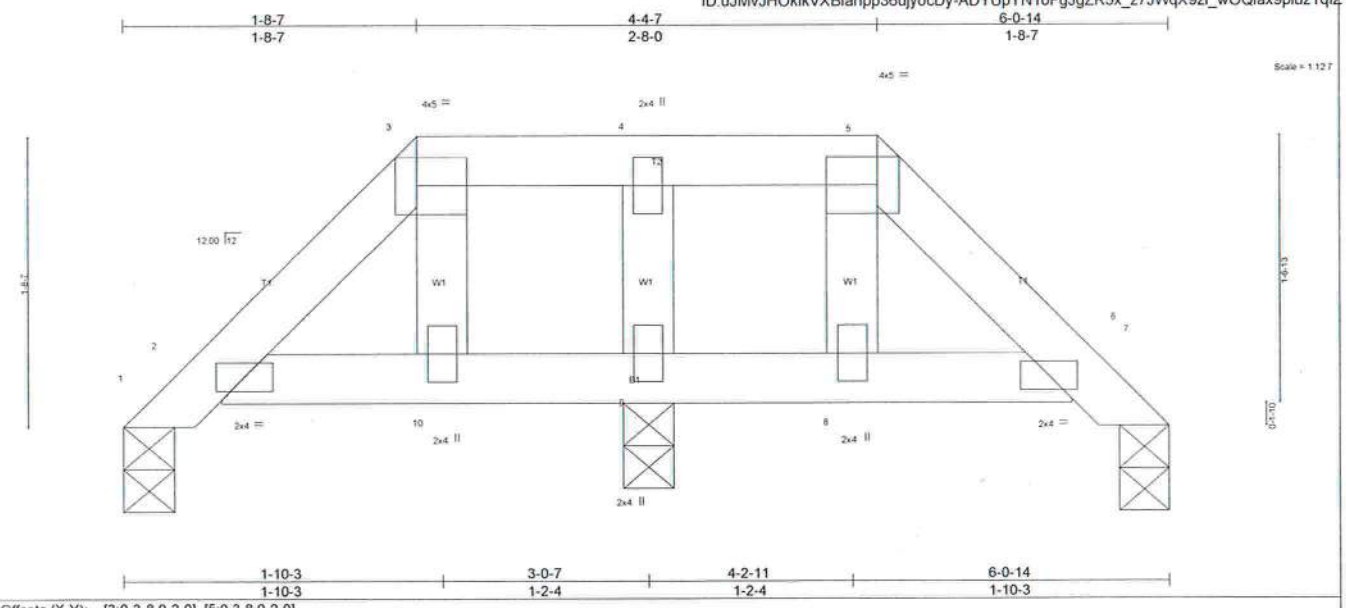


Plate Offsets (X,Y): [3:0-3-8,0-2-0], [5:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.06	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.00	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 23 lb	FT = 20%

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

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

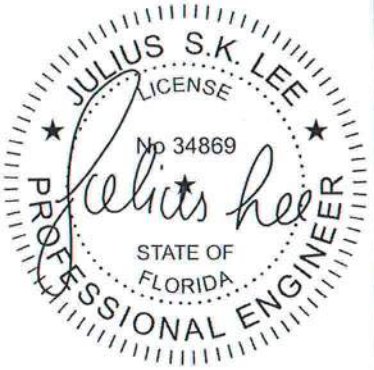
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=73/0-3-8 (min. 0-2-3), 7=73/0-3-8 (min. 0-2-3), 9=168/0-3-8 (min. 0-1-8)
Max Horz 1=40(LC 9)
Max Uplift 1=-19(LC 12), 7=-25(LC 13), 9=-50(LC 9)
Max Grav 1=89(LC 27), 7=89(LC 28), 9=199(LC 2)

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

NOTES (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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) Bearing at joint(s) 1, 7 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 19 lb uplift at joint 1, 25 lb uplift at joint 7 and 50 lb uplift at joint 9.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	PB03	PIGGYBACK	2	1	I5654180
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:43 2012 Page 1

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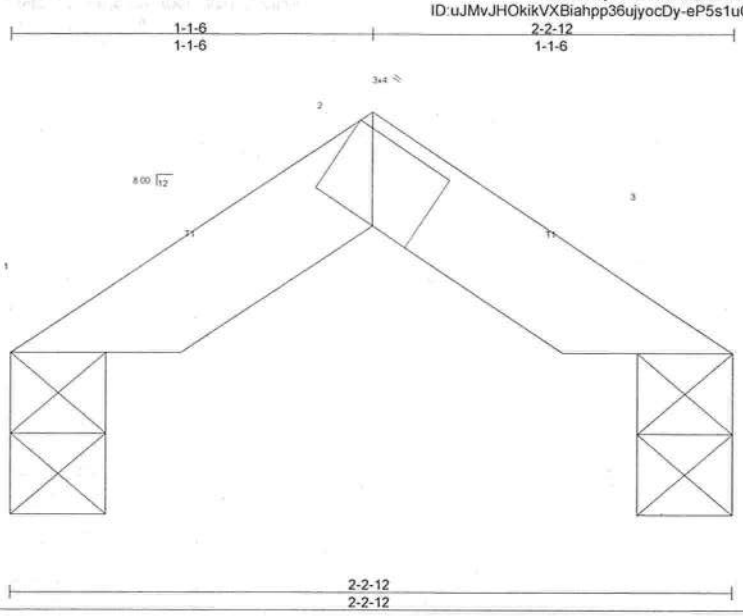


Plate Offsets (X,Y): [2:0-1-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.05	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	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-M)							Weight: 4 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-12 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=43/0-3-8 (min. 0-2-9), 3=43/0-3-8 (min. 0-2-9)
Max Horz 1=16(LC 9)
Max Uplift 1=-21(LC 12), 3=-21(LC 13)
Max Grav 1=52(LC 2), 3=52(LC 2)

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

NOTES (8-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 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) Bearing at joint(s) 1, 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	I5654181
111231	T01	PIGGYBACK ATTIC	15	1	Job Reference (optional)	

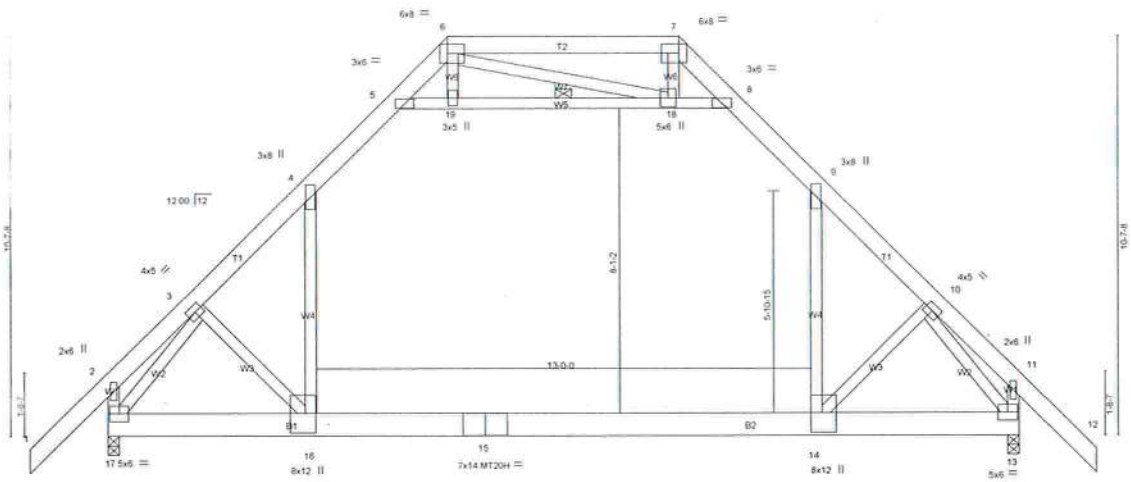
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:44 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-6bfFEEOHYsw1vtbU3P?bOxvgSnLmO7y21Fewpnz1qlX

2-0-8	2-4-5	5-3-12	8-11-1	14-11-15	18-7-4	21-6-11	23-11-0	25-11-8
2-0-8	2-4-5	2-11-7	3-7-5	6-0-14	3-7-5	2-11-7	2-4-5	2-0-8

Scale = 1:57.6



2-4-5	5-3-12	18-7-4	21-6-11	23-11-0
2-4-5	2-11-7	13-3-8	2-11-7	2-4-5

Plate Offsets (X,Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [14:0-6-4,0-3-8], [16:0-6-3,0-3-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.78	Vert(LL)	-0.36	14-16	>779	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.61	14-16	>467	180	MT20H	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.02	13	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)		Attic	-0.27	14-16	585	360	Weight: 229 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SYP No.2
BOT CHORD 2x8 SYP DSS
WEBS 2x4 SP No.3 *Except*
W5,W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-8

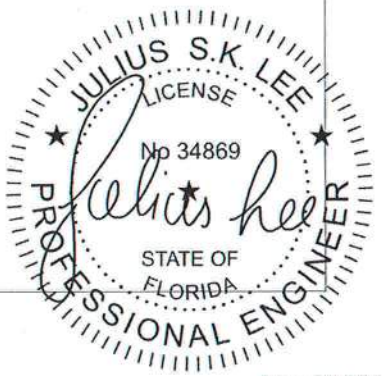
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 17=1396/0-3-8 (min. 0-1-10), 13=1396/0-3-8 (min. 0-1-10)
Max Horz 17=275(LC 9)
Max Uplift 17=-13(LC 12), 13=-13(LC 13)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1584/202, 4-5=-942/323, 5-6=-292/187, 7-8=-279/215, 8-9=-943/323, 9-10=-1581/201, 6-7=-123/426, 2-17=-388/381, 11-13=-390/381
BOT CHORD 16-17=-58/882, 15-16=0/955, 14-15=0/955, 13-14=0/880
WEBS 4-16=0/980, 9-14=0/974, 5-19=-1271/228, 18-19=-1263/230, 8-18=-1302/238, 3-17=-1592/0, 10-13=-1587/0

NOTES (14-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-19, 18-19, 8-18; Wall dead load (5.0psf) on member(s).4-16, 9-14
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 17 and 13 lb uplift at joint 13.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
13) Attic room checked for L/360 deflection.
14) 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.
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



June 28,2012

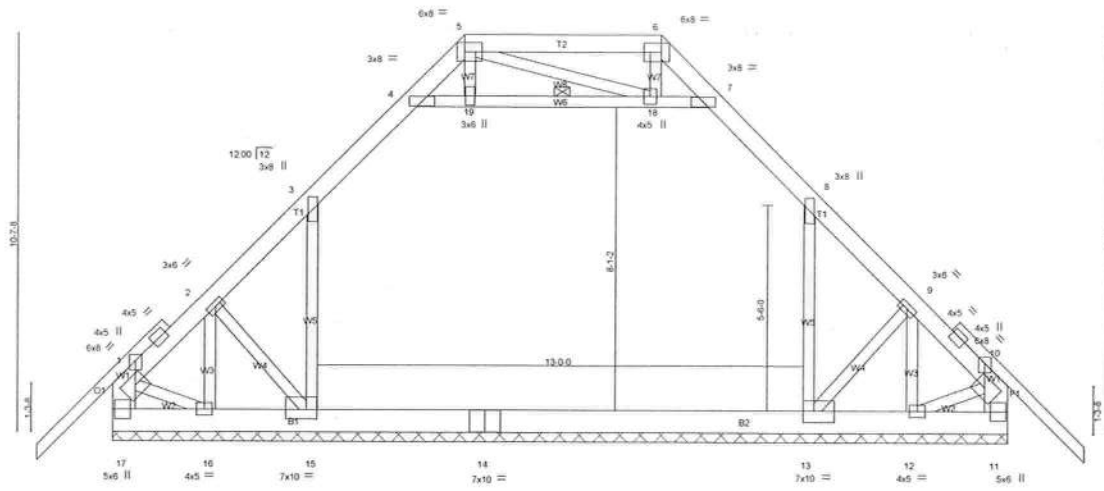
Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T01G	GABLE	1	1	I5654182
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:46 2012 Page 1
ID:uJMvJHOkikVXBiahpp36ujyocDy-2_n?fwQX4TAI8BlsAq23TM_9Ka5Qs9FLVZ70ufz1qIV

-2-0-8	2-6-12	5-3-12	9-4-0	14-7-0	18-7-4	21-4-4	23-11-0	25-11-8
2-0-8	2-6-12	2-9-0	4-0-4	5-3-0	4-0-4	2-9-0	2-6-12	2-0-8

Scale = 1:58.1



2-6-12	5-3-12	18-7-4	21-4-4	23-11-0
2-6-12	2-9-0	13-3-8	2-9-0	2-6-12

Plate Offsets (X,Y): [1:0-3-11,0-2-13], [1:0-6-0,0-0-3], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [10:0-3-9,0-2-15], [11:0-3-0,0-1-13], [13:0-3-8,0-3-12], [15:0-3-5,0-3-1], [17:0-3-3,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 232 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SYP No.2
BOT CHORD 2x8 SYP DSS
WEBS 2x4 SP No.3 *Except*
W6: 2x4 SP No.2, W1: 2x8 SYP DSS
OTHERS 2x4 SP No.2

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

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

REACTIONS All bearings 23-11-0.
(lb) - Max Horz 17=334(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 17=-388(LC 8), 15=-344(LC 12), 13=-348(LC 13), 11=-368(LC 9), 12=-304(LC 18), 16=-304(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 12, 16 except 17=971(LC 24), 15=896(LC 26), 13=899(LC 27), 11=955(LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-930/392, 2-3=-1070/454, 3-4=-1248/523, 4-5=-852/371, 6-7=-843/361, 7-8=-1249/524, 8-9=-1068/447, 9-10=-917/372, 5-6=-621/305, 1-17=-916/378, 10-11=-921/365
BOT CHORD 16-17=-327/361, 15-16=-350/646, 14-15=-326/677, 13-14=-326/677, 12-13=-270/586
WEBS 3-15=-650/395, 8-13=-653/394, 9-12=-499/199, 10-12=-230/481, 1-16=-227/498, 2-16=-497/196

NOTES (14-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-19, 18-19, 7-18; Wall dead load (5.0psf) on member(s).3-15, 8-13
8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 17, 344 lb uplift at joint 15, 348 lb uplift at joint 13, 368 lb uplift at joint 11, 304 lb uplift at joint 12 and 304 lb uplift at joint 16.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
12) Attic room checked for L/360 deflection.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
14) 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.
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
Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371731	T01G	GABLE	1	1	I5654182
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:46 2012 Page 2

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 13-17=-10, 13-15=-40, 11-13=-10, 1-3=-95(F=-51), 3-4=-105(F=-51), 4-5=-95(F=-51), 6-7=-95(F=-51), 7-8=-105(F=-51), 8-10=-95(F=-51), 5-6=-95(F=-51), 4-7=-10

Drag: 3-13=-10, 8-13=-10

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	
371231	T02	PIGGYBACK ATTIC	1	2	Job Reference (optional)	I5654183

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:48 2012 Page 1
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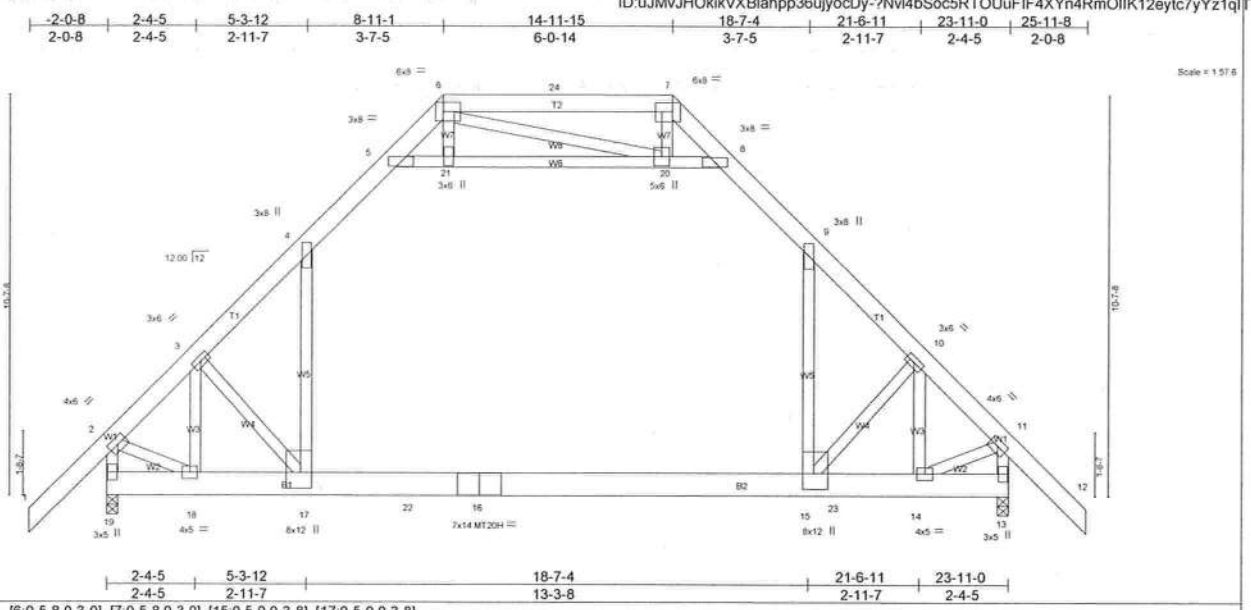

Plate Offsets (X,Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [15:0-5-0,0-3-8], [17:0-5-0,0-3-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.17	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.29	15-17	>964	180	MT20H	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(TL)	0.01	13	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)		Attic	-0.12	15-17	1296	360	Weight: 467 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SYP No.2
BOT CHORD 2x8 SYP DSS
WEBS 2x4 SP No.3 *Except*
W6,W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 19=1846/0-3-8 (min. 0-1-8), 13=1865/0-3-8 (min. 0-1-8)
Max Horz 19=275(LC 5)
Max Uplift 19=-257(LC 8), 13=-301(LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1456/222, 3-4=-2187/299, 4-5=-1408/310, 5-6=-918/316, 7-8=-922/315, 8-9=-1413/310, 9-10=-2172/297, 10-11=-1485/279, 6-24=-714/329, 7-24=-714/329, 2-19=-1677/272, 11-13=-1709/335
BOT CHORD 18-19=-242/286, 17-18=-285/1026, 17-22=-160/1340, 16-22=-160/1340, 15-16=-160/1340, 15-23=-97/1042, 14-23=-97/1042
WEBS 4-17=-76/1124, 9-15=-72/1095, 5-21=-1296/178, 20-21=-1288/181, 8-20=-1343/187, 3-18=-1195/201, 10-14=-1132/116, 3-17=-227/549, 10-15=-169/524, 2-18=-88/1129, 11-14=-132/1147

NOTES (17-18)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-21, 20-21, 8-20; Wall dead load (5.0psf) on member(s).4-17, 9-15
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 19 and 301 lb uplift at joint 13.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 832 lb down and 221 lb up at 11-11-8 on top chord, and 194 lb down and 162 lb up at 8-0-12, and 160 lb down and 158 lb up at 19-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
171231	T02	PIGGYBACK ATTIC	1	2	I5654183
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:48 2012 Page 2

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NOTES (17-18)

16) Attic room checked for L/360 deflection.

17) 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.

18) 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: 17=-70, 10=-15, 15-17=-90, 13-15=-10, 1-2=-44, 2-4=-44, 4-5=-54, 5-6=-44, 7-8=-44, 8-9=-54, 9-11=-44, 11-12=-44, 6-7=-44, 5-8=-10

Drag: 4-17=-10, 9-15=-10

Concentrated Loads (lb)

Vert: 22=-194(F) 23=-134(F) 24=-591(F)

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T03	PIGGYBACK ATTIC	12	1	I5654184
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:49 2012 Page 1

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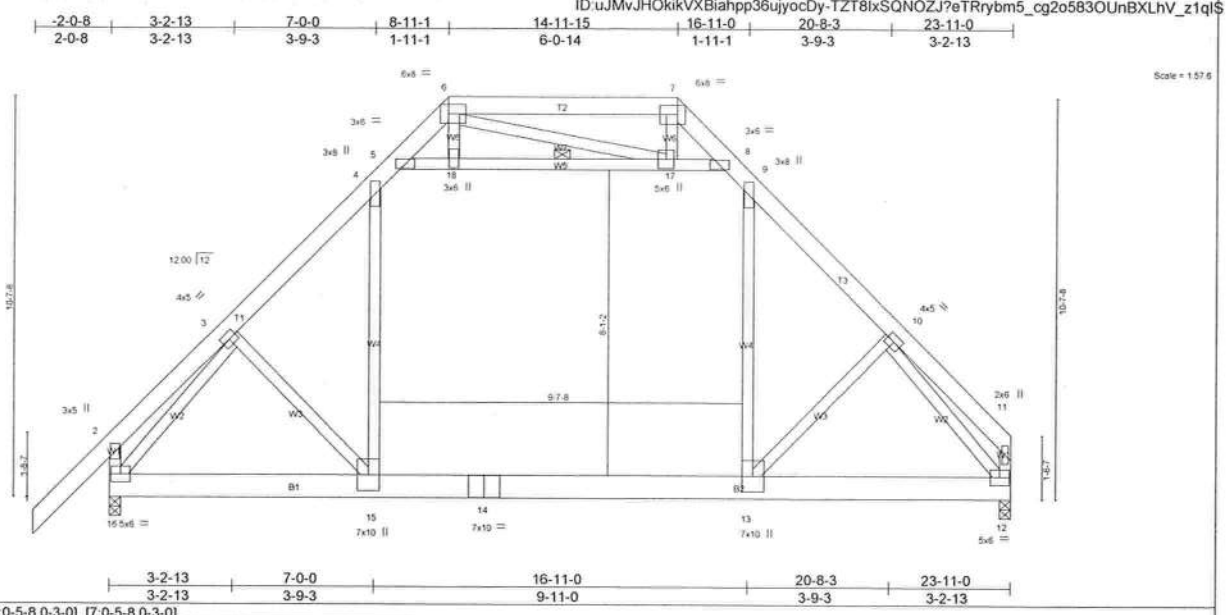

3-2-13 7-0-0 16-11-0 20-8-3 23-11-0
3-2-13 3-9-3 9-11-0 3-9-3 3-2-13

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.11	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.19	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)		Attic	-0.09	13-15	1289	360	Weight: 234 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SYP No.2
BOT CHORD 2x8 SYP DSS
WEBS 2x4 SP No.3 *Except*
W5,W1: 2x4 SP No.2

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

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

REACTIONS (lb/size) 16=1266/0-3-8 (min. 0-1-9), 12=1160/0-3-8 (min. 0-1-8)
Max Horz 16=309(LC 9)
Max Uplift 16=-27(LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-295/212, 3-4=-1301/271, 4-5=-868/319, 5-6=-372/171, 7-8=-367/164, 8-9=-868/319, 9-10=-1317/274, 10-11=-258/137, 6-7=-251/164, 2-16=-457/366
BOT CHORD 15-16=-117/784, 14-15=0/874, 13-14=0/874, 12-13=-127/805
WEBS 4-15=-12/632, 9-13=-19/631, 5-18=-761/227, 17-18=-754/229, 8-17=-785/234, 3-16=-1247/37, 10-12=-1250/159

NOTES (13-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 17-18, 8-17; Wall dead load (5.0psf) on member(s).4-15, 9-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 16.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
12) Attic room checked for L/360 deflection.
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) 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	T04	COMMON	2	1	I5654185
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:50 2012 Page 1

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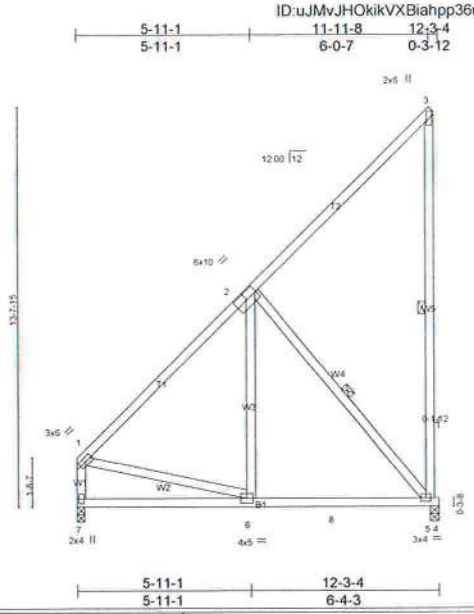


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.04	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.07	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 98 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1,W5: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.
WEBS 1 Row at midpt 2-5, 3-5

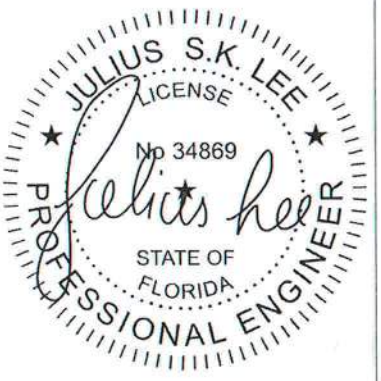
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=353/0-3-0 (min. 0-1-8), 5=375/0-3-8 (min. 0-1-8)
Max Horz 7=410(LC 12)
Max Uplift5=-375(LC 12)
Max Grav 7=379(LC 2), 5=478(LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-359/60, 1-7=-353/0, 3-5=-265/230
BOT CHORD 6-7=-629/537, 6-8=-321/388, 5-8=-321/388
WEBS 2-5=-572/474, 1-6=-174/319

NOTES (8-9)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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, with BCDL = 5.0psf.
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 at joint(s) 7.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 375 lb uplift at joint 5.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T05	MONO TRUSS	6	1	I5654186
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:50 2012 Page 1

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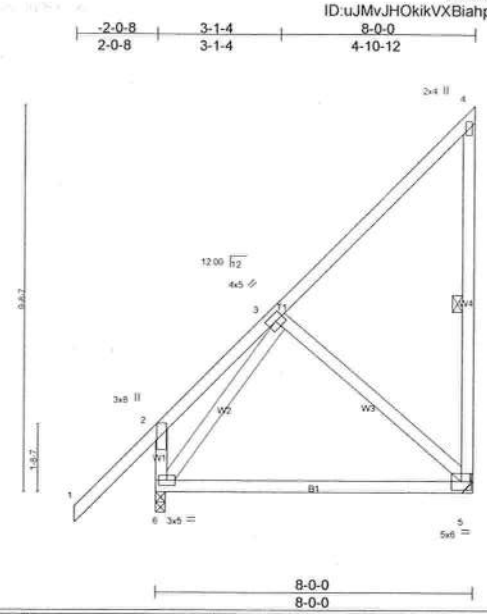


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.63	Vert(LL)	-0.13	5-6	>696	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.44	Vert(TL)	-0.23	5-6	>399	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 65 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

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.
WEBS 1 Row at midpt 4-5

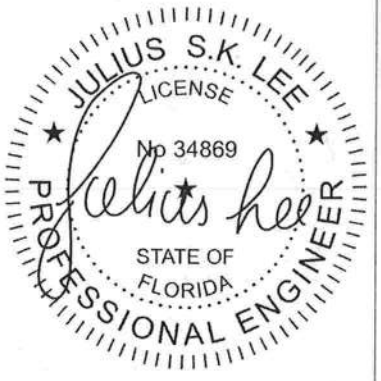
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=194/Mechanical, 6=318/0-3-0 (min. 0-1-8)
Max Horz 6=314(LC 12)
Max Uplift 5=-259(LC 12)
Max Grav 5=307(LC 21), 6=382(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-270/243
BOT CHORD 5-6=-283/280
WEBS 3-5=-364/371, 3-6=-270/169

NOTES (7-9)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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 259 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) 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
9) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T06	JACK	4	1	I5654187
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:51 2012 Page 1

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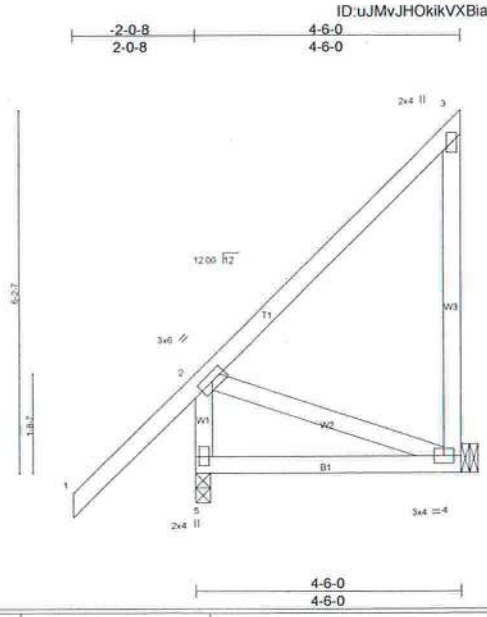


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.03	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 37 lb	FT = 20%

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

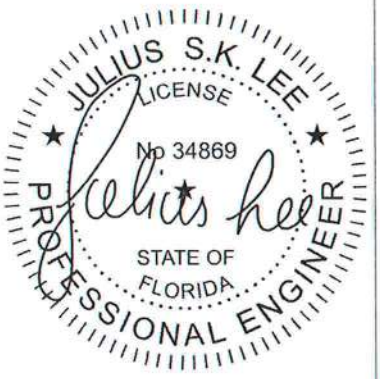
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=235/0-3-0 (min. 0-1-8), 4=89/Mechanical
Max Horz 5=193(LC 12)
Max Uplift4=-160(LC 12)
Max Grav 5=283(LC 2), 4=165(LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-262/88
BOT CHORD 4-5=-381/294
WEBS 2-4=-312/404

NOTES (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
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 at joint(s) 5.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 4.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T07	HIP	1	1	I5654188
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:53 2012 Page 1
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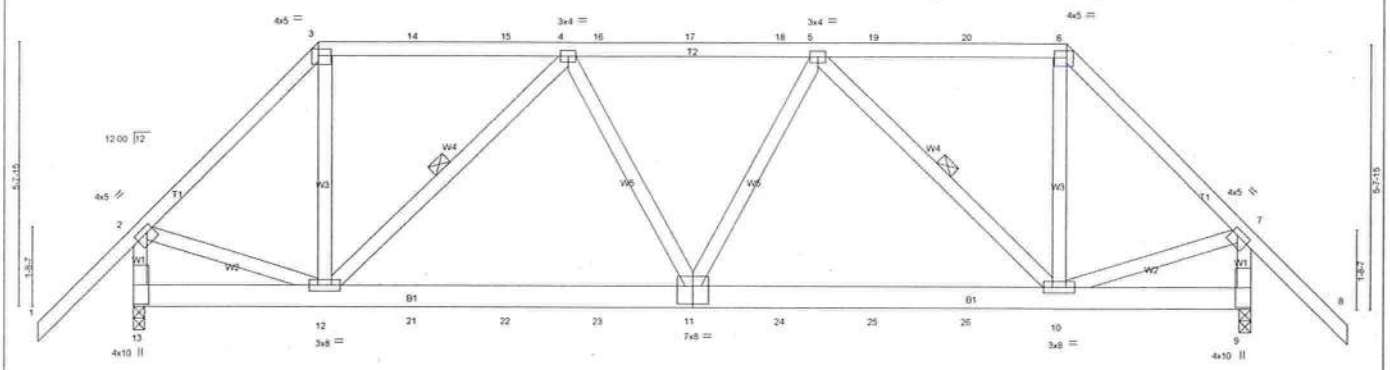
-2-0-8	3-11-8	9-3-8	14-7-8	19-11-8	23-11-0	25-11-8
2-0-8	3-11-8	5-4-0	5-4-0	5-4-0	3-11-8	2-0-8

Scale = 1:46.5



3-11-8	11-11-8	19-11-8	23-11-0
3-11-8	8-0-0	8-0-0	3-11-8

Plate Offsets (X,Y): [2:0-1-12,0-1-8], [3:0-3-4,0-1-12], [6:0-3-4,0-1-12], [7:0-1-12,0-1-8], [9:Edge,0-3-8], [11:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	0.11	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.15	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(TL)	0.03	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 173 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-12, 5-10

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

REACTIONS (lb/size) 13=1311/0-3-0 (min. 0-1-13), 9=1311/0-3-0 (min. 0-1-13)
Max Horz 13=155(LC 5)
Max Uplift 13=-1021(LC 8), 9=-1032(LC 9)
Max Grav 13=1553(LC 2), 9=1553(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1466/1056, 3-14=-991/794, 14-15=-991/794, 4-15=-991/794, 4-16=-1771/1213, 16-17=-1771/1213, 17-18=-1771/1213, 5-18=-1771/1213, 5-19=-991/802, 19-20=-991/802, 6-20=-991/802, 6-7=-1466/1053, 2-13=-1573/1047, 7-9=-1573/1057
BOT CHORD 12-21=-1142/1641, 21-22=-1142/1641, 22-23=-1142/1641, 11-23=-1142/1641, 11-24=-1119/1641, 24-25=-1119/1641, 25-26=-1119/1641, 10-26=-1119/1641
WEBS 3-12=-472/676, 4-12=-934/580, 4-11=-163/366, 5-11=-171/366, 5-10=-942/589, 6-10=-487/691, 2-12=-785/1058, 7-10=-766/1058

NOTES (11-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left and right exposed; 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 1021 lb uplift at joint 13 and 1032 lb uplift at joint 9.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 230 lb up at 3-11-8, 35 lb down and 73 lb up at 6-0-4, 35 lb down and 73 lb up at 8-0-4, 35 lb down and 73 lb up at 10-0-4, 35 lb down and 73 lb up at 11-11-8, 35 lb down and 73 lb up at 13-10-12, 35 lb down and 73 lb up at 15-10-12, and 35 lb down and 73 lb up at 17-10-12, and 80 lb down and 219 lb up at 19-11-8 on top chord, and 160 lb down and 257 lb up at 3-11-8, 100 lb down and 74 lb up at 6-0-4, 100 lb down and 74 lb up at 8-0-4, 100 lb down and 74 lb up at 10-0-4, 100 lb down and 74 lb up at 11-11-8, 100 lb down and 74 lb up at 13-10-12, 100 lb down and 74 lb up at 15-10-12, and 100 lb down and 74 lb up at 17-10-12, and 160 lb down and 257 lb up at 19-10-12 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 SPp, 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	T07	HIP	1	1	I5654188
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:54 2012 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=-44, 2-3=-44, 3-6=-44, 6-7=-44, 7-8=-44, 9-13=-10

Concentrated Loads (lb)

Vert: 3=-66(F) 6=-66(F) 11=-86(F) 12=-111(F) 10=-111(F) 14=-28(F) 15=-28(F) 16=-28(F) 17=-28(F) 18=-28(F) 19=-28(F) 20=-28(F) 21=-86(F) 22=-86(F) 23=-86(F) 24=-86(F) 25=-86(F) 26=-86(F)

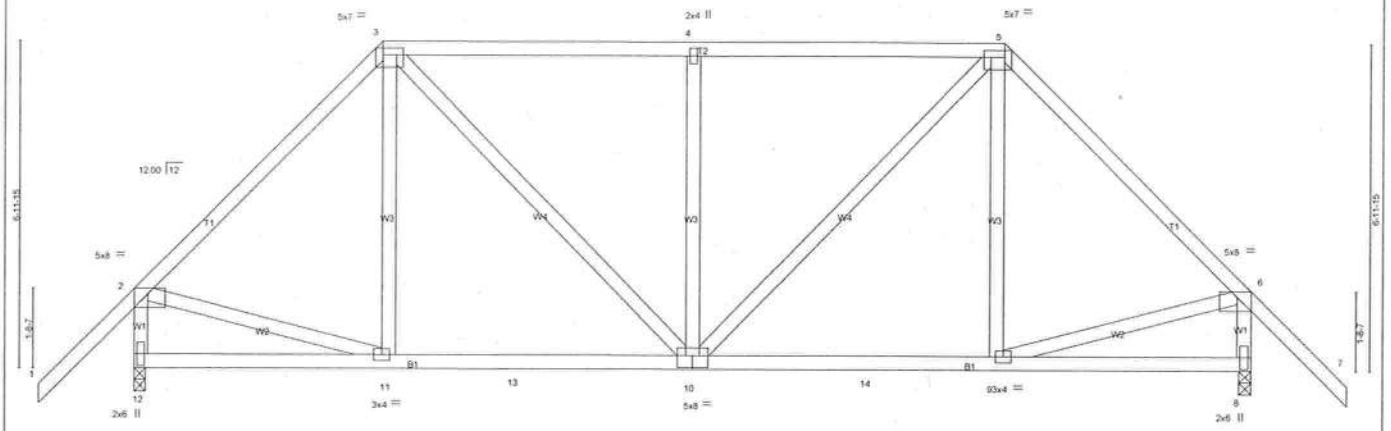
Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T08	HIP	1	1	I5654189
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:55 2012 Page 1
ID:uJMvJHOkikVXBiahpp36ujyocDy-ljqPY?XByEJTjZxbCDiAKFscIC8VTA2gZTo?iez1qIM

-2-0-8	5-3-8	11-11-8	18-7-8	23-11-0	25-11-8
2-0-8	5-3-8	6-8-0	6-8-0	5-3-8	2-0-8

Scale = 1:46.5



5-3-8	11-11-8	18-7-8	23-11-0
5-3-8	6-8-0	6-8-0	5-3-8

Plate Offsets (X,Y): [2:0-3-8,Edge], [3:0-5-4,0-1-12], [5:0-5-4,0-1-12], [6:0-3-8,Edge], [10:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.04	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.08	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 161 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-10 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) 12=817/0-3-0 (min. 0-1-8), 8=817/0-3-0 (min. 0-1-8)
Max Horz 12=-192(LC 8)
Max Uplift 12=-179(LC 12), 8=-179(LC 13)
Max Grav 12=874(LC 2), 8=874(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-846/442, 3-4=-835/538, 4-5=-835/538, 5-6=-846/442, 2-12=-990/568, 6-8=-990/568
BOT CHORD 11-12=-195/266, 11-13=-172/529, 10-13=-172/529, 10-14=-90/532, 9-14=-90/532
WEBS 3-10=-200/369, 4-10=-418/313, 5-10=-200/369, 2-11=-136/459, 6-9=-138/459

NOTES (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 179 lb uplift at joint 12 and 179 lb uplift at joint 8.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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

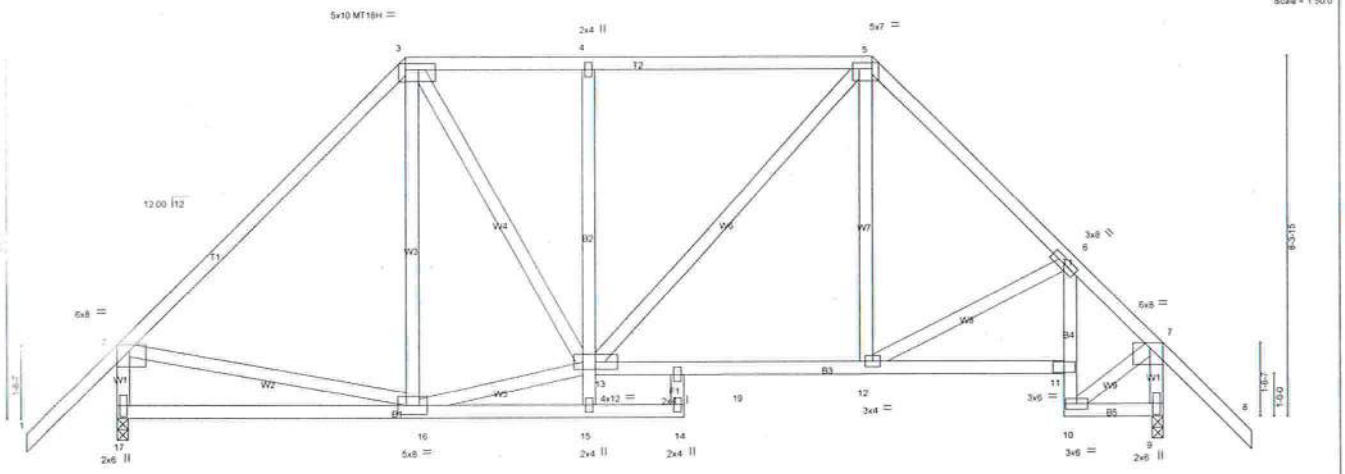
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T06	SPECIAL	1	1	I5654190
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:57 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-E5y9zgYRUrZBzt5_JekePgywM0kWx6gy1nH6nXz1qlK

2-0-8	6-7-8	10-11-4	17-3-8	21-8-0	23-11-0	25-11-8
2-0-8	6-7-8	4-3-12	6-4-4	4-4-8	2-3-0	2-0-8

Scale = 1:50.0



6-7-8	10-11-4	12-11-4	17-3-8	21-8-0	23-11-0
6-7-8	4-3-12	2-0-0	4-4-4	4-4-8	2-3-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-8-4,0-1-12], [5:0-5-4,0-1-12], [7:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.07	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.12	16-17	>999	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.10	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 185 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 13-15

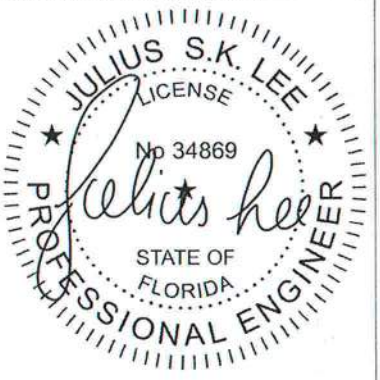
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 17=774/0-3-0 (min. 0-1-8), 9=801/0-3-0 (min. 0-1-8)
Max Horz 17=-226(LC 10)
Max Uplift 17=-180(LC 12), 9=-180(LC 13)
Max Grav 17=885(LC 2), 9=885(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-890/433, 3-4=-831/487, 4-5=-839/492, 5-6=-980/464, 6-7=-748/367, 2-17=-1013/561, 7-9=-1099/561
BOT CHORD 16-17=-264/350, 4-13=-339/231, 13-19=-89/596, 12-19=-89/596, 11-12=-97/742, 10-11=-307/109, 6-11=-311/120
WEBS 13-16=-124/516, 3-13=-121/437, 5-13=-144/256, 2-16=-128/377, 7-10=-188/665

NOTES (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) The Fabrication Tolerance at joint 2 = 8%
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 17 and 180 lb uplift at joint 9.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T10	SPECIAL	1	1	I5654191
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:04:58 2012 Page 1

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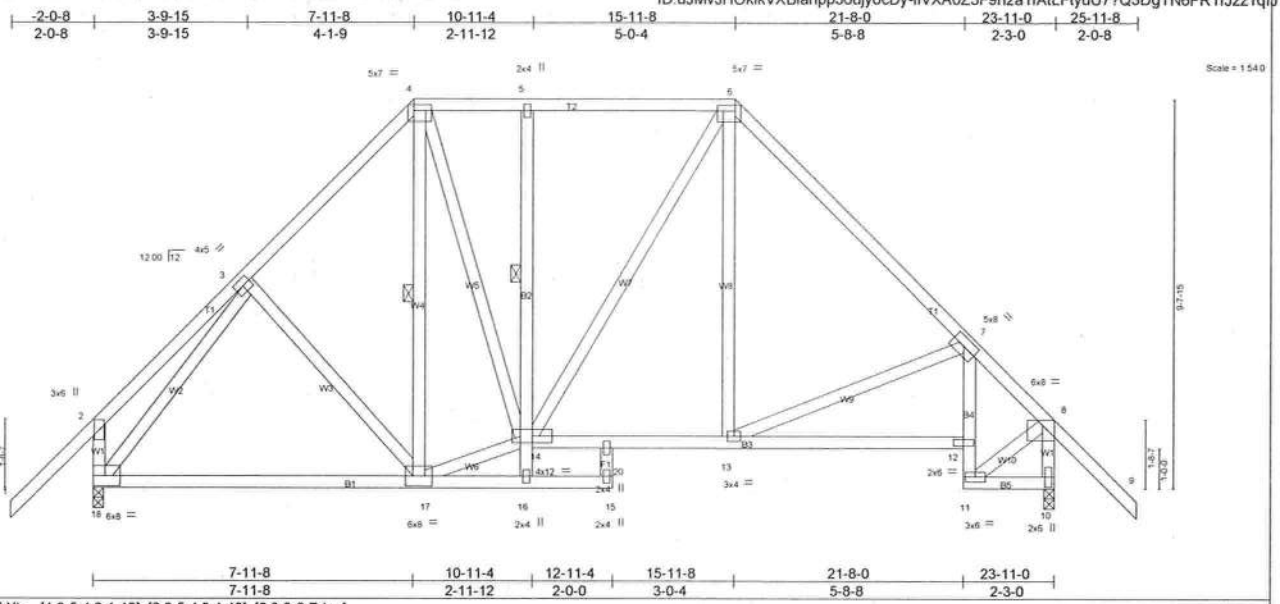

Plate Offsets (X,Y): [4:0-5-4,0-1-12], [6:0-5-4,0-1-12], [8:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.12	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.21	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.11	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 203 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 5-14
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 4-17

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

REACTIONS (lb/size) 10=793/0-3-0 (min. 0-1-8), 18=776/0-3-0 (min. 0-1-8)
Max Horz 18=260(LC 11)
Max Uplift 10=-186(LC 13), 18=-186(LC 12)
Max Grav 10=885(LC 2), 18=885(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-885/492, 4-5=-747/458, 5-6=-750/459, 6-7=-981/453, 7-8=-768/360, 2-18=-381/319, 8-10=-1130/558
BOT CHORD 17-18=-218/590, 14-20=-76/553, 13-20=-76/553, 12-13=-142/830, 11-12=-342/133, 7-12=-330/150
WEBS 14-17=-114/515, 4-14=-76/388, 7-13=-342/247, 8-11=-232/737, 3-18=-875/296

NOTES (9-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 186 lb uplift at joint 10 and 186 lb uplift at joint 18.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	I5654192
371231	T11	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:01 2012 Page 1

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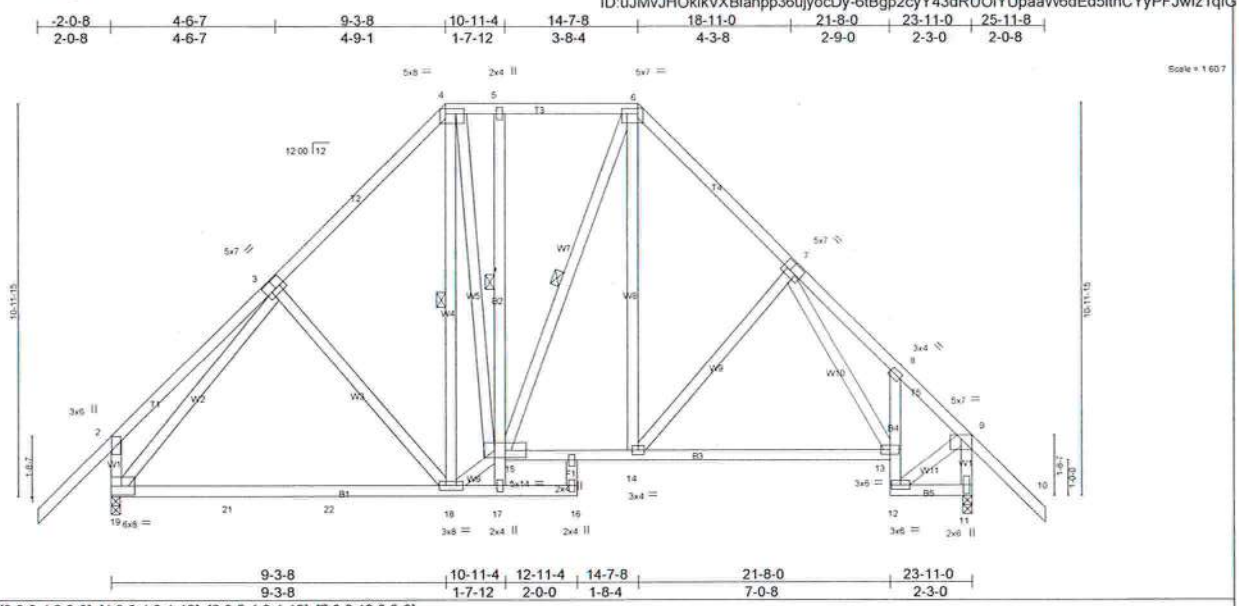

Plate Offsets (X,Y): [3:0-3-4,0-3-0], [4:0-6-4,0-1-12], [6:0-5-4,0-1-12], [7:0-2-12,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.17	18-19	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.31	18-19	>920	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.11	11	n/a	n/a		
BCDL	5.0	Code	FBC2010/TPI2007	(Matrix-M)							Weight: 223 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 5-15
6-0-0 oc bracing: 15-17
WEBS 1 Row at midpt 4-18, 6-15

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

REACTIONS (lb/size) 11=761/0-3-0 (min. 0-1-8), 19=813/0-3-0 (min. 0-1-8)
Max Horz 19=294(LC 11)
Max Uplift 11=-190(LC 13), 19=-189(LC 12)
Max Grav 11=885(LC 2), 19=885(LC 2)

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

TOP CHORD 2-3=-272/255, 3-4=-902/501, 4-5=-695/447, 5-6=-697/448, 6-7=-962/497, 7-8=-1047/447, 8-9=-794/357, 2-19=-437/352, 9-11=-1149/545
BOT CHORD 19-21=-215/613, 21-22=-215/613, 18-22=-215/613, 14-15=-67/502, 13-14=-49/713, 12-13=-285/79, 8-13=-285/99
WEBS 3-18=-268/273, 15-18=-112/551, 4-15=-19/376, 6-14=-161/342, 7-14=-333/270, 3-19=-829/255, 9-12=-131/635

NOTES (9-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 190 lb uplift at joint 11 and 189 lb uplift at joint 19.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T12	SPECIAL	2	1	I5654193
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:03 2012 Page 1
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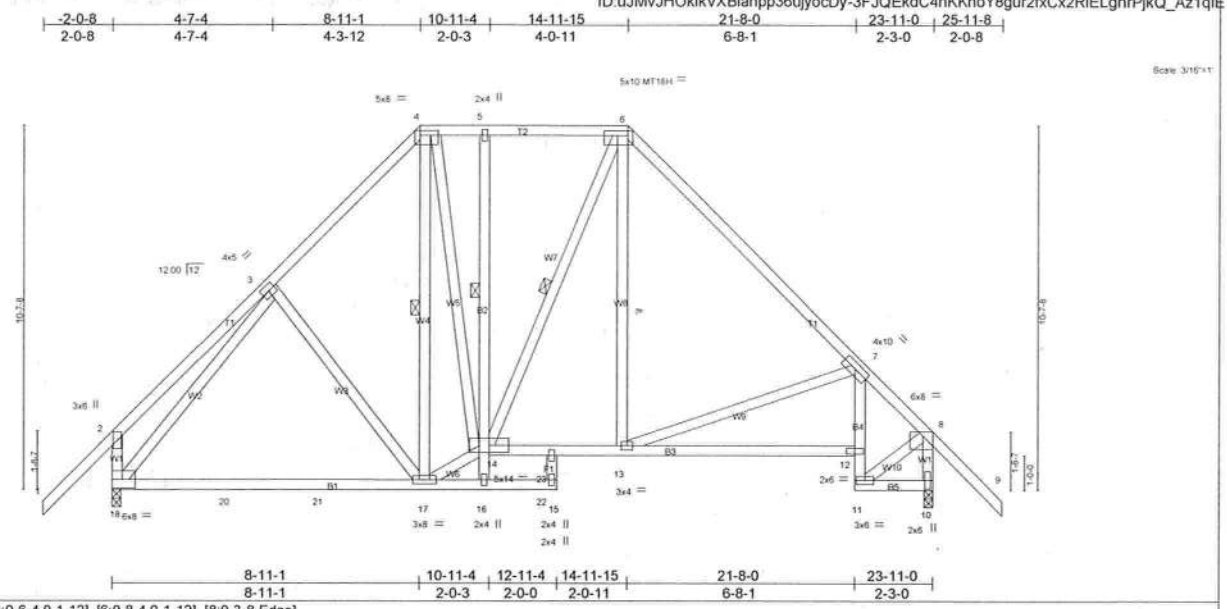

Plate Offsets (X,Y): [4:0-6-4,0-1-12], [6:0-8-4,0-1-12], [8:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.15	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.27	17-18	>999	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.11	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 213 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 5-14
6-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 4-17, 6-14

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

REACTIONS (lb/size) 10=806/0-3-0 (min. 0-1-8), 18=847/0-3-0 (min. 0-1-8)
Max Horz 18=-284(LC 8)
Max Uplift 10=-189(LC 13), 18=-189(LC 12)
Max Grav 10=885(LC 2), 18=885(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/266, 3-4=-900/507, 4-5=-705/447, 5-6=-706/447, 6-7=-980/443, 7-8=-782/355, 2-18=-447/362, 8-10=-1153/555
BOT CHORD 18-20=-212/604, 20-21=-212/604, 17-21=-212/604, 14-23=-68/525, 13-23=-68/525, 12-13=-180/900, 11-12=-372/154, 7-12=-352/173
WEBS 3-17=-257/261, 14-17=-110/528, 4-14=-37/368, 7-13=-429/321, 3-18=-810/243, 8-11=-269/796

NOTES (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 10 and 189 lb uplift at joint 18.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	T13	SPECIAL	2	1	I5654194
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:05 2012 Page 1

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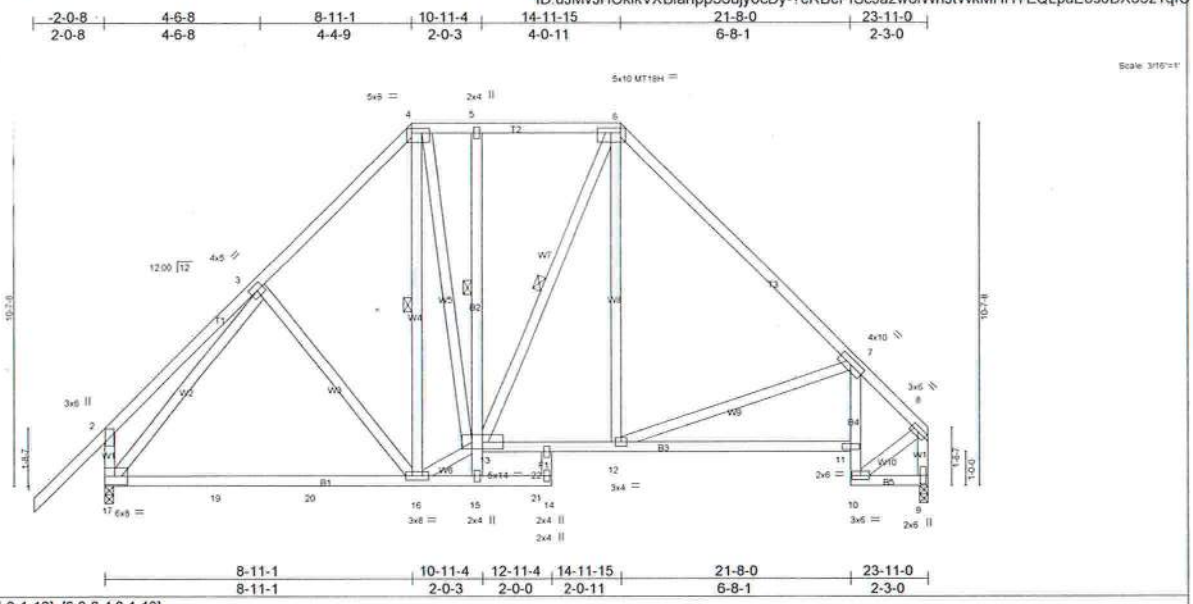

Plate Offsets (X,Y): [4:0-6-4,0-1-12], [6:0-8-4,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.15	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.27	16-17	>999	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.11	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 208 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 5-13
6-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 4-16, 6-13

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

REACTIONS (lb/size) 9=705/0-3-0 (min. 0-1-8), 17=850/0-3-0 (min. 0-1-8)
Max Horz 17=318(LC 9)
Max Uplift 9=-146(LC 13), 17=-189(LC 12)
Max Grav 9=761(LC 2), 17=890(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-273/258, 3-4=-907/510, 4-5=-703/466, 5-6=-704/467, 6-7=-979/476, 7-8=-811/356, 2-17=-439/356, 8-9=-1021/439
BOT CHORD 17-19=-247/555, 19-20=-247/555, 16-20=-247/555, 13-22=-106/471, 12-22=-106/471, 11-12=-424/854, 10-11=-351/183, 7-11=-330/207
WEBS 3-16=-254/259, 13-16=-146/527, 4-13=-91/376, 7-12=-410/359, 3-17=-828/253, 8-10=-360/751

NOTES (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 9 and 189 lb uplift at joint 17.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
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) 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T15	HIP	1	1	I5654195
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:06 2012 Page 1
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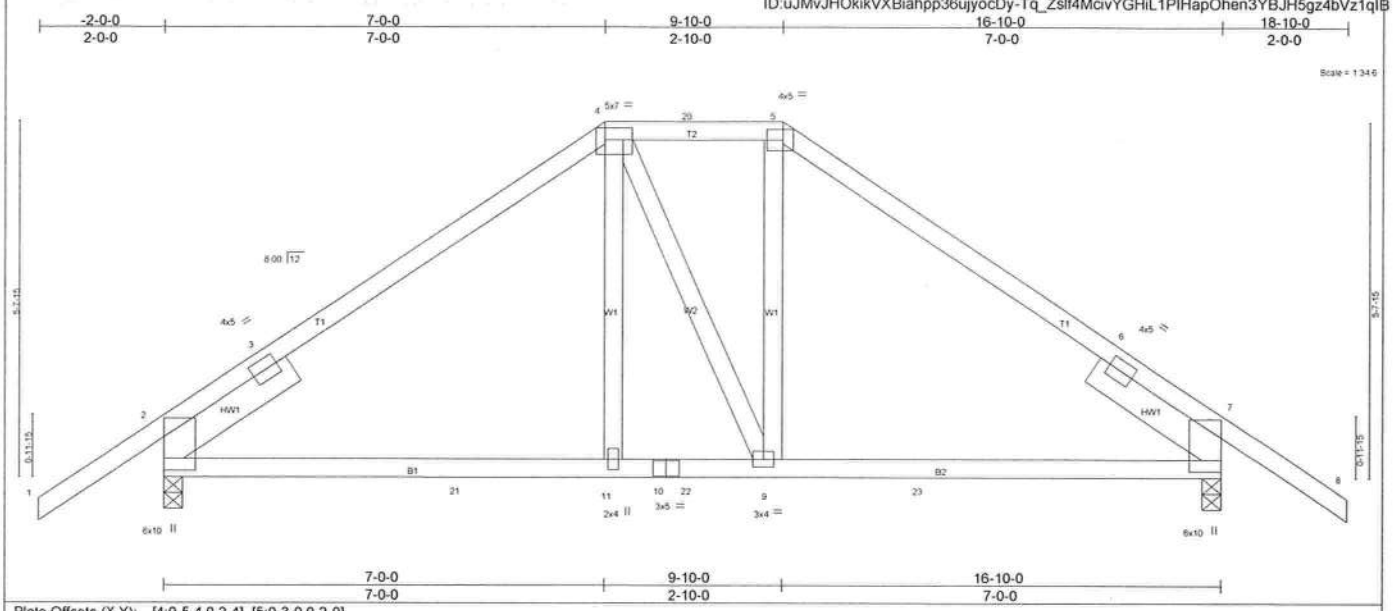

Plate Offsets (X,Y): [4:0-5-4,0-2-4], [5:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.99	Vert(LL)	0.18	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.16	9-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(TL)	-0.11	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 97 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-2-6 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=1023/0-3-8 (min. 0-1-8), 7=1023/0-3-8 (min. 0-1-8)
Max Horz 2=122(LC 5)
Max Uplift2=-778(LC 8), 7=-778(LC 9)
Max Grav 2=1129(LC 2), 7=1129(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/384, 3-4=-1328/1098, 4-20=-1029/959, 5-20=-1029/959, 5-6=-1329/1099, 6-7=-263/383
BOT CHORD 2-21=-827/1018, 11-21=-827/1018, 10-11=-837/1028, 10-22=-837/1028, 9-22=-837/1028, 9-23=-801/1019, 7-23=-801/1019
WEBS 4-11=-355/448, 5-9=-385/451

NOTES (11-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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 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 778 lb uplift at joint 2 and 778 lb uplift at joint 7.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 131 lb down and 250 lb up at 7-0-0, and 35 lb down and 73 lb up at 8-5-0, and 131 lb down and 250 lb up at 9-10-0 on top chord, and 292 lb down and 351 lb up at 7-0-0, and 100 lb down and 74 lb up at 8-5-0, and 292 lb down and 351 lb up at 9-9-4 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 SPp, 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: 1-4=-44, 4-5=-44, 5-8=-44, 12-21=-10, 11-21=-40, 9-11=-10, 9-23=-40, 16-23=-10

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T15	HIP	1	1	I5654195
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:06 2012 Page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-107(B) 5=-107(B) 11=-244(B) 9=-244(B) 20=-28(B) 22=-86(B)

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	I5654196
371231	T16	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:07 2012 Page 1

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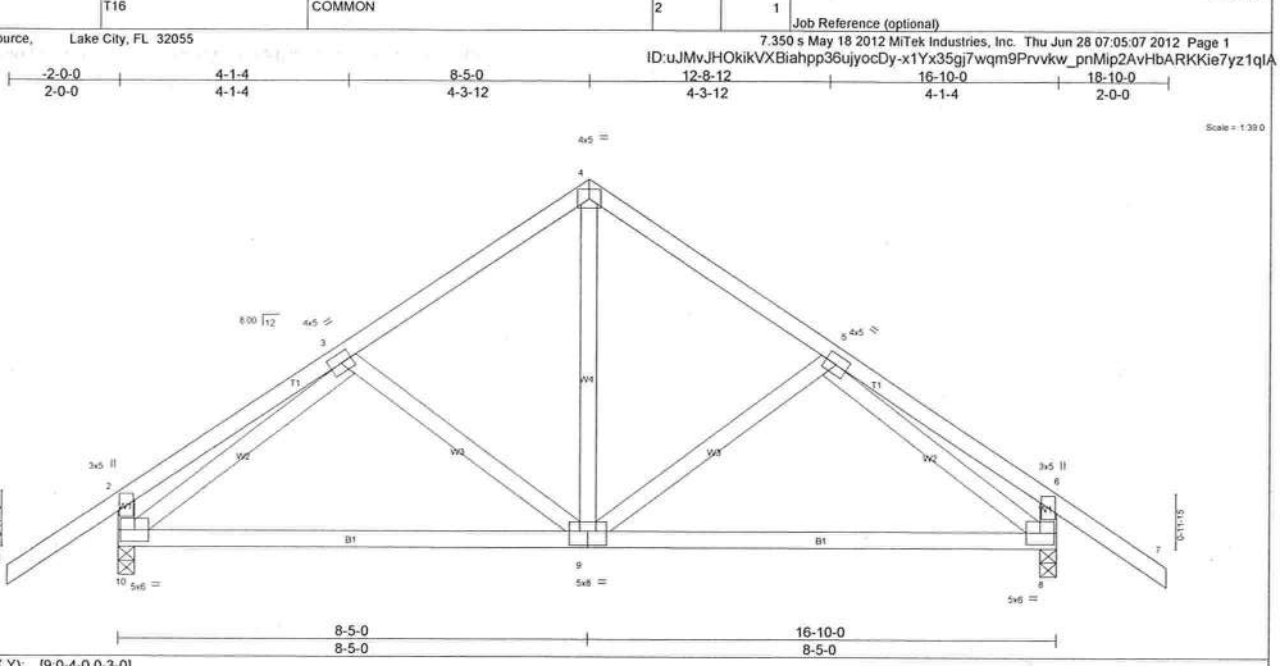


Plate Offsets (X,Y): [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.17	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 103 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

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) 10=541/0-3-8 (min. 0-1-8), 8=541/0-3-8 (min. 0-1-8)
Max Horz 10=-172(LC 10)
Max Uplift 10=-169(LC 12), 8=-169(LC 13)
Max Grav 10=645(LC 2), 8=645(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-671/303, 4-5=-671/303, 2-10=-341/216, 6-8=-341/216
BOT CHORD 9-10=-121/620, 8-9=-113/638
WEBS 4-9=-161/372, 3-10=-704/333, 5-8=-705/332

NOTES (8-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 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 169 lb uplift at joint 10 and 169 lb uplift at joint 8.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

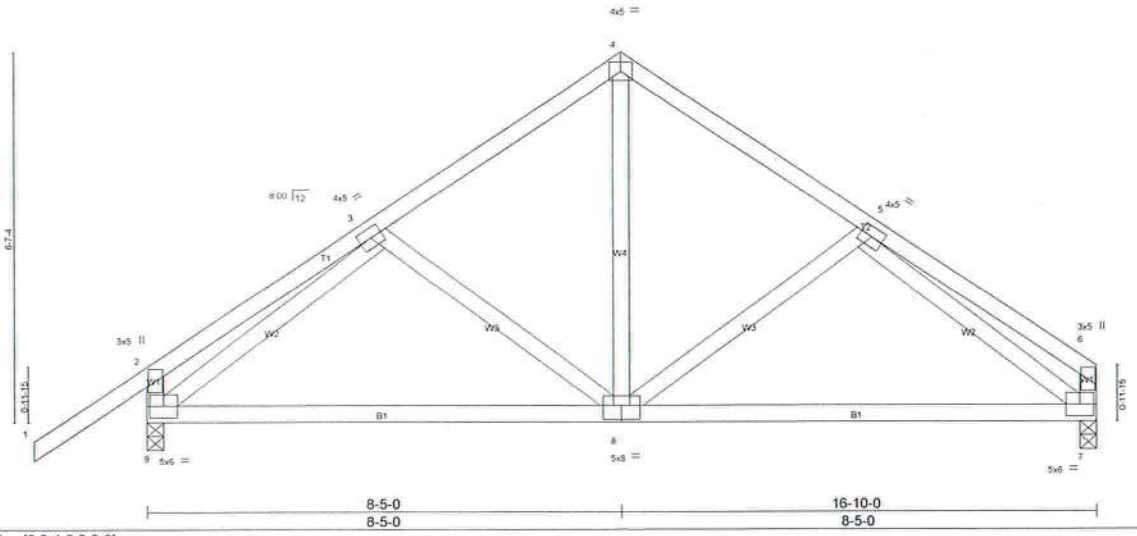
Julius Lee PE,
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T16A	COMMON	3	1	I5654197
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:09 2012 Page 1
ID:uJMvJHOkikVXBiahpp36ujyocDy-tPgiUnizfX4UPj?H09ySvCR2JssLIVejneBkCqz1ql8

-2-0-0	4-1-4	8-5-0	12-8-12	16-10-0
2-0-0	4-1-4	4-3-12	4-3-12	4-1-4

Scale = 1:38.7



8-5-0	16-10-0
8-5-0	8-5-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.17	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code	FBC2010/TPI2007	(Matrix-M)							Weight: 100 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

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) 9=547/0-3-8 (min. 0-1-8), 7=441/0-3-8 (min. 0-1-8)
Max Horz 9=193(LC 9)
Max Uplift 9=-170(LC 12), 7=-126(LC 13)
Max Grav 9=653(LC 2), 7=522(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-686/316, 4-5=-687/318, 2-9=-341/216
BOT CHORD 8-9=-234/590, 7-8=-245/618
WEBS 4-8=-181/393, 5-8=-261/211, 3-9=-709/338, 5-7=-652/276

NOTES (8-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 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 170 lb uplift at joint 9 and 126 lb uplift at joint 7.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T17	COMMON	1	2	I5654198

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:11 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-qooSvTjDB9KCe19g8a_w_dXKLfUiDIB0FygrHjz1ql6

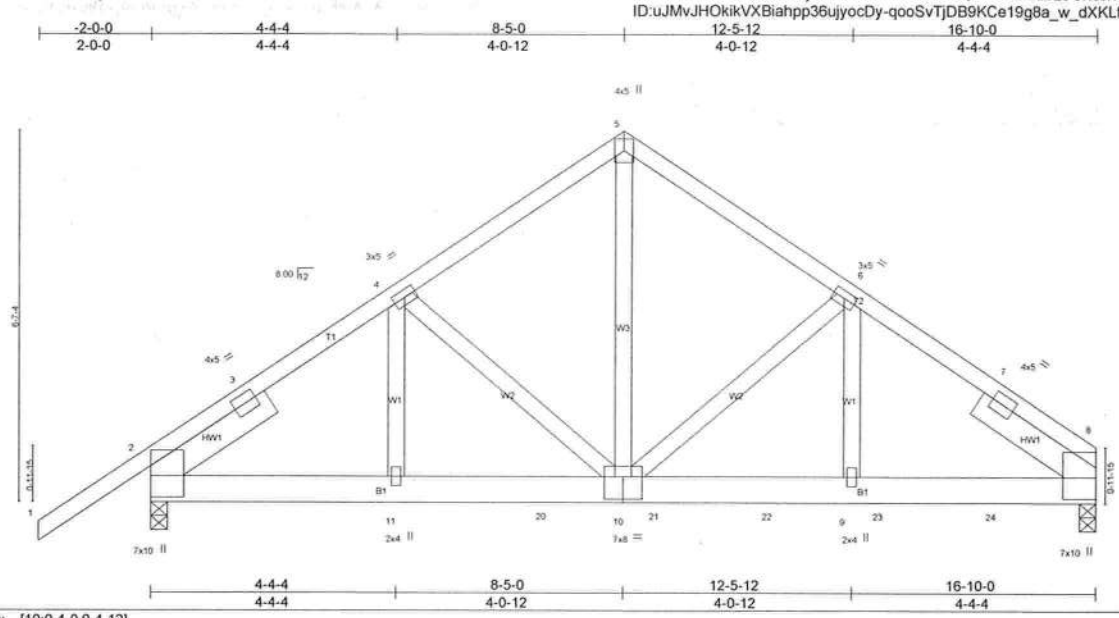


Plate Offsets (X,Y): [10:0-4-0,0-4-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.09	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.17	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(TL)	0.03	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 236 lb	FT = 20%

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

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

REACTIONS (lb/size) 8=3889/0-3-8 (min. 0-2-9), 2=2642/0-3-8 (min. 0-1-13)
Max Horz 2=166(LC 7)
Max Uplift 8=-1326(LC 9), 2=-1171(LC 8)
Max Grav 8=4291(LC 2), 2=3021(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1964/735, 3-4=-4162/1699, 4-5=-4013/1567, 5-6=-4017/1569, 6-7=-5267/1689, 7-8=-3268/970
BOT CHORD 2-11=-1377/3336, 11-20=-1377/3336, 10-20=-1377/3336, 10-21=-1321/4277, 21-22=-1321/4277, 9-22=-1321/4277, 9-23=-1321/4277, 23-24=-1321/4277, 8-24=-1321/4277
WEBS 5-10=-1612/4095, 6-10=-1277/226, 6-9=-177/1501

NOTES (11-13)
1) 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 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1326 lb uplift at joint 8 and 1171 lb uplift at joint 2.
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) 2120 lb down and 1295 lb up at 7-0-12, 1009 lb down and 218 lb up at 9-0-12, 999 lb down and 225 lb up at 11-0-12, and 999 lb down and 236 lb up at 13-0-12, and 999 lb down and 245 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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 SPp, 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

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T17	COMMON	1	2	I5654198

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:11 2012 Page 2

ID:uJMvJHOkikVXBiahpp36ujyocDy-qooSvTjDB9KCe19g8a_w_dXKLfUiDIB0FygrHjz1ql6

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-44, 5-8=-44, 12-16=-10
   Concentrated Loads (lb)
   Vert: 20=-1792(F) 21=-937(F) 22=-913(F) 23=-924(F) 24=-969(F)

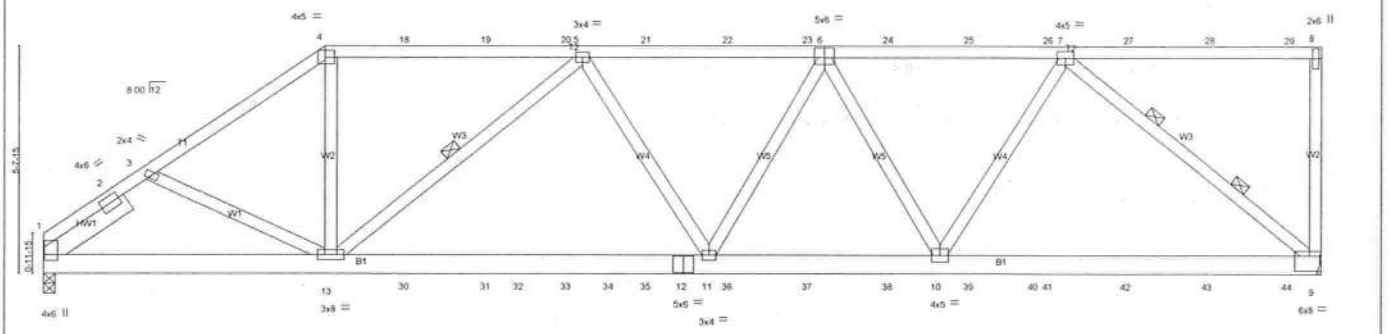
Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T18	MONO HIP	1	1	I5654199
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:12 2012 Page 1
ID:uJMvJHOkikVXBiahpp36ujyocDy-I_Mq6pkrySS3GBksiHV9Wr3Tm3pWyklATcQPp9z1qI5

2-8-4	7-0-0	13-4-12	19-5-1	25-5-4	31-10-0
2-8-4	4-3-12	6-4-12	6-0-5	6-0-3	6-4-12

Scale = 1:54.1



7-0-0	16-6-8	22-3-8	31-10-0
7-0-0	9-6-8	5-9-0	9-6-8

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	0.30	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.43	11-13	>884	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.09	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 209 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SYP M 31 *Except*
T1: 2x4 SP No.2
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SYP No.2 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-7 oc bracing.
WEBS 1 Row at midpt 5-13
2 Rows at 1/3 pts 7-9

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

REACTIONS (lb/size) 1=1684/0-3-8 (min. 0-2-4), 9=1887/Mechanical
Max Horz 1=163(LC 8)
Max Uplift 1=-1157(LC 8), 9=-1285(LC 5)
Max Grav 1=1929(LC 2), 9=2130(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2726/1716, 3-4=-2837/1836, 4-18=-2356/1582, 18-19=-2356/1582, 19-20=-2356/1582, 5-20=-2356/1582, 5-21=-3218/1994, 21-22=-3218/1994, 22-23=-3218/1994, 6-23=-3218/1994, 6-24=-2695/1634, 24-25=-2695/1634, 25-26=-2695/1634, 7-26=-2695/1634
BOT CHORD 1-13=-1420/2064, 13-30=-1979/3118, 30-31=-1979/3118, 31-32=-1979/3118, 32-33=-1979/3118, 33-34=-1979/3118, 34-35=-1979/3118, 12-35=-1979/3118, 11-12=-1979/3118, 11-36=-1886/3066, 36-37=-1886/3066, 37-38=-1886/3066, 10-38=-1886/3066, 10-39=-1218/1994, 39-40=-1218/1994, 40-41=-1218/1994, 41-42=-1218/1994, 42-43=-1218/1994, 43-44=-1218/1994, 9-44=-1218/1994
WEBS 3-13=-410/408, 4-13=-669/1088, 5-13=-1051/573, 5-11=-70/312, 6-11=-245/326, 6-10=-778/526, 7-10=-815/1371, 7-9=-2570/1571

NOTES (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left exposed; 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 BCDL = 5.0psf.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide metal plate or equivalent at bearing(s) 9 to support reaction shown.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1157 lb uplift at joint 1 and 1285 lb uplift at joint 9.
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) 131 lb down and 250 lb up at 7-0-0, 35 lb down and 73 lb up at 9-0-12, 35 lb down and 73 lb up at 11-0-12, 35 lb down and 73 lb up at 13-0-12, 35 lb down and 73 lb up at 15-0-12, 35 lb down and 73 lb up at 17-0-12, 35 lb down and 73 lb up at 19-0-12, 35 lb down and 73 lb up at 21-0-12, 35 lb down and 73 lb up at 23-0-12, 35 lb down and 73 lb up at 25-0-12, 35 lb down and 73 lb up at 27-0-12, and 35 lb down and 73 lb up at 29-0-12, and 35 lb down and 73 lb up at 31-0-12 on top chord, and 292 lb down and 351 lb up at 7-0-0, 100 lb down and 74 lb up at 9-0-12, 100 lb down and 74 lb up at 11-0-12, 100 lb down and 74 lb up at 13-0-12, 100 lb down and 74 lb up at 15-0-12, 100 lb down and 74 lb up at 17-0-12, 100 lb down and 74 lb up at 19-0-12, 100 lb down and 74 lb up at 21-0-12, 100 lb down and 74 lb up at 23-0-12, 100 lb down and 74 lb up at 25-0-12, 100 lb down and 74 lb up at 27-0-12, and 100 lb down and 74 lb up at 29-0-12, and 100 lb down and 74 lb up at 31-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES. I5654199
371231	T18	MONO HIP	1	1	Job Reference (optional)

ID:uJMvJHOkikVXBiahpp36ujyocDy-I_Mq6pkrySS3GBksiHV9Wr3Tm3pWykIATcQPp9z1ql5

NOTES (12-15)

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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 SPp, 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
15) 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: 1-4=-44, 4-8=-44, 14-32=-10, 32-34=-40, 34-40=-10, 40-42=-40, 9-42=-10

Concentrated Loads (lb)

Vert: 4=-107(B) 15=-244(B) 18=-28(B) 19=-28(B) 20=-28(B) 21=-28(B) 22=-28(B) 23=-28(B) 24=-28(B) 25=-28(B) 26=-28(B) 27=-28(B) 28=-28(B) 29=-28(B) 30=-86(B) 31=-86(B) 33=-86(B) 35=-86(B) 36=-86(B) 37=-86(B) 38=-86(B) 39=-86(B) 41=-86(B) 42=-86(B) 43=-86(B) 44=-86(B)

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

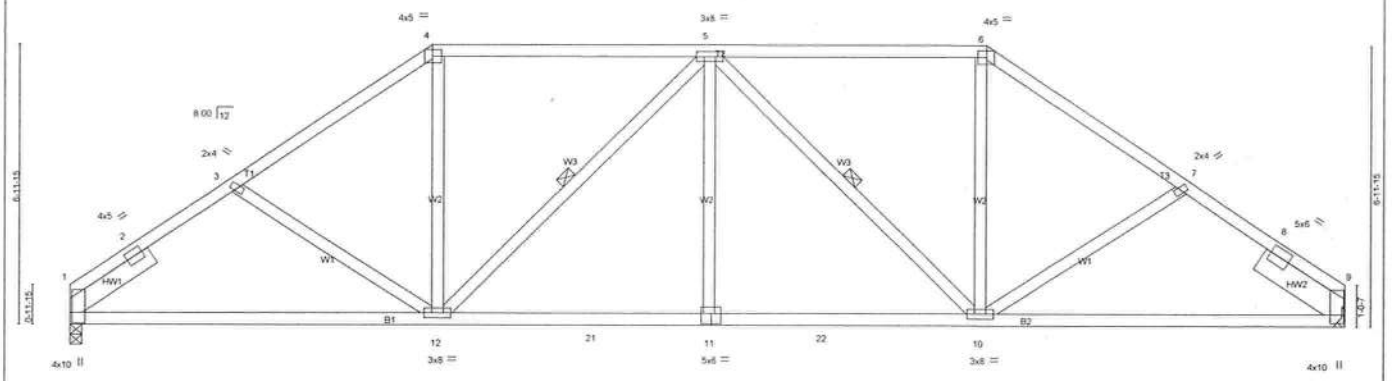
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T19	HIP	1	1	I5654200
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:14 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-ENTbXUm6U4imVUuFpiYdcG9sStYpQp6TxwvVt2z1ql3

4-1-12	9-0-0	15-11-6	22-10-12	27-9-0	31-10-0
4-1-12	4-10-4	6-11-6	6-11-6	4-10-5	4-1-0

Scale = 1:54.3



9-0-0	15-11-6	22-10-12	31-10-0
9-0-0	6-11-6	6-11-6	8-11-4

Plate Offsets (X,Y): [1:0-3-4,0-0-8], [4:0-2-12,0-2-0], [6:0-2-12,0-2-0], [9:0-7-4,0-0-4], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	0.12	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.20	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.08	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 187 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SYP No.2 2-6-0, Right 2x8 SYP DSS 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10

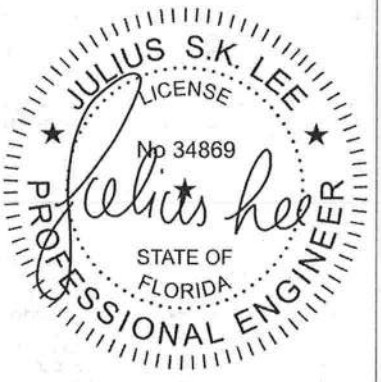
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=946/0-3-8 (min. 0-1-8), 9=947/Mechanical
Max Horz 1=154(LC 9)
Max Uplift 1=-209(LC 12), 9=-208(LC 13)
Max Grav 1=1019(LC 2), 9=1019(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-343/161, 2-3=-1606/793, 3-4=-1470/751, 4-5=-1234/700, 5-6=-1229/698, 6-7=-1464/749, 7-8=-1593/787, 8-9=-409/43
BOT CHORD 1-12=-554/1223, 12-21=-570/1309, 11-21=-570/1309, 11-22=-570/1310, 10-22=-570/1310, 9-10=-544/1205
WEBS 4-12=-181/420, 5-12=-458/213, 5-11=0/272, 5-10=-466/215, 6-10=-179/416

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 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 209 lb uplift at joint 1 and 208 lb uplift at joint 9.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES. I5654201
	T20	SPECIAL	1	1	Job Reference (optional)

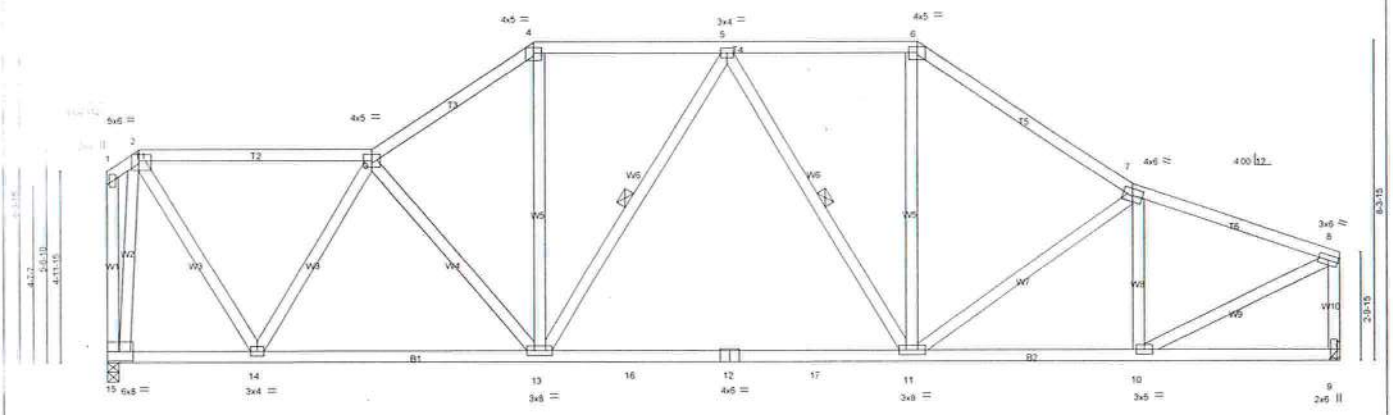
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:15 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-iZ1zlqmkFNqd7eTRNQ3s8Th0lGr498PcAae3QUz1ql2

0-10-0	6-10-0	11-0-0	15-11-6	20-10-12	26-5-8	31-10-0
0-10-0	6-0-0	4-2-0	4-11-6	4-11-6	5-6-12	5-4-8

Scale = 1:56.4



3-10-1	11-0-0	20-10-12	26-5-8	31-10-0
3-10-1	7-1-15	9-10-12	5-6-12	5-4-8

Plate Offsets (X,Y): [2:0-3-12,0-2-0], [4:0-2-8,0-1-13], [6:0-2-8,0-1-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.33	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.51	11-13	>748	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 218 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1,W10: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing.
WEBS 1 Row at midpt 5-13, 5-11

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

REACTIONS (lb/size) 15=923/0-3-8 (min. 0-1-8), 9=923/Mechanical
Max Horz 15=-139(LC 8)
Max Uplift 15=-230(LC 12), 9=-215(LC 13)
Max Grav 15=1009(LC 2), 9=1009(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-685/350, 3-4=-1325/694, 4-5=-1106/637, 5-6=-1121/656, 6-7=-1343/695, 7-8=-1273/623, 8-9=-1106/571
BOT CHORD 13-14=-472/1116, 13-16=-442/1064, 12-16=-442/1064, 12-17=-442/1064, 11-17=-442/1064, 10-11=-549/1182
WEBS 2-14=-485/1031, 3-14=-975/528, 4-13=-206/429, 5-13=-261/148, 5-11=-267/140, 6-11=-171/368, 7-11=-253/208, 7-10=-532/296, 2-15=-1168/636, 8-10=-579/1267

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 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 230 lb uplift at joint 15 and 215 lb uplift at joint 9.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T21	SPECIAL	1	1	I5654202
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:17 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-ey9jAWo_n?4LMycqUr5KDunO_4c1d0Fvdu79UMz1ql0

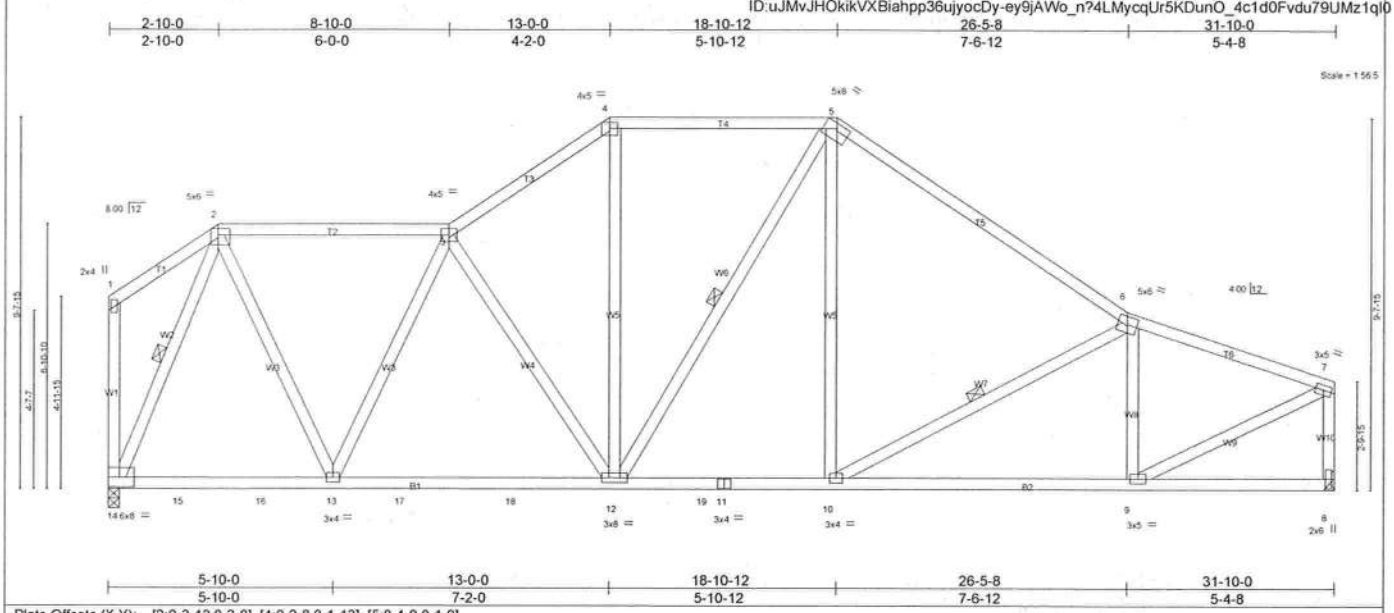


Plate Offsets (X,Y): [2:0-3-12,0-2-0], [4:0-2-8,0-1-13], [5:0-4-0,0-1-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.10	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.21	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 222 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T5: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W1,W10: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-7 oc bracing.
WEBS 1 Row at midpt 5-12, 6-10, 2-14

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

REACTIONS (lb/size) 14=1016/0-3-8 (min. 0-1-8), 8=934/Mechanical
Max Horz 14=-173(LC 8)
Max Uplift 14=-241(LC 12), 8=-226(LC 13)
Max Grav 14=1016(LC 1), 8=1009(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-845/453, 3-4=-1280/690, 4-5=-1068/633, 5-6=-1311/653, 6-7=-1329/620, 7-8=-1142/561
BOT CHORD 14-15=-97/397, 15-16=-97/397, 13-16=-97/397, 13-17=-427/1079, 17-18=-427/1079, 12-18=-427/1079, 12-19=-316/919, 11-19=-316/919, 10-11=-316/919, 9-10=-550/1240
WEBS 2-13=-377/862, 3-13=-785/427, 3-12=-346/238, 4-12=-188/391, 5-10=-93/293, 6-10=-372/270, 6-9=-541/312, 2-14=-1134/554, 7-9=-582/1341

NOTES (9-11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 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 241 lb uplift at joint 14 and 226 lb uplift at joint 8.
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) 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 28,2012

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

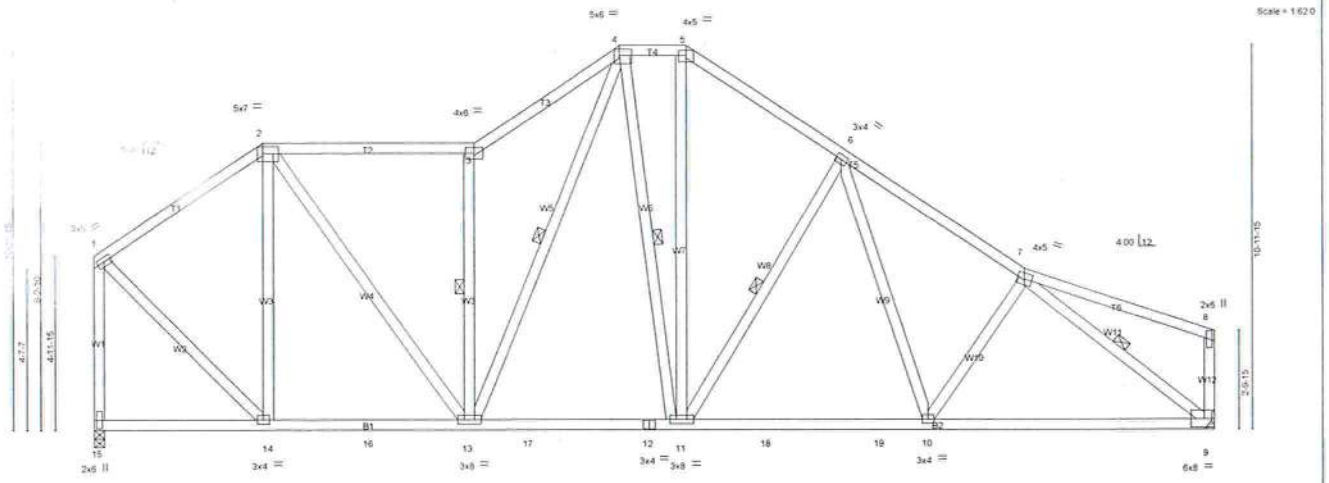
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	I5654203
371251	T22	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:19 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-bKHTaCqEJcL3cFmCcG7oJJskNuGd5zOC4CcGZFz1qI_

4-10-0	10-10-0	15-0-0	16-10-12	21-3-3	26-5-8	31-10-0
4-10-0	6-0-0	4-2-0	1-10-12	4-4-7	5-2-5	5-4-8

Scale = 1:62.0



4-10-0	10-10-0	16-10-12	23-8-8	31-10-0
4-10-0	6-0-0	6-0-12	6-9-13	8-1-8

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.11	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.21	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 247 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1,W12: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS 1 Row at midpt 3-13, 4-13, 4-11, 6-11, 7-9

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

REACTIONS (lb/size) 15=1013/0-3-8 (min. 0-1-8), 9=979/Mechanical
Max Horz 15=-207(LC 8)
Max Uplift 15=-250(LC 12), 9=-235(LC 13)
Max Grav 15=1013(LC 1), 9=1009(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-844/415, 2-3=-1152/619, 3-4=-1512/850, 4-5=-1035/620, 5-6=-1261/683, 6-7=-1524/733, 1-15=-1191/563
BOT CHORD 14-16=-144/565, 13-16=-144/565, 13-17=-225/816, 12-17=-225/816, 11-12=-225/816, 11-18=-395/1087, 18-19=-395/1087, 10-19=-395/1087, 9-10=-536/1237
WEBS 2-14=-531/287, 2-13=-354/768, 3-13=-1127/674, 4-13=-378/604, 5-11=-272/494, 6-11=-539/347, 1-14=-361/838, 7-9=-1550/669

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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 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 250 lb uplift at joint 15 and 235 lb uplift at joint 9.
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) 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T23	SPECIAL	1	1	I5654204

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:21 2012 Page 1

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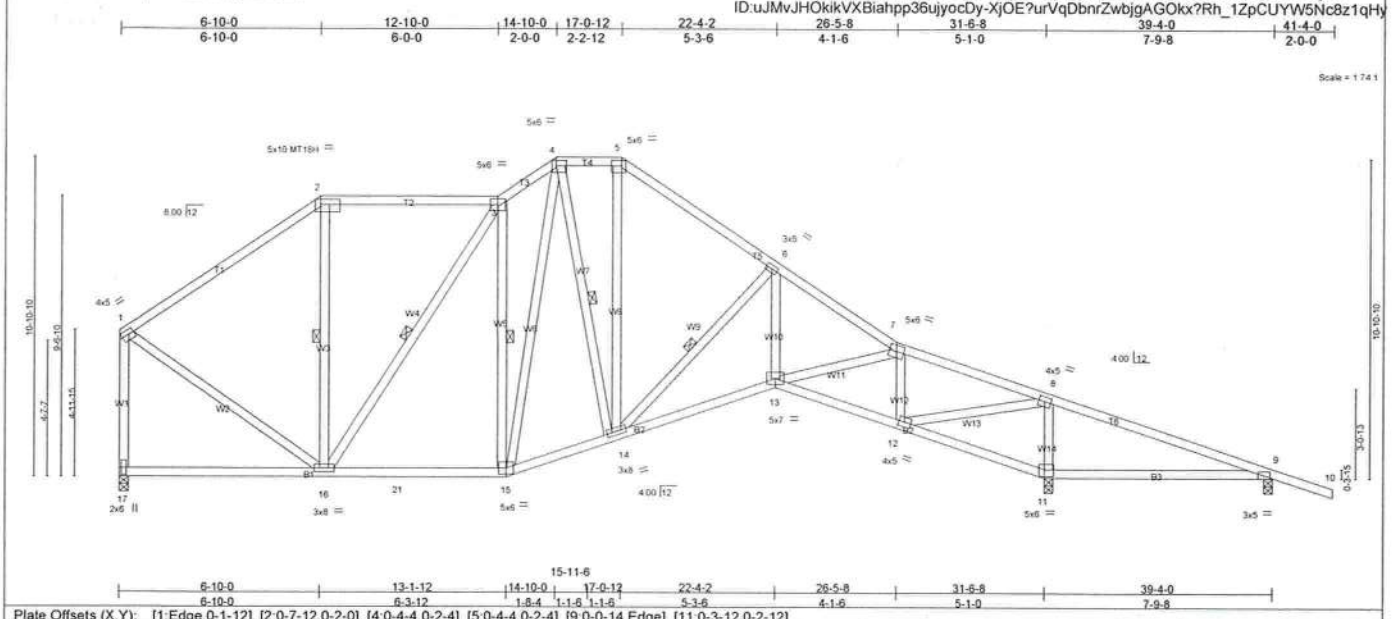


Plate Offsets (X,Y): [1:Edge,0-1-12], [2:0-7-12,0-2-0], [4:0-4-4,0-2-4], [5:0-4-4,0-2-4], [9:0-0-14,Edge], [11:0-3-12,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	0.20	11-20	>473	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.18	13-14	>999	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(TL)	0.10	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 270 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-14 max.): 2-3, 4-5.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-2-10 oc bracing: 11-12
5-4-5 oc bracing: 11-20.

WEBS 1 Row at midpt 2-16, 3-16, 3-15, 6-14, 4-14

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

REACTIONS (lb/size) 17=841/0-3-8 (min. 0-1-8), 11=1448/0-3-8 (min. 0-2-5), 9=24/0-3-8 (min. 0-1-8)
Max Horz 17=-282(LC 8)
Max Uplift 17=-238(LC 12), 11=-360(LC 13), 9=-315(LC 11)
Max Grav 17=919(LC 2), 11=1646(LC 2), 9=110(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-880/453, 2-3=-732/471, 3-4=-1168/742, 5-6=-1149/612, 6-7=-1782/729, 7-8=-983/487, 8-9=-760/1234, 1-17=-1078/535, 4-5=-948/577
BOT CHORD 16-17=-76/293, 16-21=-85/772, 15-21=-85/772, 14-15=-37/746, 13-14=-302/1487, 12-13=-259/980, 11-12=-1255/483, 9-11=-1099/934
WEBS 3-16=-391/219, 3-15=-537/388, 4-15=-371/361, 6-14=-973/394, 6-13=-140/674, 7-13=-43/504, 7-12=-1042/407, 8-12=-675/2078, 8-11=-1457/707, 1-16=-291/687, 5-14=-172/329, 4-14=-27/254

NOTES (11-12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 17, 360 lb uplift at joint 11 and 315 lb uplift at joint 9.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	T24	SPECIAL	1	1	I5654205
					Job Reference (optional)

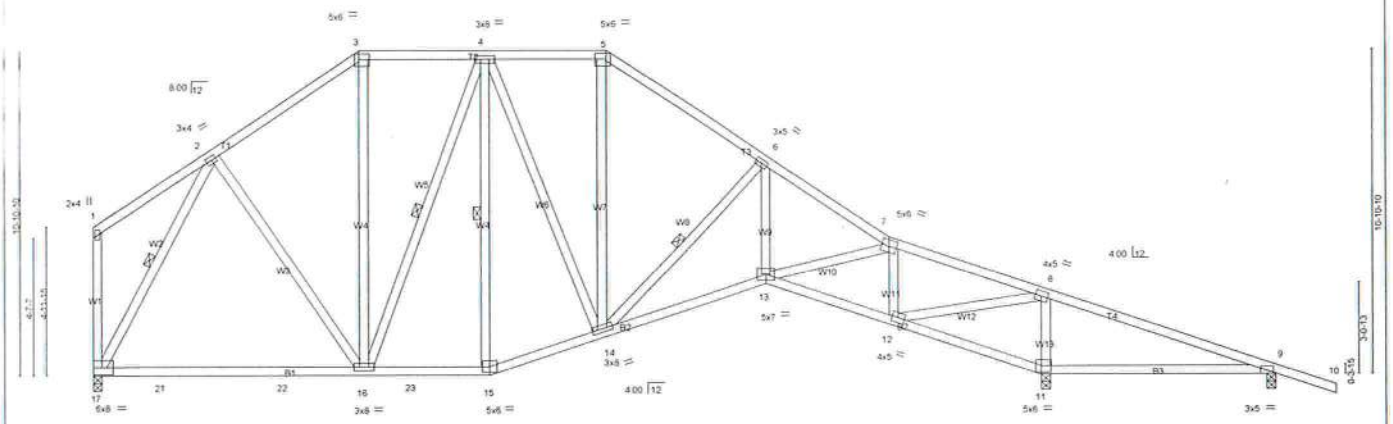
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:23 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-T6W_QZtIMrrV4t4_r5CkT91N?Vcl1l8n?qaUh0z1qHw

4-0-4	8-10-0	13-1-12	17-0-12	22-4-2	26-5-8	31-6-8	39-4-0	41-4-0
4-0-4	4-9-12	4-3-12	3-11-0	5-3-6	4-1-6	5-1-0	7-9-8	2-0-0

Scale = 1:72.6



8-10-0	13-1-12	17-0-12	22-4-2	26-5-8	31-6-8	39-4-0
8-10-0	4-3-12	3-11-0	5-3-6	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [3:0-4-4,0-2-4], [5:0-4-4,0-2-4], [9:0-0-14,Edge], [11:0-3-12,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	0.20	11-20	>473	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.38	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.11	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 272 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-2-13 oc bracing: 11-12
5-4-9 oc bracing: 11-20.
WEBS 1 Row at midpt 4-16, 4-15, 6-14, 2-17

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

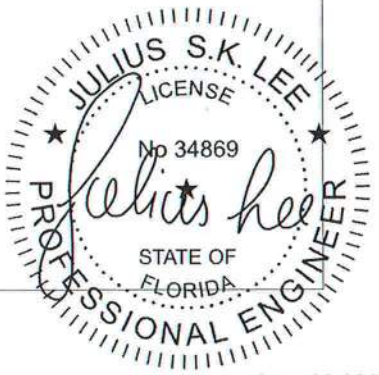
REACTIONS (lb/size) 11=1457/0-3-8 (min. 0-2-4), 9=22/0-3-8 (min. 0-1-8), 17=923/0-3-8 (min. 0-1-8)
Max Horz 17=-282(LC 8)
Max Uplift 11=-360(LC 13), 9=-302(LC 11), 17=-193(LC 12)
Max Grav 11=1645(LC 2), 9=73(LC 28), 17=923(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-928/541, 3-4=-762/511, 4-5=-937/577, 5-6=-1137/613, 6-7=-1768/731, 7-8=-976/485, 8-9=-763/1226
BOT CHORD 17-21=-43/485, 21-22=-43/485, 16-22=-43/485, 16-23=-12/647, 15-23=-12/647, 14-15=-13/688, 13-14=-303/1475, 12-13=-257/972, 11-12=-1247/489, 9-11=-1091/937
WEBS 2-16=-97/257, 4-16=-299/183, 5-14=-156/302, 6-14=-970/395, 6-13=-140/670, 7-13=-47/499, 7-12=-1034/410, 8-12=-679/2064, 8-11=-1449/709, 2-17=-1066/517

NOTES (10-11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 360 lb uplift at joint 11, 302 lb uplift at joint 9 and 193 lb uplift at joint 17.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
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) 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 28,2012

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

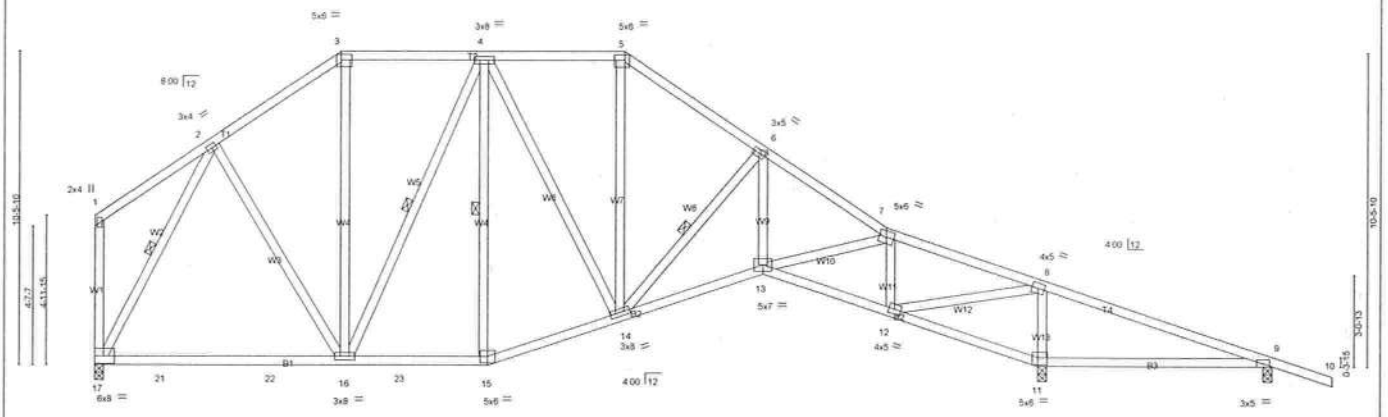
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T25	SPECIAL	1	1	I5654206
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:25 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-PUelrFu?uS5DKAEMyWECYa6jZIJDVfd4T83blvz1qHu

4-0-4	8-2-8	13-1-12	17-8-4	22-4-2	26-5-8	31-6-8	39-4-0	41-4-0
4-0-4	4-2-4	4-11-4	4-6-8	4-7-14	4-1-6	5-1-0	7-9-8	2-0-0

Scale = 1:72.6



8-2-8	13-1-12	17-8-4	22-4-2	26-5-8	31-6-8	39-4-0
8-2-8	4-11-4	4-6-8	4-7-14	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [3:0-4-4,0-2-4], [5:0-4-4,0-2-4], [9:0-0-14,Edge], [11:0-3-12,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	0.20	11-20	>473	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	0.16	11-20	>584	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.10	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 268 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-3-9 oc bracing: 11-12
5-5-6 oc bracing: 11-20.
WEBS 1 Row at midpt 4-16, 4-15, 6-14, 2-17

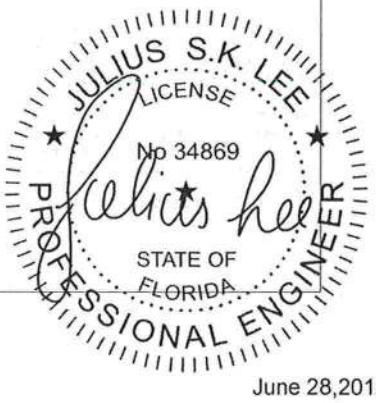
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 11=1455/0-3-8 (min. 0-2-4), 9=24/0-3-8 (min. 0-1-8), 17=924/0-3-8 (min. 0-1-8)
Max Horz 17=-272(LC 8)
Max Uplift 11=-355(LC 13), 9=-295(LC 11), 17=-189(LC 12)
Max Grav 11=1640(LC 2), 9=74(LC 28), 17=924(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-906/536, 3-4=-744/500, 4-5=-962/582, 5-6=-1166/628, 6-7=-1751/734, 7-8=-983/492, 8-9=-773/1199
BOT CHORD 17-21=-33/470, 21-22=-33/470, 16-22=-33/470, 16-23=-41/678, 15-23=-41/678, 14-15=-46/720, 13-14=-303/1455, 12-13=-265/979, 11-12=-1220/488, 9-11=-1066/946
WEBS 2-16=-103/276, 4-16=-334/208, 5-14=-173/341, 6-14=-932/376, 6-13=-147/669, 7-13=-39/472, 7-12=-1023/413, 8-12=-684/2044, 8-11=-1438/711, 2-17=-1045/509

NOTES (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 355 lb uplift at joint 11, 295 lb uplift at joint 9 and 189 lb uplift at joint 17.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T26	SPECIAL	1	1	I5654207

Job Reference (optional)

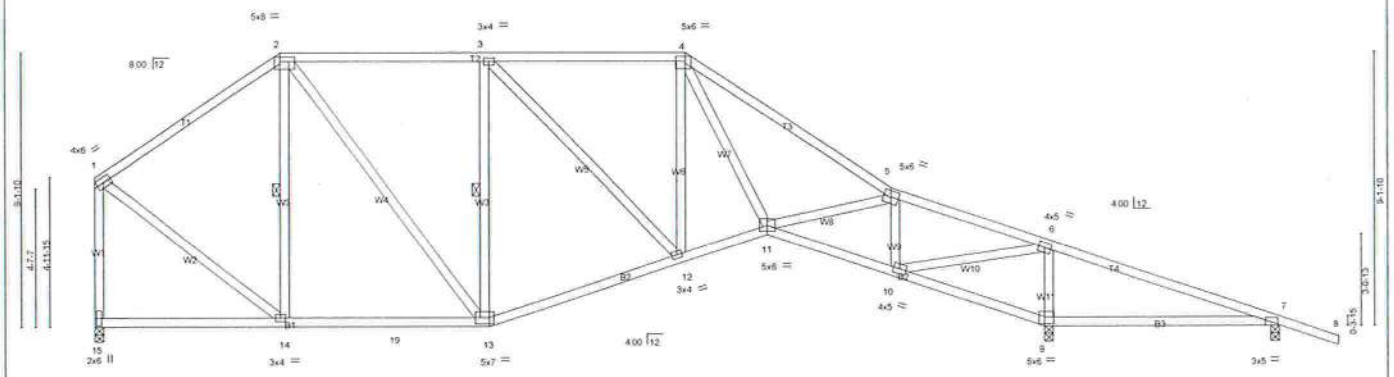
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:26 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-tgC72bvdfmD4xKoYWEmR5ofuxihJE6nEhop8HLz1qHt

6-2-8	13-1-12	19-8-4	26-5-8	31-6-8	39-4-0	41-4-0
6-2-8	6-11-4	6-6-8	6-9-4	5-1-0	7-9-8	2-0-0

Scale = 1:72.3



6-2-8	13-1-12	19-8-4	22-4-2	26-5-8	31-6-8	39-4-0
6-2-8	6-11-4	6-6-8	2-7-14	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [2:0-5-12,0-2-0], [4:0-3-12,0-2-0], [7:0-0-10,Edge], [9:0-3-12,0-2-12], [13:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	0.20	9-18	>469	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	0.16	9-18	>580	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.09	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 239 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-7-4 oc bracing: 9-10
5-9-8 oc bracing: 9-18.
WEBS 1 Row at midpt 2-14, 3-13

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

REACTIONS (lb/size) 15=862/0-3-8 (min. 0-1-8), 9=1398/0-3-8 (min. 0-2-2), 7=56/0-3-8 (min. 0-1-8)
Max Horz 15=-238(LC 8)
Max Uplift 15=-179(LC 9), 9=-341(LC 8), 7=-273(LC 9)
Max Grav 15=926(LC 2), 9=1608(LC 2), 7=92(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-824/447, 2-3=-959/629, 3-4=-1104/622, 4-5=-1670/725, 5-6=-1068/533, 6-7=-827/1070, 1-15=-1048/545
BOT CHORD 14-15=-83/298, 14-19=-4/527, 13-19=-4/527, 12-13=-155/848, 11-12=-155/1010, 10-11=-315/1073, 9-10=-1094/483, 7-9=-1066/1002
WEBS 2-14=-342/239, 2-13=-285/469, 3-13=-556/305, 4-11=-179/672, 5-11=0/328, 5-10=-1005/436, 6-10=-724/2011, 6-9=-1394/712, 1-14=-314/677

NOTES (9-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 179 lb uplift at joint 15, 341 lb uplift at joint 9 and 273 lb uplift at joint 7.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 paramenters 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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	T27	SPECIAL	1	1	I5654208
					Job Reference (optional)

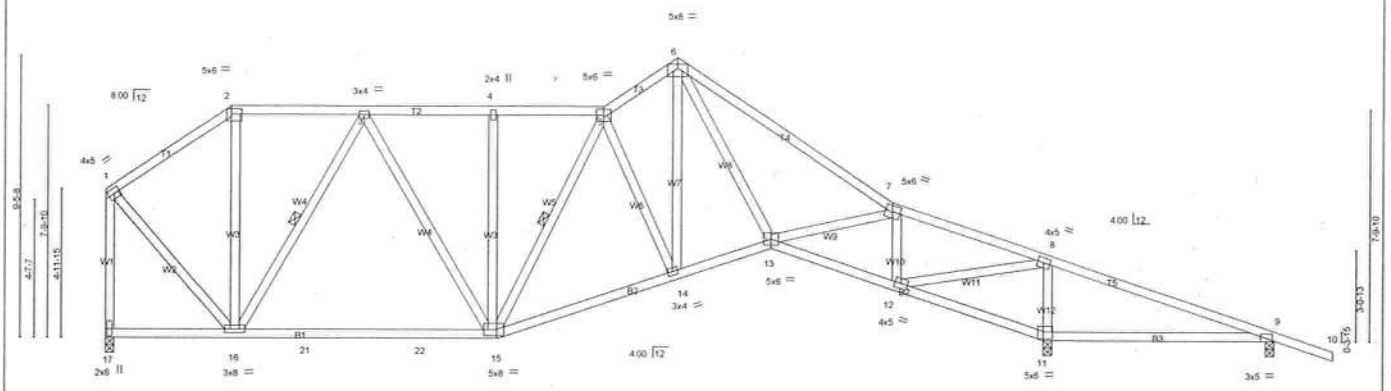
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:28 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-q3JtTHxuBNTnBeyxefovADkEOWlni0DW95IFMEz1qHr

4-2-8	8-8-2	13-1-12	16-8-8	19-2-6	26-5-8	31-6-8	39-4-0	41-4-0
4-2-8	4-5-10	4-5-10	3-6-12	2-5-14	7-3-2	5-1-0	7-9-8	2-0-0

Scale = 1:73.2



4-2-8	13-1-12	19-2-6	22-4-2	26-5-8	31-6-8	39-4-0
4-2-8	8-11-4	6-0-10	3-1-12	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [2:0-4-4,0-2-4], [9:0-0-10,Edge], [11:0-3-12,0-2-12], [15:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	0.20	11-20	>469	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.42	15-16	>906	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.09	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 251 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T4: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-6 oc bracing.
WEBS 1 Row at midpt 3-16, 5-15

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

REACTIONS (lb/size) 17=863/0-3-8 (min. 0-1-8), 11=1415/0-3-8 (min. 0-2-3), 9=45/0-3-8 (min. 0-1-8)
Max Horz 17=-245(LC 8)
Max Uplift 17=-267(LC 12), 11=-339(LC 13), 9=-303(LC 9)
Max Grav 17=924(LC 2), 11=1618(LC 2), 9=172(LC 28)

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

TOP CHORD 1-2=-694/370, 2-3=-579/366, 3-4=-1084/650, 4-5=-1079/647, 5-6=-1268/660, 6-7=-1705/710, 7-8=-1074/530, 8-9=-813/1129, 1-17=-1055/535
BOT CHORD 16-17=-99/307, 16-21=-143/785, 21-22=-143/785, 15-22=-143/785, 14-15=-291/1208, 13-14=-128/997, 12-13=-313/1083, 11-12=-1155/481, 9-11=-1071/990
WEBS 3-16=-644/394, 3-15=-171/359, 5-15=-408/103, 5-14=-477/376, 6-14=-361/552, 6-13=-177/691, 7-13=-0/322, 7-12=-1042/434, 8-12=-719/2077, 8-11=-1421/706, 1-16=-346/735

NOTES (9-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 267 lb uplift at joint 17, 339 lb uplift at joint 11 and 303 lb uplift at joint 9.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	I5654209
371231	T28	SPECIAL	1	1	Job Reference (optional)	

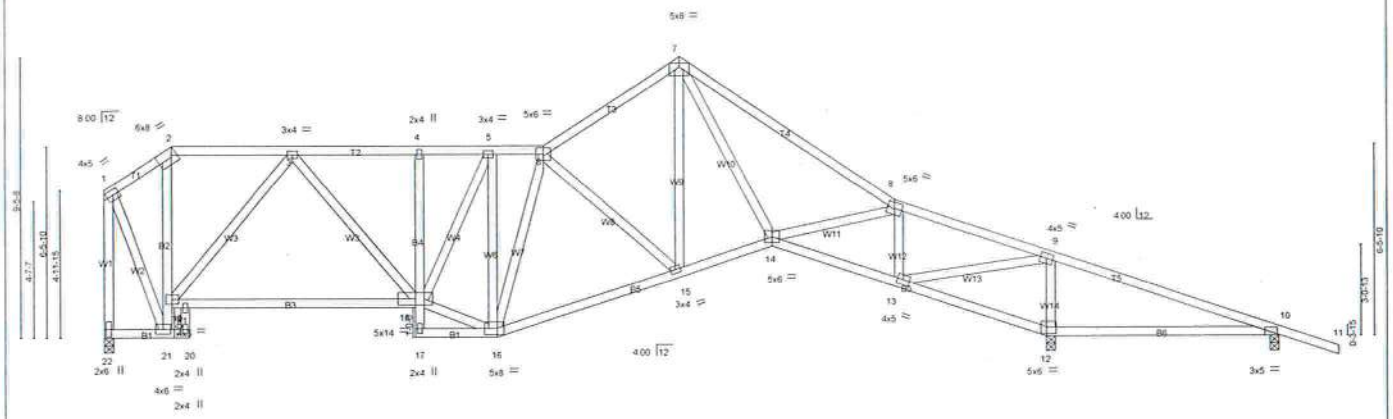
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:30 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-mSReuyy8j_jVQy6Kl3qNFepaXJ_aAuNpcPnLQ6z1qHp

2-2-8	6-3-6	10-4-4	13-1-12	14-8-8	19-2-6	26-5-8	31-6-8	39-4-0	41-4-0
2-2-8	4-0-14	4-0-14	2-9-8	1-6-12	4-5-14	7-3-2	5-1-0	7-9-8	2-0-0

Scale = 1:73.2



2-2-8	2-9-8	10-4-4	13-1-12	19-2-6	22-4-2	26-5-8	31-6-8	39-4-0
2-2-8	0-7-0	7-6-12	2-9-8	6-0-10	3-1-12	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [2:0-1-15,Edge], [10:0-0-10,Edge], [12:0-3-12,0-2-12], [16:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	0.20	12-26	>469	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.40	18-19	>930	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.18	12	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 258 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T4: 2x4 SYP M 31

BOT CHORD 2x4 SP No.2 *Except* B2,B4: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except* W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, **except end verticals.**

BOT CHORD Rigid ceiling directly applied or 5-2-1 oc bracing. Except: 5-9-0 oc bracing: 19-21

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

REACTIONS (lb/size) 22=780/0-3-8 (min. 0-1-8), 12=1399/0-3-8 (min. 0-2-4), 10=32/0-3-8 (min. 0-1-8)
Max Horz 22=-245(LC 8)
Max Uplift 22=-262(LC 12), 12=-334(LC 13), 10=-307(LC 11)
Max Grav 22=923(LC 2), 12=1658(LC 2), 10=157(LC 28)

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

TOP CHORD 1-2=-445/206, 2-3=-397/193, 3-4=-1378/706, 4-5=-1369/705, 5-6=-1267/702, 6-7=-1303/633, 7-8=-1679/691, 8-9=-1002/511, 9-10=-786/1254, 1-22=-1114/480

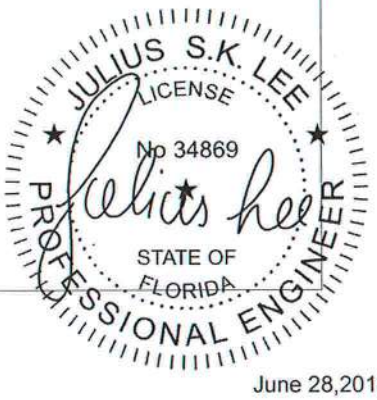
BOT CHORD 21-22=-105/310, 19-21=-709/407, 18-19=-179/918, 15-16=-419/1404, 14-15=-118/996, 13-14=-291/1008, 12-13=-1276/495, 10-12=-1118/965

WEBS 3-19=-942/534, 3-18=-282/619, 16-18=-325/1264, 5-18=-58/282, 5-16=-340/84, 6-16=-554/202, 6-15=-528/396, 7-15=-330/546, 7-14=-165/645, 8-14=-8/359, 8-13=-1066/432, 9-13=-715/2125, 9-12=-1446/704, 1-21=-364/860

NOTES (9-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 262 lb uplift at joint 22, 334 lb uplift at joint 12 and 307 lb uplift at joint 10.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T29	SPECIAL	1	1	I5654210
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:32 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-iqZOJe_OFczDfFGitUsrK3uuY7gleq_64jGSV?z1qHn

0-2-8	2-9-8	10-4-4	12-8-8	19-2-6	26-5-8	31-6-8	39-4-0	41-4-0
0-2-8	2-7-0	7-6-12	2-4-4	6-5-14	7-3-2	5-1-0	7-9-8	2-0-0

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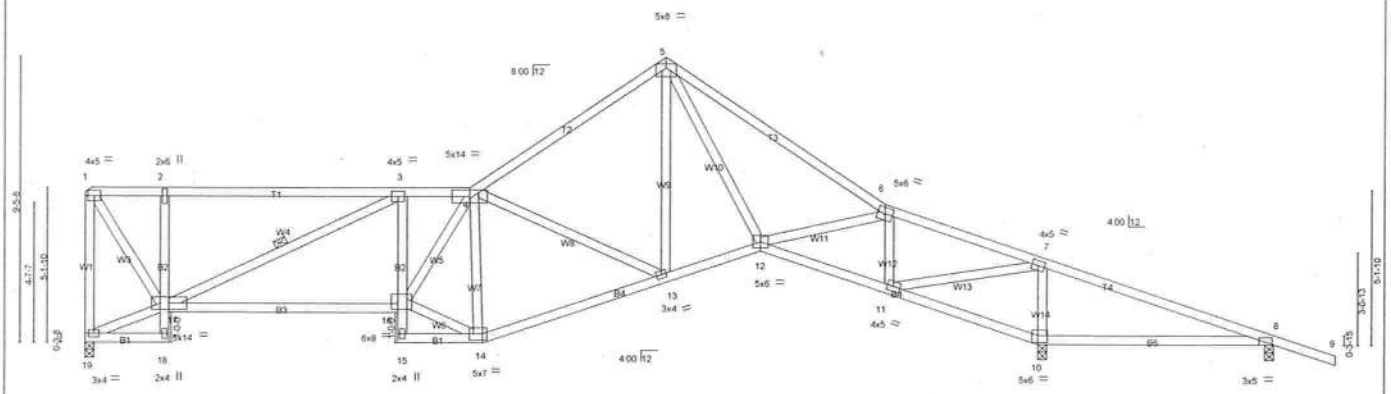


2-9-8	10-4-4	13-1-12	19-2-6	22-4-2	26-5-8	31-6-8	39-4-0
2-9-8	7-6-12	2-9-8	6-0-10	3-1-12	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [8:0-0-10,Edge], [10:0-3-12,0-2-12], [14:0-5-4,0-2-8], [16:0-6-0,0-4-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.77	Vert(LL)	0.20	10-22	>469	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.33	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.14	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 237 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-15 oc bracing.
WEBS 1 Row at midpt 3-17

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

REACTIONS (lb/size) 10=1445/0-3-8 (min. 0-2-6), 8=-5/0-3-8 (min. 0-1-8), 19=764/0-3-8 (min. 0-1-8)
Max Horz 19=-245(LC 8)
Max Uplift 10=-347(LC 13), 8=-320(LC 11), 19=-263(LC 12)
Max Grav 10=1713(LC 2), 8=136(LC 28), 19=905(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-639/271, 2-3=-673/289, 3-4=-1917/898, 4-5=-1305/585, 5-6=-1623/641, 6-7=-873/434, 7-8=-746/1432, 1-19=-972/408
BOT CHORD 2-17=-372/287, 16-17=-629/1926, 3-16=-85/357, 13-14=-524/1594, 12-13=-98/986, 11-12=-214/881, 10-11=-1457/576, 8-10=-1289/928
WEBS 1-17=-499/1171, 3-17=-1436/706, 14-16=-524/1689, 4-16=-147/547, 4-14=-1173/416, 4-13=-635/449, 5-13=-281/505, 5-12=-119/570, 6-12=-28/411, 6-11=-1092/434, 7-11=-718/2174, 7-10=-1474/707, 17-19=-116/376

NOTES (9-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 347 lb uplift at joint 10, 320 lb uplift at joint 8 and 263 lb uplift at joint 19.
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) 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 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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	BLAKE CONST. - ELLIOTT RES.
371231	T30	SPECIAL	1	1	I5654211 Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:36 2012 Page 1
ID:uJMvJHOkikVXBiahpp36ujyocDy-bcov901vlqUf8tZT6KxnVv3adk2rad3i?LEgemz1qH

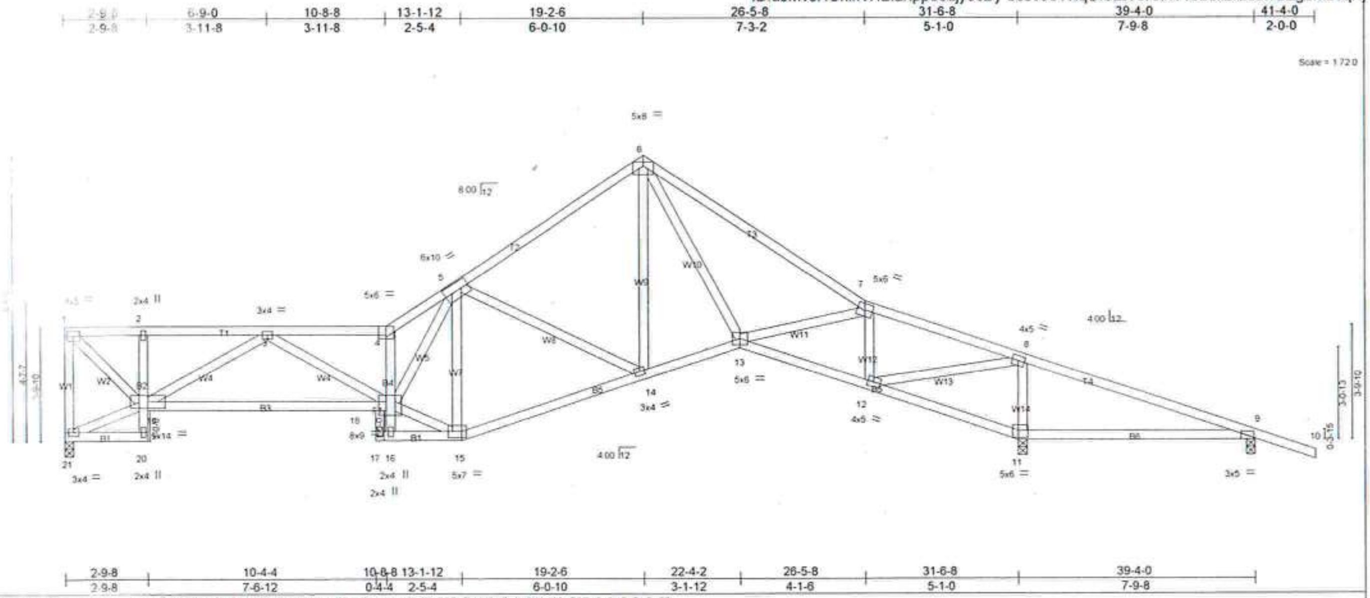


Plate Offsets (X,Y): [4:0-3-0,Edge], [9:0-0-10,Edge], [11:0-3-12,0-2-12], [15:0-5-4,0-2-8], [18:0-3-0,0-2-8]

LOADING (psf)		SPACING		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	0.23	17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.45	18-19	>838	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.16	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 232 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-8 oc bracing. Except:
10-0-0 oc bracing: 16-18

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

REACTIONS (lb/size) 21=751/0-3-8 (min. 0-1-8), 11=1525/0-3-8 (min. 0-2-9), 9=-68/0-3-8 (min. 0-1-8)
Max Horz 21=-247(LC 8)
Max Uplift21=-250(LC 12), 11=-366(LC 13), 9=-343(LC 11)
Max Grav 21=890(LC 2), 11=1807(LC 2), 9=99(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-987/412, 1-2=-929/372, 2-3=-962/379, 3-4=-2809/1231, 4-5=-3108/1376, 5-6=-1278/572, 6-7=-1515/585, 7-8=-657/338, 8-9=-680/1737
BOT CHORD 18-19=-730/2088, 4-18=-1783/812, 14-15=-519/1618, 13-14=-77/950, 12-13=-119/666, 11-12=-1763/701, 9-11=-1576/867
WEBS 19-21=-57/294, 1-19=-524/1308, 3-19=-1322/685, 3-18=-323/860, 15-18=-434/1497, 5-18=-895/2259, 5-15=-1078/370, 5-14=-710/476, 6-14=-313/577, 6-13=-63/445, 7-13=-53/499, 7-12=-1138/449, 8-12=-746/2261, 8-11=-1518/721

NOTES (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 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 250 lb uplift at joint 21, 366 lb uplift at joint 11 and 343 lb uplift at joint 9.
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) 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 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T31	SPECIAL	1	1	I5654212
					Job Reference (optional)

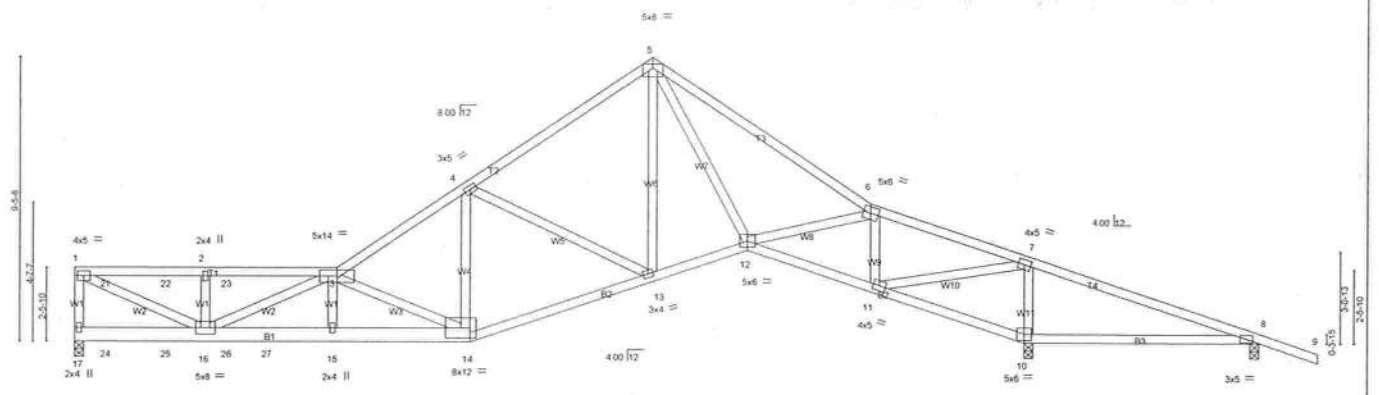
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:37 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-3oMHMM1X38cWm08gf1S016ckX8QmJ5BrD?_DACz1qHi

4-4-4	8-8-8	13-1-12	19-2-6	26-5-8	31-6-8	39-4-0	41-4-0
4-4-4	4-4-4	4-5-4	6-0-10	7-3-2	5-1-0	7-9-8	2-0-0

Scale = 1:72.3



4-4-4	8-8-8	13-1-12	19-2-6	22-4-2	26-5-8	31-6-8	39-4-0
4-4-4	4-4-4	4-5-4	6-0-10	3-1-12	4-1-6	5-1-0	7-9-8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.15	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.29	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.09	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 224 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x6 SYP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 17=683/0-3-8 (min. 0-1-8), 10=1464/0-3-8 (min. 0-2-1), 8=-21/0-3-8 (min. 0-1-8)
Max Horz 17=-248(LC 4)
Max Uplift 17=-359(LC 8), 10=-418(LC 9), 8=-296(LC 7)
Max Grav 17=809(LC 2), 10=1735(LC 2), 8=119(LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-780/352, 1-21=-1479/599, 21-22=-1479/599, 2-22=-1479/599, 2-23=-1479/599, 3-23=-1479/599, 3-4=-1561/478, 4-5=-1052/310, 5-6=-1301/337, 6-7=-652/184, 7-8=-322/1257
BOT CHORD 16-26=-874/2498, 26-27=-874/2498, 15-27=-874/2498, 14-15=-874/2493, 13-14=-415/1349, 12-13=-114/841, 11-12=-52/656, 10-11=-1281/375, 8-10=-1133/431
WEBS 1-16=-650/1623, 3-16=-1130/270, 3-14=-1368/542, 4-14=-134/275, 4-13=-550/315, 5-13=-197/459, 5-12=-17/434, 6-12=-71/427, 6-11=-896/236, 7-11=-388/1802, 7-10=-1254/345

NOTES (11-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch right exposed; 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 359 lb uplift at joint 17, 418 lb uplift at joint 10 and 296 lb uplift at joint 8.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb up at 1-0-12, and 65 lb up at 3-0-12, and 65 lb up at 5-0-12 on top chord, and 20 lb up at 1-0-12, 20 lb up at 3-0-12, and 20 lb up at 5-0-12, and 56 lb down and 60 lb up at 6-5-4 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 SPp, 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

Continued on page 2

June 28,2012

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T31	SPECIAL	1	1	I5654212
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:37 2012 Page 2

ID:uJMvJHOkikVXBiahpp36ujyocDy-3oMHMM1X38cWm08gf1S016ckX8QmJ5BrD?_DACz1qHi

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-44, 3-5=-44, 5-6=-44, 6-9=-44, 14-17=-10, 12-14=-10, 10-12=-10, 10-18=-10

Concentrated Loads (lb)

Vert: 21=36(F) 22=36(F) 23=36(F) 24=5(F) 25=5(F) 26=5(F) 27=-46(F)

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

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.
371231	T32	SPECIAL	1	1	I5654213
					Job Reference (optional)

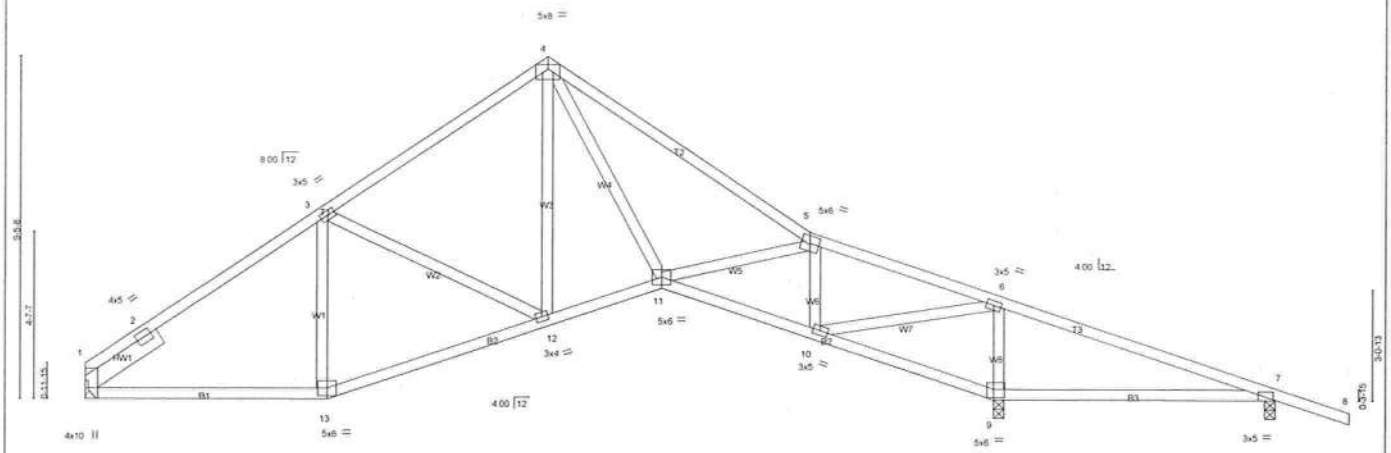
Builders FirstSource, Lake City, FL 32055

7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:39 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-?BU1n13nblsD?KI2nSUU6Xh7jy7?n2X8hJTKF5z1qHg

6-7-12	12-8-6	19-11-8	25-0-8	32-10-0	34-10-0
6-7-12	6-0-10	7-3-2	5-1-0	7-9-8	2-0-0

Scale = 1:60.0



6-7-12	12-8-6	15-10-2	19-11-8	25-0-8	32-10-0
6-7-12	6-0-10	3-1-12	4-1-6	5-1-0	7-9-8

Plate Offsets (X,Y): [7:0-0-10,Edge], [9:0-3-12,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	0.21	9-20	>436	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	0.18	9-20	>531	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.07	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 173 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SYP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SYP No.2 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 1=615/Mechanical, 9=1110/0-3-8 (min. 0-1-14), 7=136/0-3-8 (min. 0-1-8)
Max Horz 1=-250(LC 8)
Max Uplift 1=-184(LC 12), 9=-294(LC 13), 7=-310(LC 9)
Max Grav 1=729(LC 2), 9=1316(LC 2), 7=216(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1079/531, 3-4=-1076/476, 4-5=-1416/532, 5-6=-996/485, 6-7=-861/1053
BOT CHORD 1-13=-222/952, 12-13=-236/1006, 11-12=-48/772, 10-11=-263/998, 9-10=-864/292, 7-9=-1194/1035
WEBS 3-13=-264/101, 3-12=-249/269, 4-11=-145/632, 5-10=-856/318, 6-10=-494/1724, 6-9=-1243/593

NOTES (8-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 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 184 lb uplift at joint 1, 294 lb uplift at joint 9 and 310 lb uplift at joint 7.
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) 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 28,201

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 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

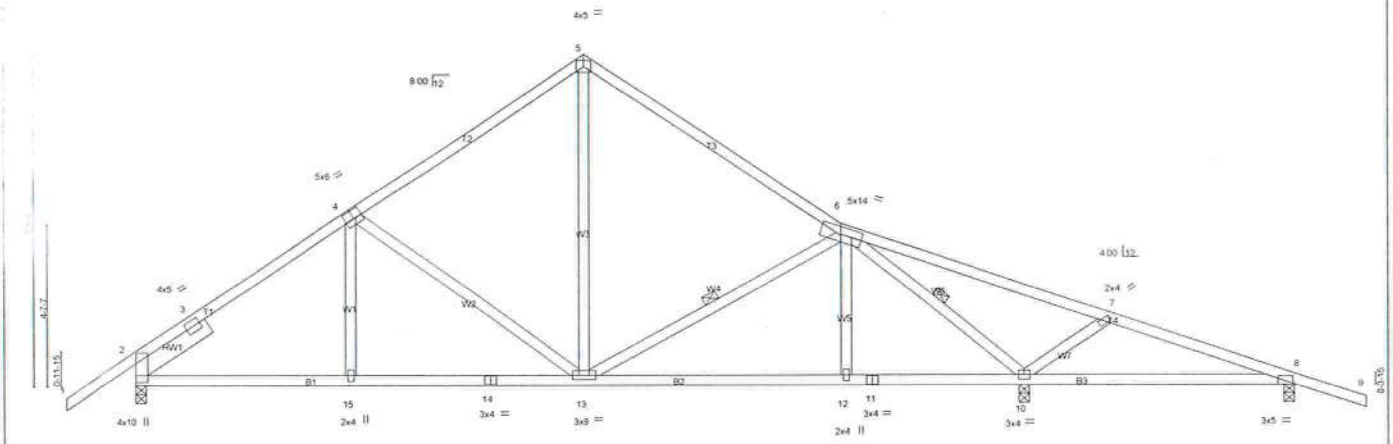
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - ELLIOTT RES.	I5654214
47231	T33	SPECIAL	6	1	Job Reference (optional)	

Builders FirstSource Lake City, FL 32055 — 7.350 s May 18 2012 MiTek Industries, Inc. Thu Jun 28 07:05:40 2012 Page 1

ID:uJMvJHOkikVXBiahpp36ujyocDy-TN2Q?N4PM3_4dUtFLA0jfIECFLS7WTYHvzCtnXz1qHf

	6-1-6	12-8-6	19-11-8	27-5-4	32-10-0	34-10-0
2-0-0	6-1-6	6-6-15	7-3-2	7-5-12	5-4-12	2-0-0

Scale = 1:61.9



	6-1-6	12-8-6	19-11-8	25-2-4	32-10-0
	6-1-6	6-6-15	7-3-2	5-2-12	7-7-12

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.98	Vert(LL)	0.13	10-22	>725	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.16	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.03	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 181 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 10-22.
WEBS 1 Row at midpt 6-13, 6-10

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

REACTIONS (lb/size) 10=1004/0-3-8 (min. 0-1-11), 2=740/0-3-8 (min. 0-1-8), 8=205/0-3-8 (min. 0-1-8)
Max Horz 2=-230(LC 8)
Max Uplift 10=-309(LC 13), 2=-228(LC 12), 8=-252(LC 9)
Max Grav 10=1191(LC 2), 2=881(LC 2), 8=274(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1237/525, 4-5=-975/479, 5-6=-972/465, 6-7=-166/529, 7-8=-601/499
BOT CHORD 2-15=-209/1005, 14-15=-210/1005, 13-14=-210/1005, 12-13=-161/815, 11-12=-159/817, 10-11=-159/817, 8-10=-521/689
WEBS 4-13=-471/288, 5-13=-243/477, 6-10=-1648/658, 7-10=-511/468

NOTES (8-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 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 309 lb uplift at joint 10, 228 lb uplift at joint 2 and 252 lb uplift at joint 8.
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) 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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

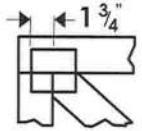
June 28,2012

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 BCSI1 Building Component Safety** Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

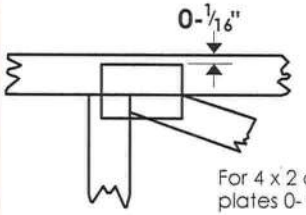
Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

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 0-1/16" 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

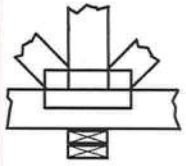
4 x 4

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

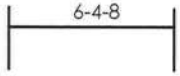


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

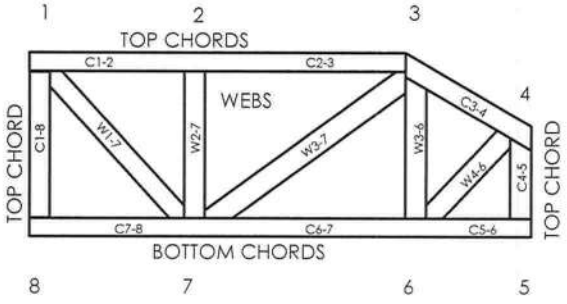
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: 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

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

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 BCSI1.
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 stack 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 wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

August 10, 2010	T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY	ST - T-BRACE 2

MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

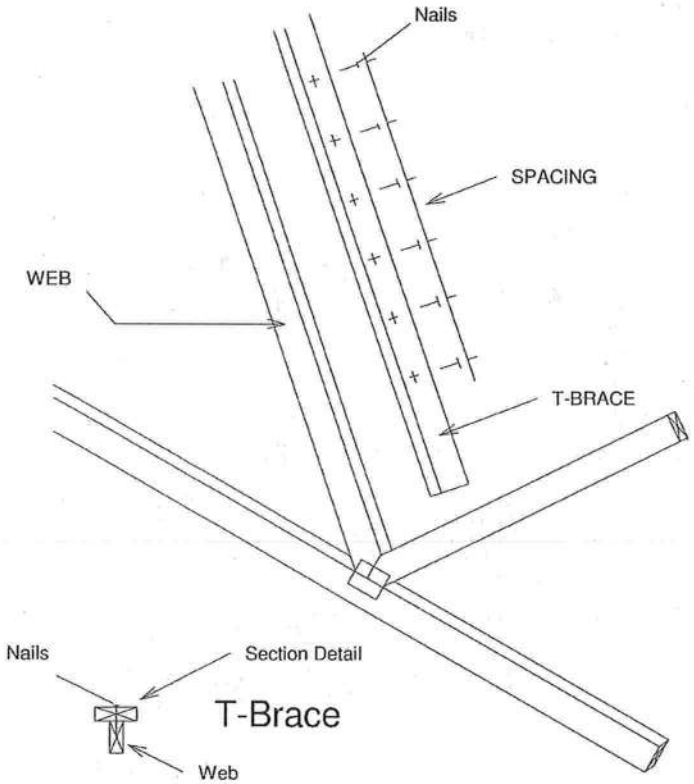
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

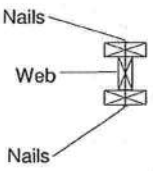
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.





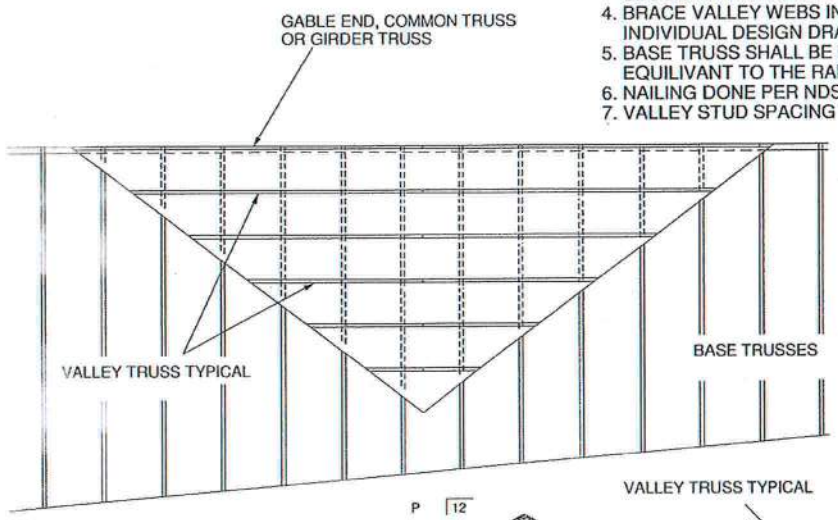
1109 COASTAL BAY
BOYNTON BC, FL 33435

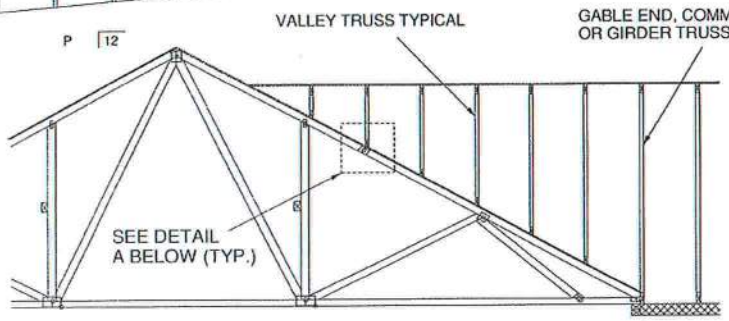
FEBRUARY 14, 2012	TRUSSED VALLEY SET DETAIL	ST-VALLEY HIGH WIND1

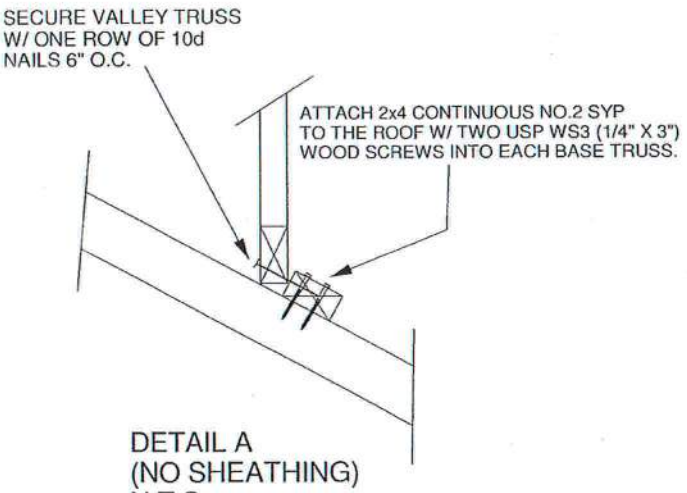
MiTek Industries, Inc.

GENERAL SPECIFICATIONS

1. NAIL SIZE = 3" X 0.131" = 10d
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
   DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.







DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES

JULIUS S.K. LEE
LICENSE
No 34869
3/29/12
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1109 COASTAL BAY
BOYNTON BC, FL 33435

JANUARY 1, 2009	LATERAL TOE-NAIL DETAIL	ST-TOENAIL_SP

MiTek Industries, Inc.

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SYP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

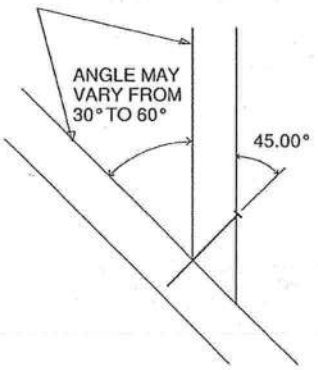
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

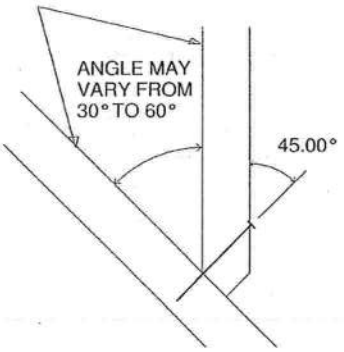
SIDE VIEW

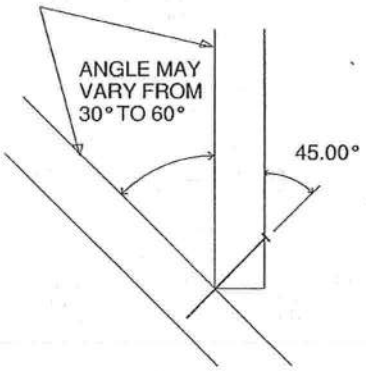
3 NAILS

EXAMPLE:
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity







1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 8, 2008	LATERAL BRACING RECOMMENDATIONS	ST-STRGBCK

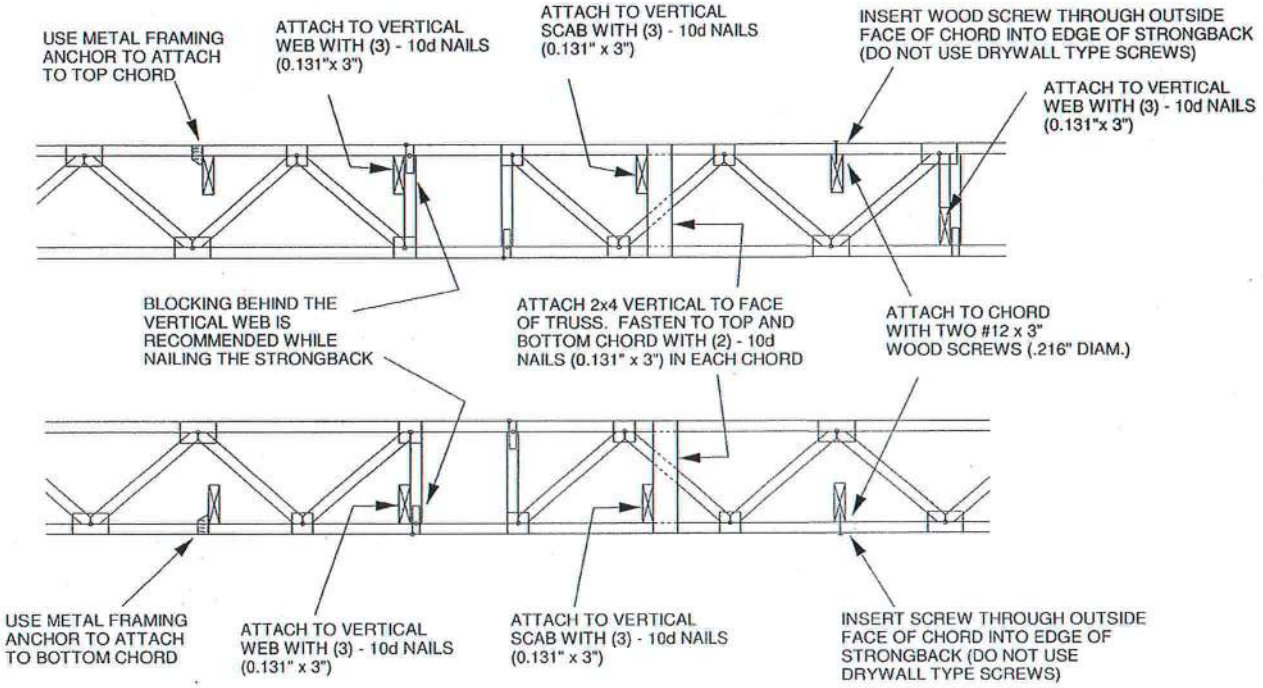
MiTek Industries, Chesterfield, MO

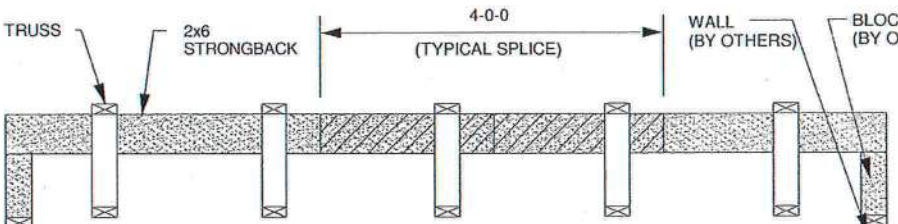
MiTek Industries, Inc.

TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

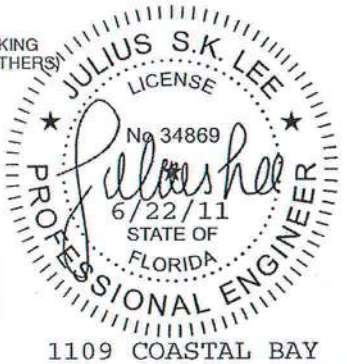
NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT, DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d NAILS (0.131" x 3") EQUALLY SPACED.

ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d NAILS (0.131" x 3") STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 14, 2012	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	ST-PIGGY-7-10

MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 DURATION OF LOAD INCREASE : 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

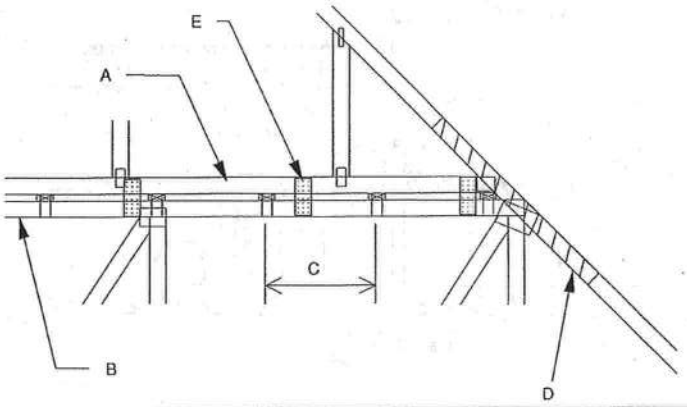
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED.

B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH.

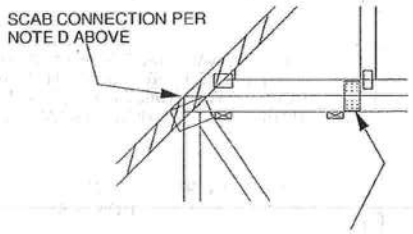
D - 2 X__ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

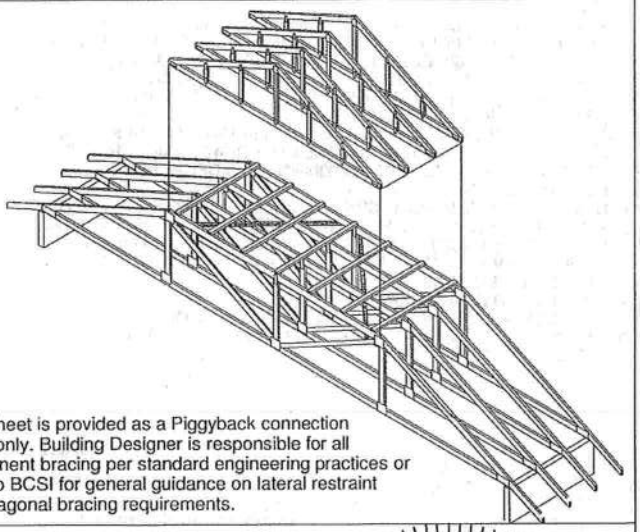


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

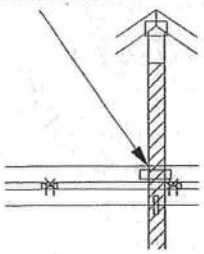


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

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BOYNTON BC, FL 33435

FEBRUARY 14, 2012	Standard Gable End Detail	ST-GE130-001

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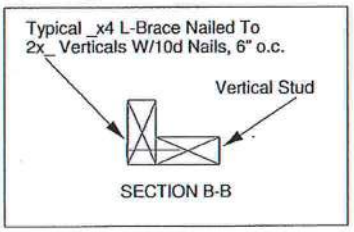

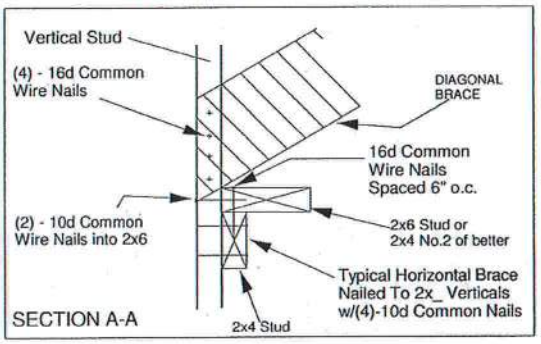

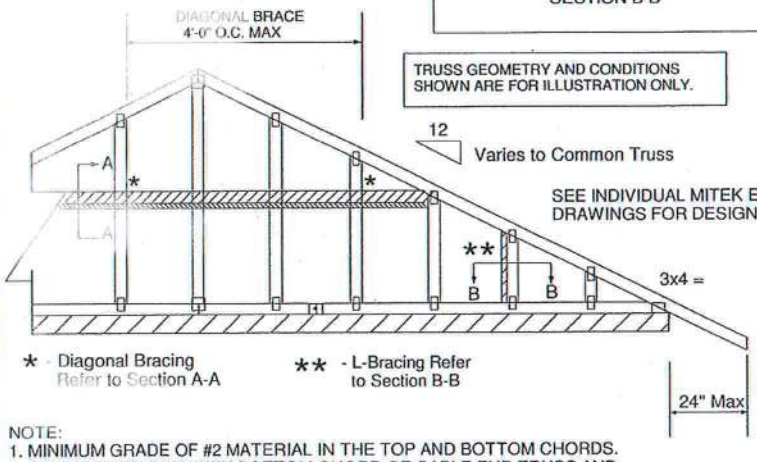

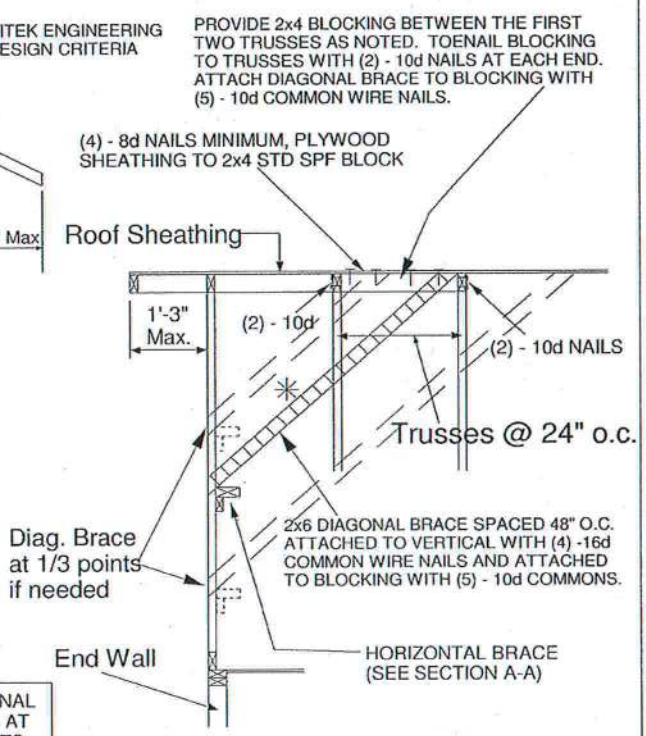

NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SPF Std/Stud	12" O.C.	4-0-7	4-3-2	6-0-4	8-0-15	12-1-6
2x4 SPF Std/Stud	16" O.C.	3-7-0	3-8-4	5-2-10	7-1-15	10-8-15
2x4 SPF Std/Stud	24" O.C.	2-11-1	3-0-2	4-3-2	5-10-3	8-9-4

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

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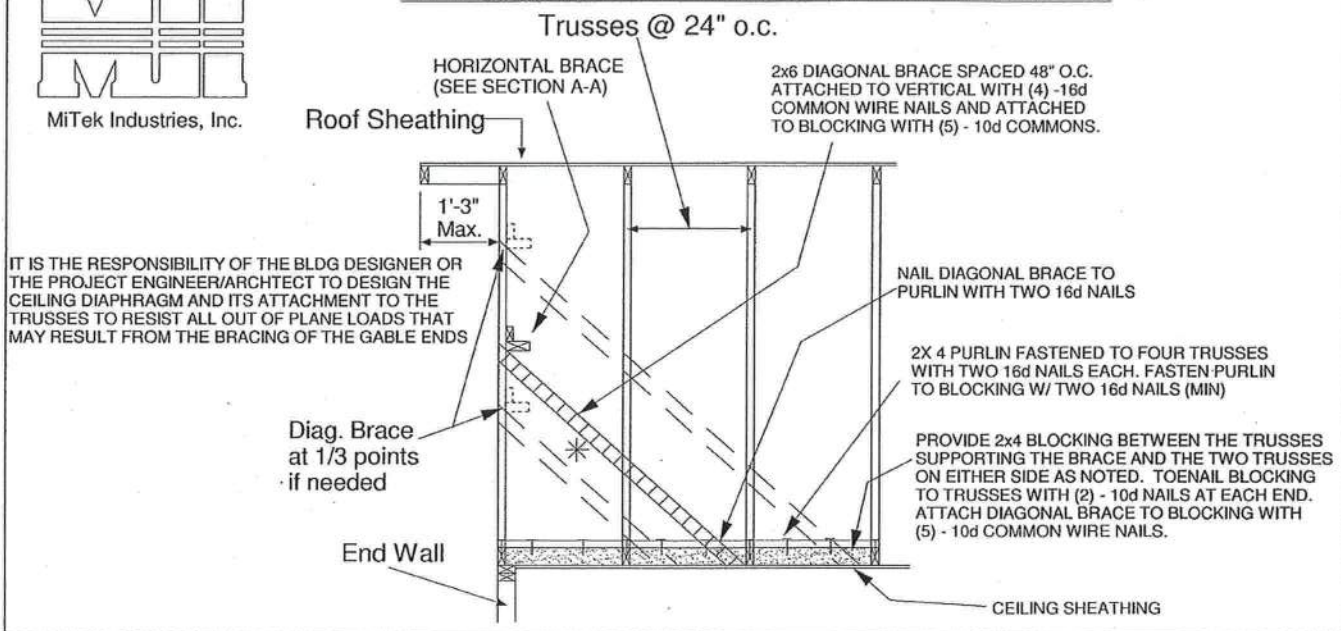
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

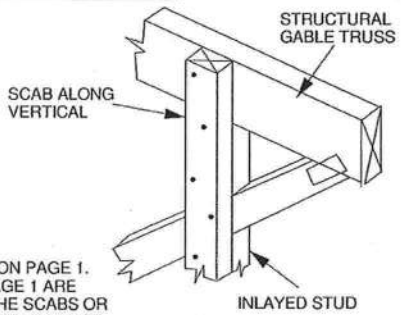
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

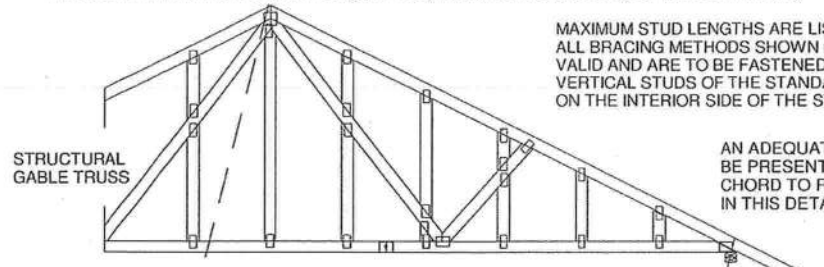
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

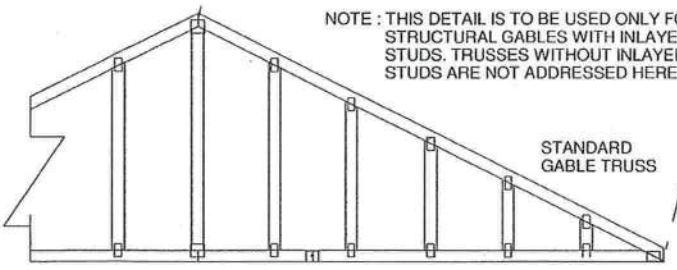


MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL STUDS ONLY.

NOTE : THIS DETAIL IS TO BE USED ONLY FOR STRUCTURAL GABLES WITH INLAYED STUDS. TRUSSES WITHOUT INLAYED STUDS ARE NOT ADDRESSED HERE.



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