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COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

Julius Lee

RE: 497392 - GIEBEIG - Lot 44 Mayfair

1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

Site Information:
Project Customer: GIEBEIG HOMES Project Name: 497392 Model: ST. JOHNS MODIFIED
Lot/Block: 44 Subdivision: MAYFAIR
Address:
City: COLUMBIA CTY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: BRIAN TRENT GIEBEIG License #: RR282811523
Address: 462 SW FAIRLINGTON CT
City: LAKE CITY State: FL

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
FBC 2010/TPI 20O7 Design Program: MiTek 20/20 7.3
ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 29 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	I6822107	CJ1	6/5/013	18	I6822124	T11	6/5/013
2	I6822108	CJ3	6/5/013	19	I6822125	T12	6/5/013
3	I6822109	CJ5	6/5/013	20	I6822126	T13	6/5/013
4	I6822110	EJ01	6/5/013	21	I6822127	T14	6/5/013
5	I6822111	EJ7	6/5/013	22	I6822128	T15	6/5/013
6	I6822112	HJ01	6/5/013	23	I6822129	T15A	6/5/013
7	I6822113	HJ9	6/5/013	24	I6822130	T16	6/5/013
8	I6822114	T01	6/5/013	25	I6822131	T17	6/5/013
9	I6822115	T02	6/5/013	26	I6822132	T18	6/5/013
10	I6822116	T03	6/5/013	27	I6822133	T19	6/5/013
11	I6822117	T04	6/5/013	28	I6822134	T20	6/5/013
12	I6822118	T05	6/5/013	29	I6822135	T21	6/5/013
13	I6822119	T06	6/5/013				
14	I6822120	T07	6/5/013				
15	I6822121	T08	6/5/013				
16	I6822122	T09	6/5/013				
17	I6822123	T10	6/5/013				

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

Truss Design Engineer's Name: Julius Lee

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

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

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

June 5,2013

Julius Lee

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822107
497392	CJ1	Jack-Open Truss	18	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:18 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-mS67AmzrDB14g8pRcAsn?7Jf3Q7DEw5rNCyGfQz9KsZ

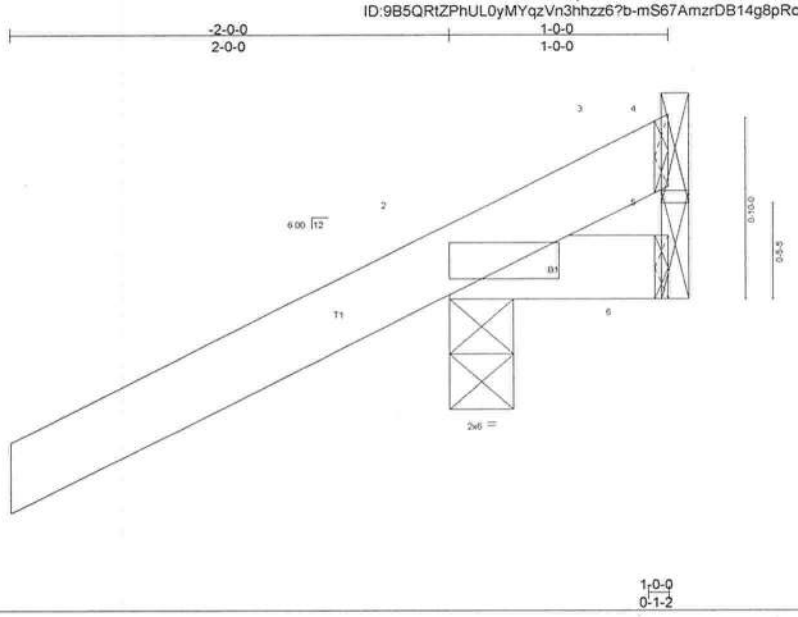


Plate Offsets (X,Y): [2:0-6-0,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	0.00	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 FBC2010/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.

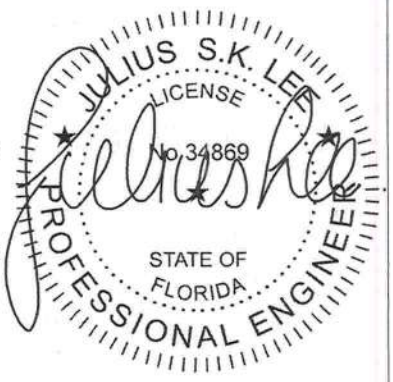
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=187/0-3-8 (min. 0-1-8), 3=-16/Mechanical, 6=-30/Mechanical
Max Horz 2=53(LC 12)
Max Uplift 2=-104(LC 12), 3=-20(LC 2), 6=-38(LC 2)
Max Grav 2=228(LC 2), 3=11(LC 8), 6=25(LC 12)

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

NOTES (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2, 20 lb uplift at joint 3 and 38 lb uplift at joint 6.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation 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



June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822109
497392	CJ5	Jack-Open Truss	14	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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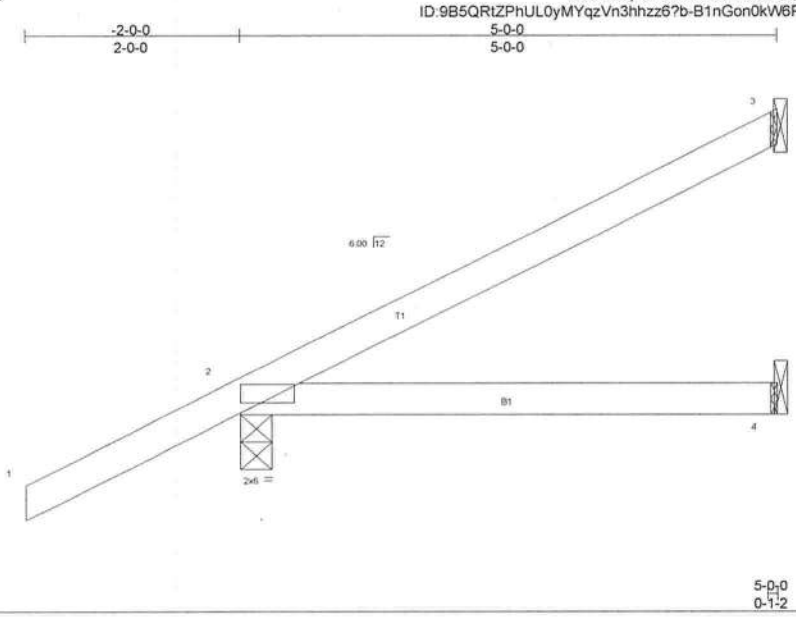

Plate Offsets (X,Y): [2:0-6-0,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	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 FBC2010/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.

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

REACTIONS (lb/size) 3=79/Mechanical, 2=253/0-3-8 (min. 0-1-8), 4=23/Mechanical
Max Horz 2=128(LC 12)
Max Uplift3=-70(LC 12), 2=-105(LC 12), 4=-26(LC 9)
Max Grav 3=97(LC 2), 2=304(LC 2), 4=56(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-281/457
BOT CHORD 2-4=-740/436

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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 3, 105 lb uplift at joint 2 and 26 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

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822111
497392	EJ7	Jack-Partial Truss	29	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:23 2013 Page 1

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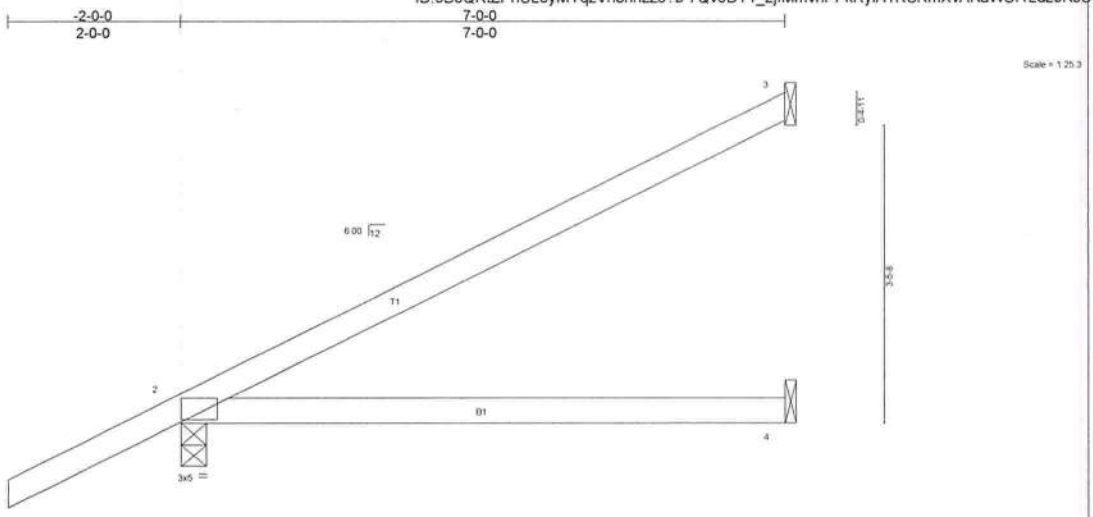

Plate Offsets (X,Y): [2:0-5-0,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	0.19	4-7	>436	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	0.16	4-7	>527	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2010/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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 3=113/Mechanical, 2=318/0-3-8 (min. 0-1-8), 4=32/Mechanical
Max Horz 2=115(LC 12)
Max Uplift 3=-64(LC 12), 2=-96(LC 9), 4=-34(LC 9)
Max Grav 3=139(LC 2), 2=380(LC 2), 4=79(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-685/1162
BOT CHORD 2-4=-1754/1060

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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3, 96 lb uplift at joint 2 and 34 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) 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

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822113
497392	HJ9	Diagonal Hip Girder	7	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:26 2013 Page 1

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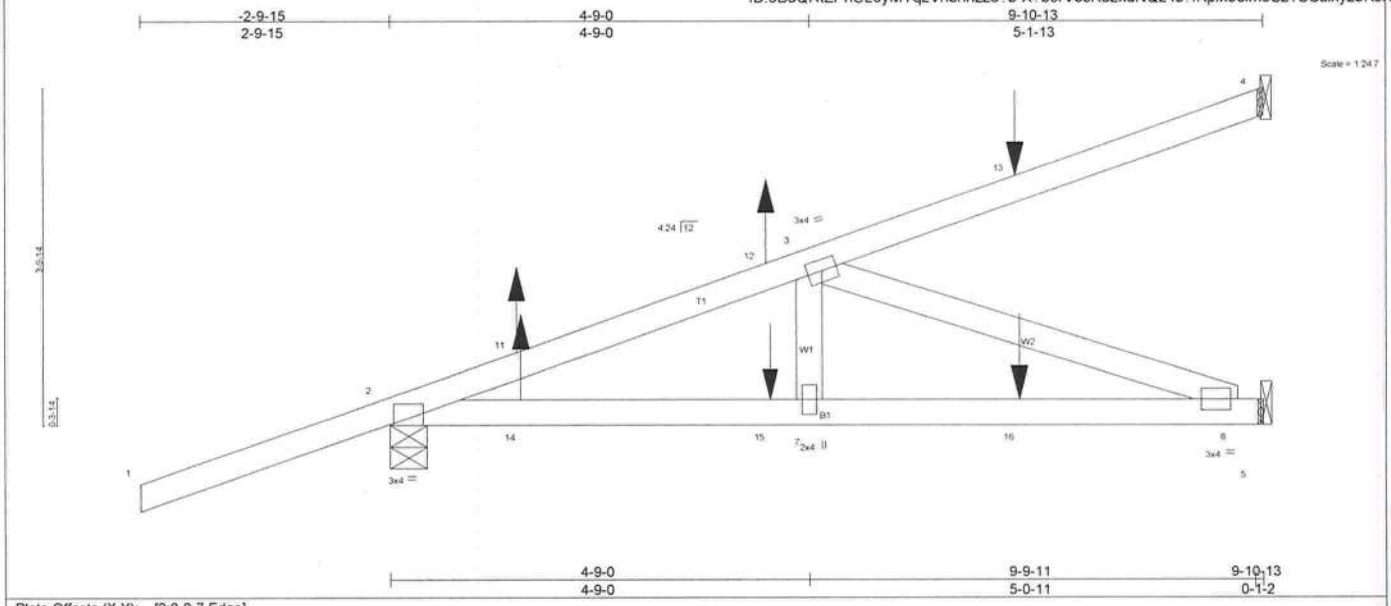

Plate Offsets (X,Y): [2:0-0-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	0.08	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.45	Vert(TL)	-0.10	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2010/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 8-3-13 oc bracing.

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

REACTIONS (lb/size) 4=120/Mechanical, 2=370/0-4-15 (min. 0-1-8), 5=194/Mechanical
Max Horz 2=186(LC 4)
Max Uplift4=-105(LC 4), 2=-285(LC 4), 5=-194(LC 4)
Max Grav 4=147(LC 2), 2=454(LC 2), 5=225(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-623/380, 11-12=-571/398, 3-12=-571/387
BOT CHORD 2-14=-463/571, 14-15=-463/571, 7-15=-463/571, 7-16=-463/571, 6-16=-463/571
WEBS 3-6=-605/491

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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 4, 285 lb uplift at joint 2 and 194 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) 27 lb down and 49 lb up at 1-5-12, 27 lb down and 49 lb up at 1-5-12, 3 lb down and 41 lb up at 4-3-11, 3 lb down and 41 lb up at 4-3-11, and 43 lb down and 73 lb up at 7-1-10, and 43 lb down and 73 lb up at 7-1-10 on top chord, and 15 lb down and 28 lb up at 1-5-12, 15 lb down and 28 lb up at 1-5-12, 3 lb down and 25 lb up at 4-3-11, 3 lb down and 25 lb up at 4-3-11, and 26 lb down and 36 lb up at 7-1-10, and 26 lb down and 36 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44, 5-8=-10

Continued on page 2

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822114
497392	T01	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:28 2013 Page 1

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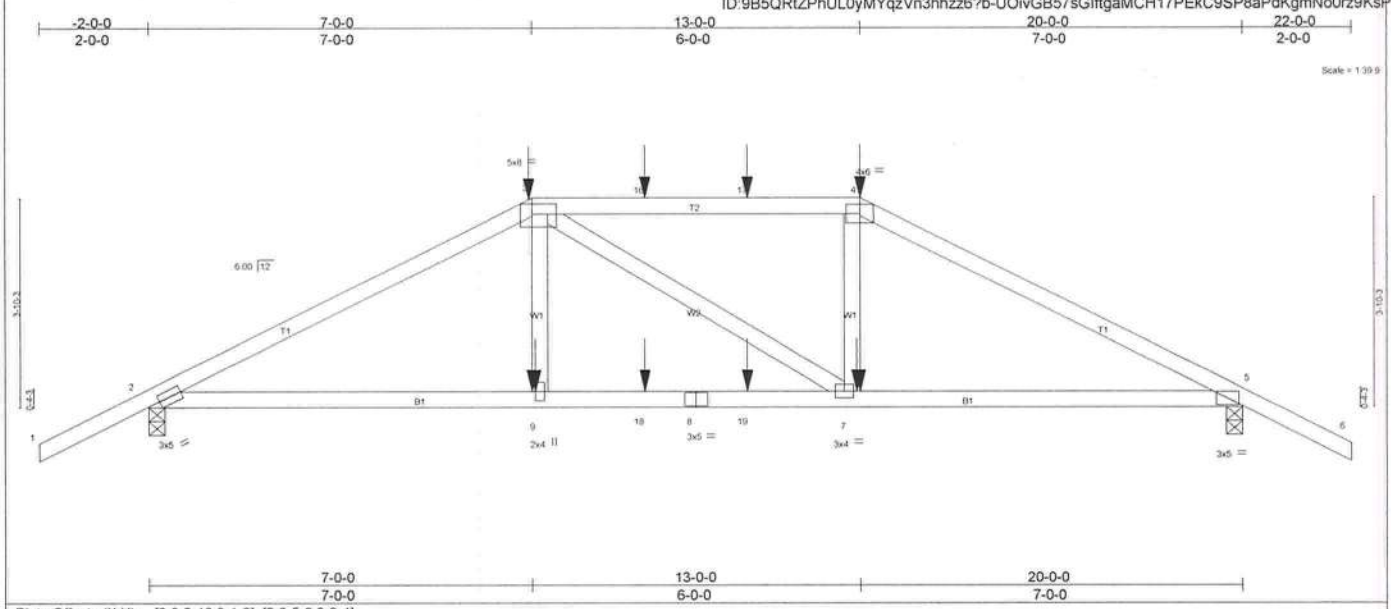

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [3:0-5-8,0-2-4]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.85	Vert(LL)	0.17	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.19	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 88 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 3-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1040/0-3-8 (min. 0-1-8), 5=1040/0-3-8 (min. 0-1-8)
Max Horz 2=45(LC 8)
Max Uplift2=-654(LC 8), 5=-647(LC 9)
Max Grav 2=1231(LC 2), 5=1231(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2020/1294, 3-16=-1744/1185, 16-17=-1744/1185, 4-17=-1744/1185, 4-5=-2021/1282
BOT CHORD 2-9=-1114/1731, 9-18=-1126/1743, 8-18=-1126/1743, 8-19=-1126/1743, 7-19=-1126/1743, 5-7=-1089/1732
WEBS 3-9=-285/494, 4-7=-298/495

NOTES (11-13)
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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 654 lb uplift at joint 2 and 647 lb uplift at joint 5.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 163 lb down and 204 lb up at 7-0-0, 85 lb down and 72 lb up at 9-0-12, and 85 lb down and 72 lb up at 10-11-4, and 203 lb down and 204 lb up at 13-0-0 on top chord, and 258 lb down and 286 lb up at 7-0-0, 49 lb down and 44 lb up at 9-0-12, and 49 lb down and 44 lb up at 10-11-4, and 258 lb down and 286 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44, 4-6=-44, 10-13=-10

Continued on page 2

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822115
497392	T02	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:29 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-yaGHUW6ldZQWUq9YI_YMyRHXHsnrJsbTvQ6MYHz9KsO

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

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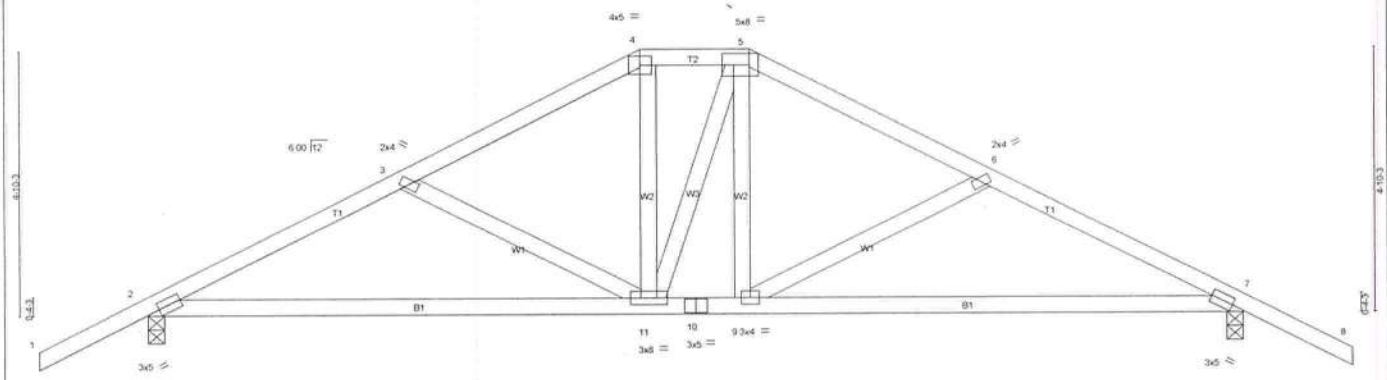

9-0-0	11-0-0	20-0-0
9-0-0	2-0-0	9-0-0

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [5:0-6-0,0-2-8], [7:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.11	9-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.21	9-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 103 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=628/0-3-8 (min. 0-1-8), 2=628/0-3-8 (min. 0-1-8)
Max Horz 2=-59(LC 10)
Max Uplift 7=-117(LC 13), 2=-117(LC 12)
Max Grav 7=748(LC 2), 2=748(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1066/497, 3-4=-815/384, 4-5=-703/381, 5-6=-814/383, 6-7=-1066/496
BOT CHORD 2-11=-339/910, 10-11=-151/668, 9-10=-151/668, 7-9=-345/912
WEBS 3-11=-291/221, 6-9=-292/221

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 7 and 117 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822117
497392	T04	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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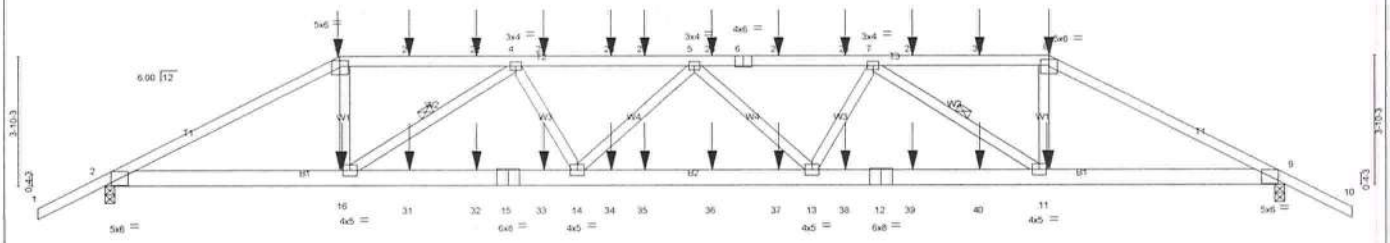
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-IX4AXEAtS62obb1WYX8XfV_GFtNt_1qC2hq7DUz9KsJ

-2-0-0	7-0-0	12-2-13	17-6-8	22-10-3	28-1-0	35-1-0	37-1-0
2-0-0	7-0-0	5-2-13	5-3-11	5-3-11	5-2-13	7-0-0	2-0-0

Scale = 1:64.6



7-0-0	14-0-10	21-0-6	28-1-0	35-1-0
7-0-0	7-0-10	6-11-11	7-0-10	7-0-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.75	Vert(LL)	0.45	13-14	>929	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.75	13-14	>561	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(TL)	0.19	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 195 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP M 31 *Except* T2,T3: 2x4 SP No.1

BOT CHORD 2x6 SP No.2 *Except* B2: 2x6 SP SS

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 4-7-12 oc bracing.

WEBS 1 Row at midpt 4-16, 7-11

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

REACTIONS (lb/size) 2=1782/0-3-8 (min. 0-2-8), 9=1823/0-3-8 (min. 0-2-9)
Max Horz 2=-45(LC 9)
Max Uplift 2=-927(LC 8), 9=-972(LC 9)
Max Grav 2=2113(LC 2), 9=2163(LC 2)

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

TOP CHORD 2-3=-4111/1997, 3-21=-3666/1836, 21-22=-3666/1836, 4-22=-3666/1836, 4-23=-5309/2654, 23-24=-5309/2654, 24-25=-5309/2654, 5-25=-5309/2654, 5-26=-5327/2666, 6-26=-5327/2666, 6-27=-5327/2666, 27-28=-5327/2666, 7-28=-5327/2666, 7-29=-3765/1934, 29-30=-3765/1934, 8-30=-3765/1934, 8-9=-4224/2109

BOT CHORD 2-16=-1753/3608, 16-31=-2478/5087, 31-32=-2478/5087, 15-32=-2478/5087, 15-33=-2478/5087, 14-33=-2478/5087, 14-34=-2722/5588, 34-35=-2722/5588, 35-36=-2722/5588, 36-37=-2722/5588, 13-37=-2722/5588, 13-38=-2493/5118, 12-38=-2493/5118, 12-39=-2493/5118, 39-40=-2493/5118, 11-40=-2493/5118, 9-11=-1822/3709

WEBS 3-16=-745/1382, 4-16=-1797/887, 4-14=-291/536, 5-14=-424/190, 5-13=-387/158, 7-13=-252/523, 7-11=-1701/804, 8-11=-699/1329

NOTES (11-13)

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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 927 lb uplift at joint 2 and 972 lb uplift at joint 9.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 72 lb up at 7-0-0, 85 lb down and 72 lb up at 9-0-12, 85 lb down and 72 lb up at 11-0-12, 85 lb down and 72 lb up at 13-0-12, 85 lb down and 72 lb up at 15-0-12, 85 lb down and 72 lb up at 16-0-12, 85 lb down and 72 lb up at 18-0-12, 85 lb down and 72 lb up at 20-0-8, 85 lb down and 72 lb up at 22-0-4, 85 lb down and 72 lb up at 24-0-4, and 85 lb down and 72 lb up at 26-0-4, and 218 lb down and 185 lb up at 28-1-0 on top chord, and 241 lb down and 248 lb up at 7-0-0, 49 lb down and 44 lb up at 9-0-12, 49 lb down and 44 lb up at 11-0-12, 49 lb down and 44 lb up at 13-0-12, 49 lb down and 44 lb up at 15-0-12, 49 lb down and 44 lb up at 16-0-12, 49 lb down and 44 lb up at 18-0-12, 49 lb down and 44 lb up at 20-0-8, 49 lb down and 44 lb up at 22-0-4, 49 lb down and 44 lb up at 24-0-4, and 49 lb down and 44 lb up at 26-0-4, and 241 lb down and 248 lb up at 28-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

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

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822118
497392	T05	Hip Truss	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:36 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-FwBxywB8_jIWqvBugyA?kw3hBg8ASwaVW?JDINz9KsH

-2-0-0	4-9-5	9-0-0	14-7-9	20-5-7	26-1-0	30-3-11	35-1-0	37-1-0
2-0-0	4-9-5	4-2-11	5-7-9	5-9-14	5-7-9	4-2-11	4-9-5	2-0-0

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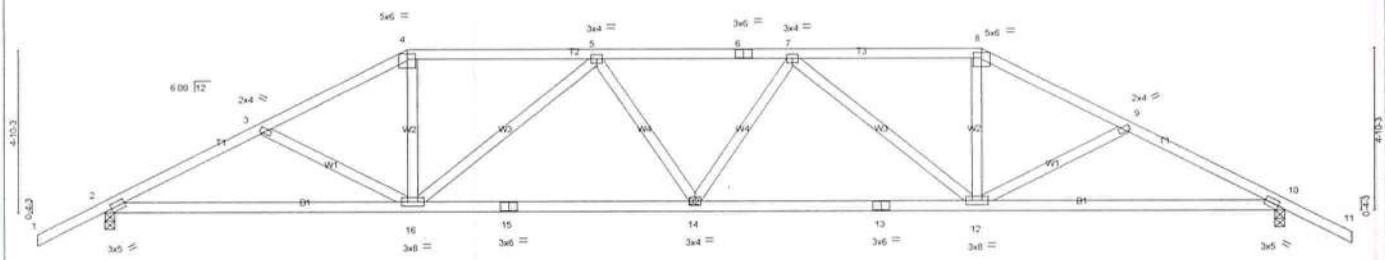


9-0-0	17-6-8	26-1-0	35-1-0
9-0-0	8-6-8	8-6-8	9-0-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.18	14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.38	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.13	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 177 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-11-5 oc bracing.

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

REACTIONS (lb/size) 2=1035/0-3-8 (min. 0-1-8), 10=1035/0-3-8 (min. 0-1-8)
Max Horz 2=-59(LC 10)
Max Uplift 2=-147(LC 9), 10=-147(LC 8)
Max Grav 2=1231(LC 2), 10=1231(LC 2)

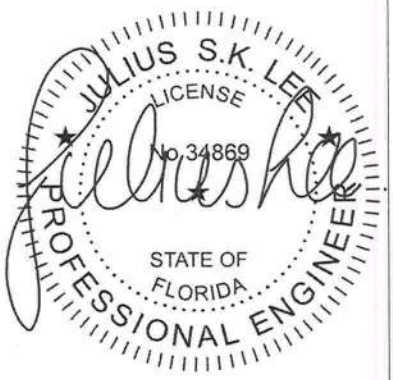
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2080/897, 3-4=-1852/794, 4-5=-1643/755, 5-6=-2103/934, 6-7=-2103/934, 7-8=-1643/754, 8-9=-1852/794, 9-10=-2080/896
BOT CHORD	2-16=-691/1806, 15-16=-719/2069, 14-15=-719/2069, 13-14=-720/2069, 12-13=-720/2069, 10-12=-698/1806
WEBS	4-16=-200/552, 5-16=-649/256, 7-12=-649/256, 8-12=-200/552

NOTES (9-11)

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

LOAD CASE(S) Standard



June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822120
497392	T07	Hip Truss	1	1	Job Reference (optional)	

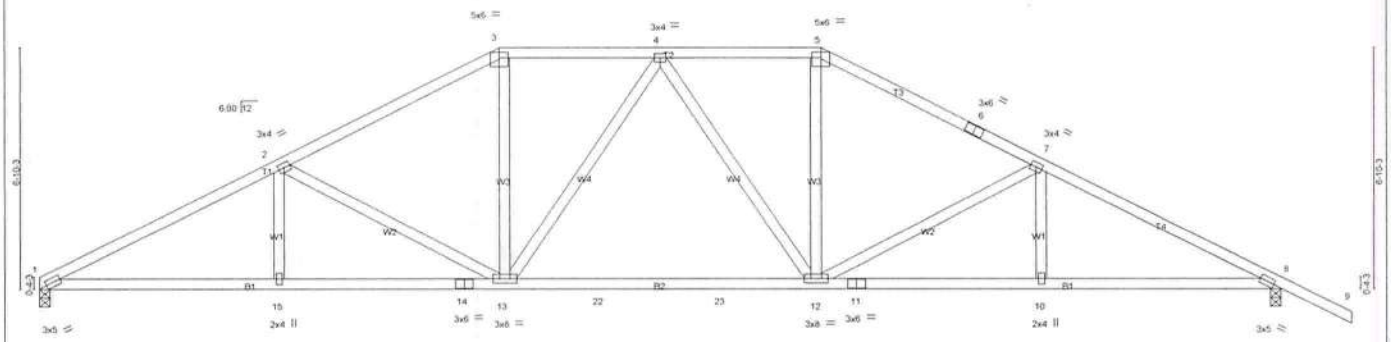
Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:40 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-7hRRnHEe1ypyJWUgvoFxumEMclUVOmY5RdHRR8z9KsD

6-9-4	13-0-0	17-6-8	22-1-0	28-3-12	35-1-0	37-1-0
6-9-4	6-2-12	4-6-8	4-6-8	6-2-12	6-9-4	2-0-0

Scale = 1:61.6



6-9-4	13-0-0	22-1-0	28-3-12	35-1-0
6-9-4	6-2-12	9-1-0	6-2-12	6-9-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.25	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.45	12-13	>929	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(TL)	0.11	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 184 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-12 oc bracing.

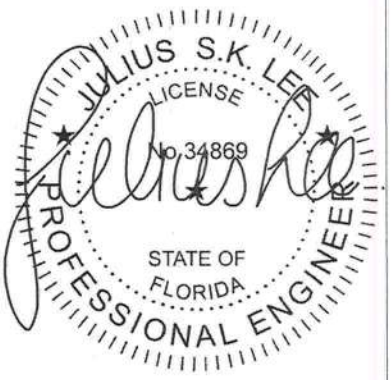
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=997/0-3-8 (min. 0-1-8), 8=1087/0-3-8 (min. 0-1-8)
Max Horz 1=-86(LC 17)
Max Uplift 1=-145(LC 12), 8=-172(LC 13)
Max Grav 1=1122(LC 2), 8=1232(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2150/867, 2-3=-1755/738, 3-4=-1534/713, 4-5=-1534/712, 5-6=-1688/737, 6-7=-1754/716, 7-8=-2145/863
BOT CHORD 1-15=-711/1856, 14-15=-653/1856, 13-14=-653/1856, 13-22=-443/1549, 22-23=-443/1549, 12-23=-443/1549, 11-12=-648/1851, 10-11=-648/1851, 8-10=-648/1851
WEBS 2-13=-452/294, 3-13=-159/483, 4-13=-275/96, 4-12=-276/96, 5-12=-158/483, 7-12=-447/289

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 1 and 172 lb uplift at joint 8.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

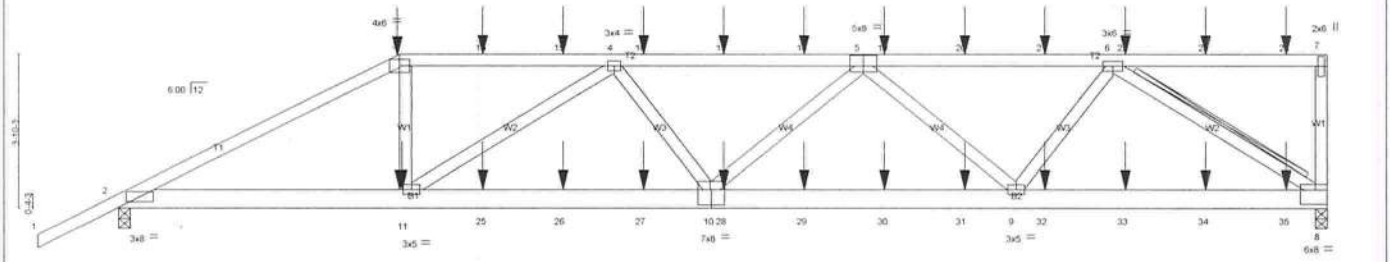
Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822122
497392	T09	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:46 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-yroj2KJPdoZ51RypF3ML81UHxiVpoNZzpZkIfoz9Ks7

-2-0-0	7-0-0	12-4-0	18-6-7	24-9-0	30-1-0
2-0-0	7-0-0	5-4-0	6-2-7	6-2-9	5-4-0

Scale = 1:54.3



7-0-0	14-8-12	22-4-3	30-1-0
7-0-0	7-8-12	7-7-8	7-8-13

Plate Offsets (X,Y): [2:0-10-4,0-1-9], [5:0-4-0,0-3-4], [8:Edge,0-4-4], [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	Plates Increase	1.25	TC	0.89	Vert(LL)	0.29	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.45	10	>792	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.12	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 173 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.
WEBS T-Brace: 2-X 6 SYP No.2 - 6-8
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS (lb/size) 8=1517/0-3-8 (min. 0-2-2), 2=1507/0-3-8 (min. 0-2-2)
Max Horz 2=116(LC 8)
Max Uplift 8=-885(LC 5), 2=-846(LC 8)
Max Grav 8=1796(LC 2), 2=1786(LC 2)

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

TOP CHORD 2-3=-3376/1804, 3-14=-2991/1654, 14-15=-2991/1654, 4-15=-2991/1654, 4-16=-3883/2009, 16-17=-3883/2009, 17-18=-3883/2009, 5-18=-3883/2009, 5-19=-2912/1462, 19-20=-2912/1462, 20-21=-2912/1462, 6-21=-2912/1462
BOT CHORD 2-11=-1631/2950, 11-25=-2015/3875, 25-26=-2015/3875, 26-27=-2015/3875, 10-27=-2015/3875, 10-28=-1878/3731, 28-29=-1878/3731, 29-30=-1878/3731, 30-31=-1878/3731, 9-31=-1878/3731, 9-32=-1123/2279, 32-33=-1123/2279, 33-34=-1123/2279, 34-35=-1123/2279, 8-35=-1123/2279
WEBS 3-11=-550/983, 4-11=-1146/468, 5-10=-194/342, 5-9=-1108/562, 6-9=-596/1112, 6-8=-2699/1331

NOTES (12-14)

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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 885 lb uplift at joint 8 and 846 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 163 lb down and 204 lb up at 7-0-0, 85 lb down and 72 lb up at 9-0-12, 85 lb down and 72 lb up at 11-0-12, 85 lb down and 72 lb up at 13-0-12, 85 lb down and 72 lb up at 15-0-12, 85 lb down and 72 lb up at 17-0-12, 85 lb down and 72 lb up at 19-0-12, 85 lb down and 72 lb up at 21-0-12, 85 lb down and 72 lb up at 23-0-12, 85 lb down and 72 lb up at 25-0-12, and 85 lb down and 72 lb up at 27-0-12, and 85 lb down and 72 lb up at 29-0-12 on top chord, and 258 lb down and 286 lb up at 7-0-0, 49 lb down and 44 lb up at 9-0-12, 49 lb down and 44 lb up at 11-0-12, 49 lb down and 44 lb up at 13-0-12, 49 lb down and 44 lb up at 15-0-12, 49 lb down and 44 lb up at 17-0-12, 49 lb down and 44 lb up at 19-0-12, 49 lb down and 44 lb up at 21-0-12, 49 lb down and 44 lb up at 23-0-12, 49 lb down and 44 lb up at 25-0-12, and 49 lb down and 44 lb up at 27-0-12, and 49 lb down and 44 lb up at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	
497392	T10	MONO HIP	1	1	Job Reference (optional)	I6822123

Builders FirstSource, Lake City, FL 32055

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ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-uEwTT0Kf9PppGl6CNUOpDSZjiWAGGNdGGtDsjgz9Ks5

-2-0-0	4-9-5	9-0-0	15-11-9	23-1-7	30-1-0
2-0-0	4-9-5	4-2-11	6-11-9	7-1-14	6-11-9

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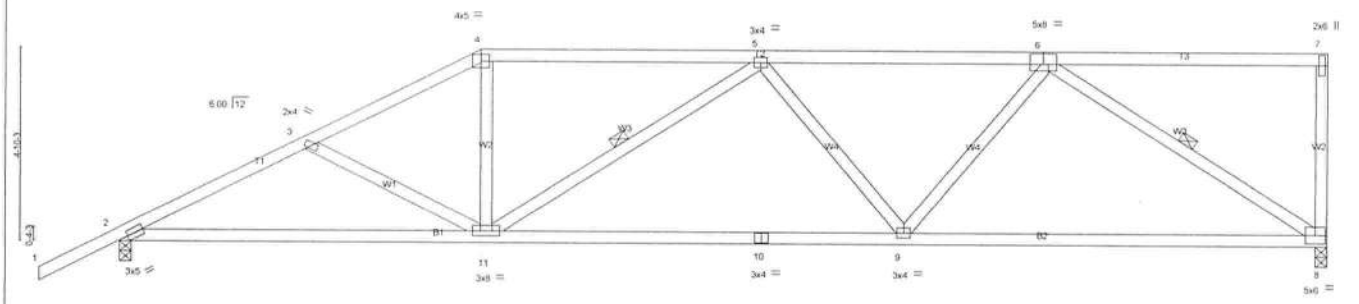


9-0-0	19-6-7	30-1-0
9-0-0	10-6-7	10-6-8

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.29	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.53	8-9	>674	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.08	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 155 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 4-3-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.
WEBS 1 Row at midpt 5-11, 6-8

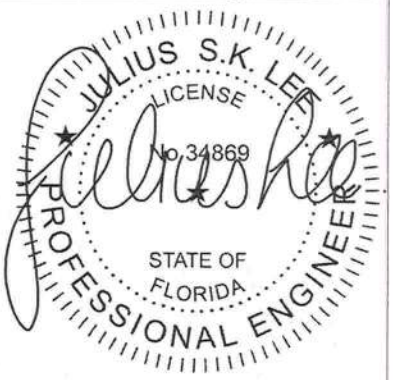
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=802/0-3-8 (min. 0-1-8), 2=903/0-3-8 (min. 0-1-8)
Max Horz 2=143(LC 12)
Max Uplift 8=-183(LC 9), 2=-134(LC 9)
Max Grav 8=950(LC 2), 2=1074(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1753/721, 3-4=-1523/620, 4-5=-1337/597, 5-6=-1411/571
BOT CHORD 2-11=-772/1546, 10-11=-697/1587, 9-10=-697/1587, 8-9=-501/1153
WEBS 4-11=-101/387, 5-11=-407/126, 5-9=-289/205, 6-9=-115/465, 6-8=-1349/593

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 8 and 134 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	
497392	T12	SPECIAL	1	1	Job Reference (optional)	I6822125

Builders FirstSource, Lake City, FL 32055

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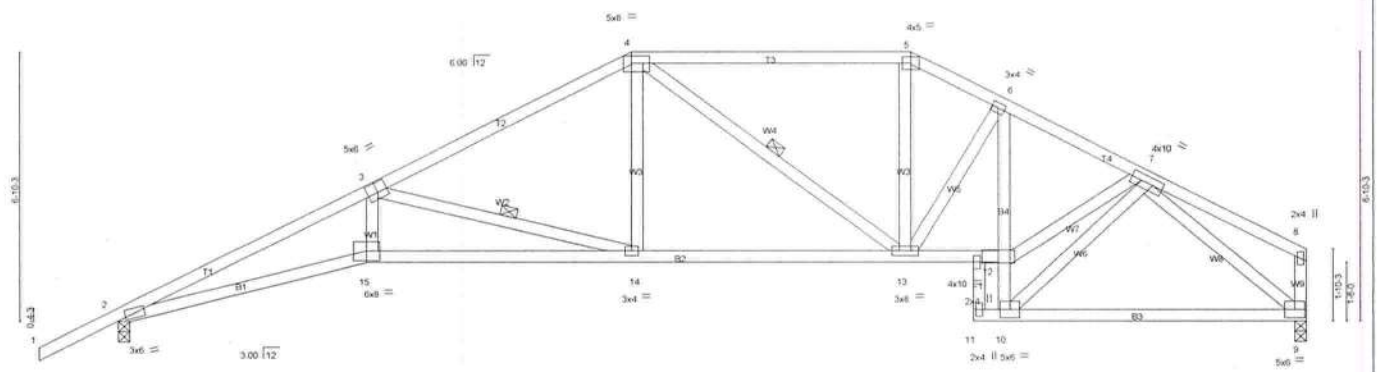
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-qc2DuiMwh03XW3FbUvQHIte?iJsOkFLZkBizoZz9Ks3

-2-0-0	6-3-8	13-0-0	20-1-0	22-3-8	26-0-10	30-1-0
2-0-0	6-3-8	6-8-8	7-1-0	2-2-8	3-9-2	4-0-5

Scale = 1:55.2



6-3-8	13-0-0	20-1-0	21-8-0	22-3-8	30-1-0
6-3-8	6-8-8	7-1-0	1-7-0	0-7-8	7-9-8

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [4:0-5-8,0-2-4], [16:0-2-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	0.26	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.50	14-15	>721	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.29	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 175 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B4: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing. Except:
9-5-0 oc bracing: 10-12
WEBS 1 Row at midpt 3-14, 4-13

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

REACTIONS (lb/size) 2=903/0-3-8 (min. 0-1-8), 9=809/0-3-8 (min. 0-1-8)
Max Horz 2=113(LC 12)
Max Uplift 2=-158(LC 12), 9=-111(LC 13)
Max Grav 2=1074(LC 2), 9=958(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3218/1364, 3-4=-1659/720, 4-5=-1316/640, 5-6=-1460/679, 6-7=-1573/699
BOT CHORD 2-15=-1239/2910, 14-15=-1170/2735, 13-14=-493/1419, 12-13=-496/1361, 10-12=-345/858, 9-10=-386/928
WEBS 3-15=-257/738, 3-14=-1394/706, 4-14=-143/465, 4-13=-281/78, 5-13=-142/377, 7-12=-558/1426, 7-10=-1139/527, 7-9=-1199/511

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 B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2 and 111 lb uplift at joint 9.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) 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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822127
497392	T14	SPECIAL	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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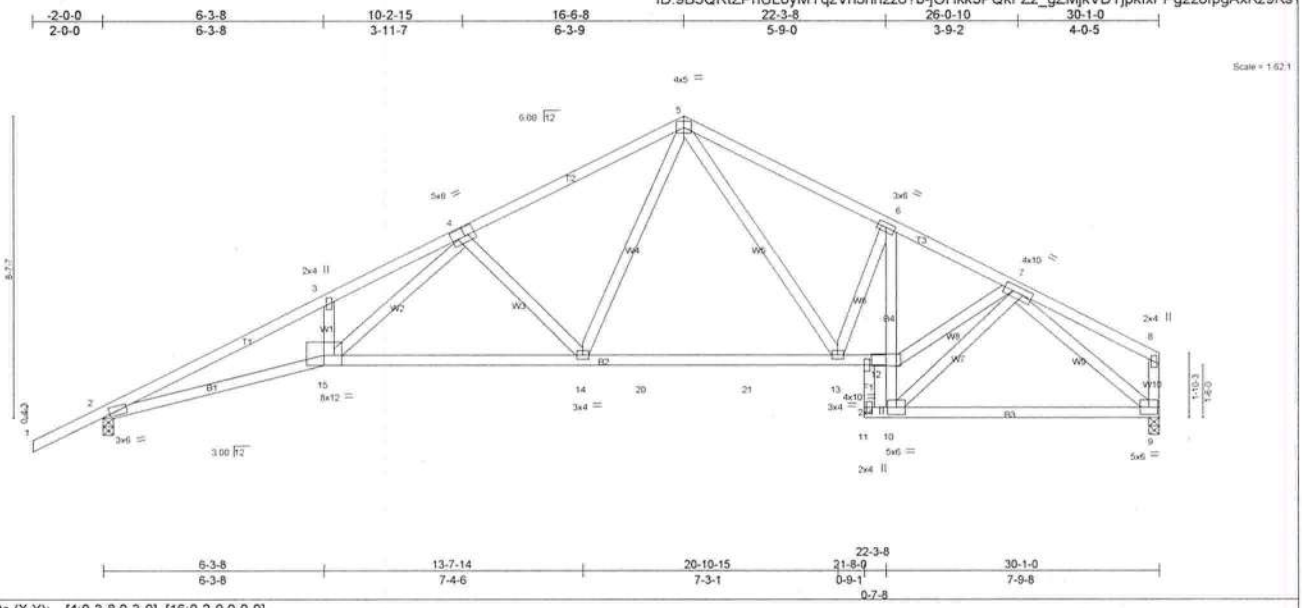


Plate Offsets (X,Y): [4:0-3-8,0-3-0], [16:0-2-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	0.25	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.50	14-15	>723	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.27	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 176 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B4: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing. Except:
9-5-0 oc bracing: 10-12

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

REACTIONS (lb/size) 2=943/0-3-8 (min. 0-1-8), 9=859/0-3-8 (min. 0-1-8)
Max Horz 2=130(LC 12)
Max Uplift 2=-171(LC 12), 9=-127(LC 13)
Max Grav 2=1074(LC 2), 9=957(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3339/1354, 3-4=-3323/1460, 4-5=-1698/752, 5-6=-1707/778, 6-7=-1698/728
BOT CHORD 2-15=-1224/3011, 14-15=-733/1907, 14-20=-327/1114, 20-21=-327/1114, 13-21=-327/1114, 12-13=-545/1497, 10-12=-341/881, 9-10=-395/987
WEBS 4-15=-635/1403, 4-14=-739/429, 5-14=-290/739, 5-13=-248/556, 6-13=-284/227, 7-12=-585/1519, 7-10=-1171/520, 7-9=-1275/519

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2 and 127 lb uplift at joint 9.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822129
497392	T15A	SPECIAL	1	1	Job Reference (optional)	

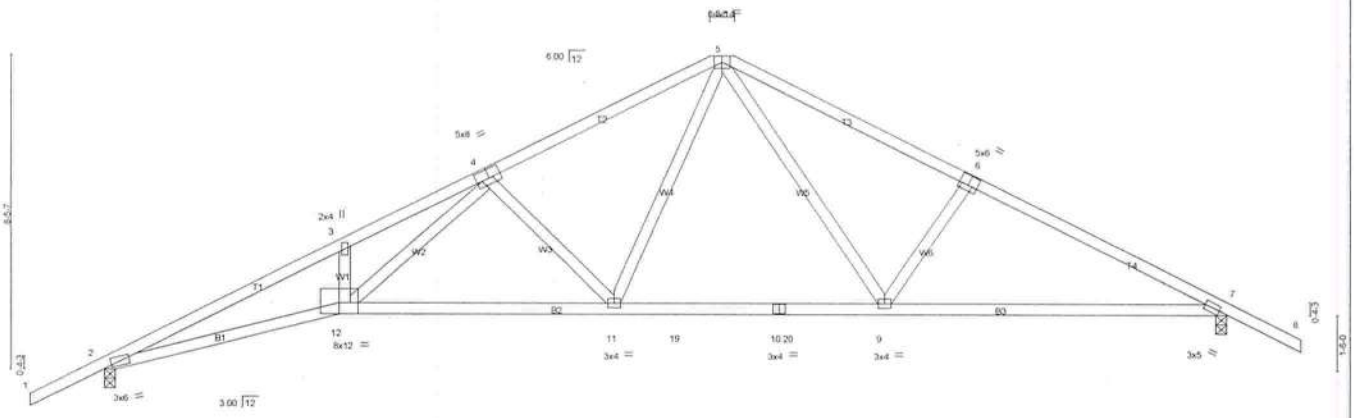
Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:18:57 2013 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-7zztM5RJ1AyXr8IxOt3w4LRFc8HRtS_bLnurWfz9Kry

-2-0-0	6-3-8	10-2-15	16-6-8	23-1-7	30-1-0	32-1-0
2-0-0	6-3-8	3-11-7	6-3-9	6-6-15	6-11-9	2-0-0

Scale = 1:58.5



6-3-8	13-7-14	20-10-15	30-1-0
6-3-8	7-4-6	7-3-1	9-2-1

Plate Offsets (X,Y): [4:0-3-12,0-3-0], [6:0-3-0,0-3-4], [7:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	0.24	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.49	11-12	>738	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.20	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 147 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 2-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.

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

REACTIONS (lb/size) 2=936/0-3-8 (min. 0-1-8), 7=955/0-3-8 (min. 0-1-8)
Max Horz 2=116(LC 12)
Max Uplift 2=-173(LC 12), 7=-159(LC 13)
Max Grav 2=1066(LC 2), 7=1075(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3300/1288, 3-4=-3286/1396, 4-5=-1679/735, 5-6=-1654/740, 6-7=-1821/748
BOT CHORD 2-12=-1114/2978, 11-12=-667/1888, 11-19=-282/1115, 10-19=-282/1115, 10-20=-282/1115, 9-20=-282/1115, 7-9=-544/1560
WEBS 4-12=-593/1390, 4-11=-713/404, 5-11=-276/726, 5-9=-209/476, 6-9=-338/270

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 159 lb uplift at joint 7.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	
497392	T17	SPECIAL	1	1	Job Reference (optional)	I6822131

Builders FirstSource, Lake City, FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Wed Jun 05 12:19:00 2013 Page 1

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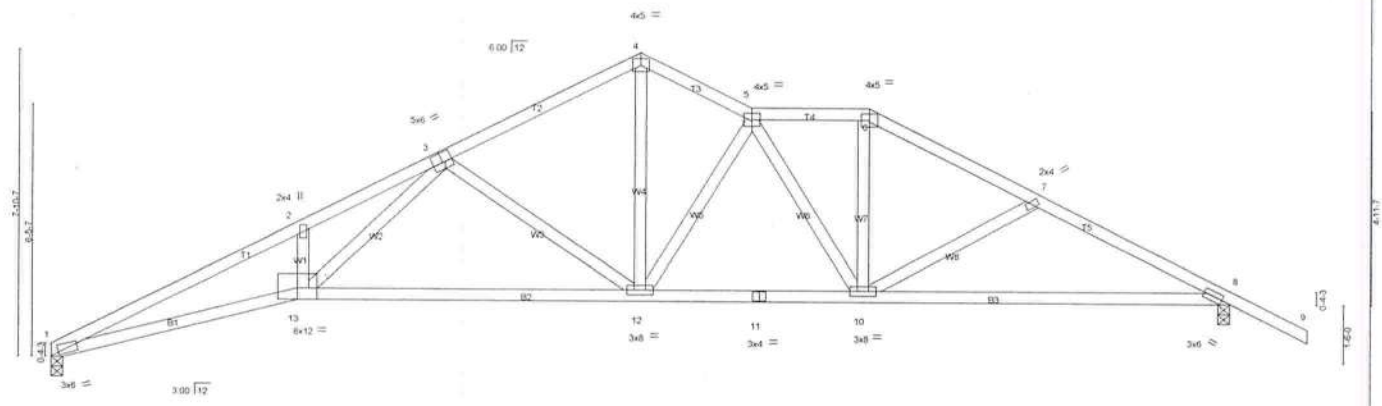
6-3-8	10-0-11	15-0-8	17-10-8	20-10-8	25-0-6	30-1-0	32-1-0
6-3-8	3-9-3	4-11-13	2-10-0	3-0-0	4-1-14	5-0-10	2-0-0

Scale = 1:55.7



6-3-8	15-0-8	19-10-8	20-10-8	30-1-0
6-3-8	8-9-0	4-10-0	1-0-0	9-2-8

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.28	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.61	12-13	>588	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.21	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 154 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 2-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.

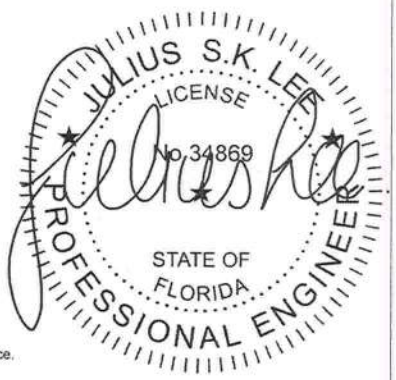
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=807/0-3-8 (min. 0-1-8), 8=906/0-3-8 (min. 0-1-8)
Max Horz 1=88(LC 12)
Max Uplift 1=-142(LC 12), 8=-168(LC 13)
Max Grav 1=956(LC 2), 8=1077(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3199/1341, 2-3=-3200/1455, 3-4=-1418/665, 4-5=-1379/676, 5-6=-1335/654, 6-7=-1510/684, 7-8=-1743/785
BOT CHORD 1-13=-1175/2894, 12-13=-699/1813, 11-12=-494/1453, 10-11=-494/1453, 8-10=-596/1506
WEBS 3-13=-628/1401, 3-12=-774/430, 4-12=-447/985, 5-12=-538/290, 5-10=-311/144, 6-10=-178/449, 7-10=-262/208

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 B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 1 and 168 lb uplift at joint 8.
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



June 5,2013

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	
497392	T19	COMMON	2	1	Job Reference (optional)	I6822133

Builders FirstSource, Lake City, FL 32055

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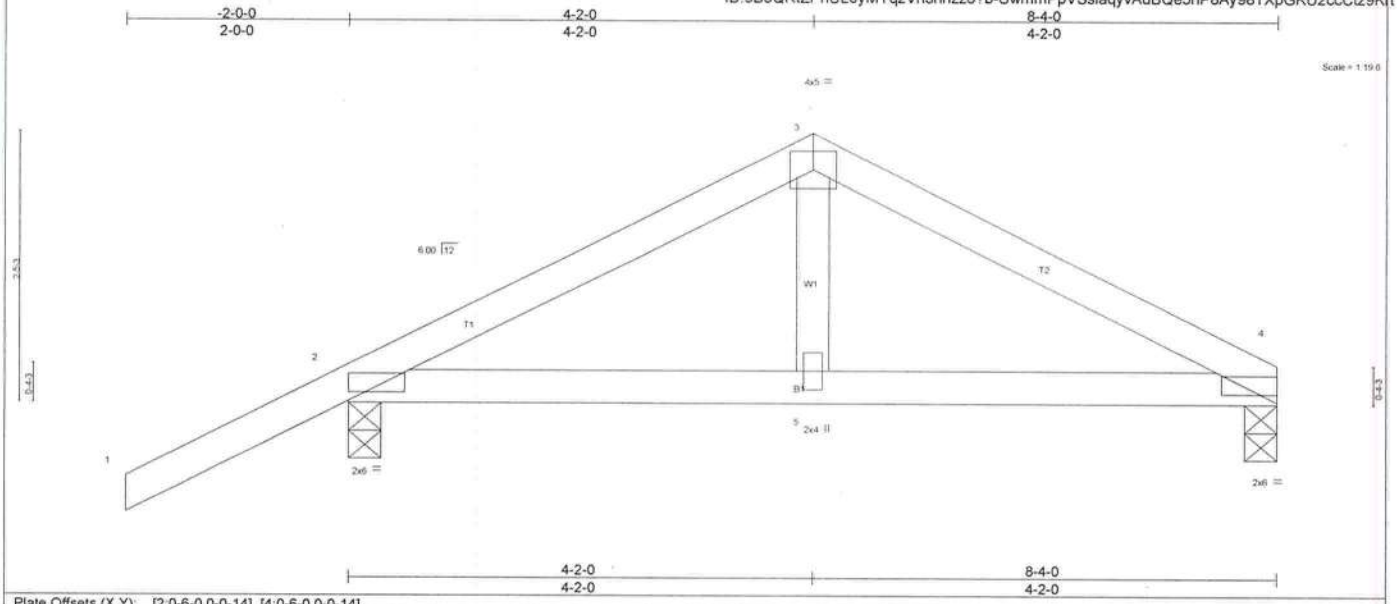


Plate Offsets (X,Y): [2:0-6-0,0-0-14], [4:0-6-0,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.02	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 33 lb	FT = 20%

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

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

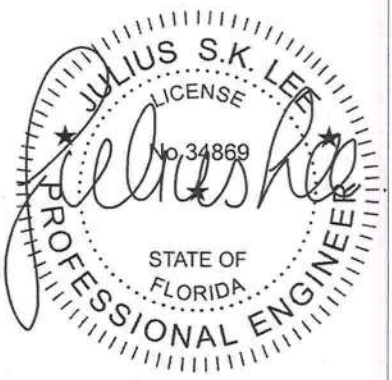
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=221/0-3-8 (min. 0-1-8), 2=317/0-3-8 (min. 0-1-8)
Max Horz 2=68(LC 16)
Max Uplift 4=-100(LC 8), 2=-135(LC 12)
Max Grav 4=262(LC 2), 2=379(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-312/406, 3-4=-325/476
BOT CHORD 2-5=-321/247, 4-5=-589/407

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 B; 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 4 and 135 lb uplift at joint 2.
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



June 5,2013

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
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - Lot 44 Mayfair	I6822135
497392	T21	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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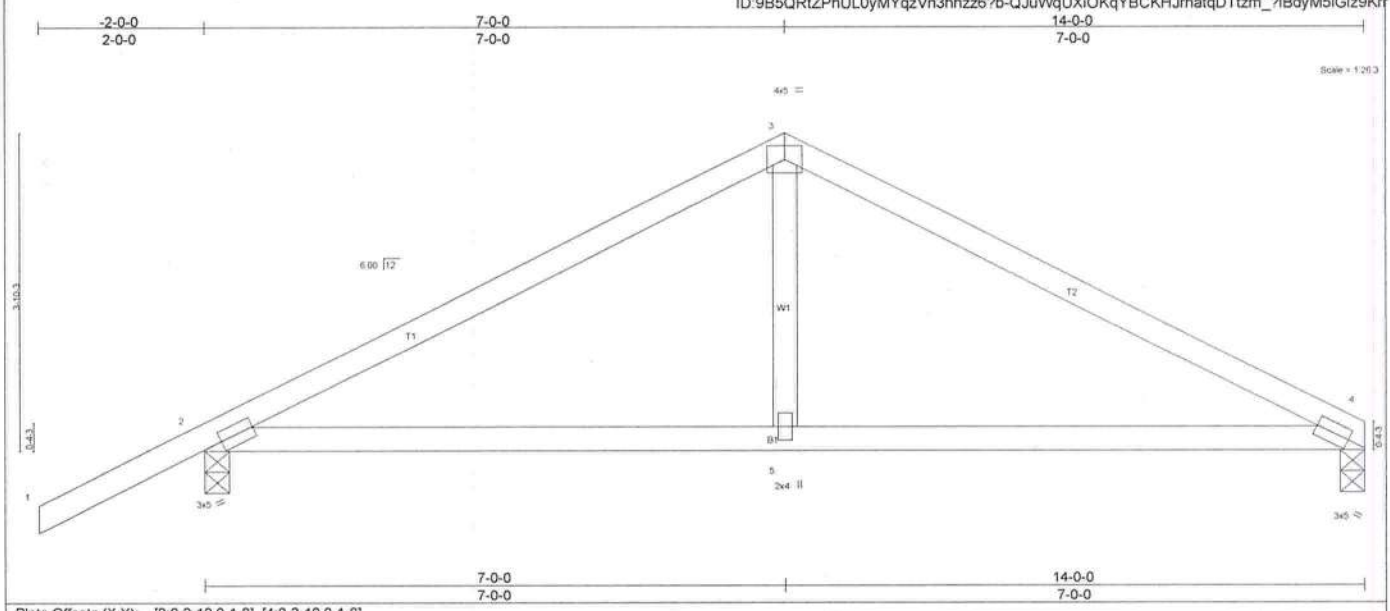

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [4:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.11	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	0.09	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 53 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 8-2-15 oc bracing.

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

REACTIONS (lb/size) 4=376/0-3-8 (min. 0-1-8), 2=468/0-3-8 (min. 0-1-8)
Max Horz 2=56(LC 12)
Max Uplift 4=-144(LC 8), 2=-156(LC 9)
Max Grav 4=446(LC 2), 2=558(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-615/917, 3-4=-797/1081
BOT CHORD 2-5=-1195/849, 4-5=-1424/1104
WEBS 3-5=-322/210

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 B; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 4 and 156 lb uplift at joint 2.
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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

June 5,2013

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1109 Coastal Bay Blvd.
Boynton, FL 33435

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.

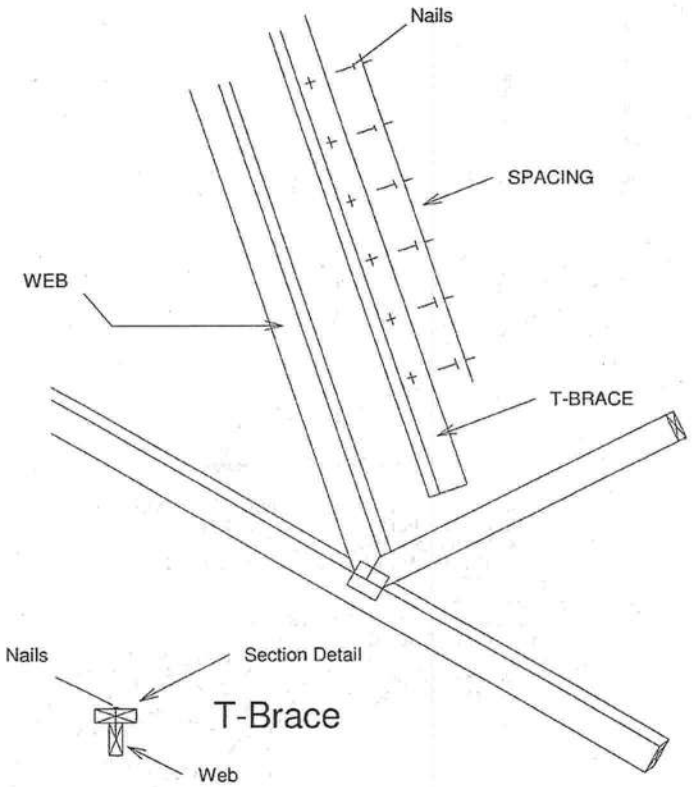
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

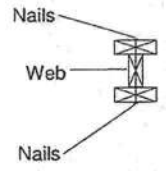
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	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

JULIUS S.K. LEE LICENSE No 34869 6/22/11 STATE OF FLORIDA PROFESSIONAL ENGINEER

1109 COASTAL BAY
BOYNTON BC, FL 33435

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

MiTek Industries, Inc.

MiTek Industries, Chesterfield, MO

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

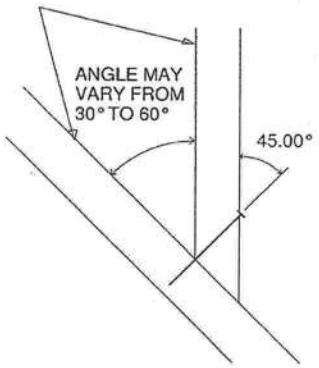
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

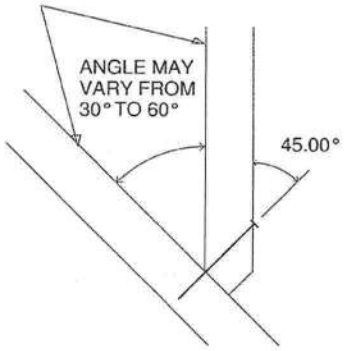
SIDE VIEW

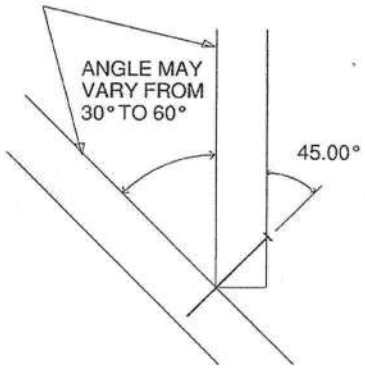
3 NAILS

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

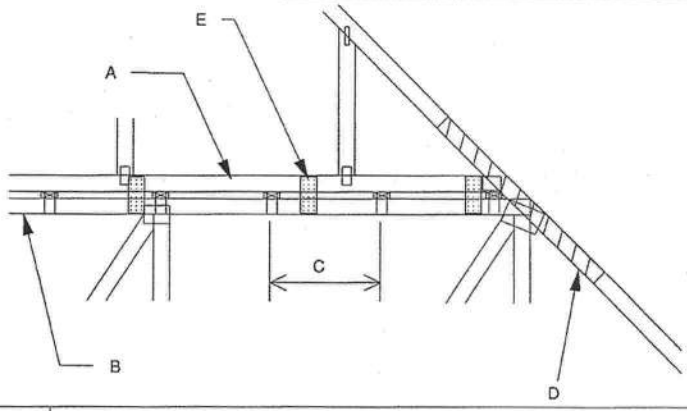
MiTek Industries, Chesterfield, MO

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.

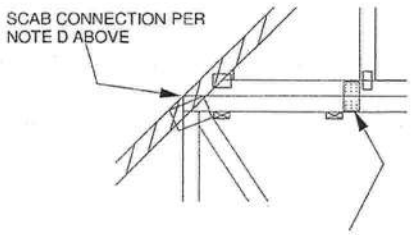
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT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

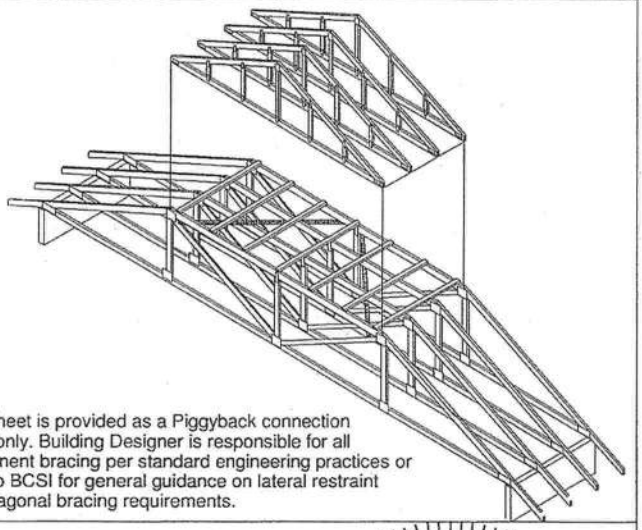


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

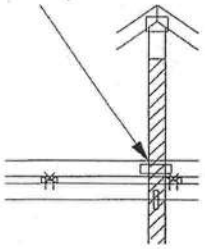


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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:

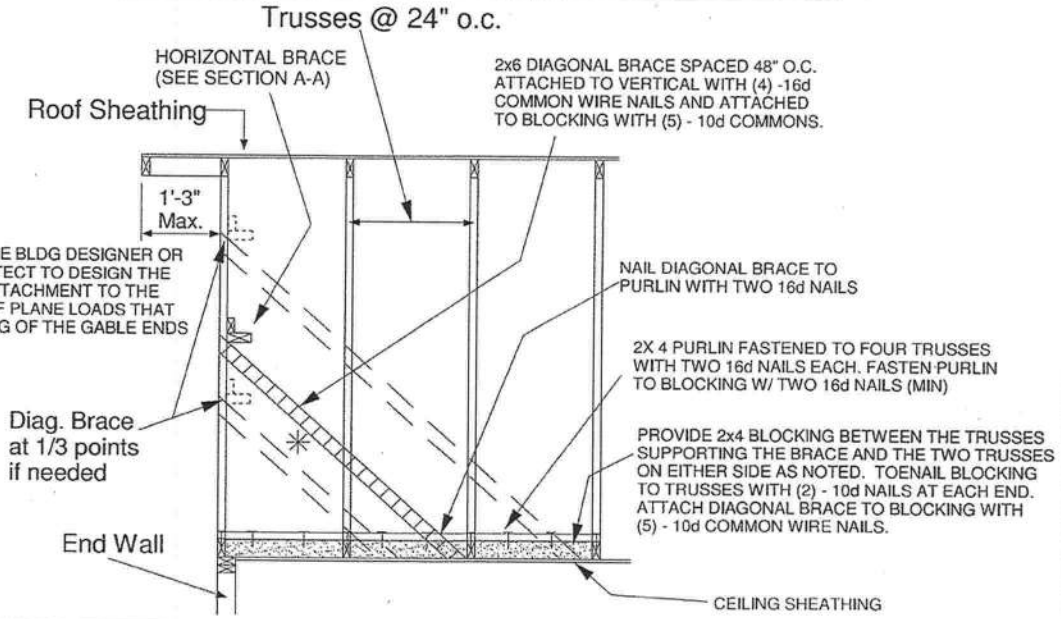
1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE 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.

1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

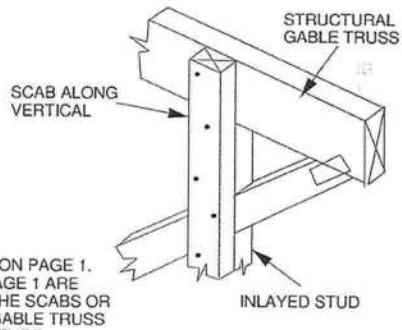
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

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

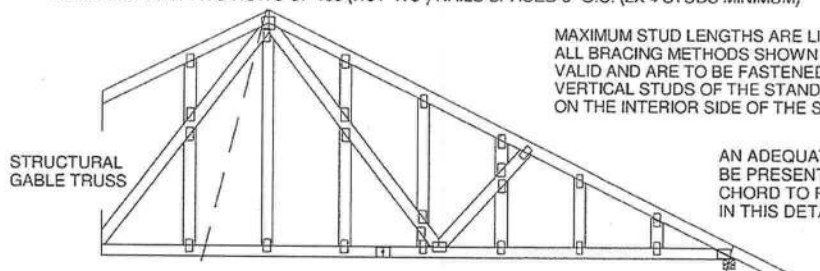
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

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)

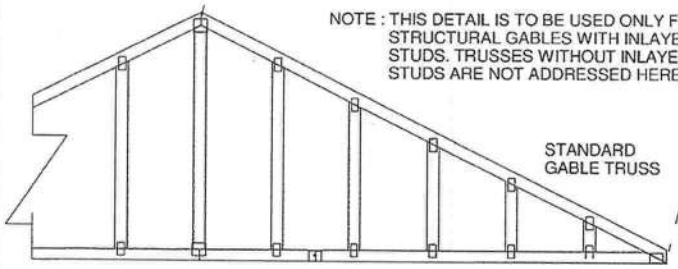


MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



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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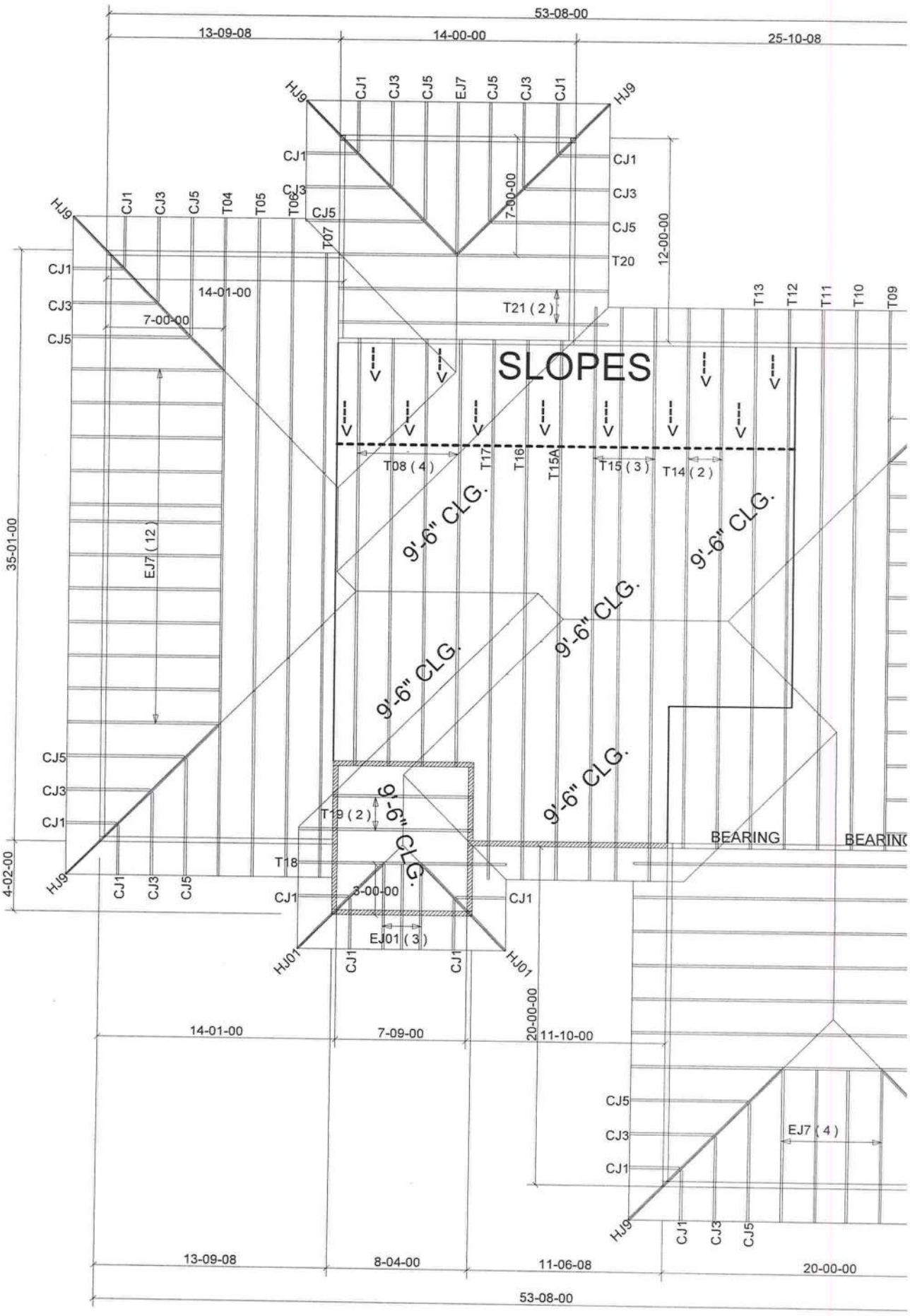
53-08-00
13-09-08
14-00-00
25-10-08
HJ9
CJ1
CJ3
CJ5
EJ7
CJ5
CJ3
CJ1
HJ9
CJ1
CJ3
CJ5
7-00-00
12-00-00
T20
T21 (2)
T04
T05
T06
T07
14-01-00
7-00-00
35-01-00
EJ7 (12)
SLOPES
T13
T12
T11
T10
T09
T08 (4)
T17
T16
T15A
T15 (3)
T14 (2)
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
9'-6" CLG.
T19 (2)
T18
BEARING
BEARING
4-02-00
3-00-00
EJ01 (3)
HJ01
HJ01
14-01-00
7-09-00
20-00-00
11-10-00
EJ7 (4)
13-09-08
8-04-00
11-06-08
20-00-00
53-08-00