JULIUS LEE PE.

RE: 712357 -

1109 COASTAL BAY BLVD,
BOYNTON BEACH, FL 33435

Site Information:
Project Customer: Mike Roberts Project Name: 712357 Model: Custom
Lot/Block: 7 Subdivision: Cannon Creek Place
Address:
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: Unknown at time of seal License #: Unknown at time of seal
Address: Unknown at time of seal
City: Unknown at time of seal State: Unknown at time of seal

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 24 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.

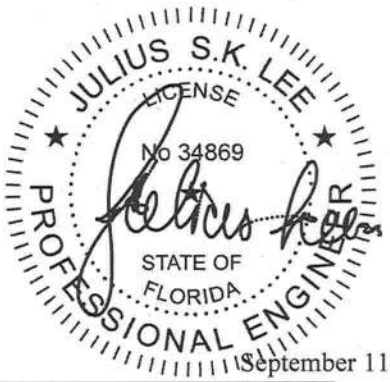
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I10520378	CJ01	9/11/015	18	I10520395	T12	9/11/015
2	I10520379	CJ02	9/11/015	19	I10520396	T15	9/11/015
3	I10520380	CJ03	9/11/015	20	I10520397	T16	9/11/015
4	I10520381	EJ01	9/11/015	21	I10520398	T17	9/11/015
5	I10520382	EJ02	9/11/015	22	I10520399	T18	9/11/015
6	I10520383	HJ01	9/11/015	23	I10520400	T19	9/11/015
7	I10520384	HJ02	9/11/015	24	I10520401	T20	9/11/015
8	I10520385	T03	9/11/015				
9	I10520386	T03G	9/11/015				
10	I10520387	T04	9/11/015				
11	I10520388	T05	9/11/015				
12	I10520389	T06	9/11/015				
13	I10520390	T07	9/11/015				
14	I10520391	T08	9/11/015				
15	I10520392	T09	9/11/015				
16	I10520393	T10	9/11/015				
17	I10520394	T11	9/11/015				

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

Truss Design Engineer's Name: Julius Lee

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

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.



September 11,2015

Julius Lee

Job	Truss	Truss Type	Qty	Ply	
712357	CJ01	Jack-Open Truss	12	1	I10520378

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:55 2015 Page 1

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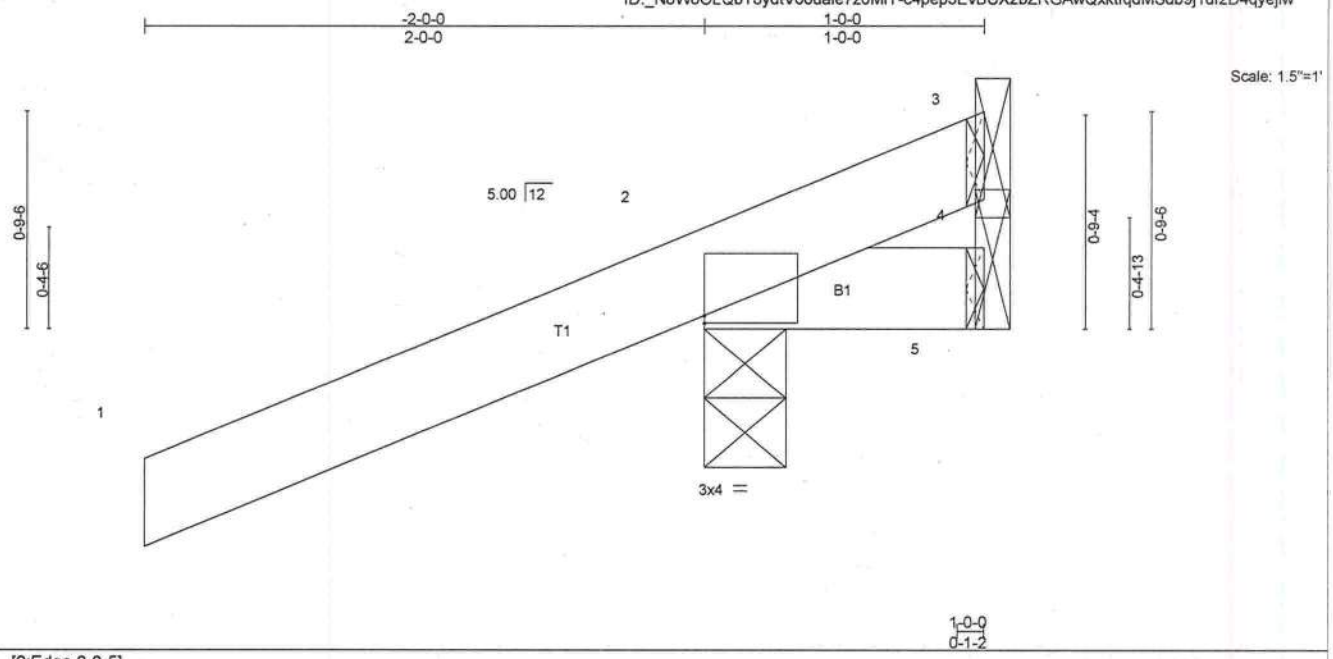

Plate Offsets (X,Y)-- [2:Edge,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 7 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=-14/Mechanical, 2=233/0-3-8 (min. 0-1-8), 5=-47/Mechanical
Max Horz 2=57(LC 8)
Max Uplift 3=-14(LC 1), 2=-187(LC 8), 5=-47(LC 1)
Max Grav 3=15(LC 8), 2=233(LC 1), 5=45(LC 8)

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

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3, 187 lb uplift at joint 2 and 47 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) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

September 11,2015

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	
712357	CJ02	Jack-Open Truss	12	1	I10520379

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:56 2015 Page 1

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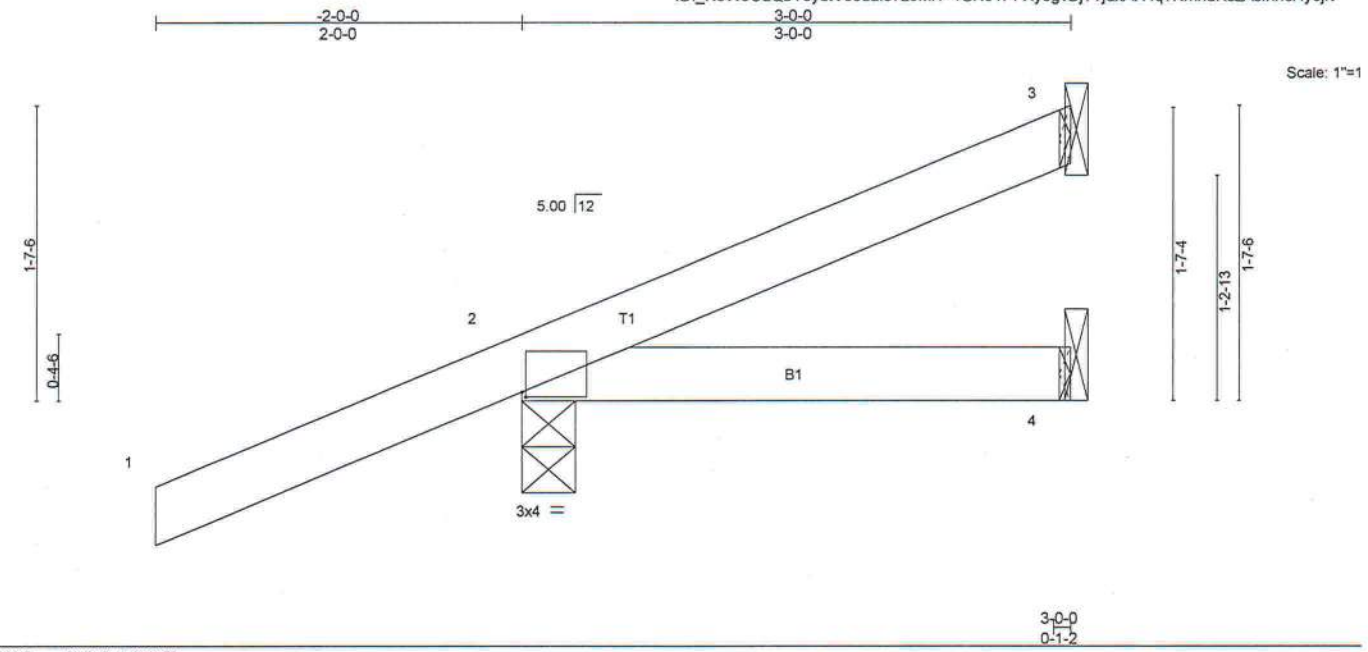

Plate Offsets (X,Y)-- [2:0-0-4,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	-0.00	4-7	>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 FBC2014/TPI2007		(Matrix-M)							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=51/Mechanical, 2=234/0-3-8 (min. 0-1-8), 4=11/Mechanical
Max Horz 2=94(LC 12)
Max Uplift 3=-46(LC 12), 2=-167(LC 8), 4=-21(LC 9)
Max Grav 3=51(LC 1), 2=234(LC 1), 4=33(LC 3)

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

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 167 lb uplift at joint 2 and 21 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	CJ03	Jack-Open Truss	10	1	I10520380

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:57 2015 Page 1

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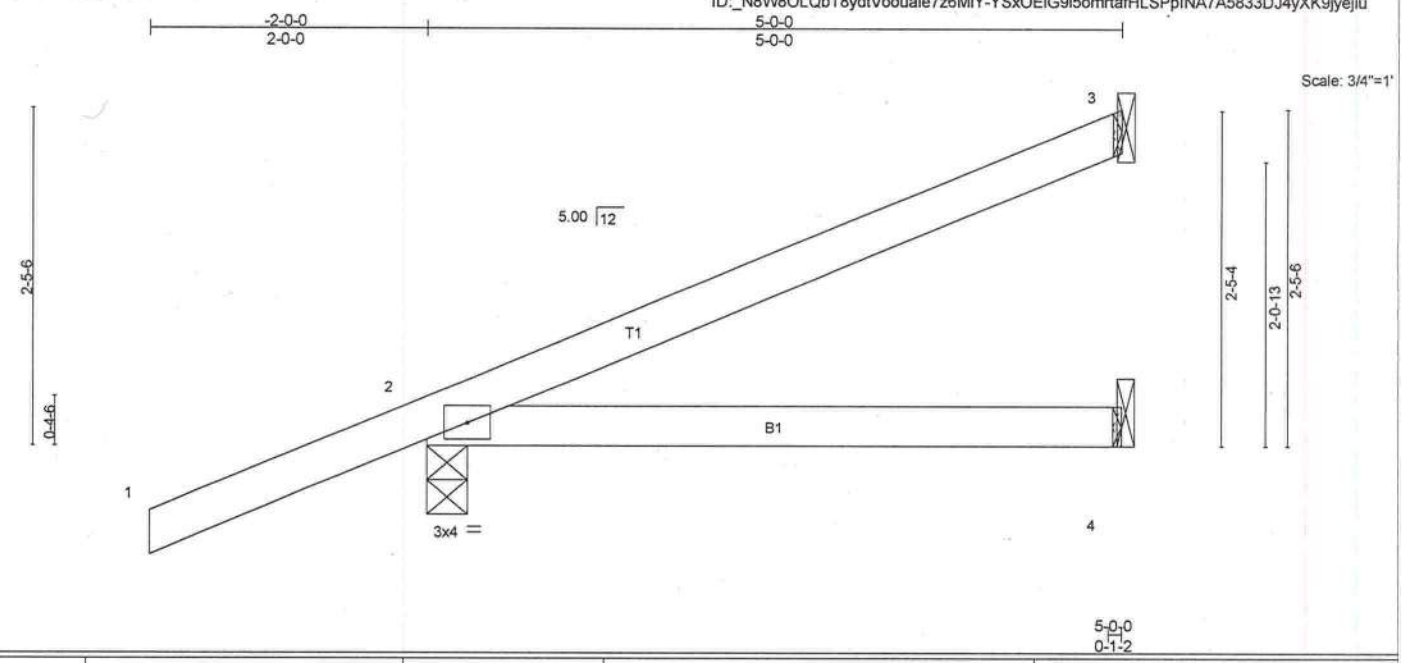

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=98/Mechanical, 2=301/0-3-8 (min. 0-1-8), 4=26/Mechanical
Max Horz 2=135(LC 12)
Max Uplift 3=-87(LC 12), 2=-206(LC 8), 4=-37(LC 9)
Max Grav 3=98(LC 1), 2=301(LC 1), 4=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/636
BOT CHORD 2-4=-915/477

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 206 lb uplift at joint 2 and 37 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	EJ01	Jack-Partial Truss	20	1	I1052038

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:57 2015 Page 1
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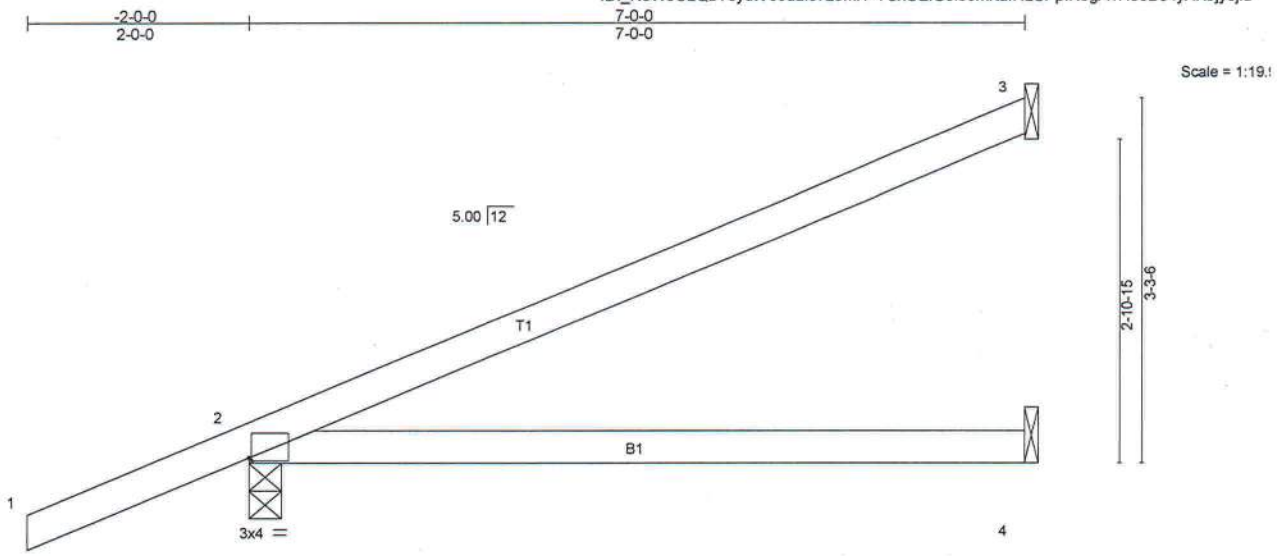

Plate Offsets (X,Y)-- [2:0-0-4,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.19	4-7	>446	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(TL)	0.15	4-7	>557	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=141/Mechanical, 2=376/0-3-8 (min. 0-1-8), 4=36/Mechanical
Max Horz 2=120(LC 12)
Max Uplift 3=-80(LC 12), 2=-193(LC 8), 4=-49(LC 9)
Max Grav 3=141(LC 1), 2=376(LC 1), 4=81(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-829/1671
BOT CHORD 2-4=-2271/1159

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 3, 193 lb uplift at joint 2 and 49 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	EJ02	Jack-Open Truss	4	1	I10520382

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:58 2015 Page 1

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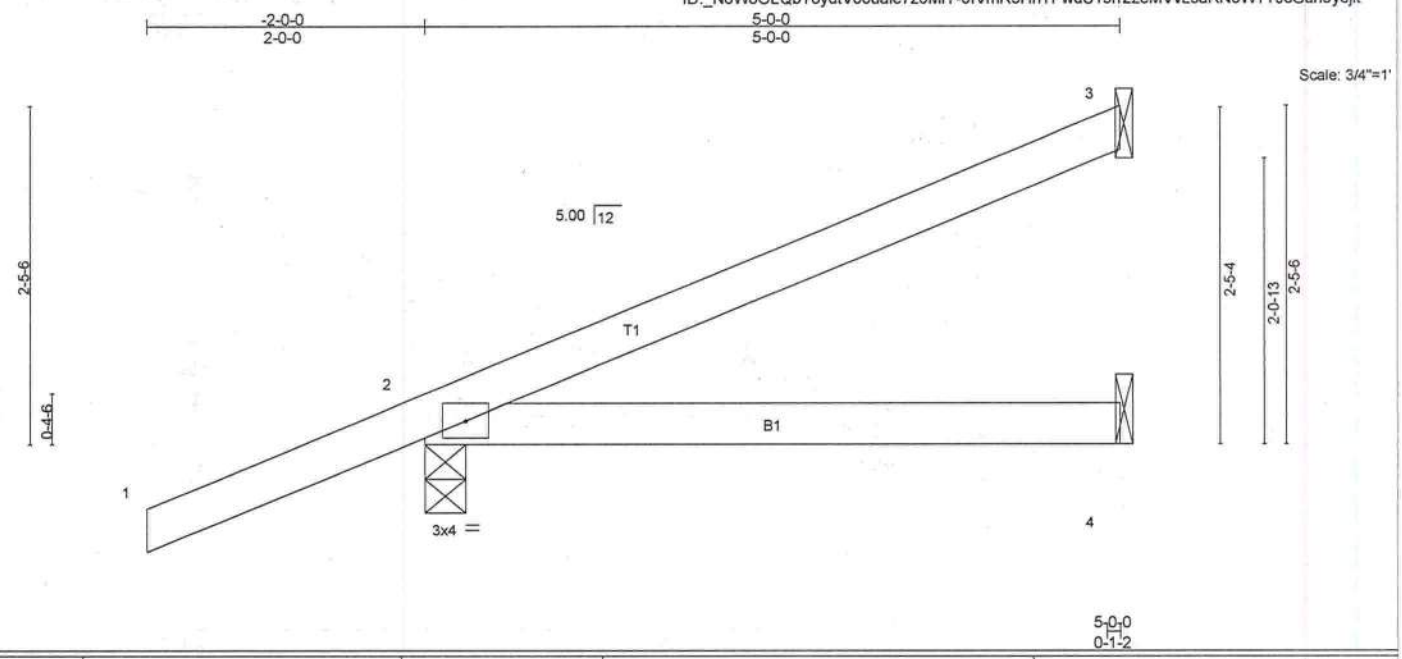

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=98/Mechanical, 2=301/0-3-8 (min. 0-1-8), 4=26/Mechanical
Max Horz 2=135(LC 12)
Max Uplift 3=-87(LC 12), 2=-206(LC 8), 4=-37(LC 9)
Max Grav 3=98(LC 1), 2=301(LC 1), 4=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/636
BOT CHORD 2-4=-915/477

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 206 lb uplift at joint 2 and 37 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	HJ01	Diagonal Hip Girder	5	1	I1052038

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:59 2015 Page 1
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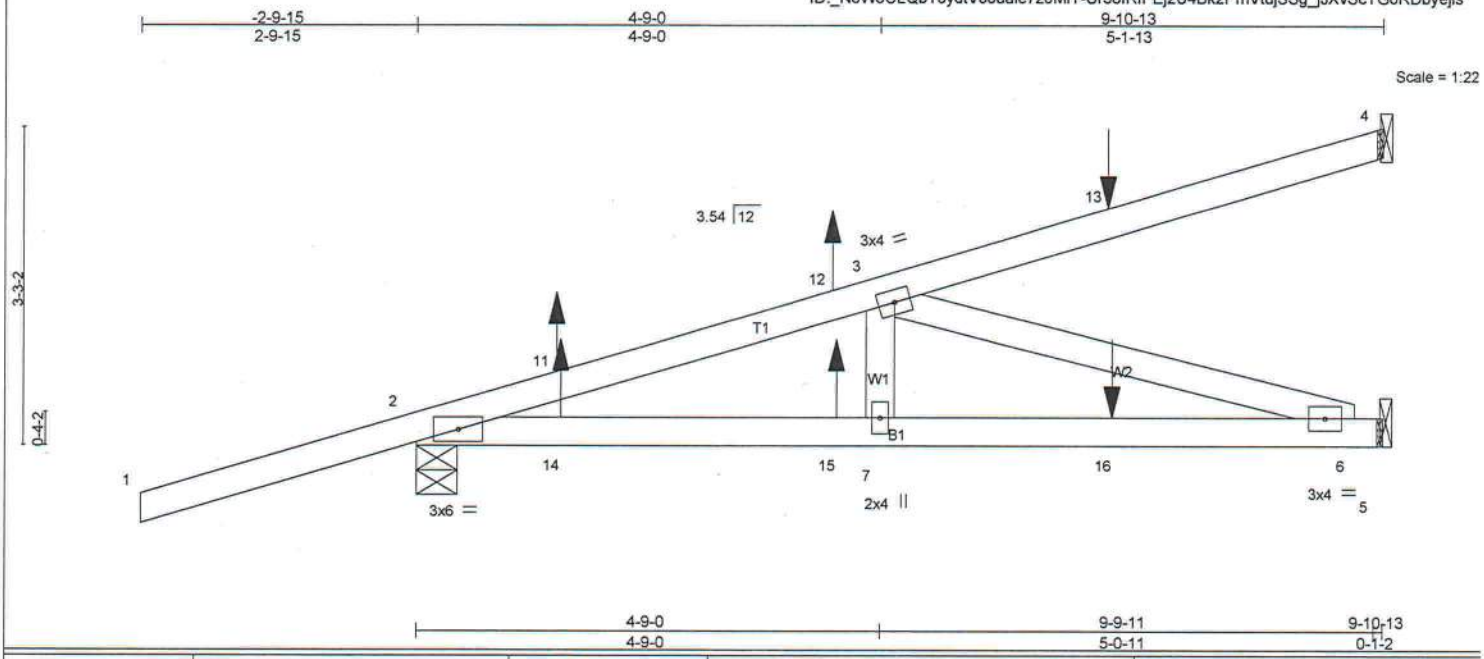

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.09	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(TL)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 44 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 7-8-6 oc bracing.

REACTIONS. (lb/size) 4=134/Mechanical, 2=392/0-4-15 (min. 0-1-8), 5=176/Mechanical
Max Horz 2=195(LC 4)
Max Uplift 4=-122(LC 4), 2=-287(LC 4), 5=-199(LC 5)
Max Grav 4=134(LC 1), 2=392(LC 1), 5=182(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-947/688, 11-12=-493/504, 3-12=-506/480
BOT CHORD 2-14=-749/933, 14-15=-524/498, 7-15=-524/498, 7-16=-524/498, 6-16=-524/498
WEBS 3-6=-520/547

NOTES- (9-11)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 4, 287 lb uplift at joint 2 and 199 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) 83 lb down and 100 lb up at 1-5-12, 83 lb down and 100 lb up at 1-5-12, 64 lb down and 46 lb up at 4-3-11, 64 lb down and 46 lb up at 4-3-11, and 63 lb down and 87 lb up at 7-1-10, and 63 lb down and 87 lb up at 7-1-10 on top chord, and 66 lb down and 55 lb up at 1-5-12, 66 lb down and 55 lb up at 1-5-12, 37 lb down and 36 lb up at 4-3-11, 37 lb down and 36 lb up at 4-3-11, and 44 lb down and 52 lb up at 7-1-10, and 44 lb down and 52 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)
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-10
Concentrated Loads (lb)
Vert: 11=46(F=23, B=23) 12=51(F=26, B=26) 13=-43(F=-21, B=-21) 14=43(F=21, B=21) 15=6(F=3, B=3) 16=-23(F=-11, B=-11)

September 11,2015

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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.

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Boynton Beach,FL 33435

LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-44, 5-8=-10
   Concentrated Loads (lb)
   Vert: 11=46(F=23, B=23) 12=41(F=20, B=20) 13=-36(F=-18, B=-18) 14=43(F=21, B=21) 15=6(F=3, B=3) 16=-20(F=-10, B=-10)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-14, 5-8=-30
   Concentrated Loads (lb)
   Vert: 11=46(F=23, B=23) 12=3(F=1, B=1) 13=-22(F=-11, B=-11) 14=79(F=40, B=40) 15=19(F=9, B=9) 16=-31(F=-15, B=-15)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=56, 2-4=40, 5-8=17
   Horz: 1-2=-65, 2-4=-49
   Concentrated Loads (lb)
   Vert: 11=-118(F=-59, B=-59) 12=-22(F=-11, B=-11) 13=59(F=30, B=30) 14=-61(F=-30, B=-30) 15=-6(F=-3, B=-3) 16=26(F=13, B=13)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=17, 2-4=24, 5-8=17
   Horz: 1-2=-25, 2-4=-32
   Concentrated Loads (lb)
   Vert: 11=-72(F=-36, B=-36) 12=24(F=12, B=12) 13=105(F=53, B=53) 14=-61(F=-30, B=-30) 15=-6(F=-3, B=-3) 16=26(F=13, B=13)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=28, 2-4=21, 5-8=13
   Horz: 1-2=-42, 2-4=-35
   Concentrated Loads (lb)
   Vert: 11=-62(F=-31, B=-31) 12=33(F=17, B=17) 13=115(F=57, B=57) 14=-50(F=-25, B=-25) 15=6(F=3, B=3) 16=38(F=19, B=19)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=11, 2-4=4, 5-8=13
   Horz: 1-2=-25, 2-4=-18
   Concentrated Loads (lb)
   Vert: 11=-16(F=-8, B=-8) 12=79(F=40, B=40) 13=161(F=80, B=80) 14=-50(F=-25, B=-25) 15=6(F=3, B=3) 16=38(F=19, B=19)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=33, 2-4=40, 5-8=-6
   Horz: 1-2=-42, 2-4=-49
   Concentrated Loads (lb)
   Vert: 11=-118(F=-59, B=-59) 12=-22(F=-11, B=-11) 13=59(F=30, B=30) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=12, 2-4=19, 5-8=-6
   Horz: 1-2=-21, 2-4=-28
   Concentrated Loads (lb)
   Vert: 11=-58(F=-29, B=-29) 12=37(F=19, B=19) 13=119(F=59, B=59) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=33, 2-4=40, 5-8=-6
   Horz: 1-2=-42, 2-4=-49
   Concentrated Loads (lb)
   Vert: 11=-118(F=-59, B=-59) 12=-22(F=-11, B=-11) 13=59(F=30, B=30) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=12, 2-4=19, 5-8=-6
   Horz: 1-2=-21, 2-4=-28
   Concentrated Loads (lb)
   Vert: 11=-58(F=-29, B=-29) 12=37(F=19, B=19) 13=119(F=59, B=59) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=28, 2-4=21, 5-8=-10
   Horz: 1-2=-42, 2-4=-35
   Concentrated Loads (lb)
   Vert: 11=-62(F=-31, B=-31) 12=33(F=17, B=17) 13=115(F=57, B=57) 14=16(F=8, B=8) 15=71(F=36, B=36) 16=103(F=52, B=52)
13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=7, 2-4=-0, 5-8=-10
   Horz: 1-2=-21, 2-4=-14
   Concentrated Loads (lb)
   Vert: 11=-3(F=-1, B=-1) 12=93(F=46, B=46) 13=174(F=87, B=87) 14=16(F=8, B=8) 15=71(F=36, B=36) 16=103(F=52, B=52)
14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-4=-14, 5-8=-10
   Concentrated Loads (lb)
   Vert: 11=46(F=23, B=23) 12=10(F=5, B=5) 13=-14(F=-7, B=-7) 14=43(F=21, B=21) 15=6(F=3, B=3) 16=-13(F=-6, B=-6)

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LOAD CASE(S)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 5-8=7
Horz: 1-2=-31, 2-4=-26
Concentrated Loads (lb)
Vert: 11=72(F=36, B=36) 12=30(F=15, B=15) 13=88(F=44, B=44) 14=12(F=6, B=6) 15=8(F=4, B=4) 16=23(F=12, B=12)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-4=-30, 5-8=7
Horz: 1-2=-19, 2-4=-14
Concentrated Loads (lb)
Vert: 11=107(F=53, B=53) 12=65(F=32, B=32) 13=123(F=61, B=61) 14=12(F=6, B=6) 15=8(F=4, B=4) 16=23(F=12, B=12)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 5-8=-10
Horz: 1-2=-31, 2-4=-26
Concentrated Loads (lb)
Vert: 11=72(F=36, B=36) 12=30(F=15, B=15) 13=88(F=44, B=44) 14=61(F=31, B=31) 15=57(F=29, B=29) 16=73(F=36, B=36)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-34, 5-8=-10
Horz: 1-2=-15, 2-4=-10
Concentrated Loads (lb)
Vert: 11=117(F=59, B=59) 12=75(F=37, B=37) 13=133(F=66, B=66) 14=61(F=31, B=31) 15=57(F=29, B=29) 16=73(F=36, B=36)

19) Reversal: Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-10
Concentrated Loads (lb)
Vert: 11=200(F=100, B=100) 12=10(F=5, B=5) 13=-14(F=-7, B=-7) 14=111(F=55, B=55) 15=6(F=3, B=3) 16=-13(F=-6, B=-6)

20) Reversal: Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44, 5-8=-10
Concentrated Loads (lb)
Vert: 11=161(F=81, B=81) 12=10(F=5, B=5) 13=-14(F=-7, B=-7) 14=94(F=47, B=47) 15=6(F=3, B=3) 16=-13(F=-6, B=-6)

21) Reversal: Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-14, 5-8=-10
Concentrated Loads (lb)
Vert: 11=46(F=23, B=23) 12=10(F=5, B=5) 13=-14(F=-7, B=-7) 14=43(F=21, B=21) 15=6(F=3, B=3) 16=-13(F=-6, B=-6)

22) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-4=40, 5-8=17
Horz: 1-2=-65, 2-4=-49
Concentrated Loads (lb)
Vert: 11=-166(F=-83, B=-83) 12=-127(F=-64, B=-64) 13=-126(F=-63, B=-63) 14=-132(F=-66, B=-66) 15=-73(F=-37, B=-37) 16=-88(F=-44, B=-44)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=24, 5-8=17
Horz: 1-2=-25, 2-4=-32
Concentrated Loads (lb)
Vert: 11=-120(F=-60, B=-60) 12=-81(F=-41, B=-41) 13=-80(F=-40, B=-40) 14=-132(F=-66, B=-66) 15=-73(F=-37, B=-37)
16=-88(F=-44, B=-44)

24) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=21, 5-8=13
Horz: 1-2=-42, 2-4=-35
Concentrated Loads (lb)
Vert: 11=-111(F=-55, B=-55) 12=-72(F=-36, B=-36) 13=-70(F=-35, B=-35) 14=-121(F=-61, B=-61) 15=-62(F=-31, B=-31)
16=-77(F=-38, B=-38)

25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-4=4, 5-8=13
Horz: 1-2=-25, 2-4=-18
Concentrated Loads (lb)
Vert: 11=-65(F=-32, B=-32) 12=-26(F=-13, B=-13) 13=-24(F=-12, B=-12) 14=-121(F=-61, B=-61) 15=-62(F=-31, B=-31)
16=-77(F=-38, B=-38)

26) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 5-8=-6
Horz: 1-2=-42, 2-4=-49
Concentrated Loads (lb)
Vert: 11=-166(F=-83, B=-83) 12=-127(F=-64, B=-64) 13=-126(F=-63, B=-63) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4)
16=-22(F=-11, B=-11)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 5-8=-6
Horz: 1-2=-21, 2-4=-28

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LOAD CASE(S)

Concentrated Loads (lb)
Vert: 11=-107(F=-53, B=-53) 12=-68(F=-34, B=-34) 13=-66(F=-33, B=-33) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4) 16=-22(F=-11, B=-11)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 5-8=-6
Horz: 1-2=-42, 2-4=-49
Concentrated Loads (lb)
Vert: 11=-166(F=-83, B=-83) 12=-127(F=-64, B=-64) 13=-126(F=-63, B=-63) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4) 16=-22(F=-11, B=-11)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 5-8=-6
Horz: 1-2=-21, 2-4=-28
Concentrated Loads (lb)
Vert: 11=-107(F=-53, B=-53) 12=-68(F=-34, B=-34) 13=-66(F=-33, B=-33) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4) 16=-22(F=-11, B=-11)

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=21, 5-8=-10
Horz: 1-2=-42, 2-4=-35
Concentrated Loads (lb)
Vert: 11=-111(F=-55, B=-55) 12=-72(F=-36, B=-36) 13=-70(F=-35, B=-35) 14=-56(F=-28, B=-28) 15=4(F=2, B=2) 16=-11(F=-6, B=-6)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-0, 5-8=-10
Horz: 1-2=-21, 2-4=-14
Concentrated Loads (lb)
Vert: 11=-51(F=-26, B=-26) 12=-12(F=-6, B=-6) 13=-11(F=-5, B=-5) 14=-56(F=-28, B=-28) 15=4(F=2, B=2) 16=-11(F=-6, B=-6)

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 5-8=7
Horz: 1-2=-31, 2-4=-26
Concentrated Loads (lb)
Vert: 11=-72(F=-36, B=-36) 12=-7(F=-4, B=-4) 13=-51(F=-26, B=-26) 14=-82(F=-41, B=-41) 15=-45(F=-22, B=-22) 16=-66(F=-33, B=-33)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-4=-30, 5-8=7
Horz: 1-2=-19, 2-4=-14
Concentrated Loads (lb)
Vert: 11=-38(F=-19, B=-19) 12=27(F=14, B=14) 13=-17(F=-8, B=-8) 14=-82(F=-41, B=-41) 15=-45(F=-22, B=-22) 16=-66(F=-33, B=-33)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 5-8=-10
Horz: 1-2=-31, 2-4=-26
Concentrated Loads (lb)
Vert: 11=-72(F=-36, B=-36) 12=-7(F=-4, B=-4) 13=-51(F=-26, B=-26) 14=-32(F=-16, B=-16) 15=4(F=2, B=2) 16=-17(F=-9, B=-9)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-34, 5-8=-10
Horz: 1-2=-15, 2-4=-10
Concentrated Loads (lb)
Vert: 11=-28(F=-14, B=-14) 12=37(F=19, B=19) 13=-7(F=-3, B=-3) 14=-32(F=-16, B=-16) 15=4(F=2, B=2) 16=-17(F=-9, B=-9)

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Job	Truss	Truss Type	Qty	Ply	
712357	HJ02	DIAGONAL HIP GIRDER	1	1	I10520384

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:00 2015 Page 1
ID:_N8W8OLQbT8ydtVoouale7z6MiY-z1dXsnI1?0ALiKJEyT06Rw?dQN6NGQymmwI_I2yejIr

-2-9-15 / 2-9-15 | 7-0-14 / 7-0-14

Scale = 1:18.0

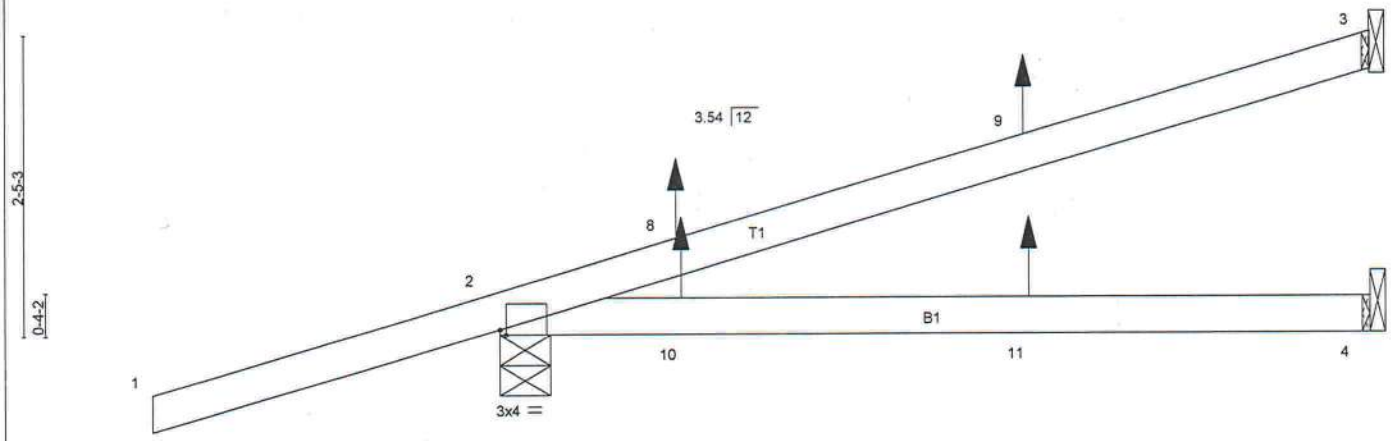

Plate Offsets (X,Y)-- [2:0-0-9,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.06	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	-0.08	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=110/Mechanical, 2=320/0-4-15 (min. 0-1-8), 4=25/Mechanical
Max Horz 2=155(LC 4)
Max Uplift 3=-97(LC 8), 2=-223(LC 4), 4=-42(LC 5)
Max Grav 3=116(LC 19), 2=320(LC 1), 4=65(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-1130/554
BOT CHORD 2-10=-569/1168

NOTES- (9-11)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 3, 223 lb uplift at joint 2 and 42 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 100 lb up at 1-5-12, 83 lb down and 100 lb up at 1-5-12, and 64 lb down and 46 lb up at 4-3-11, and 64 lb down and 46 lb up at 4-3-11 on top chord, and 66 lb down and 55 lb up at 1-5-12, 66 lb down and 55 lb up at 1-5-12, and 37 lb down and 36 lb up at 4-3-11, and 37 lb down and 36 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)
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-10
Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=51(F=26, B=26) 10=43(F=21, B=21) 11=6(F=3, B=3)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 4-5=-10

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LOAD CASE(S)

Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=41(F=20, B=20) 10=43(F=21, B=21) 11=6(F=3, B=3)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 4-5=-30
Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=3(F=1, B=1) 10=79(F=40, B=40) 11=19(F=9, B=9)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-3=40, 4-5=17
Horz: 1-2=-65, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-118(F=-59, B=-59) 9=-22(F=-11, B=-11) 10=-61(F=-30, B=-30) 11=-6(F=-3, B=-3)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-3=24, 4-5=17
Horz: 1-2=-25, 2-3=-32
Concentrated Loads (lb)
Vert: 8=-72(F=-36, B=-36) 9=24(F=12, B=12) 10=-61(F=-30, B=-30) 11=-6(F=-3, B=-3)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=13
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-62(F=-31, B=-31) 9=33(F=17, B=17) 10=-50(F=-25, B=-25) 11=6(F=3, B=3)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=4, 4-5=13
Horz: 1-2=-25, 2-3=-18
Concentrated Loads (lb)
Vert: 8=-16(F=-8, B=-8) 9=79(F=40, B=40) 10=-50(F=-25, B=-25) 11=6(F=3, B=3)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-3=40, 4-5=-6
Horz: 1-2=-42, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-118(F=-59, B=-59) 9=-22(F=-11, B=-11) 10=5(F=2, B=2) 11=60(F=30, B=30)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-58(F=-29, B=-29) 9=37(F=19, B=19) 10=5(F=2, B=2) 11=60(F=30, B=30)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-3=40, 4-5=-6
Horz: 1-2=-42, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-118(F=-59, B=-59) 9=-22(F=-11, B=-11) 10=5(F=2, B=2) 11=60(F=30, B=30)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-58(F=-29, B=-29) 9=37(F=19, B=19) 10=5(F=2, B=2) 11=60(F=30, B=30)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=-10
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-62(F=-31, B=-31) 9=33(F=17, B=17) 10=16(F=8, B=8) 11=71(F=36, B=36)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-3=-0, 4-5=-10
Horz: 1-2=-21, 2-3=-14
Concentrated Loads (lb)
Vert: 8=-3(F=-1, B=-1) 9=93(F=46, B=46) 10=16(F=8, B=8) 11=71(F=36, B=36)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 4-5=-10
Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=10(F=5, B=5) 10=43(F=21, B=21) 11=6(F=3, B=3)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=7
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=72(F=36, B=36) 9=30(F=15, B=15) 10=12(F=6, B=6) 11=8(F=4, B=4)

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LOAD CASE(S)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-30, 4-5=7
Horz: 1-2=-19, 2-3=-14
Concentrated Loads (lb)
Vert: 8=107(F=53, B=53) 9=65(F=32, B=32) 10=12(F=6, B=6) 11=8(F=4, B=4)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=-10
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=72(F=36, B=36) 9=30(F=15, B=15) 10=61(F=31, B=31) 11=57(F=29, B=29)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-34, 4-5=-10
Horz: 1-2=-15, 2-3=-10
Concentrated Loads (lb)
Vert: 8=117(F=59, B=59) 9=75(F=37, B=37) 10=61(F=31, B=31) 11=57(F=29, B=29)

19) Reversal: Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-10
Concentrated Loads (lb)
Vert: 8=200(F=100, B=100) 9=10(F=5, B=5) 10=111(F=55, B=55) 11=6(F=3, B=3)

20) Reversal: Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 4-5=-10
Concentrated Loads (lb)
Vert: 8=161(F=81, B=81) 9=10(F=5, B=5) 10=94(F=47, B=47) 11=6(F=3, B=3)

21) Reversal: Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 4-5=-10
Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=10(F=5, B=5) 10=43(F=21, B=21) 11=6(F=3, B=3)

22) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-3=40, 4-5=17
Horz: 1-2=-65, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-166(F=-83, B=-83) 9=-127(F=-64, B=-64) 10=-132(F=-66, B=-66) 11=-73(F=-37, B=-37)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-3=24, 4-5=17
Horz: 1-2=-25, 2-3=-32
Concentrated Loads (lb)
Vert: 8=-120(F=-60, B=-60) 9=-81(F=-41, B=-41) 10=-132(F=-66, B=-66) 11=-73(F=-37, B=-37)

24) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=13
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-111(F=-55, B=-55) 9=-72(F=-36, B=-36) 10=-121(F=-61, B=-61) 11=-62(F=-31, B=-31)

25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=4, 4-5=13
Horz: 1-2=-25, 2-3=-18
Concentrated Loads (lb)
Vert: 8=-65(F=-32, B=-32) 9=-26(F=-13, B=-13) 10=-121(F=-61, B=-61) 11=-62(F=-31, B=-31)

26) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-3=40, 4-5=-6
Horz: 1-2=-42, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-166(F=-83, B=-83) 9=-127(F=-64, B=-64) 10=-67(F=-33, B=-33) 11=-8(F=-4, B=-4)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-107(F=-53, B=-53) 9=-68(F=-34, B=-34) 10=-67(F=-33, B=-33) 11=-8(F=-4, B=-4)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-3=40, 4-5=-6
Horz: 1-2=-42, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-166(F=-83, B=-83) 9=-127(F=-64, B=-64) 10=-67(F=-33, B=-33) 11=-8(F=-4, B=-4)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-107(F=-53, B=-53) 9=-68(F=-34, B=-34) 10=-67(F=-33, B=-33) 11=-8(F=-4, B=-4)

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=-10
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-111(F=-55, B=-55) 9=-72(F=-36, B=-36) 10=-56(F=-28, B=-28) 11=4(F=2, B=2)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-3=-0, 4-5=-10
Horz: 1-2=-21, 2-3=-14
Concentrated Loads (lb)
Vert: 8=-51(F=-26, B=-26) 9=-12(F=-6, B=-6) 10=-56(F=-28, B=-28) 11=4(F=2, B=2)

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=7
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=-72(F=-36, B=-36) 9=-7(F=-4, B=-4) 10=-82(F=-41, B=-41) 11=-45(F=-22, B=-22)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-30, 4-5=7
Horz: 1-2=-19, 2-3=-14
Concentrated Loads (lb)
Vert: 8=-38(F=-19, B=-19) 9=27(F=14, B=14) 10=-82(F=-41, B=-41) 11=-45(F=-22, B=-22)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=-10
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=-72(F=-36, B=-36) 9=-7(F=-4, B=-4) 10=-32(F=-16, B=-16) 11=4(F=2, B=2)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-34, 4-5=-10
Horz: 1-2=-15, 2-3=-10
Concentrated Loads (lb)
Vert: 8=-28(F=-14, B=-14) 9=37(F=19, B=19) 10=-32(F=-16, B=-16) 11=4(F=2, B=2)

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Job	Truss	Truss Type	Qty	Ply	
712357	T03	COMMON TRUSS	10	1	I10520385

Job Reference (optional)

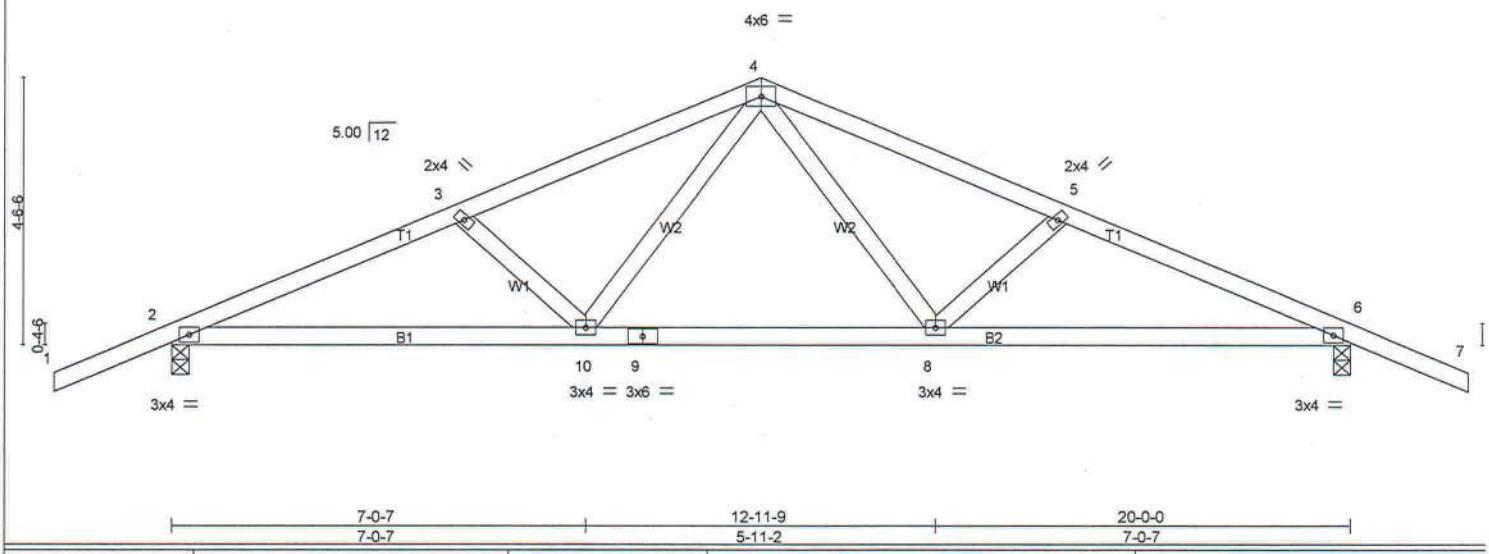
Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:01 2015 Page 1

ID:_N8W8OLQbT8ydtVoouale7z6MiY-RDAv46JfmKICJUuQWBXL_8XqRnK_?q3v?aVYIUyejlq

-2-0-0	4-11-10	10-0-0	15-0-7	20-0-0	22-0-0
2-0-0	4-11-10	5-0-7	5-0-7	4-11-9	2-0-0

Scale = 1:37.5



7-0-7	12-11-9	20-0-0
7-0-7	5-11-2	7-0-7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.19	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(TL)	-0.31	8-10	>785	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 92 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 4-3-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-2-9 oc bracing.

REACTIONS. (lb/size) 2=926/0-3-8 (min. 0-1-8), 6=926/0-3-8 (min. 0-1-8)
Max Horz 2=105(LC 12)
Max Uplift 2=-445(LC 12), 6=-445(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1813/1063, 3-4=-1628/976, 4-5=-1628/975, 5-6=-1813/1063
BOT CHORD 2-10=-863/1623, 9-10=-504/1103, 8-9=-504/1103, 6-8=-873/1628
WEBS 4-8=-317/563, 5-8=-278/257, 4-10=-318/563, 3-10=-278/257

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 2 and 445 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) 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) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S)
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-10, 8-10=-70(F=-60), 8-14=-10
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44, 4-7=-44, 10-11=-10, 8-10=-61(F=-51), 8-14=-10
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-14, 4-7=-14, 10-11=-30, 8-10=-71(F=-41), 8-14=-30
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=77, 2-4=45, 4-6=45, 6-7=38, 10-11=-6, 8-10=31(F=37), 8-14=-6
Horz: 1-2=-86, 2-4=-54, 4-6=54, 6-7=47

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-4=45, 4-6=45, 6-7=77, 10-11=-6, 8-10=31(F=37), 8-14=-6
Horz: 1-2=-47, 2-4=-54, 4-6=54, 6-7=86

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-4=-33, 4-6=-33, 6-7=-26, 10-11=-10, 8-10=-50(F=-40), 8-14=-10
Horz: 1-2=-12, 2-4=19, 4-6=-19, 6-7=-12

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-4=-33, 4-6=-33, 6-7=-2, 10-11=-10, 8-10=-50(F=-40), 8-14=-10
Horz: 1-2=12, 2-4=19, 4-6=-19, 6-7=12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=43, 2-4=27, 4-6=24, 6-7=17, 10-11=-6, 8-10=13(F=19), 8-14=-6
Horz: 1-2=-51, 2-4=-35, 4-6=32, 6-7=25

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=24, 4-6=27, 6-7=43, 10-11=-6, 8-10=13(F=19), 8-14=-6
Horz: 1-2=-25, 2-4=-32, 4-6=35, 6-7=51

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-4=7, 4-6=4, 6-7=11, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-28, 2-4=-21, 4-6=18, 6-7=25

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-4=4, 4-6=7, 6-7=14, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-25, 2-4=-18, 4-6=21, 6-7=28

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 4-6=19, 6-7=12, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-42, 2-4=-49, 4-6=28, 6-7=21

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 4-6=40, 6-7=33, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-21, 2-4=-28, 4-6=49, 6-7=42

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 4-6=19, 6-7=12, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-42, 2-4=-49, 4-6=28, 6-7=21

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 4-6=40, 6-7=33, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-21, 2-4=-28, 4-6=49, 6-7=42

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=21, 4-6=-0, 6-7=7, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-42, 2-4=-35, 4-6=14, 6-7=21

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-0, 4-6=21, 6-7=28, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-21, 2-4=-14, 4-6=35, 6-7=42

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-14, 4-7=-14, 10-11=-10, 8-10=-33(F=-23), 8-14=-10

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 C-C Wind (Neg. Int) Case 1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-4=-58, 4-6=-58, 6-7=-53, 10-11=-10, 8-10=-74(F=-64), 8-14=-10
Horz: 1-2=-9, 2-4=14, 4-6=-14, 6-7=-9

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 C-C Wind (Neg. Int) Case 2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-4=-58, 4-6=-58, 6-7=-35, 10-11=-10, 8-10=-74(F=-64), 8-14=-10
Horz: 1-2=9, 2-4=14, 4-6=-14, 6-7=9

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-23, 2-4=-28, 4-6=-30, 6-7=-25, 10-11=-10, 8-10=-66(F=-56), 8-14=-10
Horz: 1-2=-21, 2-4=-16, 4-6=14, 6-7=19

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-4=-30, 4-6=-28, 6-7=-23, 10-11=-10, 8-10=-66(F=-56), 8-14=-10
Horz: 1-2=-19, 2-4=-14, 4-6=16, 6-7=21

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

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Boynton Beach,FL 33435

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 4-6=-34, 6-7=-29, 10-11=-10, 8-10=-66(F=-56), 8-14=-10
Horz: 1-2=-31, 2-4=-26, 4-6=10, 6-7=15

24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-34, 4-6=-18, 6-7=-13, 10-11=-10, 8-10=-66(F=-56), 8-14=-10
Horz: 1-2=-15, 2-4=-10, 4-6=26, 6-7=31

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-14, 10-11=-10, 8-10=-70(F=-60), 8-14=-10

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-14, 4-7=-54, 10-11=-10, 8-10=-70(F=-60), 8-14=-10

27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44, 4-7=-14, 10-11=-10, 8-10=-61(F=-51), 8-14=-10

28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-14, 4-7=-44, 10-11=-10, 8-10=-61(F=-51), 8-14=-10

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Job	Truss	Truss Type	Qty	Ply	
712357	T03G	Common Supported Gable	1	1	I10520386

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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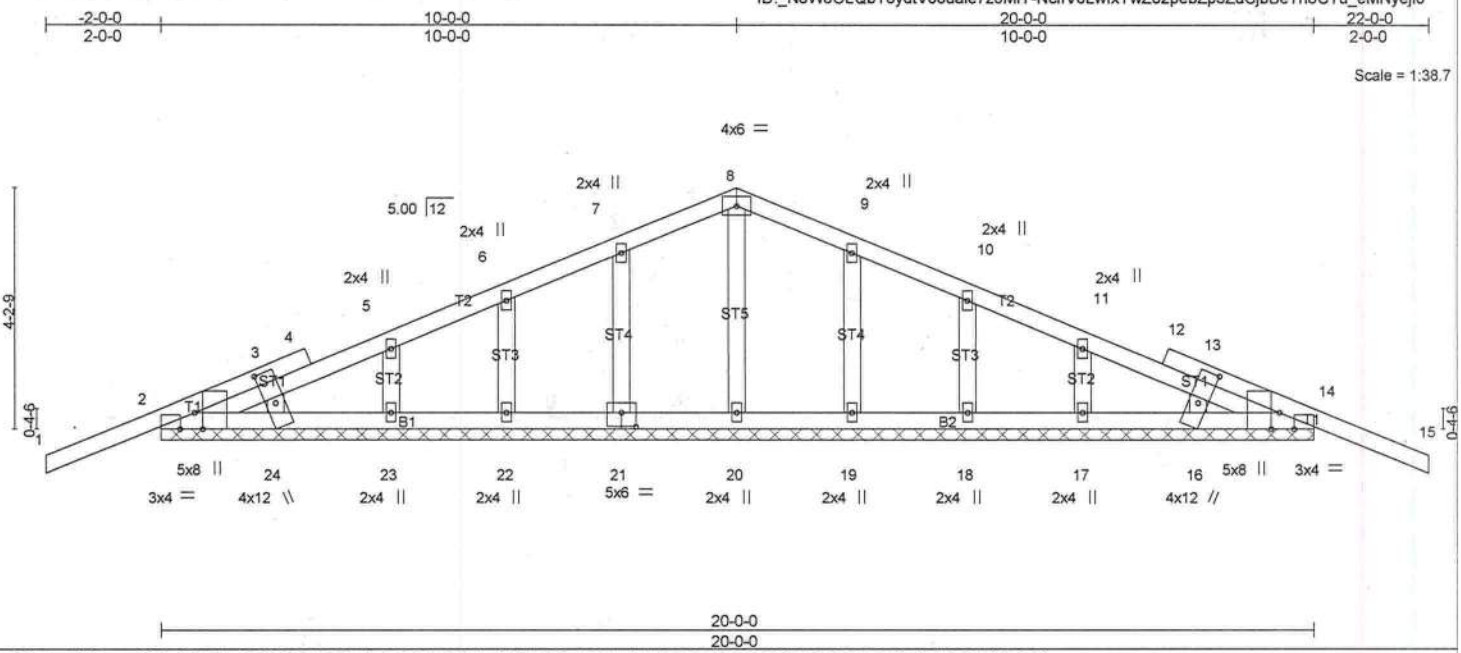

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-1,Edge], [14:0-3-8,Edge], [14:0-3-1,Edge], [16:0-6-14,0-2-0], [21:0-3-0,0-3-0], [24:0-6-14,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.03	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 99 lb	FT = 20%

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

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

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=-98(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 21, 22, 23, 24, 19, 18, 17, 16 except 2=-149(LC 8), 14=-154(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

NOTES- (10-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 22, 23, 24, 19, 18, 17, 16 except (jt=lb) 2=149, 14=154.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T04	Hip Truss	1	1	I1052038

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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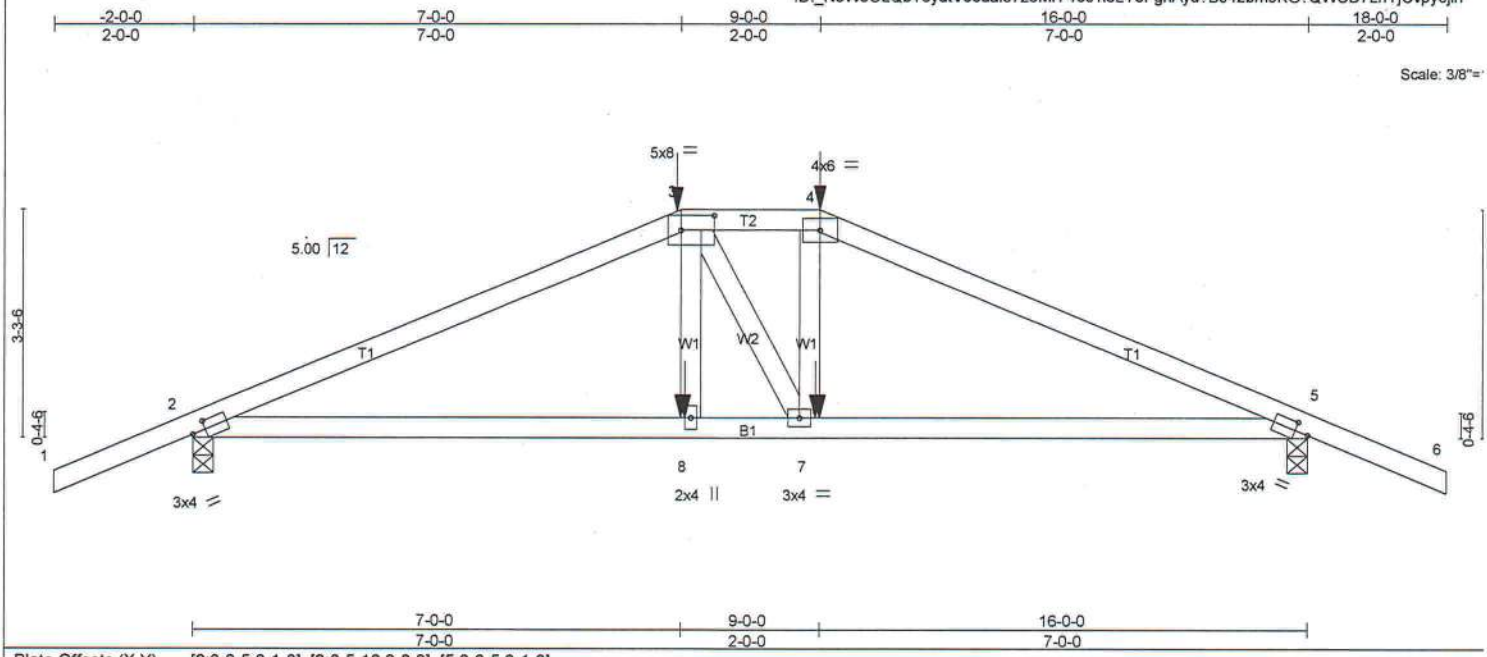

Plate Offsets (X,Y)— [2:0-2-5,0-1-8], [3:0-5-12,0-2-8], [5:0-2-5,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.09	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(TL)	-0.12	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(TL)	0.04	5	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 69 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 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-11-13 oc bracing.

REACTIONS. (lb/size) 2=920/0-3-8 (min. 0-1-8), 5=927/0-3-8 (min. 0-1-8)
Max Horz 2=-47(LC 32)
Max Uplift 2=-538(LC 8), 5=-551(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1494/1082, 3-4=-1337/1067, 4-5=-1513/1115
BOT CHORD 2-8=-953/1309, 7-8=-965/1320, 5-7=-961/1327
WEBS 3-8=-242/308, 4-7=-220/301

NOTES- (10-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=538, 5=551.
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) 87 lb down and 87 lb up at 7-0-0, and 145 lb down and 218 lb up at 9-0-0 on top chord, and 191 lb down and 274 lb up at 7-0-0, and 191 lb down and 274 lb up at 8-11-4 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

LOAD CASE(S)
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 4=-145(F) 8=-188(F) 7=-188(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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

September 11,2015

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

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44, 4-6=-44, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 4=-119(F) 8=-161(F) 7=-161(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-4=-14, 4-6=-14, 9-12=-30
Concentrated Loads (lb)
Vert: 3=-28(F) 4=-51(F) 8=-191(F) 7=-191(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-4=25, 4-5=17, 5-6=10, 9-12=-6
Horz: 1-2=-41, 2-3=-25, 4-5=25, 5-6=18
Concentrated Loads (lb)
Vert: 3=55(F) 4=141(F) 8=264(F) 7=264(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-4=25, 4-5=16, 5-6=32, 9-12=-6
Horz: 1-2=-18, 2-3=-25, 4-5=25, 5-6=41
Concentrated Loads (lb)
Vert: 3=55(F) 4=141(F) 8=264(F) 7=264(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=6, 4-5=-3, 5-6=4, 9-12=-10
Horz: 1-2=-18, 2-3=-11, 4-5=11, 5-6=18
Concentrated Loads (lb)
Vert: 3=74(F) 4=188(F) 8=274(F) 7=274(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=6, 4-5=-3, 5-6=4, 9-12=-10
Horz: 1-2=-18, 2-3=-11, 4-5=11, 5-6=18
Concentrated Loads (lb)
Vert: 3=74(F) 4=188(F) 8=274(F) 7=274(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-4=-7, 4-5=-7, 5-6=0, 9-12=-10
Horz: 1-2=-27, 2-3=-20, 4-5=7, 5-6=14
Concentrated Loads (lb)
Vert: 3=87(F) 4=218(F) 8=274(F) 7=274(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-4=-7, 4-5=6, 5-6=13, 9-12=-10
Horz: 1-2=-14, 2-3=-7, 4-5=20, 5-6=27
Concentrated Loads (lb)
Vert: 3=87(F) 4=218(F) 8=274(F) 7=274(F)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 3-4=-14, 4-6=-14, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-24(F) 4=-42(F) 8=-82(F) 7=-82(F)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

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Boynton Beach,FL 33435

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-4=-29, 4-5=-36, 5-6=-30, 9-12=-10
Horz: 1-2=-13, 2-3=-8, 4-5=8, 5-6=14
Concentrated Loads (lb)
Vert: 3=53(F) 4=138(F) 8=147(F) 7=147(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-4=-29, 4-5=-36, 5-6=-31, 9-12=-10
Horz: 1-2=-14, 2-3=-8, 4-5=8, 5-6=13
Concentrated Loads (lb)
Vert: 3=53(F) 4=138(F) 8=147(F) 7=147(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-4=-38, 4-5=-38, 5-6=-33, 9-12=-10
Horz: 1-2=-20, 2-3=-15, 4-5=6, 5-6=11
Concentrated Loads (lb)
Vert: 3=63(F) 4=161(F) 8=147(F) 7=147(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-4=-38, 4-5=-29, 5-6=-24, 9-12=-10
Horz: 1-2=-11, 2-3=-6, 4-5=15, 5-6=20
Concentrated Loads (lb)
Vert: 3=63(F) 4=161(F) 8=147(F) 7=147(F)

19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-14, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 4=-145(F) 8=-188(F) 7=-188(F)

20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-4=-54, 4-6=-54, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 4=-145(F) 8=-188(F) 7=-188(F)

21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44, 4-6=-14, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 4=-119(F) 8=-161(F) 7=-161(F)

22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-4=-44, 4-6=-44, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 4=-119(F) 8=-161(F) 7=-161(F)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-4=25, 4-5=17, 5-6=10, 9-12=-6
Horz: 1-2=-41, 2-3=-25, 4-5=25, 5-6=18
Concentrated Loads (lb)
Vert: 3=-52(F) 4=-103(F) 8=-96(F) 7=-96(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-4=25, 4-5=16, 5-6=32, 9-12=-6
Horz: 1-2=-18, 2-3=-25, 4-5=25, 5-6=41
Concentrated Loads (lb)
Vert: 3=-52(F) 4=-103(F) 8=-96(F) 7=-96(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=6, 4-5=-3, 5-6=4, 9-12=-10
Horz: 1-2=-18, 2-3=-11, 4-5=11, 5-6=18
Concentrated Loads (lb)
Vert: 3=-33(F) 4=-55(F) 8=-86(F) 7=-86(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=6, 4-5=-3, 5-6=4, 9-12=-10
Horz: 1-2=-18, 2-3=-11, 4-5=11, 5-6=18
Concentrated Loads (lb)
Vert: 3=-33(F) 4=-55(F) 8=-86(F) 7=-86(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27

Continued on page 4

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1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27
Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-4=-7, 4-5=-7, 5-6=0, 9-12=-10
Horz: 1-2=-27, 2-3=-20, 4-5=7, 5-6=14
Concentrated Loads (lb)
Vert: 3=-20(F) 4=-25(F) 8=-86(F) 7=-86(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-4=-7, 4-5=6, 5-6=13, 9-12=-10
Horz: 1-2=-14, 2-3=-7, 4-5=20, 5-6=27
Concentrated Loads (lb)
Vert: 3=-20(F) 4=-25(F) 8=-86(F) 7=-86(F)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-4=-29, 4-5=-36, 5-6=-30, 9-12=-10
Horz: 1-2=-13, 2-3=-8, 4-5=8, 5-6=14
Concentrated Loads (lb)
Vert: 3=-58(F) 4=-87(F) 8=-132(F) 7=-132(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-4=-29, 4-5=-36, 5-6=-31, 9-12=-10
Horz: 1-2=-14, 2-3=-8, 4-5=8, 5-6=13
Concentrated Loads (lb)
Vert: 3=-58(F) 4=-87(F) 8=-132(F) 7=-132(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-4=-38, 4-5=-38, 5-6=-33, 9-12=-10
Horz: 1-2=-20, 2-3=-15, 4-5=6, 5-6=11
Concentrated Loads (lb)
Vert: 3=-49(F) 4=-65(F) 8=-132(F) 7=-132(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-4=-38, 4-5=-29, 5-6=-24, 9-12=-10
Horz: 1-2=-11, 2-3=-6, 4-5=15, 5-6=20
Concentrated Loads (lb)
Vert: 3=-49(F) 4=-65(F) 8=-132(F) 7=-132(F)

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Job	Truss	Truss Type	Qty	Ply	
712357	T05	Common Truss	2	1	I10520388

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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ID:_N8W8OLQbT8ydtVoouale7z6MiY-J?QQvUMAqZoeo6BBl0cH8_iTeOmwxfPVwCTlRFyejlm

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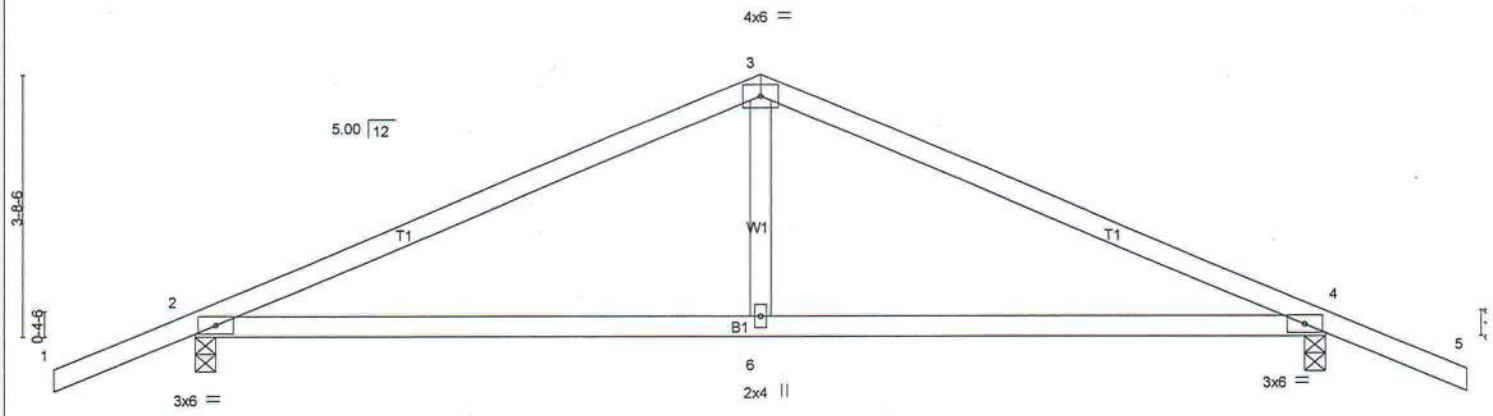

8-0-0 8-0-0 | 16-0-0 8-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.16	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(TL)	0.13	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 61 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 5-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-11 oc bracing.

REACTIONS. (lb/size) 2=620/0-3-8 (min. 0-1-8), 4=620/0-3-8 (min. 0-1-8)
Max Horz 2=52(LC 16)
Max Uplift 2=-335(LC 8), 4=-335(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-968/1696, 3-4=-970/1700
BOT CHORD 2-6=-2028/1242, 4-6=-2051/1252
WEBS 3-6=-473/243

NOTES- (7-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=335, 4=335.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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.

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Job	Truss	Truss Type	Qty	Ply	
712357	T06	Hip Truss	1	1	I10520389

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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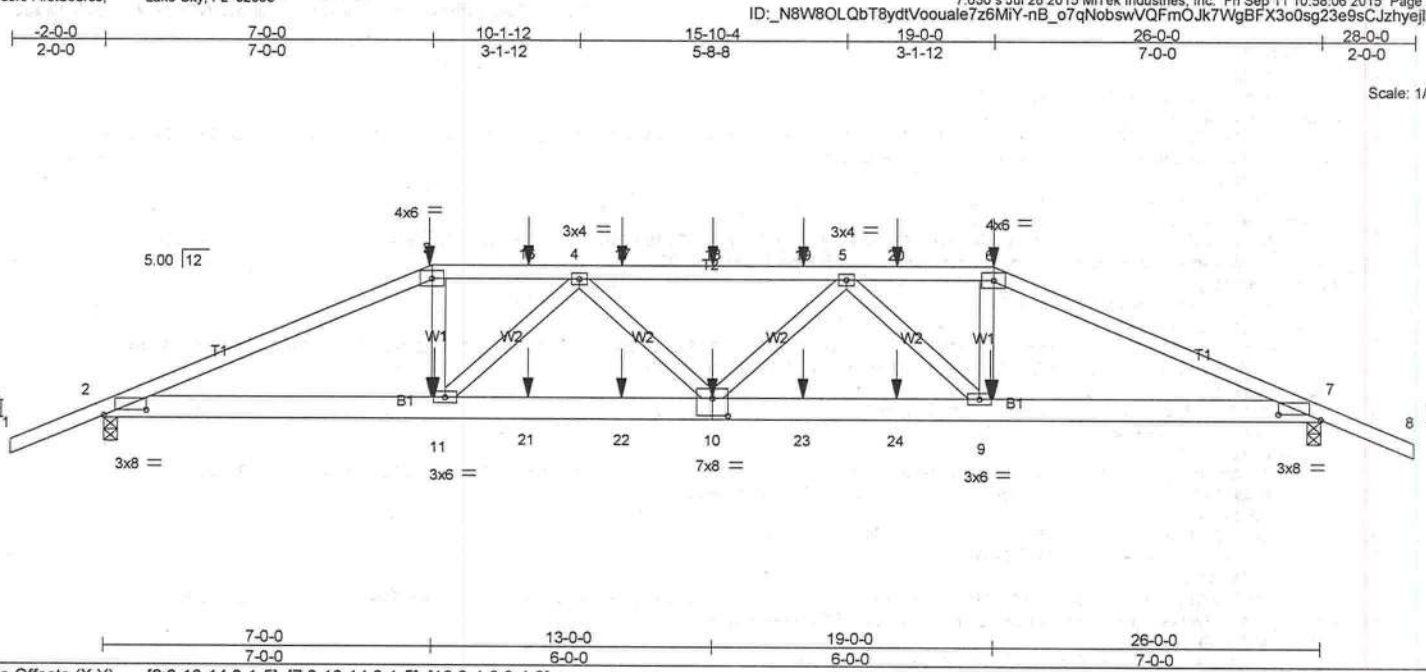

Plate Offsets (X,Y)-- [2:0-10-14,0-1-5], [7:0-10-14,0-1-5], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	0.31	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(TL)	-0.42	10	>749	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(TL)	0.10	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 138 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-10-13 oc bracing.

REACTIONS. (lb/size) 2=1511/0-3-8 (min. 0-1-13), 7=1538/0-3-8 (min. 0-1-13)
Max Horz 2=-47(LC 28)
Max Uplift 2=-873(LC 4), 7=-915(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3139/2013, 3-16=-2878/1910, 4-16=-2878/1910, 4-17=-3511/2372, 17-18=-3511/2372, 18-19=-3511/2372, 5-19=-3511/2372, 5-20=-2940/2018, 6-20=-2940/2018, 6-7=-3208/2124
BOT CHORD 2-11=-1802/2834, 11-21=-2182/3440, 21-22=-2182/3440, 10-22=-2182/3440, 10-23=-2233/3470, 23-24=-2233/3470, 9-24=-2233/3470, 7-9=-1883/2897
WEBS 3-11=-645/903, 4-11=-872/523, 5-9=-829/458, 6-9=-599/872

NOTES- (10-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=873, 7=915.
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) 87 lb down and 87 lb up at 7-0-0, 87 lb down and 87 lb up at 9-0-12, 87 lb down and 87 lb up at 11-0-12, 87 lb down and 87 lb up at 13-0-0, 87 lb down and 87 lb up at 14-11-4, and 87 lb down and 87 lb up at 16-11-4, and 145 lb down and 218 lb up at 19-0-0 on top chord, and 191 lb down and 274 lb up at 7-0-0, 51 lb down and 59 lb up at 9-0-12, 51 lb down and 59 lb up at 11-0-12, 51 lb down and 59 lb up at 13-0-0, 51 lb down and 59 lb up at 14-11-4, and 51 lb down and 59 lb up at 16-11-4, and 191 lb down and 274 lb up at 18-11-4 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

LOAD CASE(S)
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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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 responsibillity 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.

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 6-8=-54, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 6=-145(F) 10=-26(F) 11=-188(F) 9=-188(F) 16=-87(F) 17=-87(F) 18=-87(F) 19=-87(F) 20=-87(F) 21=-26(F) 22=-26(F) 23=-26(F) 24=-26(F)

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-6=-44, 6-8=-44, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 6=-119(F) 10=-24(F) 11=-161(F) 9=-161(F) 16=-71(F) 17=-71(F) 18=-71(F) 19=-71(F) 20=-71(F) 21=-24(F) 22=-24(F) 23=-24(F) 24=-24(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-14, 6-8=-14, 2-7=-30
Concentrated Loads (lb)
Vert: 3=-28(F) 6=-51(F) 10=-51(F) 11=-191(F) 9=-191(F) 16=-28(F) 17=-28(F) 18=-28(F) 19=-28(F) 20=-28(F) 21=-51(F) 22=-51(F) 23=-51(F) 24=-51(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-6=25, 6-7=17, 7-8=10, 2-7=-6
Horz: 1-2=-41, 2-3=-25, 6-7=25, 7-8=18
Concentrated Loads (lb)
Vert: 3=55(F) 6=141(F) 10=55(F) 11=264(F) 9=264(F) 16=55(F) 17=55(F) 18=55(F) 19=55(F) 20=55(F) 21=55(F) 22=55(F) 23=55(F) 24=55(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-6=25, 6-7=16, 7-8=32, 2-7=-6
Horz: 1-2=-18, 2-3=-25, 6-7=25, 7-8=41
Concentrated Loads (lb)
Vert: 3=55(F) 6=141(F) 10=55(F) 11=264(F) 9=264(F) 16=55(F) 17=55(F) 18=55(F) 19=55(F) 20=55(F) 21=55(F) 22=55(F) 23=55(F) 24=55(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-6=6, 6-7=-3, 7-8=4, 2-7=-10
Horz: 1-2=-18, 2-3=-11, 6-7=11, 7-8=18
Concentrated Loads (lb)
Vert: 3=74(F) 6=188(F) 10=59(F) 11=274(F) 9=274(F) 16=74(F) 17=74(F) 18=74(F) 19=74(F) 20=74(F) 21=59(F) 22=59(F) 23=59(F) 24=59(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-6=6, 6-7=-3, 7-8=4, 2-7=-10
Horz: 1-2=-18, 2-3=-11, 6-7=11, 7-8=18
Concentrated Loads (lb)
Vert: 3=74(F) 6=188(F) 10=59(F) 11=274(F) 9=274(F) 16=74(F) 17=74(F) 18=74(F) 19=74(F) 20=74(F) 21=59(F) 22=59(F) 23=59(F) 24=59(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-6=13, 6-7=13, 7-8=6, 2-7=-6
Horz: 1-2=-27, 2-3=-34, 6-7=21, 7-8=14
Concentrated Loads (lb)
Vert: 3=67(F) 6=171(F) 10=55(F) 11=264(F) 9=264(F) 16=67(F) 17=67(F) 18=67(F) 19=67(F) 20=67(F) 21=55(F) 22=55(F) 23=55(F) 24=55(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-6=13, 6-7=25, 7-8=18, 2-7=-6
Horz: 1-2=-14, 2-3=-21, 6-7=34, 7-8=27
Concentrated Loads (lb)
Vert: 3=67(F) 6=171(F) 10=55(F) 11=264(F) 9=264(F) 16=67(F) 17=67(F) 18=67(F) 19=67(F) 20=67(F) 21=55(F) 22=55(F) 23=55(F) 24=55(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-6=13, 6-7=13, 7-8=6, 2-7=-6
Horz: 1-2=-27, 2-3=-34, 6-7=21, 7-8=14
Concentrated Loads (lb)
Vert: 3=67(F) 6=171(F) 10=55(F) 11=264(F) 9=264(F) 16=67(F) 17=67(F) 18=67(F) 19=67(F) 20=67(F) 21=55(F) 22=55(F) 23=55(F) 24=55(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-6=13, 6-7=25, 7-8=18, 2-7=-6
Horz: 1-2=-14, 2-3=-21, 6-7=34, 7-8=27
Concentrated Loads (lb)
Vert: 3=67(F) 6=171(F) 10=55(F) 11=264(F) 9=264(F) 16=67(F) 17=67(F) 18=67(F) 19=67(F) 20=67(F) 21=55(F) 22=55(F) 23=55(F) 24=55(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-6=-7, 6-7=-7, 7-8=0, 2-7=-10
Horz: 1-2=-27, 2-3=-20, 6-7=7, 7-8=14
Concentrated Loads (lb)
Vert: 3=87(F) 6=218(F) 10=59(F) 11=274(F) 9=274(F) 16=87(F) 17=87(F) 18=87(F) 19=87(F) 20=87(F) 21=59(F) 22=59(F) 23=59(F) 24=59(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-6=-7, 6-7=6, 7-8=13, 2-7=-10
Horz: 1-2=-14, 2-3=-7, 6-7=20, 7-8=27

Continued on page 3

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 3=87(F) 6=218(F) 10=59(F) 11=274(F) 9=274(F) 16=87(F) 17=87(F) 18=87(F) 19=87(F) 20=87(F) 21=59(F) 22=59(F) 23=59(F) 24=59(F)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-14, 6-8=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-24(F) 6=-42(F) 10=-19(F) 11=-82(F) 9=-82(F) 16=-24(F) 17=-24(F) 18=-24(F) 19=-24(F) 20=-24(F) 21=-19(F) 22=-19(F) 23=-19(F) 24=-19(F)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-6=-29, 6-7=-36, 7-8=-30, 2-7=-10
Horz: 1-2=-13, 2-3=-8, 6-7=8, 7-8=14
Concentrated Loads (lb)
Vert: 3=53(F) 6=138(F) 10=39(F) 11=147(F) 9=147(F) 16=53(F) 17=53(F) 18=53(F) 19=53(F) 20=53(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-6=-29, 6-7=-36, 7-8=-31, 2-7=-10
Horz: 1-2=-14, 2-3=-8, 6-7=8, 7-8=13
Concentrated Loads (lb)
Vert: 3=53(F) 6=138(F) 10=39(F) 11=147(F) 9=147(F) 16=53(F) 17=53(F) 18=53(F) 19=53(F) 20=53(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-6=-38, 6-7=-38, 7-8=-33, 2-7=-10
Horz: 1-2=-20, 2-3=-15, 6-7=6, 7-8=11
Concentrated Loads (lb)
Vert: 3=63(F) 6=161(F) 10=39(F) 11=147(F) 9=147(F) 16=63(F) 17=63(F) 18=63(F) 19=63(F) 20=63(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-6=-38, 6-7=-29, 7-8=-24, 2-7=-10
Horz: 1-2=-11, 2-3=-6, 6-7=15, 7-8=20
Concentrated Loads (lb)
Vert: 3=63(F) 6=161(F) 10=39(F) 11=147(F) 9=147(F) 16=63(F) 17=63(F) 18=63(F) 19=63(F) 20=63(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 6-8=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 6=-145(F) 10=-26(F) 11=-188(F) 9=-188(F) 16=-87(F) 17=-87(F) 18=-87(F) 19=-87(F) 20=-87(F) 21=-26(F) 22=-26(F) 23=-26(F) 24=-26(F)

20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-54, 6-8=-54, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 6=-145(F) 10=-26(F) 11=-188(F) 9=-188(F) 16=-87(F) 17=-87(F) 18=-87(F) 19=-87(F) 20=-87(F) 21=-26(F) 22=-26(F) 23=-26(F) 24=-26(F)

21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-6=-44, 6-8=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 6=-119(F) 10=-24(F) 11=-161(F) 9=-161(F) 16=-71(F) 17=-71(F) 18=-71(F) 19=-71(F) 20=-71(F) 21=-24(F) 22=-24(F) 23=-24(F) 24=-24(F)

22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-44, 6-8=-44, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 6=-119(F) 10=-24(F) 11=-161(F) 9=-161(F) 16=-71(F) 17=-71(F) 18=-71(F) 19=-71(F) 20=-71(F) 21=-24(F) 22=-24(F) 23=-24(F) 24=-24(F)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-6=25, 6-7=17, 7-8=10, 2-7=-6
Horz: 1-2=-41, 2-3=-25, 6-7=25, 7-8=18
Concentrated Loads (lb)
Vert: 3=-52(F) 6=-103(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-52(F) 17=-52(F) 18=-52(F) 19=-52(F) 20=-52(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-6=25, 6-7=16, 7-8=32, 2-7=-6
Horz: 1-2=-18, 2-3=-25, 6-7=25, 7-8=41
Concentrated Loads (lb)
Vert: 3=-52(F) 6=-103(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-52(F) 17=-52(F) 18=-52(F) 19=-52(F) 20=-52(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-6=6, 6-7=-3, 7-8=4, 2-7=-10
Horz: 1-2=-18, 2-3=-11, 6-7=11, 7-8=18
Concentrated Loads (lb)
Vert: 3=-33(F) 6=-55(F) 10=-18(F) 11=-86(F) 9=-86(F) 16=-33(F) 17=-33(F) 18=-33(F) 19=-33(F) 20=-33(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-6=6, 6-7=-3, 7-8=4, 2-7=-10
Horz: 1-2=-18, 2-3=-11, 6-7=11, 7-8=18

Continued on page 4

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

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 3=-33(F) 6=-55(F) 10=-18(F) 11=-86(F) 9=-86(F) 16=-33(F) 17=-33(F) 18=-33(F) 19=-33(F) 20=-33(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-6=13, 6-7=13, 7-8=6, 2-7=-6
Horz: 1-2=-27, 2-3=-34, 6-7=21, 7-8=14
Concentrated Loads (lb)
Vert: 3=-40(F) 6=-73(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-40(F) 17=-40(F) 18=-40(F) 19=-40(F) 20=-40(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-6=13, 6-7=25, 7-8=18, 2-7=-6
Horz: 1-2=-14, 2-3=-21, 6-7=34, 7-8=27
Concentrated Loads (lb)
Vert: 3=-40(F) 6=-73(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-40(F) 17=-40(F) 18=-40(F) 19=-40(F) 20=-40(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-6=13, 6-7=13, 7-8=6, 2-7=-6
Horz: 1-2=-27, 2-3=-34, 6-7=21, 7-8=14
Concentrated Loads (lb)
Vert: 3=-40(F) 6=-73(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-40(F) 17=-40(F) 18=-40(F) 19=-40(F) 20=-40(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-6=13, 6-7=25, 7-8=18, 2-7=-6
Horz: 1-2=-14, 2-3=-21, 6-7=34, 7-8=27
Concentrated Loads (lb)
Vert: 3=-40(F) 6=-73(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-40(F) 17=-40(F) 18=-40(F) 19=-40(F) 20=-40(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-6=-7, 6-7=-7, 7-8=0, 2-7=-10
Horz: 1-2=-27, 2-3=-20, 6-7=7, 7-8=14
Concentrated Loads (lb)
Vert: 3=-20(F) 6=-25(F) 10=-18(F) 11=-86(F) 9=-86(F) 16=-20(F) 17=-20(F) 18=-20(F) 19=-20(F) 20=-20(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-6=-7, 6-7=6, 7-8=13, 2-7=-10
Horz: 1-2=-14, 2-3=-7, 6-7=20, 7-8=27
Concentrated Loads (lb)
Vert: 3=-20(F) 6=-25(F) 10=-18(F) 11=-86(F) 9=-86(F) 16=-20(F) 17=-20(F) 18=-20(F) 19=-20(F) 20=-20(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-6=-29, 6-7=-36, 7-8=-30, 2-7=-10
Horz: 1-2=-13, 2-3=-8, 6-7=8, 7-8=14
Concentrated Loads (lb)
Vert: 3=-58(F) 6=-87(F) 10=-22(F) 11=-132(F) 9=-132(F) 16=-58(F) 17=-58(F) 18=-58(F) 19=-58(F) 20=-58(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-6=-29, 6-7=-36, 7-8=-31, 2-7=-10
Horz: 1-2=-14, 2-3=-8, 6-7=8, 7-8=13
Concentrated Loads (lb)
Vert: 3=-58(F) 6=-87(F) 10=-22(F) 11=-132(F) 9=-132(F) 16=-58(F) 17=-58(F) 18=-58(F) 19=-58(F) 20=-58(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-6=-38, 6-7=-38, 7-8=-33, 2-7=-10
Horz: 1-2=-20, 2-3=-15, 6-7=6, 7-8=11
Concentrated Loads (lb)
Vert: 3=-49(F) 6=-65(F) 10=-22(F) 11=-132(F) 9=-132(F) 16=-49(F) 17=-49(F) 18=-49(F) 19=-49(F) 20=-49(F) 21=-22(F)
22=-22(F) 23=-22(F) 24=-22(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-6=-38, 6-7=-29, 7-8=-24, 2-7=-10
Horz: 1-2=-11, 2-3=-6, 6-7=15, 7-8=20
Concentrated Loads (lb)
Vert: 3=-49(F) 6=-65(F) 10=-22(F) 11=-132(F) 9=-132(F) 16=-49(F) 17=-49(F) 18=-49(F) 19=-49(F) 20=-49(F) 21=-22(F)
22=-22(F) 23=-22(F) 24=-22(F)

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

Job	Truss	Truss Type	Qty	Ply	
712357	T07	Hip Truss	1	1	I10520396

Builders FirstSource, Lake City, FL 32055

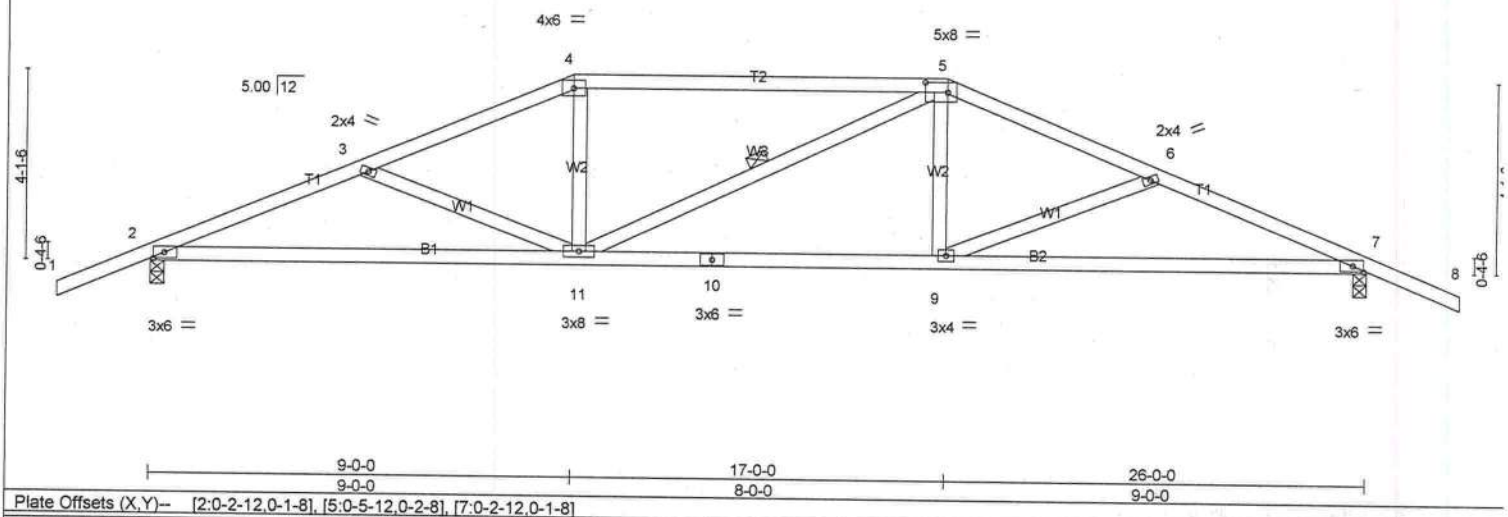
Job Reference (optional)

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:07 2015 Page 1

ID:_N8W8OLQbT8ydtVoouale7z6MiY-FNYAKAOQMA2L1PLatRelDPnmXCQfPYboNWysV8yejlk

-2-0-0	4-7-10	9-0-0	17-0-0	21-4-6	26-0-0	28-0-0
2-0-0	4-7-10	4-4-6	8-0-0	4-4-6	4-7-10	2-0-0

Scale: 1/4"=1



9-0-0	17-0-0	26-0-0
9-0-0	8-0-0	9-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.12	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(TL)	-0.23	9-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 123 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* T2: 2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-5-5 oc bracing.
WEBS	1 Row at midpt 5-11

REACTIONS. (lb/size) 2=940/0-3-8 (min. 0-1-8), 7=940/0-3-8 (min. 0-1-8)
Max Horz 2=-57(LC 13)
Max Uplift 2=-237(LC 8), 7=-237(LC 9)

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

TOP CHORD	2-3=-1745/1026, 3-4=-1480/856, 4-5=-1358/841, 5-6=-1480/856, 6-7=-1744/1026
BOT CHORD	2-11=-826/1560, 10-11=-600/1312, 9-10=-600/1312, 7-9=-840/1566
WEBS	3-11=-281/261, 4-11=-46/273, 5-9=-48/272, 6-9=-281/260

NOTES- (8-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=237, 7=237.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

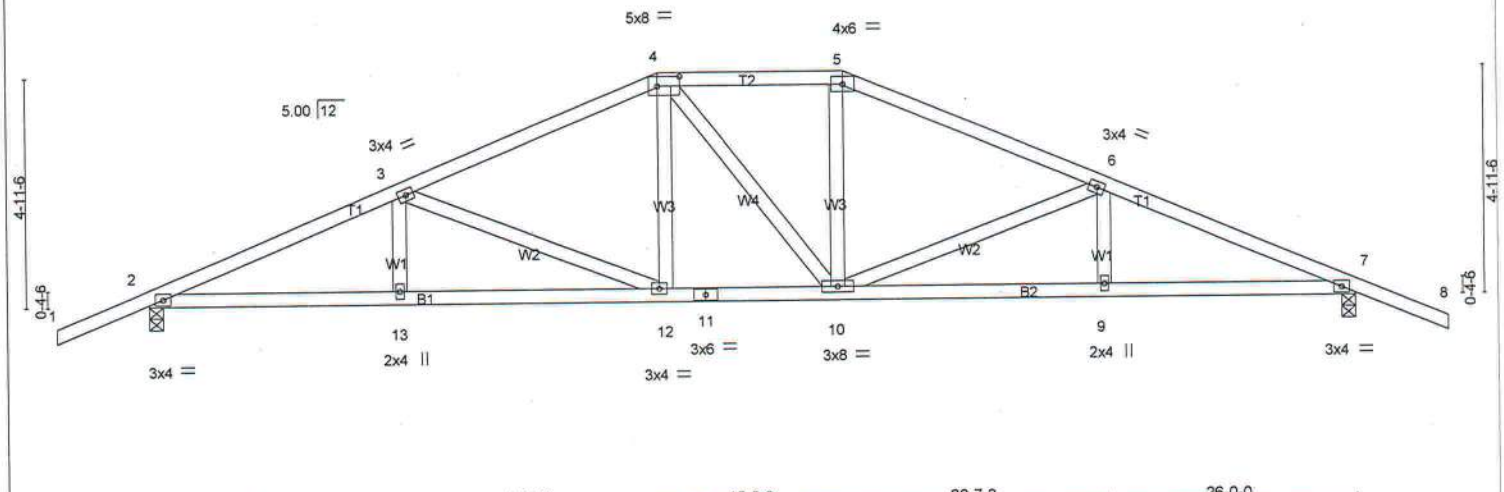
Job	Truss	Truss Type	Qty	Ply	I10520391
712357	T08	Hip Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:08 2015 Page 1
ID:_N8W8OLQbT8ydtVoouale7z6MiY-ka5YYWO27UACfZwmQ99_mcK1Bcol8yYxcAhP2ayejlj

-2-0-0 2-0-0 | 5-4-13 5-4-13 | 11-0-0 5-7-3 | 15-0-0 4-0-0 | 20-7-3 5-7-3 | 26-0-0 5-4-13 | 28-0-0 2-0-0

Scale: 1/4"=1'



5-4-13 5-4-13 | 11-0-0 5-7-3 | 15-0-0 4-0-0 | 20-7-3 5-7-3 | 26-0-0 5-4-13

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.10	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(TL)	-0.20	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 132 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 4-4-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-13 oc bracing.

REACTIONS. (lb/size) 2=940/0-3-8 (min. 0-1-8), 7=940/0-3-8 (min. 0-1-8)
Max Horz 2=-68(LC 13)
Max Uplift 2=-232(LC 12), 7=-232(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1765/995, 3-4=-1329/788, 4-5=-1202/780, 5-6=-1329/788, 6-7=-1764/994
BOT CHORD 2-13=-794/1576, 12-13=-794/1576, 11-12=-494/1144, 10-11=-494/1144, 9-10=-807/1582, 7-9=-807/1582
WEBS 3-12=-480/341, 4-12=-103/252, 5-10=-103/253, 6-10=-479/340

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=232, 7=232.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T09	Common Truss	2	1	I10520392

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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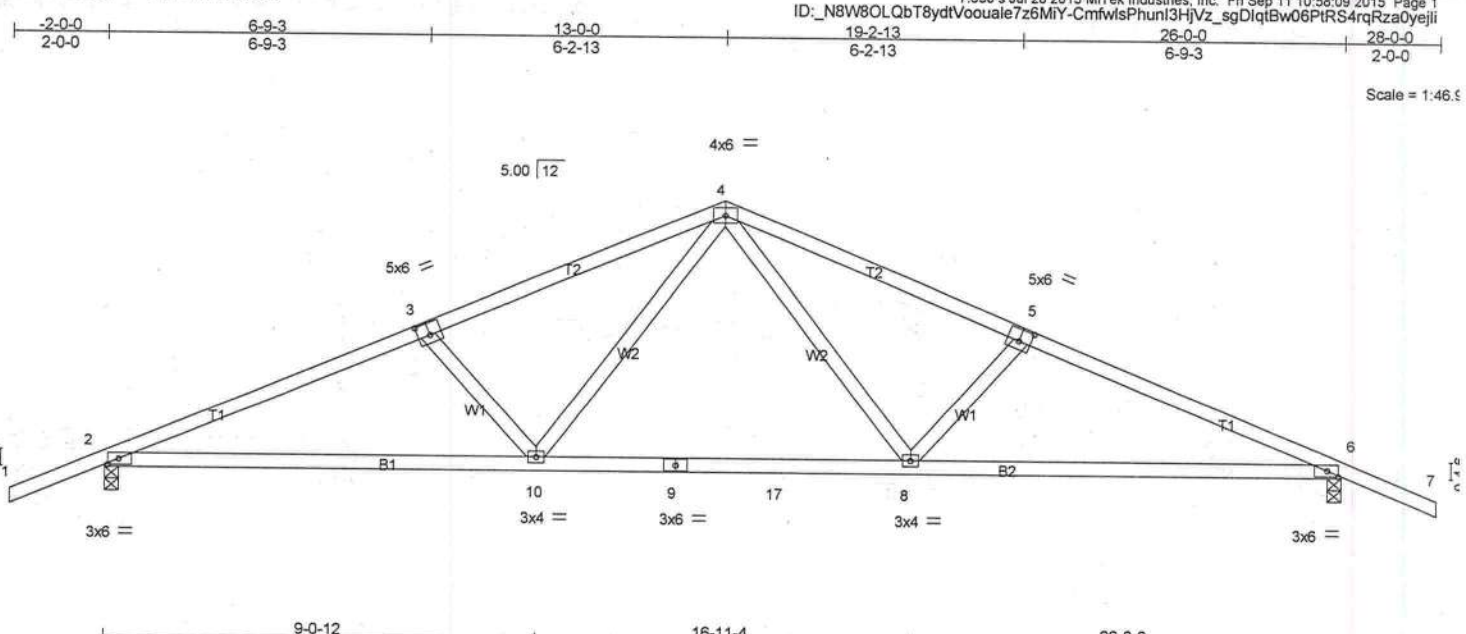

Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.16	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.27	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 117 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 4-2-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-8-3 oc bracing.

REACTIONS. (lb/size) 2=940/0-3-8 (min. 0-1-8), 6=940/0-3-8 (min. 0-1-8)
Max Horz 2=78(LC 16)
Max Uplift 2=-244(LC 12), 6=-244(LC 13)

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

TOP CHORD	2-3=-1779/989, 3-4=-1568/913, 4-5=-1569/913, 5-6=-1780/989
BOT CHORD	2-10=-778/1579, 9-10=-411/1045, 9-17=-411/1045, 8-17=-411/1045, 6-8=-784/1582
WEBS	4-8=-270/511, 5-8=-380/344, 4-10=-270/510, 3-10=-380/344

NOTES- (7-9)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=244, 6=244.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	I10520393
712357	T10	Scissor Truss	5	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:10 2015 Page 1
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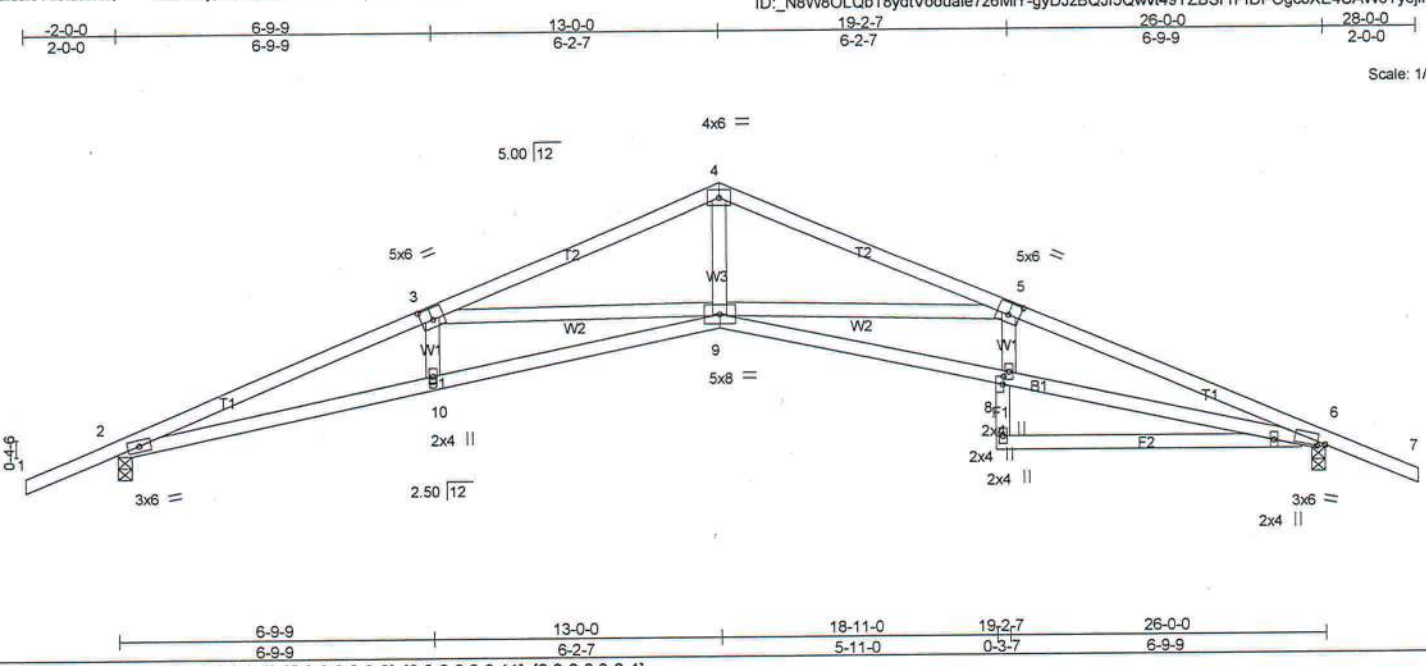

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-2-0,0-0-11], [8:0-2-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.34	9-10	>922	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(TL)	-0.67	9-10	>467	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.38	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
F2: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-12 oc bracing. Except:
4-10-0 oc bracing: 8-17

REACTIONS. (lb/size) 2=940/0-3-8 (min. 0-1-8), 6=940/0-3-8 (min. 0-1-8)
Max Horz 2=-78(LC 13)
Max Uplift 2=-243(LC 12), 6=-243(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3120/1658, 3-4=-2246/1162, 4-5=-2246/1163, 5-6=-3134/1688
BOT CHORD 2-10=-1423/2876, 9-10=-1427/2886, 8-9=-1460/2900, 6-8=-1457/2891
WEBS 4-9=-614/1326, 5-9=-857/622, 3-9=-859/626

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Bearing at joint(s) 2, 6 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 100 lb uplift at joint(s) except (jt=lb) 2=243, 6=243.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T11	SCISSOR TRUSS	3	1	I10520394

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:11 2015 Page 1

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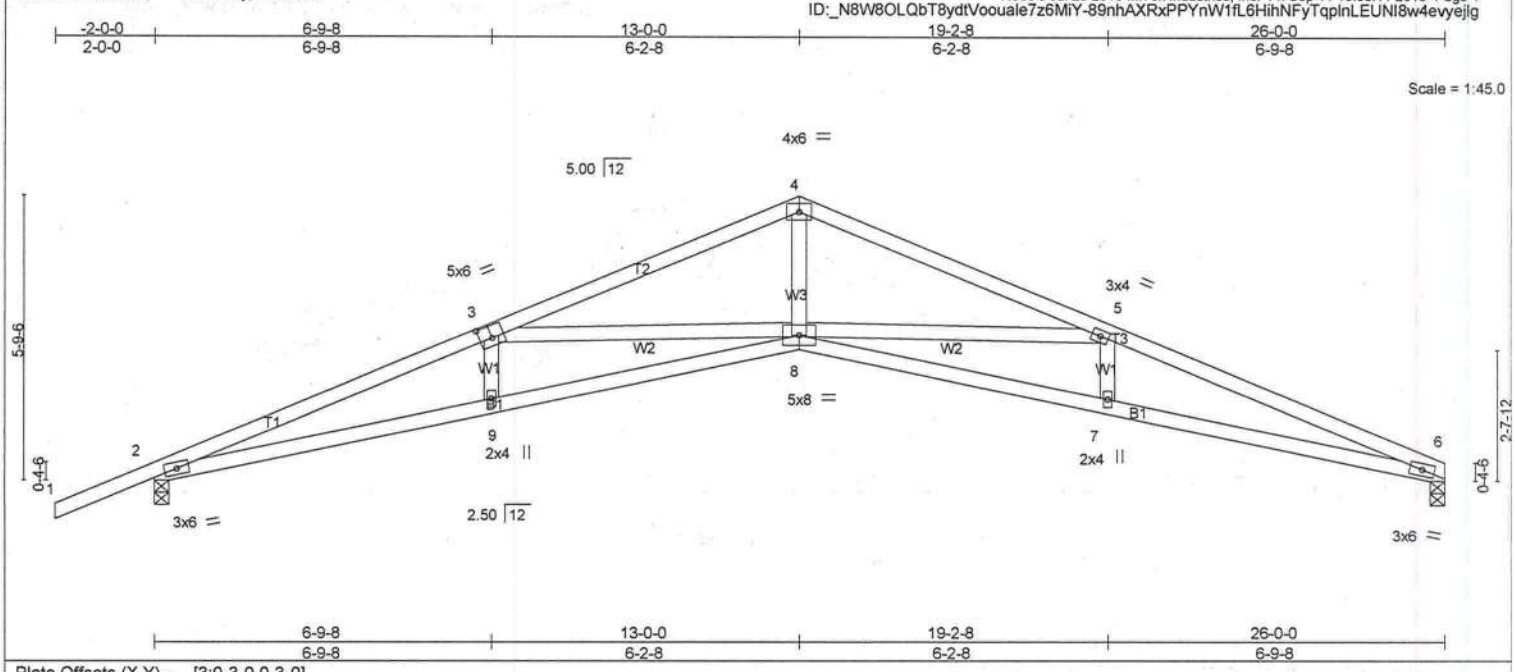

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.34	8-9	>914	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(TL)	-0.67	8-9	>464	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.38	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 110 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 2-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS. (lb/size) 6=829/0-3-8 (min. 0-1-8), 2=943/0-3-8 (min. 0-1-8)
Max Horz 2=90(LC 16)
Max Uplift 6=-205(LC 13), 2=-244(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3144/1750, 3-4=-2254/1228, 4-5=-2255/1229, 5-6=-3168/1780
BOT CHORD 2-9=-1554/2893, 8-9=-1558/2902, 7-8=-1589/2925, 6-7=-1586/2918
WEBS 4-8=-668/1336, 5-8=-882/650, 3-8=-859/619

NOTES- (8-10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Bearing at joint(s) 6, 2 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 100 lb uplift at joint(s) except (jt=lb) 6=205, 2=244.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T12	Common Truss	5	1	I1052039

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:12 2015 Page 1

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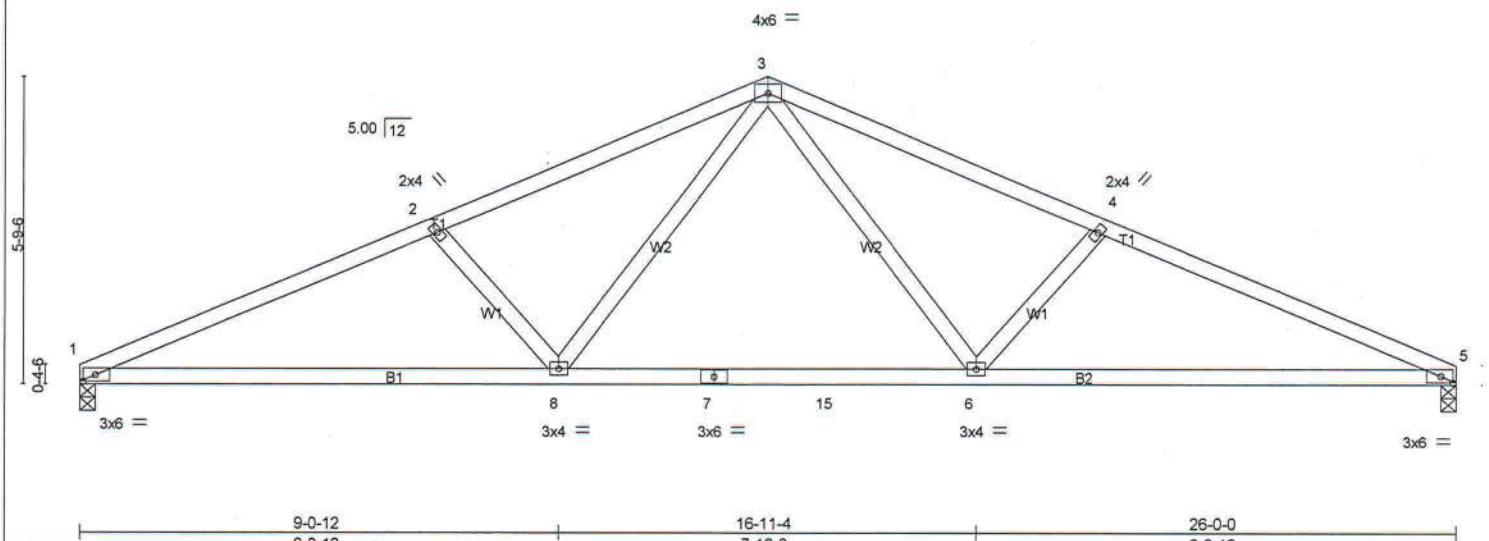

9-0-12	16-11-4	26-0-0
9-0-12	7-10-8	9-0-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.16	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(TL)	-0.27	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 111 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 4-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.

REACTIONS. (lb/size) 1=832/0-3-8 (min. 0-1-8), 5=832/0-3-8 (min. 0-1-8)
Max Horz 1=67(LC 12)
Max Uplift 1=-207(LC 12), 5=-207(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1798/1010, 2-3=-1578/924, 3-4=-1579/924, 4-5=-1798/1010
BOT CHORD 1-8=-845/1594, 7-8=-460/1046, 7-15=-460/1046, 6-15=-460/1046, 5-6=-845/1595
WEBS 3-6=-271/512, 4-6=-386/351, 3-8=-271/511, 2-8=-386/351

NOTES- (7-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=207, 5=207.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T15	Hip Truss	1	1	I1052039

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:13 2015 Page 1
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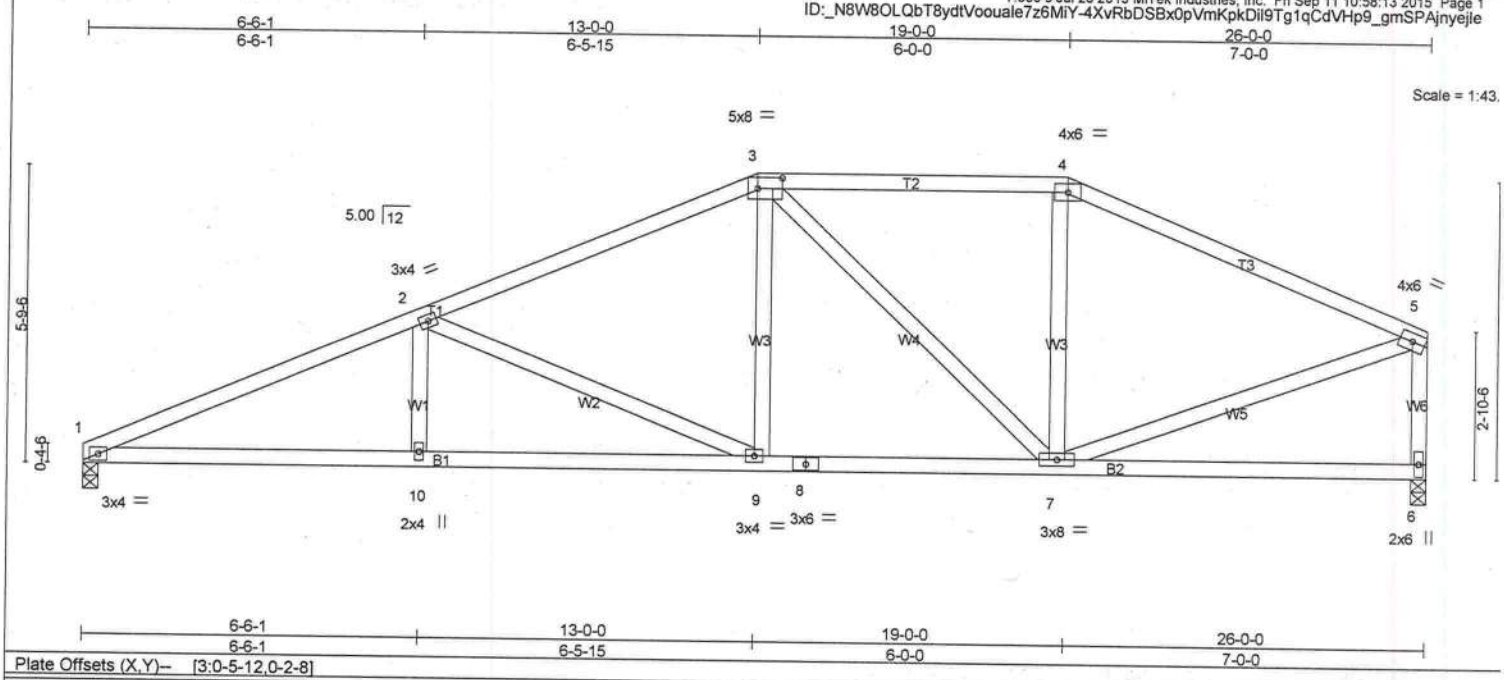

Plate Offsets (X,Y)-- [3:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(TL)	-0.18	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 135 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 4-3-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-15 oc bracing.

REACTIONS. (lb/size) 1=834/0-3-8 (min. 0-1-8), 6=821/0-3-8 (min. 0-1-8)
Max Horz 1=122(LC 12)
Max Uplift 1=-204(LC 12), 6=-172(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1732/968, 2-3=-1184/703, 3-4=-853/583, 4-5=-961/562, 5-6=-828/512
BOT CHORD 1-10=-948/1572, 9-10=-948/1572, 8-9=-555/1023, 7-8=-555/1023
WEBS 2-9=-603/429, 3-9=-133/322, 3-7=-340/173, 5-7=-415/805

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=204, 6=172.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	I10520397
712357	T16	Hip Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:14 2015 Page 1
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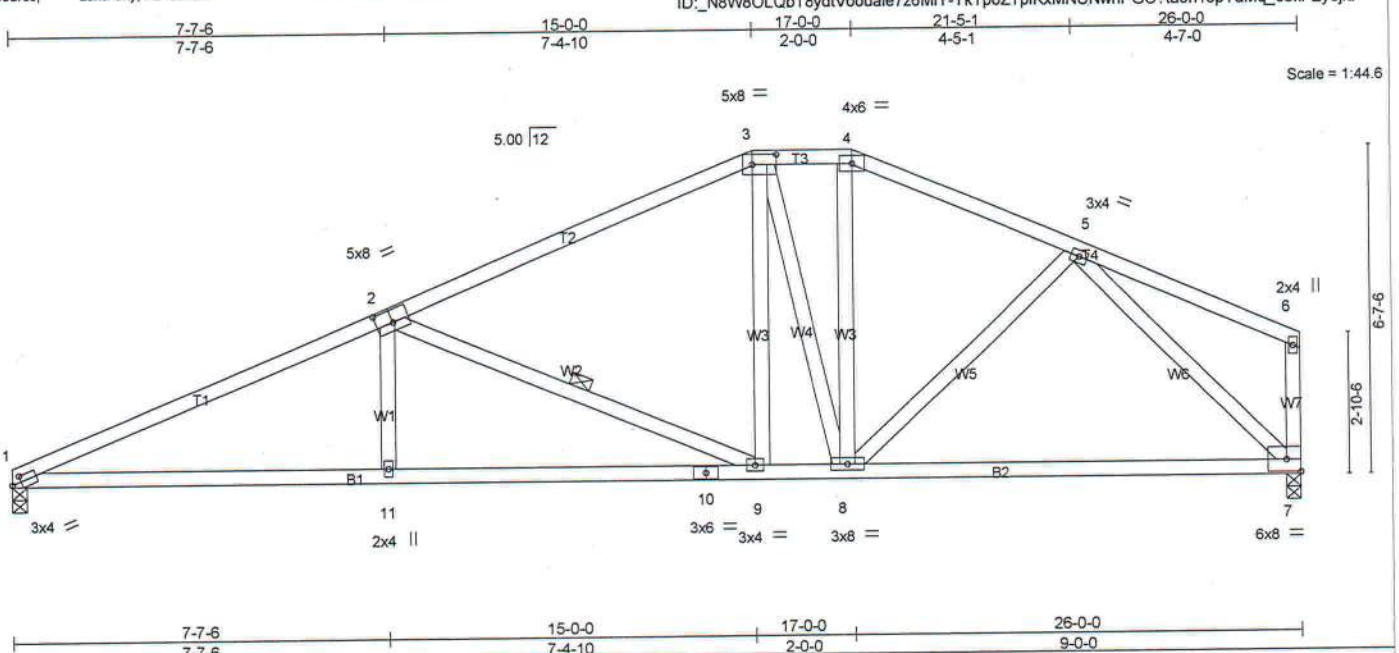

Plate Offsets (X,Y)-- [1:0-2-5,0-1-8], [2:0-4-0,0-3-0], [3:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.17	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	-0.32	7-8	>980	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 145 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 4-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-15 oc bracing.
WEBS 1 Row at midpt 2-9

REACTIONS. (lb/size) 1=836/0-3-8 (min. 0-1-8), 7=819/0-3-8 (min. 0-1-8)
Max Horz 1=133(LC 12)
Max Uplift 1=-214(LC 12), 7=-175(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1679/942, 2-3=-1034/636, 3-4=-852/604, 4-5=-950/610
BOT CHORD 1-11=-1079/1530, 10-11=-910/1511, 9-10=-910/1511, 8-9=-455/864, 7-8=-423/715
WEBS 2-9=-713/501, 3-9=-187/307, 3-8=-283/177, 5-7=-984/598

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=214, 7=175.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T17	Half Hip Truss	1	1	I10520398

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:15 2015 Page 1

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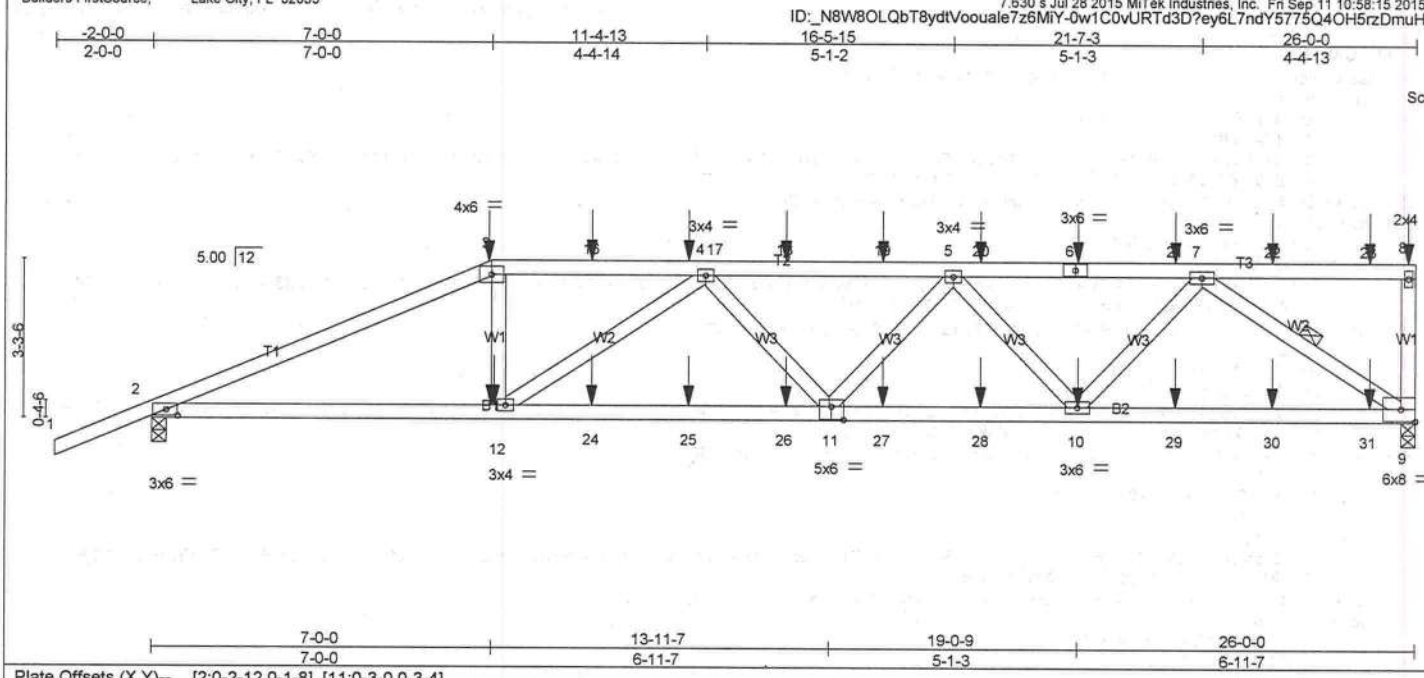

Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [11:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	0.37	11-12	>830	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(TL)	-0.46	11-12	>671	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.13	9	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 126 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*
B1: 2x4 SP No.1

WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 4-1-12 oc bracing.

WEBS 1 Row at midpt 7-9

REACTIONS. (lb/size) 9=1699/0-3-8 (min. 0-2-0), 2=1491/0-3-8 (min. 0-1-12)
Max Horz 2=122(LC 8)
Max Uplift 9=-1065(LC 5), 2=-828(LC 4)

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

TOP CHORD 2-3=-2939/1848, 3-16=-2675/1749, 16-17=-2675/1749, 4-17=-2675/1749, 4-18=-3287/2114, 18-19=-3287/2114, 5-19=-3287/2114, 5-20=-2571/1641, 6-20=-2571/1641, 6-21=-2571/1641, 7-21=-2571/1641, 8-9=-326/182

BOT CHORD 2-12=-1722/2639, 12-24=-2118/3314, 24-25=-2118/3314, 25-26=-2118/3314, 11-26=-2118/3314, 11-27=-1995/3146, 27-28=-1995/3146, 10-28=-1995/3146, 10-29=-1175/1879, 29-30=-1175/1879, 30-31=-1175/1879, 9-31=-1175/1879

WEBS 3-12=-544/728, 4-12=-781/455, 5-11=-196/293, 5-10=-886/546, 7-10=-718/1066, 7-9=-2252/1404

NOTES- (9-11)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1065, 2=828.
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) 87 lb down and 87 lb up at 7-0-0, 87 lb down and 87 lb up at 9-0-12, 87 lb down and 87 lb up at 11-0-12, 87 lb down and 87 lb up at 13-0-12, 87 lb down and 87 lb up at 15-0-12, 87 lb down and 87 lb up at 17-0-12, 87 lb down and 87 lb up at 19-0-12, 87 lb down and 87 lb up at 21-0-12, 87 lb down and 87 lb up at 23-0-12, and 87 lb down and 87 lb up at 25-0-12, and 141 lb down and 80 lb up at 25-10-4 on top chord, and 191 lb down and 274 lb up at 7-0-0, 51 lb down and 59 lb up at 9-0-12, 51 lb down and 59 lb up at 11-0-12, 51 lb down and 59 lb up at 13-0-12, 51 lb down and 59 lb up at 15-0-12, 51 lb down and 59 lb up at 17-0-12, 51 lb down and 59 lb up at 19-0-12, 51 lb down and 59 lb up at 21-0-12, and 51 lb down and 59 lb up at 23-0-12, and 51 lb down and 59 lb up at 25-0-12 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

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

September 11,2015

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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.

LOAD CASE(S)

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-8=-54, 9-13=-10
   Concentrated Loads (lb)
   Vert: 3=-87(B) 6=-87(B) 8=-141(B) 12=-188(B) 10=-26(B) 16=-87(B) 17=-87(B) 18=-87(B) 19=-87(B) 20=-87(B) 21=-87(B) 22=-87(B) 23=-87(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 28=-26(B) 29=-26(B) 30=-26(B) 31=-26(B)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-44, 3-8=-44, 9-13=-10
   Concentrated Loads (lb)
   Vert: 3=-71(B) 6=-71(B) 8=-115(B) 12=-161(B) 10=-24(B) 16=-71(B) 17=-71(B) 18=-71(B) 19=-71(B) 20=-71(B) 21=-71(B) 22=-71(B) 23=-71(B) 24=-24(B) 25=-24(B) 26=-24(B) 27=-24(B) 28=-24(B) 29=-24(B) 30=-24(B) 31=-24(B)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-14, 3-8=-14, 9-13=-30
   Concentrated Loads (lb)
   Vert: 3=-28(B) 6=-28(B) 8=-42(B) 12=-191(B) 10=-51(B) 16=-28(B) 17=-28(B) 18=-28(B) 19=-28(B) 20=-28(B) 21=-28(B) 22=-28(B) 23=-28(B) 24=-51(B) 25=-51(B) 26=-51(B) 27=-51(B) 28=-51(B) 29=-51(B) 30=-51(B) 31=-51(B)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-3=16, 3-8=25, 9-13=-6
   Horz: 1-2=-41, 2-3=-25
   Concentrated Loads (lb)
   Vert: 3=55(B) 6=55(B) 8=80(B) 12=264(B) 10=55(B) 16=55(B) 17=55(B) 18=55(B) 19=55(B) 20=55(B) 21=55(B) 22=55(B) 23=55(B) 24=55(B) 25=55(B) 26=55(B) 27=55(B) 28=55(B) 29=55(B) 30=55(B) 31=55(B)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-3=17, 3-8=25, 9-13=-6
   Horz: 1-2=-18, 2-3=-25
   Concentrated Loads (lb)
   Vert: 3=55(B) 6=55(B) 8=80(B) 12=264(B) 10=55(B) 16=55(B) 17=55(B) 18=55(B) 19=55(B) 20=55(B) 21=55(B) 22=55(B) 23=55(B) 24=55(B) 25=55(B) 26=55(B) 27=55(B) 28=55(B) 29=55(B) 30=55(B) 31=55(B)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=4, 2-3=-3, 3-8=6, 9-13=-10
   Horz: 1-2=-18, 2-3=-11
   Concentrated Loads (lb)
   Vert: 3=74(B) 6=74(B) 8=80(B) 12=274(B) 10=59(B) 16=74(B) 17=74(B) 18=74(B) 19=74(B) 20=74(B) 21=74(B) 22=74(B) 23=74(B) 24=59(B) 25=59(B) 26=59(B) 27=59(B) 28=59(B) 29=59(B) 30=59(B) 31=59(B)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=4, 2-3=-3, 3-8=6, 9-13=-10
   Horz: 1-2=-18, 2-3=-11
   Concentrated Loads (lb)
   Vert: 3=74(B) 6=74(B) 8=80(B) 12=274(B) 10=59(B) 16=74(B) 17=74(B) 18=74(B) 19=74(B) 20=74(B) 21=74(B) 22=74(B) 23=74(B) 24=59(B) 25=59(B) 26=59(B) 27=59(B) 28=59(B) 29=59(B) 30=59(B) 31=59(B)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=18, 2-3=25, 3-8=13, 9-13=-6
   Horz: 1-2=-27, 2-3=-34
   Concentrated Loads (lb)
   Vert: 3=67(B) 6=67(B) 8=80(B) 12=264(B) 10=55(B) 16=67(B) 17=67(B) 18=67(B) 19=67(B) 20=67(B) 21=67(B) 22=67(B) 23=67(B) 24=55(B) 25=55(B) 26=55(B) 27=55(B) 28=55(B) 29=55(B) 30=55(B) 31=55(B)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-3=13, 3-8=13, 9-13=-6
   Horz: 1-2=-14, 2-3=-21
   Concentrated Loads (lb)
   Vert: 3=67(B) 6=67(B) 8=80(B) 12=264(B) 10=55(B) 16=67(B) 17=67(B) 18=67(B) 19=67(B) 20=67(B) 21=67(B) 22=67(B) 23=67(B) 24=55(B) 25=55(B) 26=55(B) 27=55(B) 28=55(B) 29=55(B) 30=55(B) 31=55(B)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=18, 2-3=25, 3-8=13, 9-13=-6
   Horz: 1-2=-27, 2-3=-34
   Concentrated Loads (lb)
   Vert: 3=67(B) 6=67(B) 8=80(B) 12=264(B) 10=55(B) 16=67(B) 17=67(B) 18=67(B) 19=67(B) 20=67(B) 21=67(B) 22=67(B) 23=67(B) 24=55(B) 25=55(B) 26=55(B) 27=55(B) 28=55(B) 29=55(B) 30=55(B) 31=55(B)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-3=13, 3-8=13, 9-13=-6
   Horz: 1-2=-14, 2-3=-21
   Concentrated Loads (lb)
   Vert: 3=67(B) 6=67(B) 8=80(B) 12=264(B) 10=55(B) 16=67(B) 17=67(B) 18=67(B) 19=67(B) 20=67(B) 21=67(B) 22=67(B) 23=67(B) 24=55(B) 25=55(B) 26=55(B) 27=55(B) 28=55(B) 29=55(B) 30=55(B) 31=55(B)
12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-8=-7, 9-13=-10
Horz: 1-2=-27, 2-3=-20
Concentrated Loads (lb)
Vert: 3=87(B) 6=87(B) 8=80(B) 12=274(B) 10=59(B) 16=87(B) 17=87(B) 18=87(B) 19=87(B) 20=87(B) 21=87(B) 22=87(B) 23=87(B) 24=59(B) 25=59(B) 26=59(B) 27=59(B) 28=59(B) 29=59(B) 30=59(B) 31=59(B)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-8=-7, 9-13=-10
Horz: 1-2=-14, 2-3=-7
Concentrated Loads (lb)
Vert: 3=87(B) 6=87(B) 8=80(B) 12=274(B) 10=59(B) 16=87(B) 17=87(B) 18=87(B) 19=87(B) 20=87(B) 21=87(B) 22=87(B) 23=87(B) 24=59(B) 25=59(B) 26=59(B) 27=59(B) 28=59(B) 29=59(B) 30=59(B) 31=59(B)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 3-8=-14, 9-13=-10
Concentrated Loads (lb)
Vert: 3=-24(B) 6=-24(B) 8=-38(B) 12=-82(B) 10=-19(B) 16=-24(B) 17=-24(B) 18=-24(B) 19=-24(B) 20=-24(B) 21=-24(B) 22=-24(B) 23=-24(B) 24=-19(B) 25=-19(B) 26=-19(B) 27=-19(B) 28=-19(B) 29=-19(B) 30=-19(B) 31=-19(B)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-8=-29, 9-13=-10
Horz: 1-2=-13, 2-3=-8
Concentrated Loads (lb)
Vert: 3=53(B) 6=53(B) 8=54(B) 12=147(B) 10=39(B) 16=53(B) 17=53(B) 18=53(B) 19=53(B) 20=53(B) 21=53(B) 22=53(B) 23=53(B) 24=39(B) 25=39(B) 26=39(B) 27=39(B) 28=39(B) 29=39(B) 30=39(B) 31=39(B)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-8=-29, 9-13=-10
Horz: 1-2=-14, 2-3=-8
Concentrated Loads (lb)
Vert: 3=53(B) 6=53(B) 8=54(B) 12=147(B) 10=39(B) 16=53(B) 17=53(B) 18=53(B) 19=53(B) 20=53(B) 21=53(B) 22=53(B) 23=53(B) 24=39(B) 25=39(B) 26=39(B) 27=39(B) 28=39(B) 29=39(B) 30=39(B) 31=39(B)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-8=-38, 9-13=-10
Horz: 1-2=-20, 2-3=-15
Concentrated Loads (lb)
Vert: 3=63(B) 6=63(B) 8=54(B) 12=147(B) 10=39(B) 16=63(B) 17=63(B) 18=63(B) 19=63(B) 20=63(B) 21=63(B) 22=63(B) 23=63(B) 24=39(B) 25=39(B) 26=39(B) 27=39(B) 28=39(B) 29=39(B) 30=39(B) 31=39(B)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-8=-38, 9-13=-10
Horz: 1-2=-11, 2-3=-6
Concentrated Loads (lb)
Vert: 3=63(B) 6=63(B) 8=54(B) 12=147(B) 10=39(B) 16=63(B) 17=63(B) 18=63(B) 19=63(B) 20=63(B) 21=63(B) 22=63(B) 23=63(B) 24=39(B) 25=39(B) 26=39(B) 27=39(B) 28=39(B) 29=39(B) 30=39(B) 31=39(B)

19) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-8=25, 9-13=-6
Horz: 1-2=-41, 2-3=-25
Concentrated Loads (lb)
Vert: 3=-52(B) 6=-52(B) 8=-27(B) 12=-96(B) 10=-22(B) 16=-52(B) 17=-52(B) 18=-52(B) 19=-52(B) 20=-52(B) 21=-52(B) 22=-52(B) 23=-52(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

20) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-8=25, 9-13=-6
Horz: 1-2=-18, 2-3=-25
Concentrated Loads (lb)
Vert: 3=-52(B) 6=-52(B) 8=-27(B) 12=-96(B) 10=-22(B) 16=-52(B) 17=-52(B) 18=-52(B) 19=-52(B) 20=-52(B) 21=-52(B) 22=-52(B) 23=-52(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

21) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-8=6, 9-13=-10
Horz: 1-2=-18, 2-3=-11
Concentrated Loads (lb)
Vert: 3=-33(B) 6=-33(B) 8=-27(B) 12=-86(B) 10=-18(B) 16=-33(B) 17=-33(B) 18=-33(B) 19=-33(B) 20=-33(B) 21=-33(B) 22=-33(B) 23=-33(B) 24=-18(B) 25=-18(B) 26=-18(B) 27=-18(B) 28=-18(B) 29=-18(B) 30=-18(B) 31=-18(B)

22) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-8=6, 9-13=-10
Horz: 1-2=-18, 2-3=-11
Concentrated Loads (lb)
Vert: 3=-33(B) 6=-33(B) 8=-27(B) 12=-86(B) 10=-18(B) 16=-33(B) 17=-33(B) 18=-33(B) 19=-33(B) 20=-33(B) 21=-33(B) 22=-33(B) 23=-33(B) 24=-18(B) 25=-18(B) 26=-18(B) 27=-18(B) 28=-18(B) 29=-18(B) 30=-18(B) 31=-18(B)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-8=13, 9-13=-6
Horz: 1-2=-27, 2-3=-34
Concentrated Loads (lb)
Vert: 3=-40(B) 6=-40(B) 8=-27(B) 12=-96(B) 10=-22(B) 16=-40(B) 17=-40(B) 18=-40(B) 19=-40(B) 20=-40(B) 21=-40(B) 22=-40(B) 23=-40(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-8=13, 9-13=-6
Horz: 1-2=-14, 2-3=-21
Concentrated Loads (lb)
Vert: 3=-40(B) 6=-40(B) 8=-27(B) 12=-96(B) 10=-22(B) 16=-40(B) 17=-40(B) 18=-40(B) 19=-40(B) 20=-40(B) 21=-40(B) 22=-40(B) 23=-40(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-8=13, 9-13=-6
Horz: 1-2=-27, 2-3=-34
Concentrated Loads (lb)
Vert: 3=-40(B) 6=-40(B) 8=-27(B) 12=-96(B) 10=-22(B) 16=-40(B) 17=-40(B) 18=-40(B) 19=-40(B) 20=-40(B) 21=-40(B) 22=-40(B) 23=-40(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

26) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-8=13, 9-13=-6
Horz: 1-2=-14, 2-3=-21
Concentrated Loads (lb)
Vert: 3=-40(B) 6=-40(B) 8=-27(B) 12=-96(B) 10=-22(B) 16=-40(B) 17=-40(B) 18=-40(B) 19=-40(B) 20=-40(B) 21=-40(B) 22=-40(B) 23=-40(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-8=-7, 9-13=-10
Horz: 1-2=-27, 2-3=-20
Concentrated Loads (lb)
Vert: 3=-20(B) 6=-20(B) 8=-27(B) 12=-86(B) 10=-18(B) 16=-20(B) 17=-20(B) 18=-20(B) 19=-20(B) 20=-20(B) 21=-20(B) 22=-20(B) 23=-20(B) 24=-18(B) 25=-18(B) 26=-18(B) 27=-18(B) 28=-18(B) 29=-18(B) 30=-18(B) 31=-18(B)

28) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-8=-7, 9-13=-10
Horz: 1-2=-14, 2-3=-7
Concentrated Loads (lb)
Vert: 3=-20(B) 6=-20(B) 8=-27(B) 12=-86(B) 10=-18(B) 16=-20(B) 17=-20(B) 18=-20(B) 19=-20(B) 20=-20(B) 21=-20(B) 22=-20(B) 23=-20(B) 24=-18(B) 25=-18(B) 26=-18(B) 27=-18(B) 28=-18(B) 29=-18(B) 30=-18(B) 31=-18(B)

29) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-8=-29, 9-13=-10
Horz: 1-2=-13, 2-3=-8
Concentrated Loads (lb)
Vert: 3=-58(B) 6=-58(B) 8=-87(B) 12=-132(B) 10=-22(B) 16=-58(B) 17=-58(B) 18=-58(B) 19=-58(B) 20=-58(B) 21=-58(B) 22=-58(B) 23=-58(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

30) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-8=-29, 9-13=-10
Horz: 1-2=-14, 2-3=-8
Concentrated Loads (lb)
Vert: 3=-58(B) 6=-58(B) 8=-87(B) 12=-132(B) 10=-22(B) 16=-58(B) 17=-58(B) 18=-58(B) 19=-58(B) 20=-58(B) 21=-58(B) 22=-58(B) 23=-58(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

31) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-8=-38, 9-13=-10
Horz: 1-2=-20, 2-3=-15
Concentrated Loads (lb)
Vert: 3=-49(B) 6=-49(B) 8=-87(B) 12=-132(B) 10=-22(B) 16=-49(B) 17=-49(B) 18=-49(B) 19=-49(B) 20=-49(B) 21=-49(B) 22=-49(B) 23=-49(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-8=-38, 9-13=-10
Horz: 1-2=-11, 2-3=-6
Concentrated Loads (lb)
Vert: 3=-49(B) 6=-49(B) 8=-87(B) 12=-132(B) 10=-22(B) 16=-49(B) 17=-49(B) 18=-49(B) 19=-49(B) 20=-49(B) 21=-49(B) 22=-49(B) 23=-49(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-22(B) 28=-22(B) 29=-22(B) 30=-22(B) 31=-22(B)

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

Job	Truss	Truss Type	Qty	Ply	
712357	T18	Half Hip Truss	1	1	I1052039

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:16 2015 Page 1
ID:_N8W8OLQbT8ydtVoouale7z6MiY-V6aaDFV4ExB4doXJuqIs4IfOuqUI0Si6SQdqK6yejlb

-2-0-0	4-7-10	9-0-0	14-0-8	20-11-8	26-0-0
2-0-0	4-7-10	4-4-6	5-0-8	6-11-0	5-0-8

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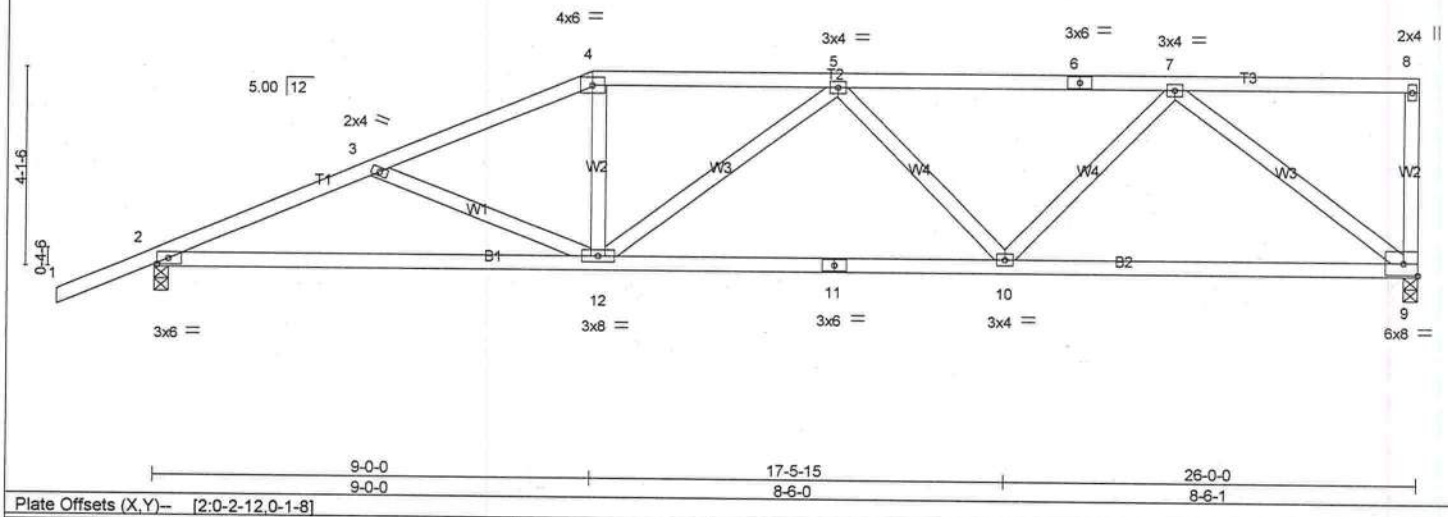

9-0-0	17-5-15	26-0-0
9-0-0	8-6-0	8-6-1

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.13	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	-0.25	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(TL)	0.06	9	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 132 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 4-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-3 oc bracing.

REACTIONS. (lb/size) 9=820/0-3-8 (min. 0-1-8), 2=943/0-3-8 (min. 0-1-8)
Max Horz 2=150(LC 12)
Max Uplift 9=-244(LC 9), 2=-243(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1751/990, 3-4=-1453/796, 4-5=-1329/782, 5-6=-1227/677, 6-7=-1227/677
BOT CHORD 2-12=-1049/1621, 11-12=-861/1457, 10-11=-861/1457, 9-10=-542/915
WEBS 3-12=-328/294, 4-12=-118/310, 5-10=-343/274, 7-10=-202/464, 7-9=-1144/685

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=244, 2=243.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	I10520400
712357	T19	Hip Truss	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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ID:_N8W8OLQbT8ydtVoouale7z6MiY-zI8yRbVi?FJxEy6VSYp5dWCa5Eq7I?_Gh4NOsZyejla

5-4-13	11-0-0	16-0-0	21-0-0	26-0-0
5-4-13	5-7-3	5-0-0	5-0-0	5-0-0

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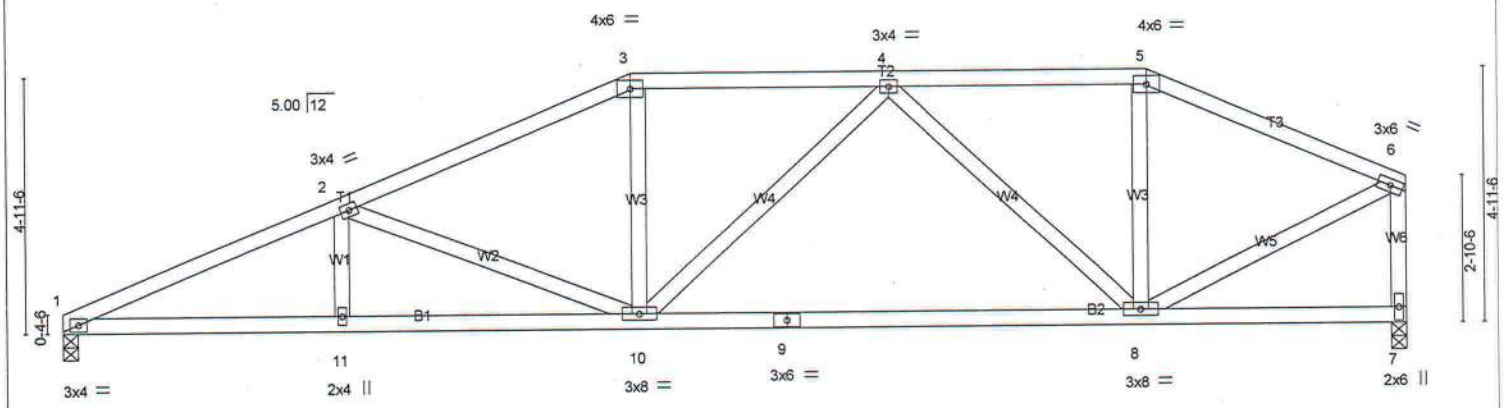

5-4-13	11-0-0	21-0-0	26-0-0
5-4-13	5-7-3	10-0-0	5-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(TL)	-0.39	8-10	>797	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 135 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 4-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-8 oc bracing.

REACTIONS. (lb/size) 1=833/0-3-8 (min. 0-1-8), 7=822/0-3-8 (min. 0-1-8)
Max Horz 1=112(LC 12)
Max Uplift 1=-192(LC 12), 7=-194(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1765/990, 2-3=-1335/762, 3-4=-1207/756, 4-5=-784/504, 5-6=-873/495, 6-7=-841/492
BOT CHORD 1-11=-981/1613, 10-11=-981/1613, 9-10=-634/1121, 8-9=-634/1121
WEBS 2-10=-475/363, 3-10=-77/263, 4-8=-526/332, 6-8=-421/822

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=192, 7=194.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

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

Job	Truss	Truss Type	Qty	Ply	
712357	T20	Half Hip Truss	1	1	I1052040

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:18 2015 Page 1

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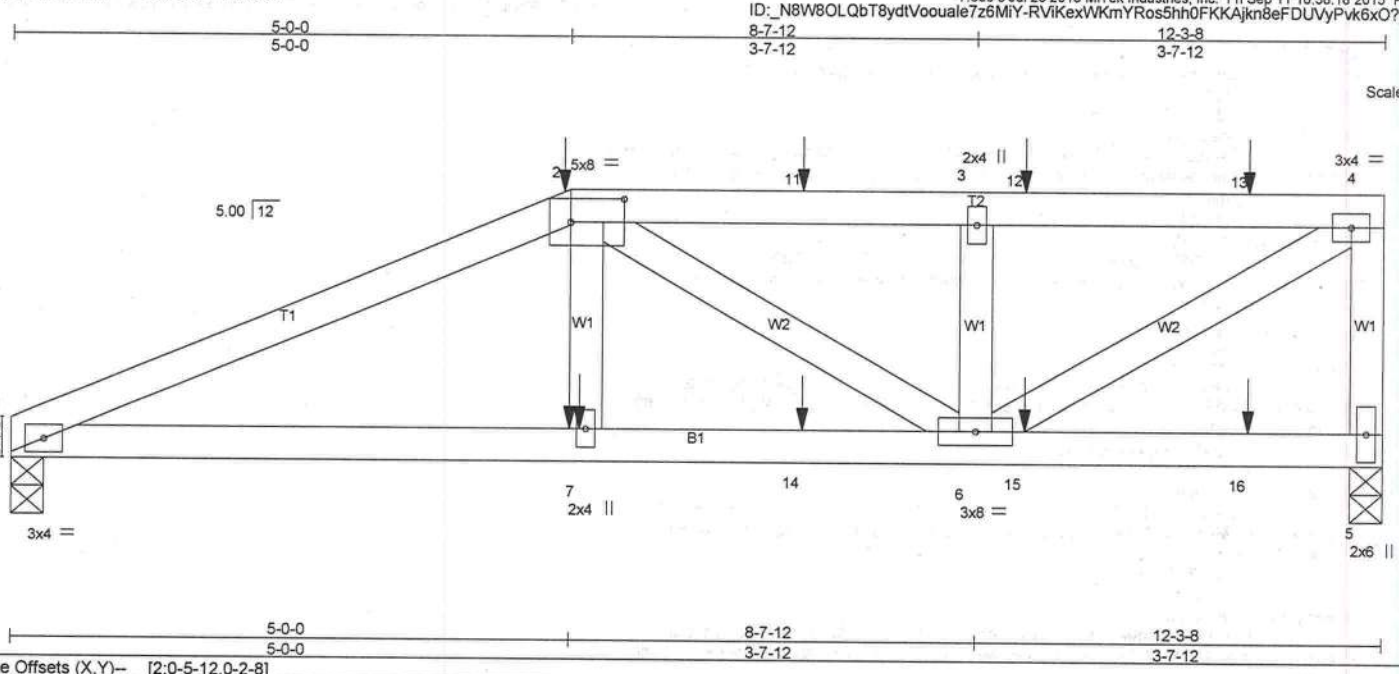

Plate Offsets (X,Y)-- [2:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(TL)	-0.04	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 57 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-5-11 oc bracing.

REACTIONS. (lb/size) 1=484/0-3-8 (min. 0-1-8), 5=542/0-3-8 (min. 0-1-8)
Max Horz 1=71(LC 27)
Max Uplift 1=-345(LC 5), 5=-473(LC 5)

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

TOP CHORD	1-2=-834/649, 2-11=-662/578, 3-11=-662/578, 3-12=-662/578, 12-13=-662/578, 4-13=-662/578, 4-5=-509/427
BOT CHORD	1-7=-615/724, 7-14=-623/730, 6-14=-623/730
WEBS	3-6=-309/222, 4-6=-655/751

NOTES- (10-12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=345, 5=473.
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) 44 lb down and 93 lb up at 5-0-0, 44 lb down and 93 lb up at 7-1-1, and 44 lb down and 93 lb up at 9-1-1, and 44 lb down and 93 lb up at 11-1-1 on top chord, and 94 lb down and 104 lb up at 5-0-0, 37 lb down and 47 lb up at 7-1-1, and 37 lb down and 47 lb up at 9-1-1, and 37 lb down and 47 lb up at 11-1-1 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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 5-8=-10
   Concentrated Loads (lb)
   Vert: 2=-44(F) 7=-26(F) 11=-44(F) 12=-44(F) 13=-44(F) 14=-16(F) 15=-16(F) 16=-16(F)

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

September 11,2015

Continued from page 2

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

LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced): 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: 2=-36(F) 7=-24(F) 11=-36(F) 12=-36(F) 13=-36(F) 14=-14(F) 15=-14(F) 16=-14(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-14, 2-4=-14, 5-8=-30
   Concentrated Loads (lb)
   Vert: 2=-17(F) 7=-50(F) 11=-17(F) 12=-17(F) 13=-17(F) 14=-28(F) 15=-28(F) 16=-28(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=16, 2-4=25, 5-8=17
   Horz: 1-2=-25
   Concentrated Loads (lb)
   Vert: 2=61(F) 7=38(F) 11=61(F) 12=61(F) 13=61(F) 14=20(F) 15=20(F) 16=20(F)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=17, 2-4=25, 5-8=17
   Horz: 1-2=-25
   Concentrated Loads (lb)
   Vert: 2=61(F) 7=38(F) 11=61(F) 12=61(F) 13=61(F) 14=20(F) 15=20(F) 16=20(F)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-4=6, 5-8=13
   Horz: 1-2=-11
   Concentrated Loads (lb)
   Vert: 2=81(F) 7=48(F) 11=81(F) 12=81(F) 13=81(F) 14=24(F) 15=24(F) 16=24(F)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-4=6, 5-8=13
   Horz: 1-2=-11
   Concentrated Loads (lb)
   Vert: 2=81(F) 7=48(F) 11=81(F) 12=81(F) 13=81(F) 14=24(F) 15=24(F) 16=24(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=25, 2-4=13, 5-8=-6
   Horz: 1-2=-34
   Concentrated Loads (lb)
   Vert: 2=74(F) 7=94(F) 11=74(F) 12=74(F) 13=74(F) 14=43(F) 15=43(F) 16=43(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=13, 2-4=13, 5-8=-6
   Horz: 1-2=-21
   Concentrated Loads (lb)
   Vert: 2=74(F) 7=94(F) 11=74(F) 12=74(F) 13=74(F) 14=43(F) 15=43(F) 16=43(F)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=25, 2-4=13, 5-8=-6
   Horz: 1-2=-34
   Concentrated Loads (lb)
   Vert: 2=74(F) 7=94(F) 11=74(F) 12=74(F) 13=74(F) 14=43(F) 15=43(F) 16=43(F)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=13, 2-4=13, 5-8=-6
   Horz: 1-2=-21
   Concentrated Loads (lb)
   Vert: 2=74(F) 7=94(F) 11=74(F) 12=74(F) 13=74(F) 14=43(F) 15=43(F) 16=43(F)
12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=6, 2-4=-7, 5-8=-10
   Horz: 1-2=-20
   Concentrated Loads (lb)
   Vert: 2=93(F) 7=104(F) 11=93(F) 12=93(F) 13=93(F) 14=47(F) 15=47(F) 16=47(F)
13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-7, 2-4=-7, 5-8=-10
   Horz: 1-2=-7
   Concentrated Loads (lb)
   Vert: 2=93(F) 7=104(F) 11=93(F) 12=93(F) 13=93(F) 14=47(F) 15=47(F) 16=47(F)
14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-14, 2-4=-14, 5-8=-10
   Concentrated Loads (lb)
   Vert: 2=-13(F) 7=-17(F) 11=-13(F) 12=-13(F) 13=-13(F) 14=-10(F) 15=-10(F) 16=-10(F)
15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-29, 5-8=7
Horz: 1-2=-8
Concentrated Loads (lb)
Vert: 2=60(F) 7=35(F) 11=60(F) 12=60(F) 13=60(F) 14=15(F) 15=15(F) 16=15(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-29, 5-8=7
Horz: 1-2=-8
Concentrated Loads (lb)
Vert: 2=60(F) 7=35(F) 11=60(F) 12=60(F) 13=60(F) 14=15(F) 15=15(F) 16=15(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-38, 5-8=-10
Horz: 1-2=-15
Concentrated Loads (lb)
Vert: 2=69(F) 7=77(F) 11=69(F) 12=69(F) 13=69(F) 14=32(F) 15=32(F) 16=32(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-4=-38, 5-8=-10
Horz: 1-2=-6
Concentrated Loads (lb)
Vert: 2=69(F) 7=77(F) 11=69(F) 12=69(F) 13=69(F) 14=32(F) 15=32(F) 16=32(F)

19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-10
Concentrated Loads (lb)
Vert: 2=-44(F) 7=-26(F) 11=-44(F) 12=-44(F) 13=-44(F) 14=-16(F) 15=-16(F) 16=-16(F)

20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-14, 2-4=-54, 5-8=-10
Concentrated Loads (lb)
Vert: 2=-44(F) 7=-26(F) 11=-44(F) 12=-44(F) 13=-44(F) 14=-16(F) 15=-16(F) 16=-16(F)

21) 3rd Dead + 0.75 Roof Live (unbalanced): 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: 2=-36(F) 7=-24(F) 11=-36(F) 12=-36(F) 13=-36(F) 14=-14(F) 15=-14(F) 16=-14(F)

22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-14, 2-4=-44, 5-8=-10
Concentrated Loads (lb)
Vert: 2=-36(F) 7=-24(F) 11=-36(F) 12=-36(F) 13=-36(F) 14=-14(F) 15=-14(F) 16=-14(F)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-4=25, 5-8=17
Horz: 1-2=-25
Concentrated Loads (lb)
Vert: 2=-31(F) 7=-94(F) 11=-31(F) 12=-31(F) 13=-31(F) 14=-37(F) 15=-37(F) 16=-37(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=25, 5-8=17
Horz: 1-2=-25
Concentrated Loads (lb)
Vert: 2=-31(F) 7=-94(F) 11=-31(F) 12=-31(F) 13=-31(F) 14=-37(F) 15=-37(F) 16=-37(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-4=6, 5-8=13
Horz: 1-2=-11
Concentrated Loads (lb)
Vert: 2=-12(F) 7=-84(F) 11=-12(F) 12=-12(F) 13=-12(F) 14=-33(F) 15=-33(F) 16=-33(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-4=6, 5-8=13
Horz: 1-2=-11
Concentrated Loads (lb)
Vert: 2=-12(F) 7=-84(F) 11=-12(F) 12=-12(F) 13=-12(F) 14=-33(F) 15=-33(F) 16=-33(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=13, 5-8=-6
Horz: 1-2=-34
Concentrated Loads (lb)
Vert: 2=-19(F) 7=-38(F) 11=-19(F) 12=-19(F) 13=-19(F) 14=-14(F) 15=-14(F) 16=-14(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-4=13, 5-8=-6
Horz: 1-2=-21

Continued on page 4

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

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 2=-19(F) 7=-38(F) 11=-19(F) 12=-19(F) 13=-19(F) 14=-14(F) 15=-14(F) 16=-14(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=13, 5-8=-6
Horz: 1-2=-34
Concentrated Loads (lb)
Vert: 2=-19(F) 7=-38(F) 11=-19(F) 12=-19(F) 13=-19(F) 14=-14(F) 15=-14(F) 16=-14(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-4=13, 5-8=-6
Horz: 1-2=-21
Concentrated Loads (lb)
Vert: 2=-19(F) 7=-38(F) 11=-19(F) 12=-19(F) 13=-19(F) 14=-14(F) 15=-14(F) 16=-14(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-4=-7, 5-8=-10
Horz: 1-2=-20
Concentrated Loads (lb)
Vert: 2=1(F) 7=-29(F) 11=1(F) 12=1(F) 13=1(F) 14=-10(F) 15=-10(F) 16=-10(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-7, 5-8=-10
Horz: 1-2=-7
Concentrated Loads (lb)
Vert: 2=1(F) 7=-29(F) 11=1(F) 12=1(F) 13=1(F) 14=-10(F) 15=-10(F) 16=-10(F)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-29, 5-8=7
Horz: 1-2=-8
Concentrated Loads (lb)
Vert: 2=-22(F) 7=-73(F) 11=-22(F) 12=-22(F) 13=-22(F) 14=-30(F) 15=-30(F) 16=-30(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-29, 5-8=7
Horz: 1-2=-8
Concentrated Loads (lb)
Vert: 2=-22(F) 7=-73(F) 11=-22(F) 12=-22(F) 13=-22(F) 14=-30(F) 15=-30(F) 16=-30(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-38, 5-8=-10
Horz: 1-2=-15
Concentrated Loads (lb)
Vert: 2=-13(F) 7=-31(F) 11=-13(F) 12=-13(F) 13=-13(F) 14=-13(F) 15=-13(F) 16=-13(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-4=-38, 5-8=-10
Horz: 1-2=-6
Concentrated Loads (lb)
Vert: 2=-13(F) 7=-31(F) 11=-13(F) 12=-13(F) 13=-13(F) 14=-13(F) 15=-13(F) 16=-13(F)

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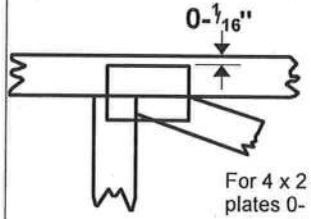
Symbols

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.

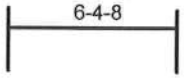
BEARING

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

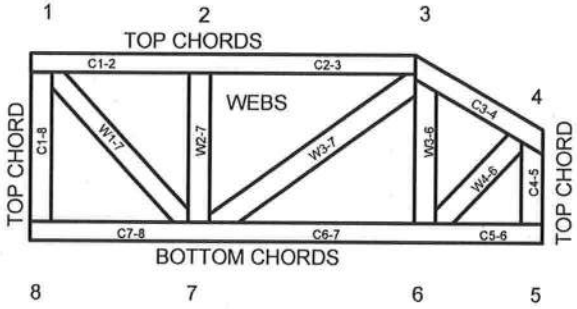
Industry Standards:

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, 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.

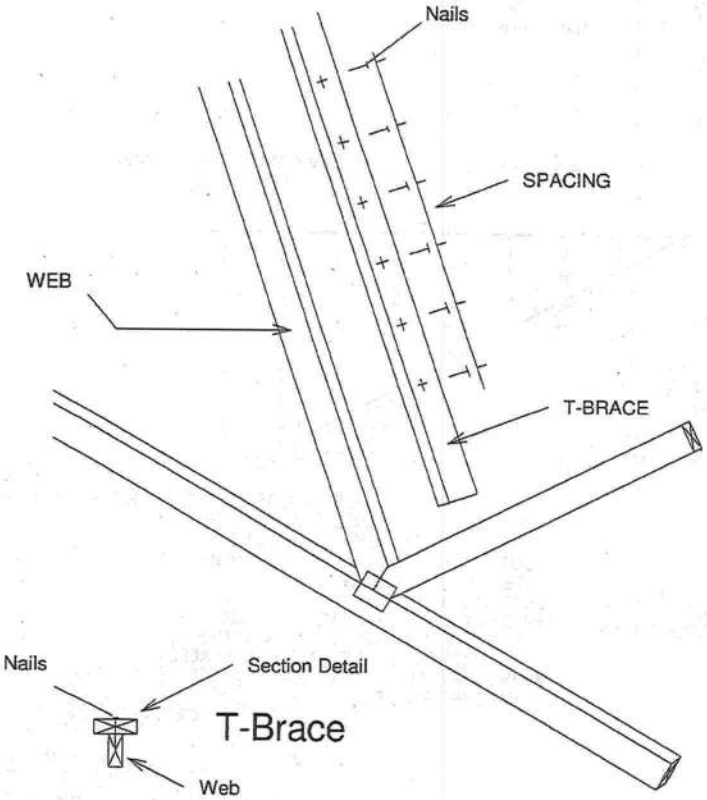
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

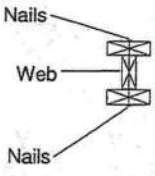
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	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.





I-Brace

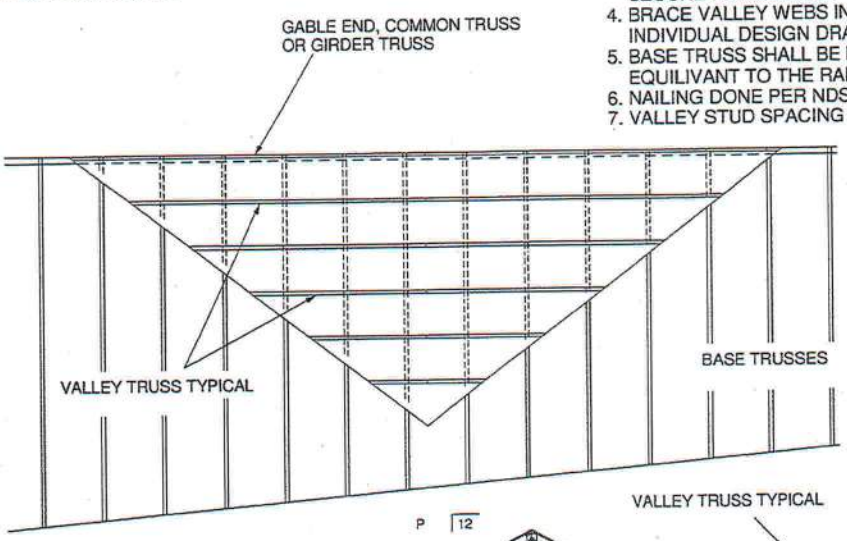
1109 COASTAL BAY
BOYNTON BC, FL 33435

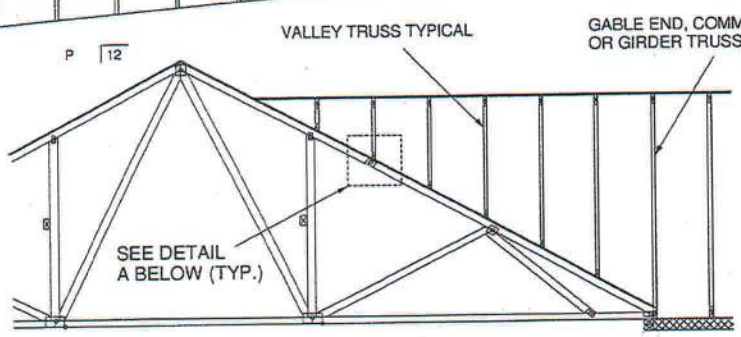
FEBRUARY 14, 2012	TRUSSED VALLEY SET DETAIL	ST-VALLEY HIGH WIND1

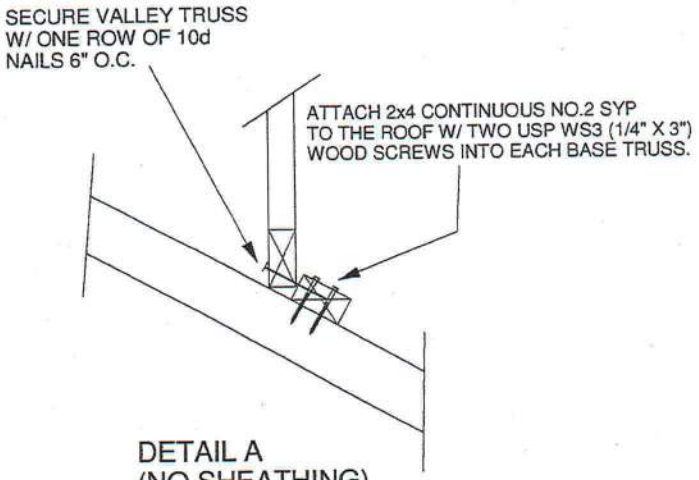
MiTek Industries, Inc.

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, Chesterfield, MO

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

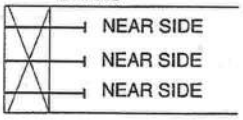
TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	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.

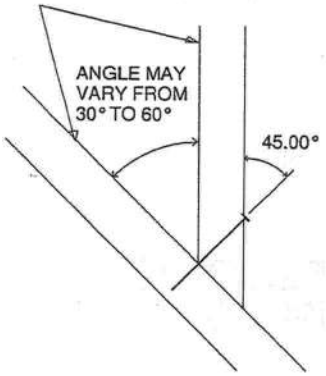
SIDE VIEW

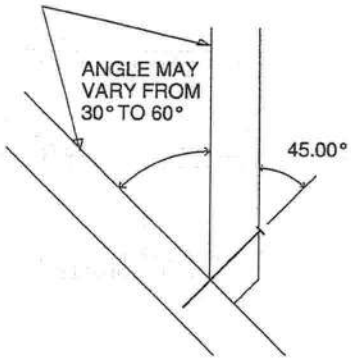
3 NAILS

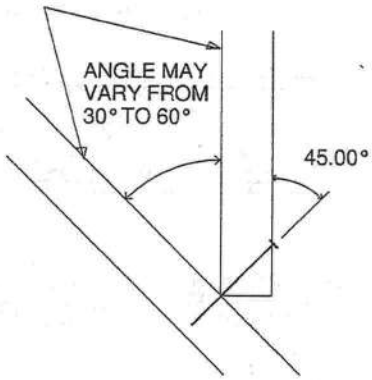


EXAMPLE:
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

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

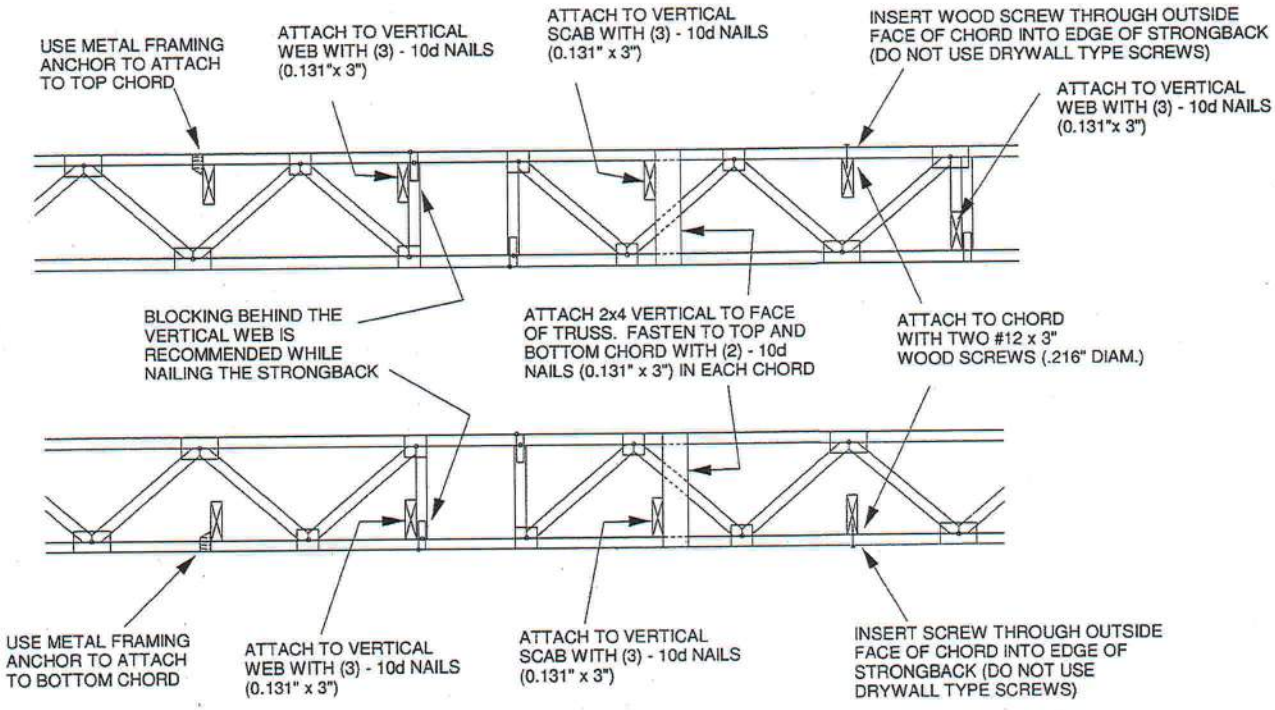
FEBRUARY 8, 2008	LATERAL BRACING RECOMMENDATIONS	ST-STRGBCK

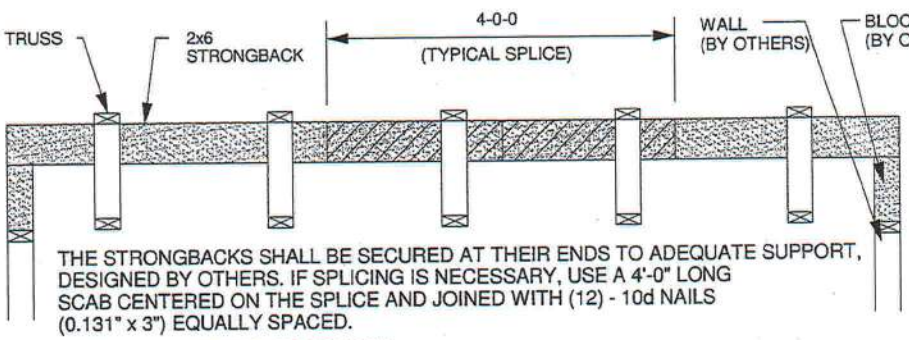
MiTek Industries, Inc.

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

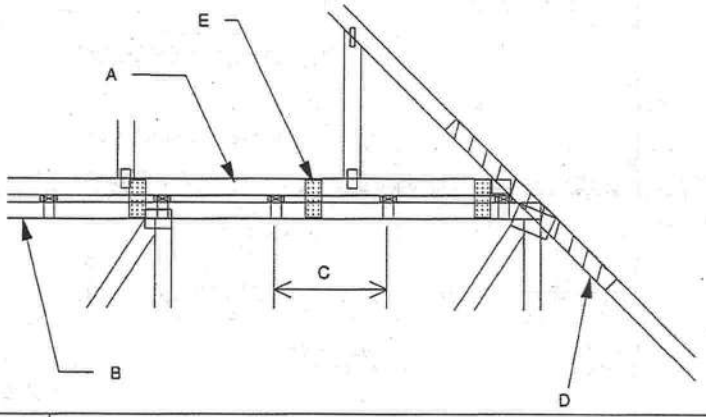
MiTek Industries, Chesterfield, MO

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.

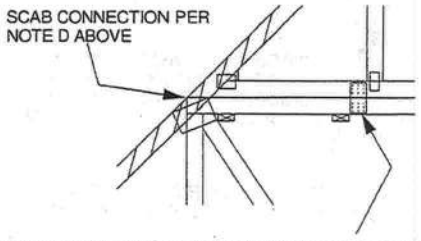
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT 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)

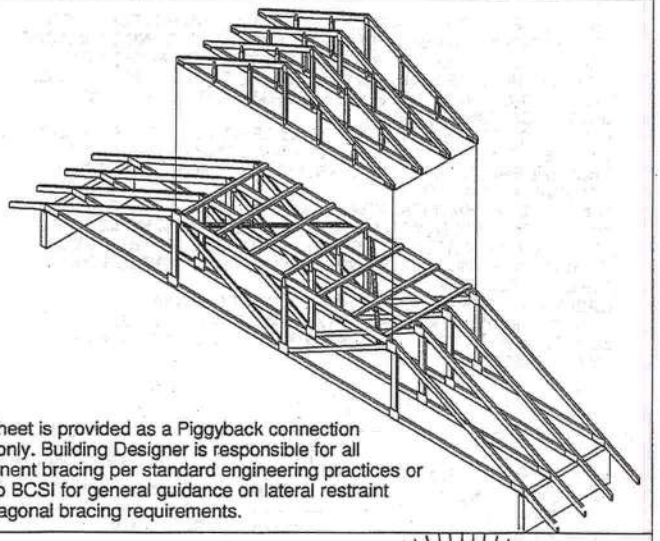


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

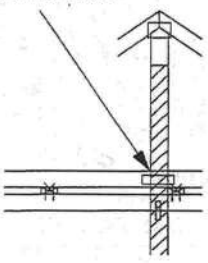


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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

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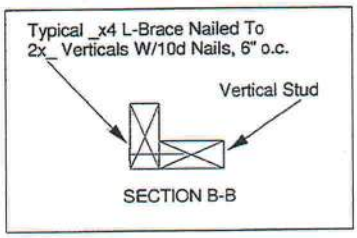
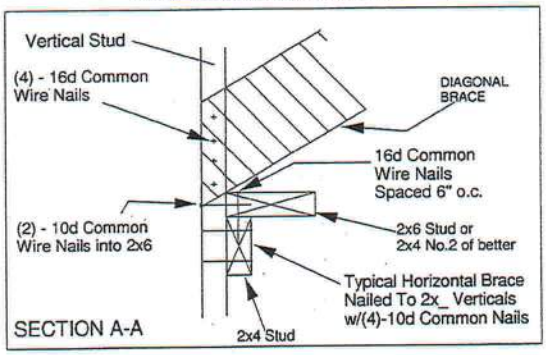
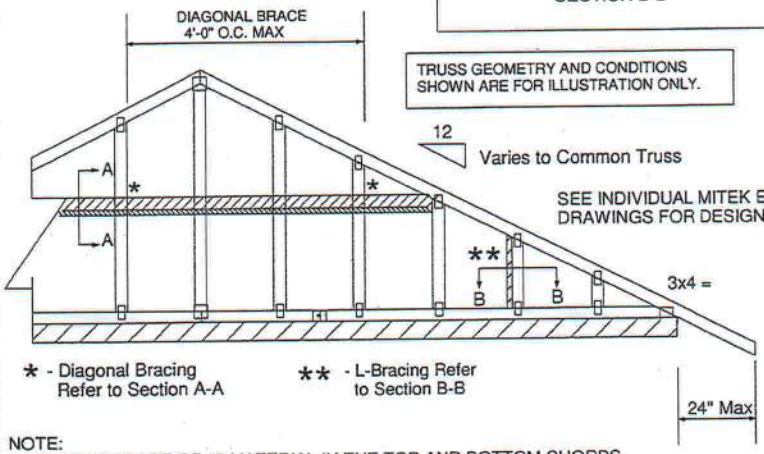






TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

12 Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

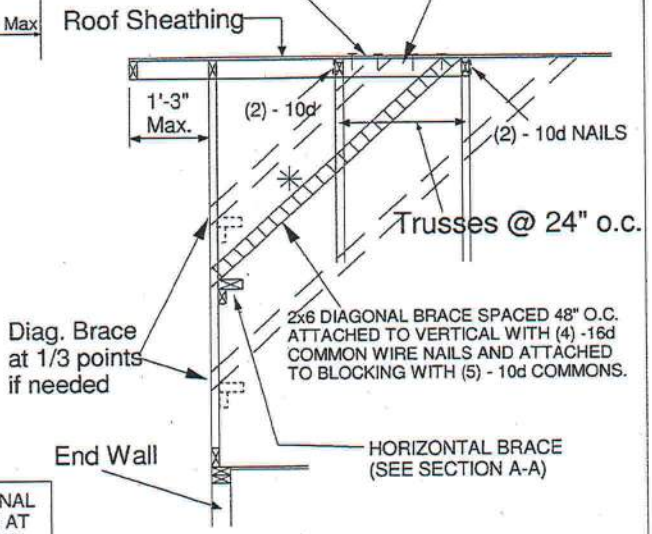
* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

24" Max

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



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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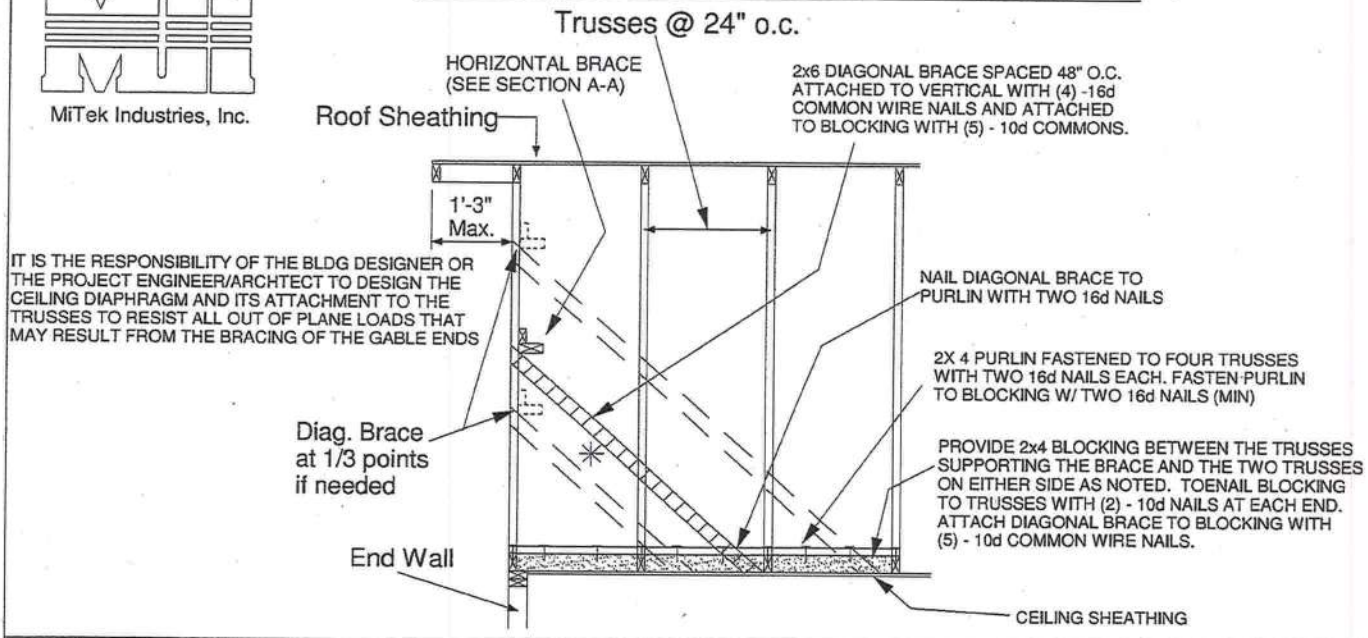
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

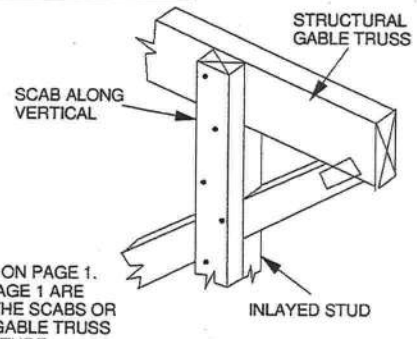
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

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

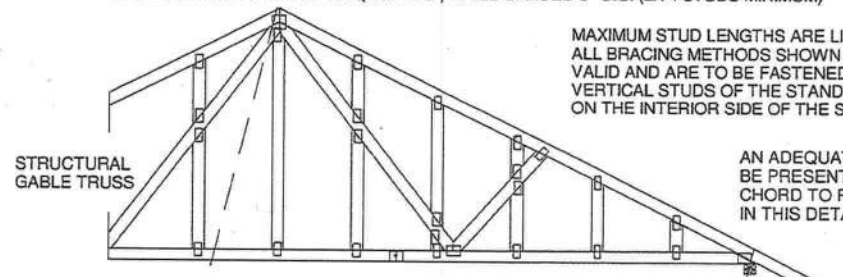
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

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)

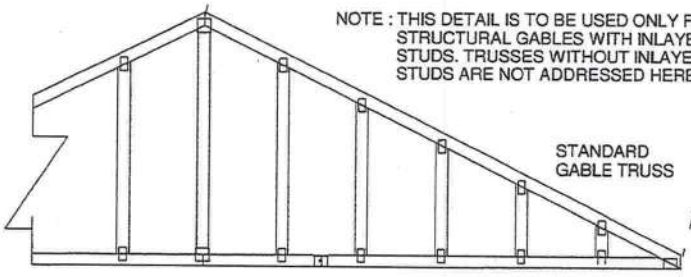


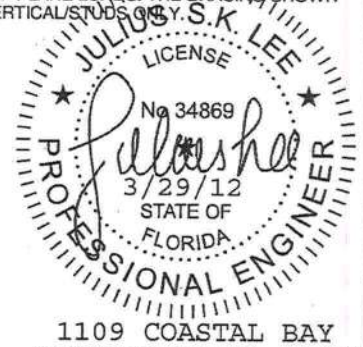
MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



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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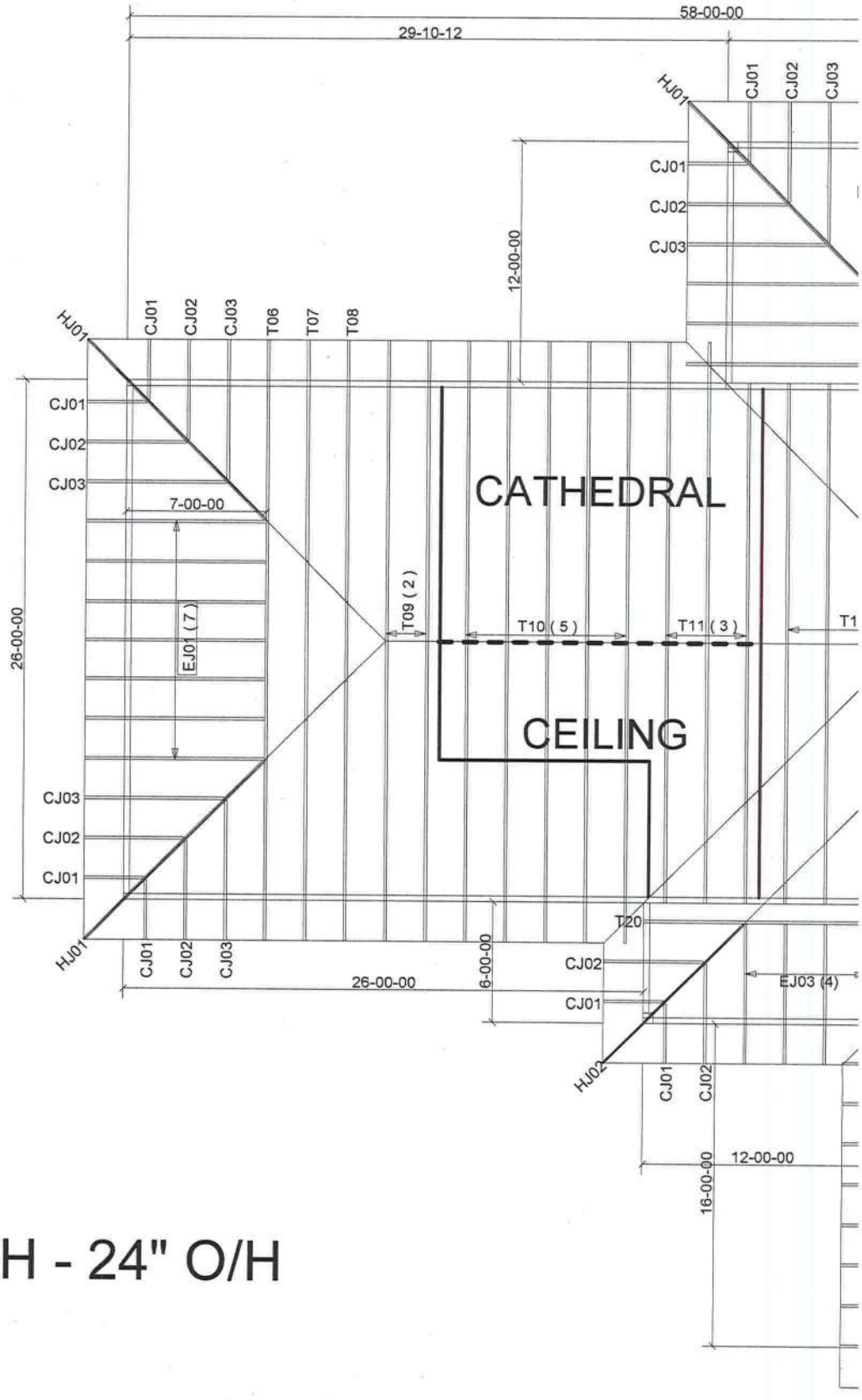

5/12 PITCH - 24" O/H

MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYER

BEARING HEIGHT SCHEDULE

	8' 1-1/8"

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

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Tampa
PHONE: 813-621-9831 FAX: 813-628-8956

Freeport
PHONE: 850-835-4541 FAX: 850-835-6835

BUILDER: MIKE ROBERTS			
LEGAL ADDRESS: LOT 7 CANNON CREEK			
MODEL: CUSTOM		Revision:	Rev. By:
DATE: 9-11-15	DRAWN BY: KLH	Original Reference #: 712357	
1st Level Job#:	2nd Level Job #:	Roof Job#: 712357	

USER PRODUCT #'s 1630.2 - 1630.10