

**Project Information for: L261921**

Address: 414 Southwest Santucknee Terrace  
Ft. White, Florida  
County: Columbia  
Truss Count: 15  
Design Program: MiTek 20/20 6.3  
Building Code: FBC2004/TPI2002

**Truss Design Load Information:**

**Gravity:** **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B  
Floor (psf): N/A Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

**Contractor of Record, responsible for structural engineering:**

James H. Johnston, III Florida Registered Residential Contractor License No. RR0066976  
Address: RT. #15 Box 3693 Lake City, Florida 32024

**Truss Design Engineer:** Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**Notes:**

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1912260	CJ1	11/27/07
2	J1912261	CJ3	11/27/07
3	J1912262	CJ5	11/27/07
4	J1912263	EJ5	11/27/07
5	J1912264	EJ7	11/27/07
6	J1912265	HIP1	11/27/07
7	J1912266	HJ7	11/27/07
8	J1912267	HJ9	11/27/07
9	J1912268	T01	11/27/07
10	J1912269	T02	11/27/07
11	J1912270	T03	11/27/07
12	J1912271	T04	11/27/07
13	J1912272	T05	11/27/07
14	J1912273	T06	11/27/07
15	J1912274	T06A	11/27/07





Project Information for: L261921

Address: 414 Southwest Santucknee Terrace  
Ft. White, Florida  
County: Columbia  
Truss Count: 15  
Design Program: MiTek 20/20 6.3  
Building Code: FBC2004/TPI2002

November 27, 2007

**Truss Design Load Information:**  
**Gravity: Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B  
Floor (psf): N/A Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

**Contractor of Record, responsible for structural engineering:**

James H. Johnston, III Florida Registered Residential Contractor License No. RR0066976  
Address: RT. #15 Box 3693 Lake City, Florida 32024

**Truss Design Engineer:** Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**Notes:**

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

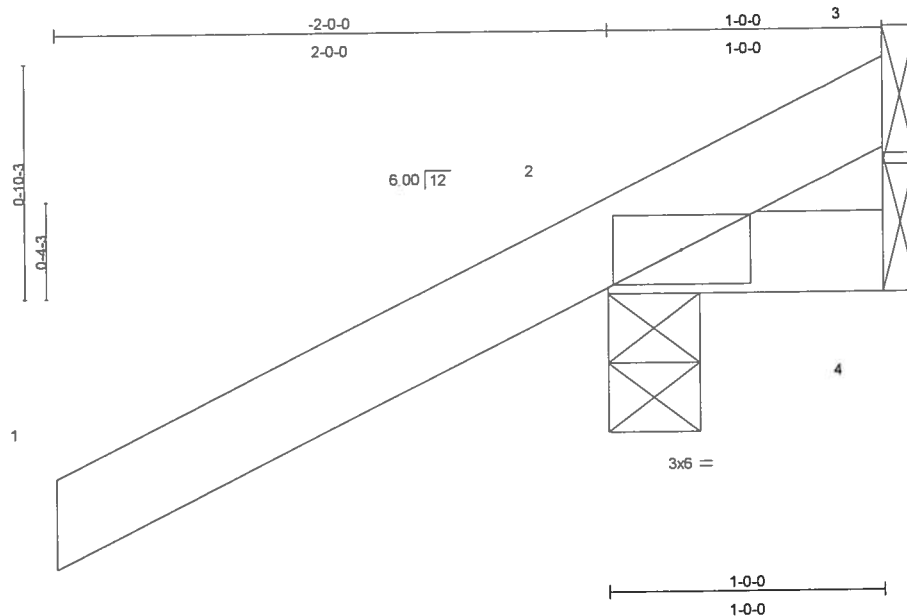
No.	Drwg. #	Truss ID	Date
1	J1912260	CJ1	11/27/07
2	J1912261	CJ3	11/27/07
3	J1912262	CJ5	11/27/07
4	J1912263	EJ5	11/27/07
5	J1912264	EJ7	11/27/07
6	J1912265	HIP1	11/27/07
7	J1912266	HJ7	11/27/07
8	J1912267	HJ9	11/27/07
9	J1912268	T01	11/27/07
10	J1912269	T02	11/27/07
11	J1912270	T03	11/27/07
12	J1912271	T04	11/27/07
13	J1912272	T05	11/27/07
14	J1912273	T06	11/27/07
15	J1912274	T06A	11/27/07



Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	CJ1	JACK	12	1	J1912260
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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Scale = 1.7.9

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25		TC 0.28	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.01	Vert(TL)	-0.00	2	>999	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 7 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP 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) 2=257/0-4-0, 4=5/Mechanical, 3=-91/Mechanical  
Max Horz 2=87(load case 6)  
Max Uplift 2=-287(load case 6), 4=-9(load case 4), 3=-91(load case 1)  
Max Grav 2=257(load case 1), 4=14(load case 2), 3=128(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-70/76  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.14

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 2, 9 lb uplift at joint 4 and 91 lb uplift at joint 3.

Julius Lee  
Structural Engineer  
License No. 21808  
1100 Central Expressway  
Boynton Beach, FL 33426

**LOAD CASE(S)** Standard

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE**  
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

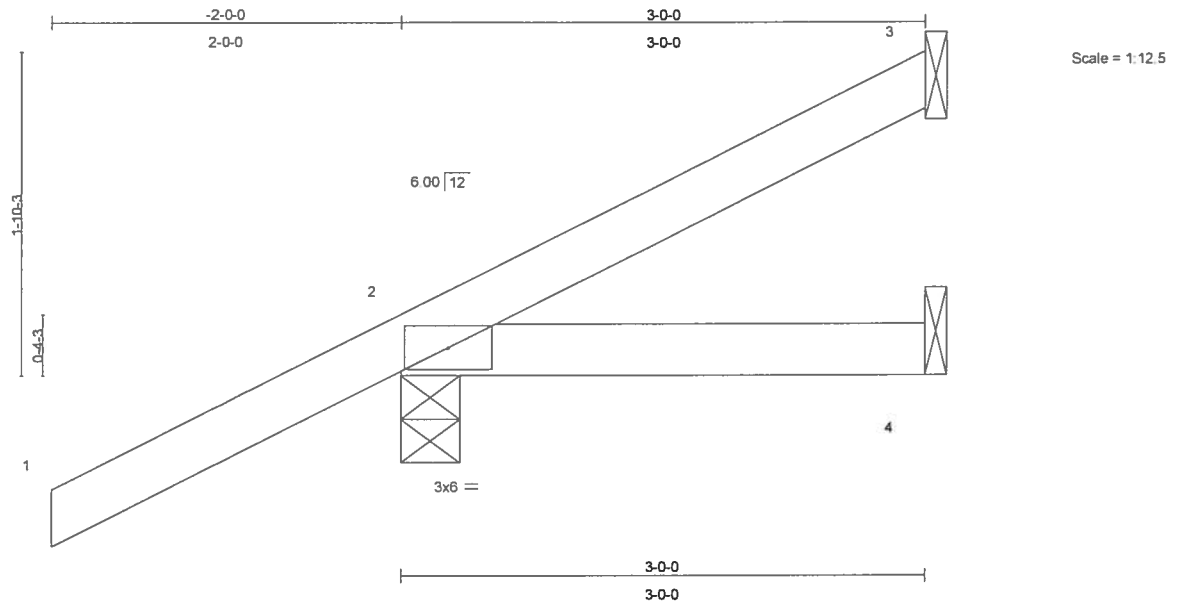




Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	CJ3	JACK	12	1	J1912261
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.30	Vert(LL)	0.01	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.08	Vert(TL)	-0.01	2-4	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 13 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP 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=29/Mechanical, 2=251/0-4-0, 4=14/Mechanical  
Max Horz 2=132(load case 6)  
Max Uplift 3=-27(load case 7), 2=-240(load case 6), 4=-26(load case 4)  
Max Grav 3=29(load case 1), 2=251(load case 1), 4=42(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-58/7  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.13

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 240 lb uplift at joint 2 and 26 lb uplift at joint 4.

Continued on page 2

Richard Keen  
Truss Design Engineer  
P.O. Box 100  
11000 Central Expressway  
Lakeland, FL 34001

November 27, 2007

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This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719





Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	CJ3	JACK	12	1	J1912261
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1805 Coastal Ray Blvd  
Lakewood Beach, FL 33435

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**

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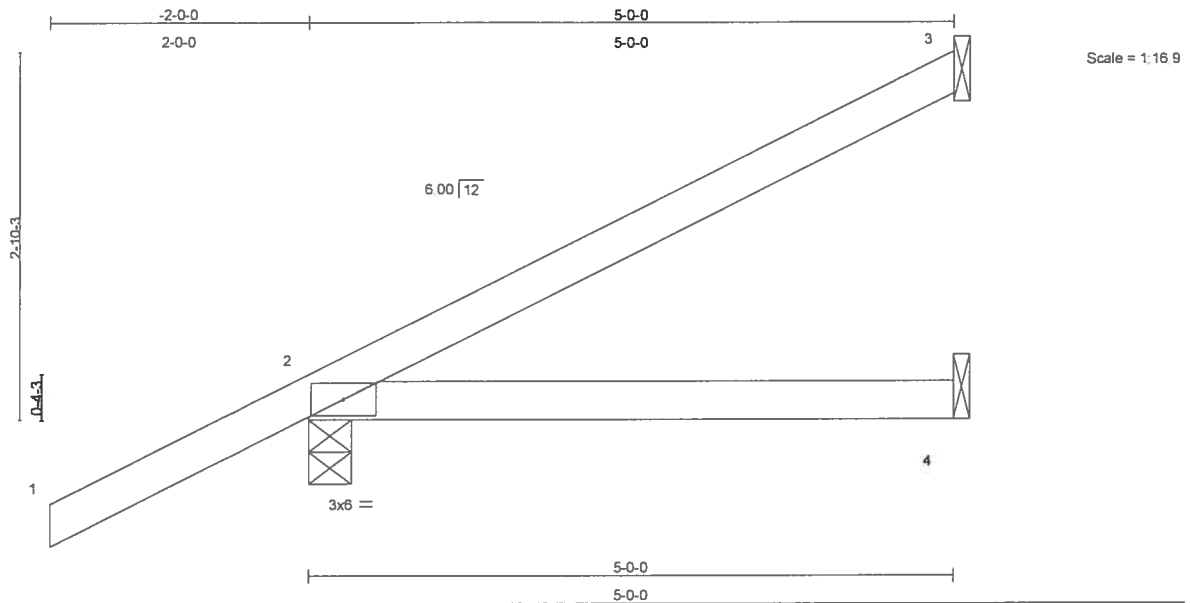




Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	CJ5	JACK	8	1	J1912262
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.30	Vert(LL)	-0.03 2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.16	Vert(TL)	-0.05 2-4	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00 3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 19 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP 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=102/Mechanical, 2=296/0-4-0, 4=24/Mechanical  
Max Horz 2=178(load case 6)  
Max Uplift 3=-86(load case 6), 2=-201(load case 6)  
Max Grav 3=102(load case 1), 2=296(load case 1), 4=72(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-87/36  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.15

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3 and 201 lb uplift at joint 2.

Continued on page 2

John Lee  
Truss Design Engineer  
Florida PE No. 31866  
1100 Coastal Ray Blvd  
Covington, LA 70420

November 27, 2007

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This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719





Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	CJ5	JACK	8	1	J1912262
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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**LOAD CASE(S)** Standard

Julius L. Lee  
Truss Design Engineer  
Truss Plate No. 24808  
1175 Coastal Hwy Blvd  
Gwynn Beach, FL 32435

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**

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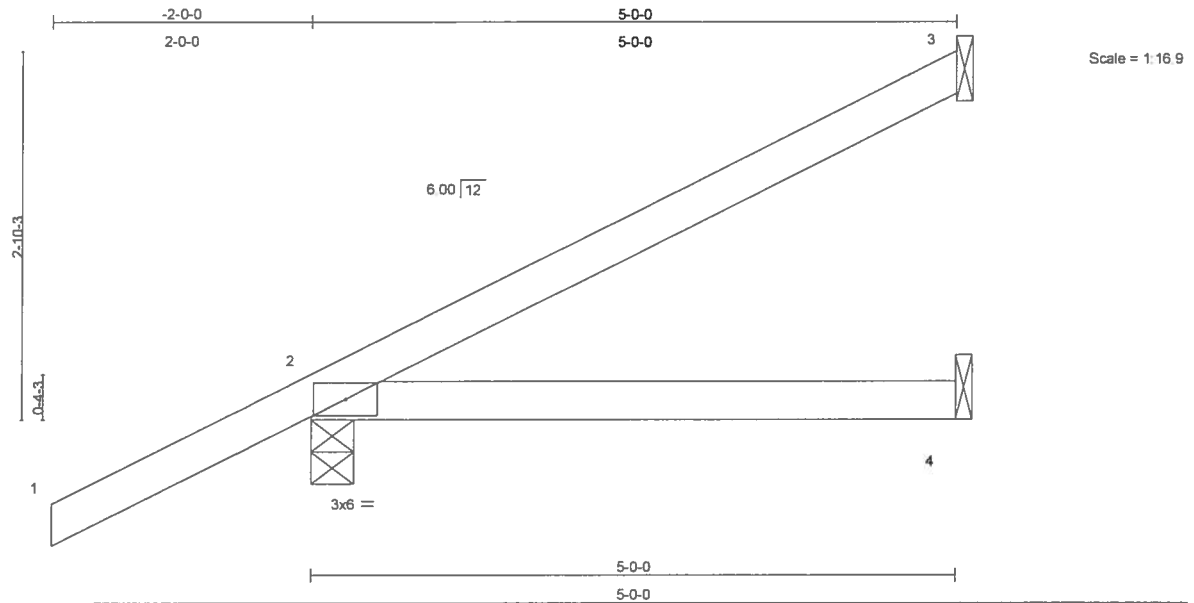




Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	EJ5	JACK	4	1	J1912263
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.30	Vert(LL)	0.09	2-4	>672	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.24	Vert(TL)	-0.05	2-4	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 19 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP 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=102/Mechanical, 2=296/0-4-0, 4=24/Mechanical

Max Horz 2=178(load case 6)

Max Uplift 3=-87(load case 6), 2=-261(load case 6), 4=-46(load case 4)

Max Grav 3=102(load case 1), 2=296(load case 1), 4=72(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-87/36

BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.15

#### NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 261 lb uplift at joint 2 and 46 lb uplift at joint 4.

Continued on page 2

Julian Lee  
Truss Design Engineer  
Florida PE No. 35803  
11755 Central Expressway  
Orlando, FL 32817

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	EJ5	JACK	4	1	J1912263
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Nov 27 16:28:39 2007 Page 2

**LOAD CASE(S)** Standard

Julius Keen  
Truss Design Engineer  
L261921  
11/27/2007  
LAKELAND, FL 33405

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	EJ7	MONO TRUSS	14	1	J1912264
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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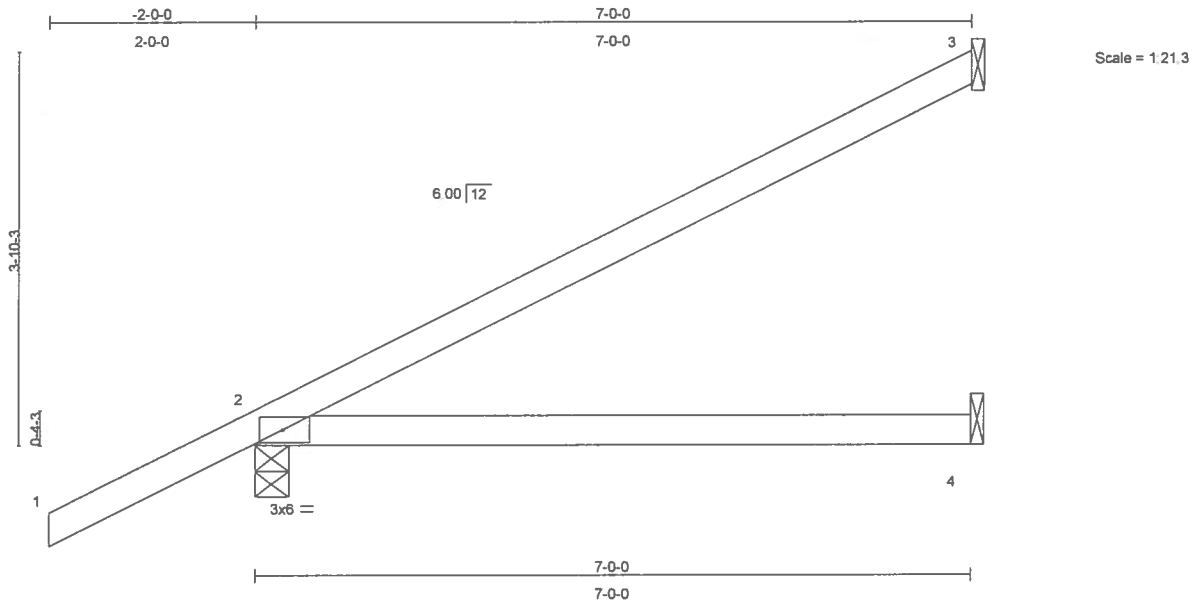


Plate Offsets (X,Y): [2:0-2-12,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.48	Vert(LL)	-0.08	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.28	Vert(TL)	-0.16	2-4	>506	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 26 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP 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=154/Mechanical, 2=352/0-4-0, 4=44/Mechanical

Max Horz 2=161(load case 6)  
Max Uplift 3=-84(load case 6), 2=-140(load case 6)  
Max Grav 3=154(load case 1), 2=352(load case 1), 4=93(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-119/54  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.70

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 3 and 140 lb uplift at joint 2.

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
11000 Coastal Way Blvd  
Gulf Breeze, FL 32562

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	EJ7	MONO TRUSS	14	1	J1912264
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Nov 27 16:28:40 2007 Page 2

**LOAD CASE(S)** Standard

Julian Lee  
Truss Design Engineer  
Truss Plate No. 318316  
1300 Coastal Hwy Blvd  
Boynton Beach, FL 33426

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	HIP1	GABLE	2	1	J1912265
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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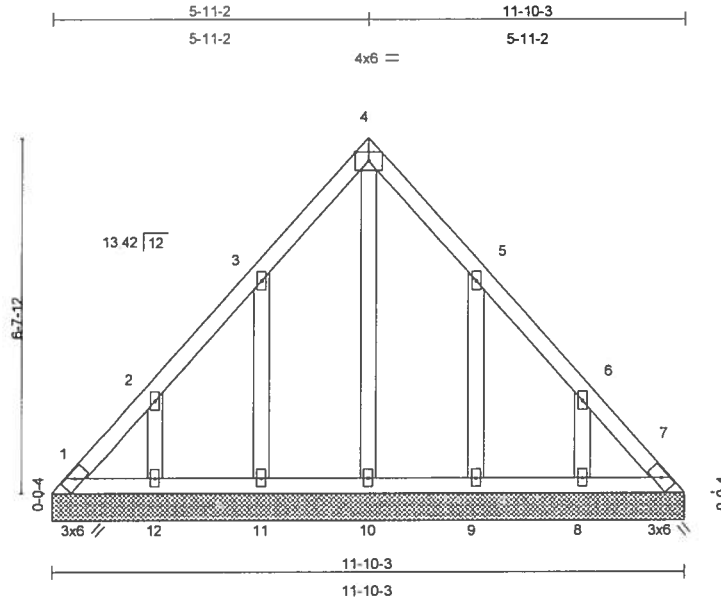


Plate Offsets (X,Y): [4:Edge,0-1-14]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.04	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 68 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
OTHERS 2 X 4 SYP 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** (lb/size) 1=62/11-10-3, 7=62/11-10-3, 10=82/11-10-3, 11=127/11-10-3,  
12=129/11-10-3, 9=127/11-10-3, 8=129/11-10-3  
Max Horz 1=225(load case 5)  
Max Uplift 1=-79(load case 4), 7=-45(load case 5), 11=-172(load case 6),  
12=-183(load case 6), 9=-171(load case 7), 8=-184(load case 7)  
Max Grav 1=158(load case 5), 7=129(load case 7), 10=121(load case 7), 11=132(load case 10), 12=129(load case 1), 9=132(load case 11), 8=129(load case 1)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-223/126, 2-3=-130/114, 3-4=-71/148, 4-5=-71/148, 5-6=-83/67, 6-7=-194/81  
BOT CHORD 1-12=-54/163, 11-12=-54/163, 10-11=-54/163, 9-10=-54/163, 8-9=-54/163,  
7-8=-54/163  
WEBS 4-10=-121/0, 3-11=-113/195, 2-12=-104/200, 5-9=-113/195, 6-8=-104/200

Julian Lee  
Truss Design Engineer  
Richard E. P. O. 2-1113  
1112 Coastal Bay Blvd  
Gwynn Beach, FL 32055

#### JOINT STRESS INDEX

1 = 0.09, 2 = 0.09, 3 = 0.09, 4 = 0.13, 5 = 0.09, 6 = 0.09, 7 = 0.09, 8 = 0.11, 9 = 0.11, 10 = 0.03, 11 = 0.11 and 12 = 0.11

#### NOTES

1) Unbalanced roof live loads have been considered for this design.

Continued on page 2

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	HIP1	GABLE	2	1	J1912265
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 1, 45 lb uplift at joint 7, 172 lb uplift at joint 11, 183 lb uplift at joint 12, 171 lb uplift at joint 9 and 184 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Truss Design No. 31888  
1100 Coastal Ray Blvd  
Boynton Beach, FL 33438

November 27, 2007

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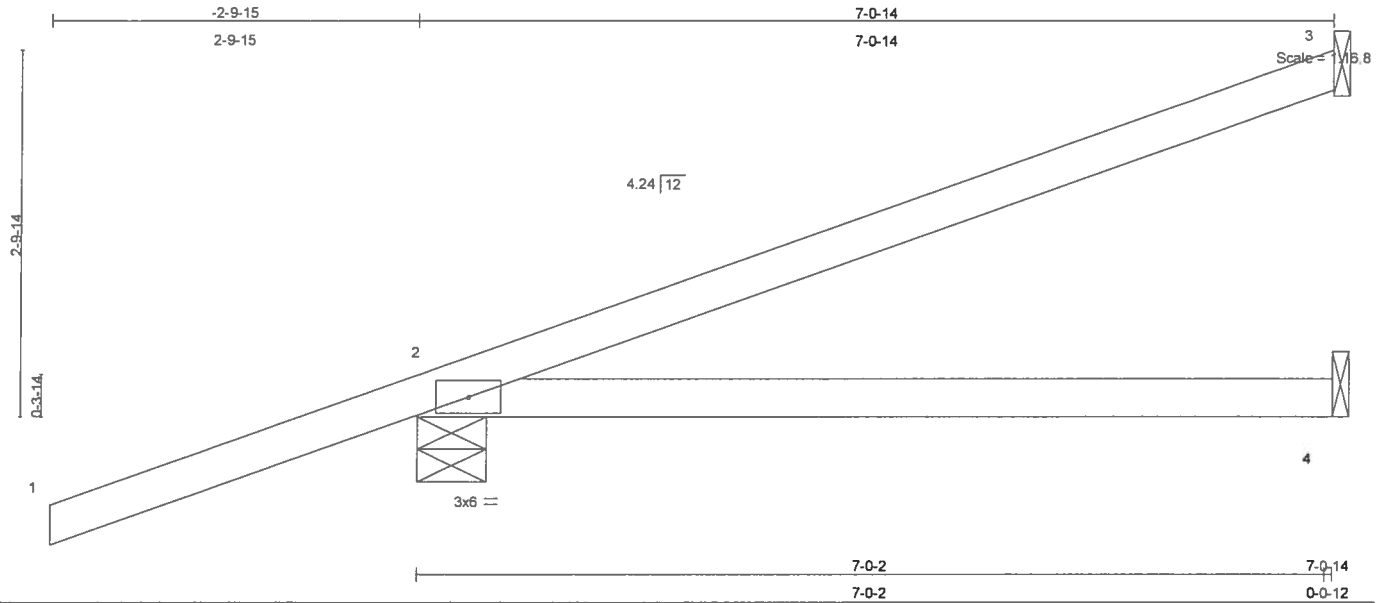




Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	HJ7	MONO TRUSS	2	1	J1912266
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.55	Vert(LL)	0.10 2-4	>773	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.27	Vert(TL)	-0.13 2-4	>618	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.00	Horz(TL)	-0.00 3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 26 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=183/Mechanical, 2=341/0-6-6, 4=37/Mechanical  
Max Horz 2=168(load case 3)  
Max Uplift 3=-153(load case 3), 2=-338(load case 3), 4=-55(load case 6)  
Max Grav 3=183(load case 1), 2=341(load case 1), 4=96(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-71/42  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.51

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 3, 338 lb uplift at joint 2 and 55 lb uplift at joint 4.

Check with  
Truss Design Engineer  
RICHARD KEEN - RAY RES.  
11000 Enterprise Lane, Madison, WI 53719

Continued on page 2

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	HJ7	MONO TRUSS	2	1	J1912266
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-4(F=25, B=25)-to-3=-95(F=-21, B=-21), 2=0(F=5, B=5)-to-4=-18(F=-4, B=-4)

Richard Keen  
Truss Design Engineer  
Project File No. 019991  
1999 Coastal Ray Road  
Boynton Beach, FL 33426

November 27, 2007

#### Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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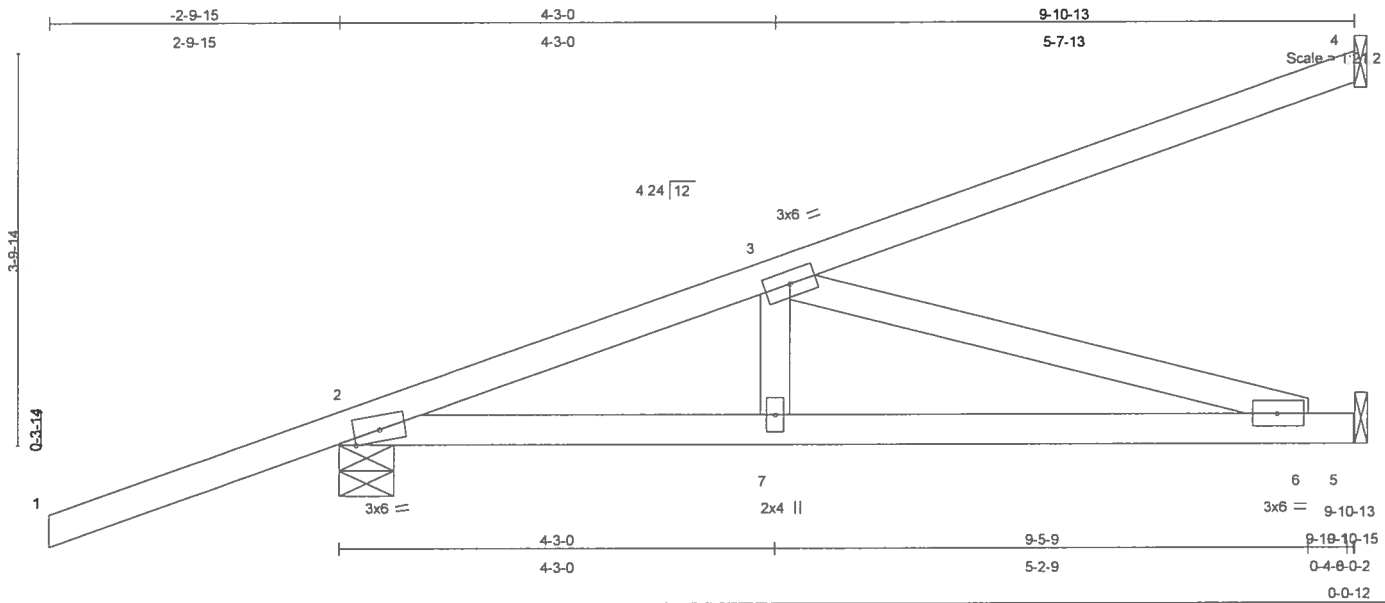




Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.	J1912267
L261921	HJ9	MONO TRUSS	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.61	Vert(LL)	0.05	6-7	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.40	Vert(TL)	-0.12	6-7	>986	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.34	Horz(TL)	0.01	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 45 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP 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** (lb/size) 4=268/Mechanical, 2=458/0-6-6, 5=217/Mechanical  
Max Horz 2=270(load case 3)  
Max Uplift 4=-232(load case 3), 2=-284(load case 3), 5=-61(load case 3)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-642/116, 3-4=-105/65  
BOT CHORD 2-7=-305/593, 6-7=-305/593, 5-6=0/0  
WEBS 3-7=0/189, 3-6=-618/317

#### JOINT STRESS INDEX

2 = 0.78, 3 = 0.16, 6 = 0.17 and 7 = 0.13

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4, 284 lb uplift at joint 2 and 61 lb uplift at joint 5.
- 5) 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

John Lee  
Truss Design Engineer  
P.O. Box 100, 32000  
1000 Central Ray Road  
Boynton Beach, FL 33435

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	HJ9	MONO TRUSS	4	1	J1912267
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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# **LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

Julius L. Lee  
Truss Design Engineer  
Plate No. 01886  
1100 Coastal Pkwy Blvd  
Gwynn O'Brien, FL 32430

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T01	HIP	1	1	J1912268
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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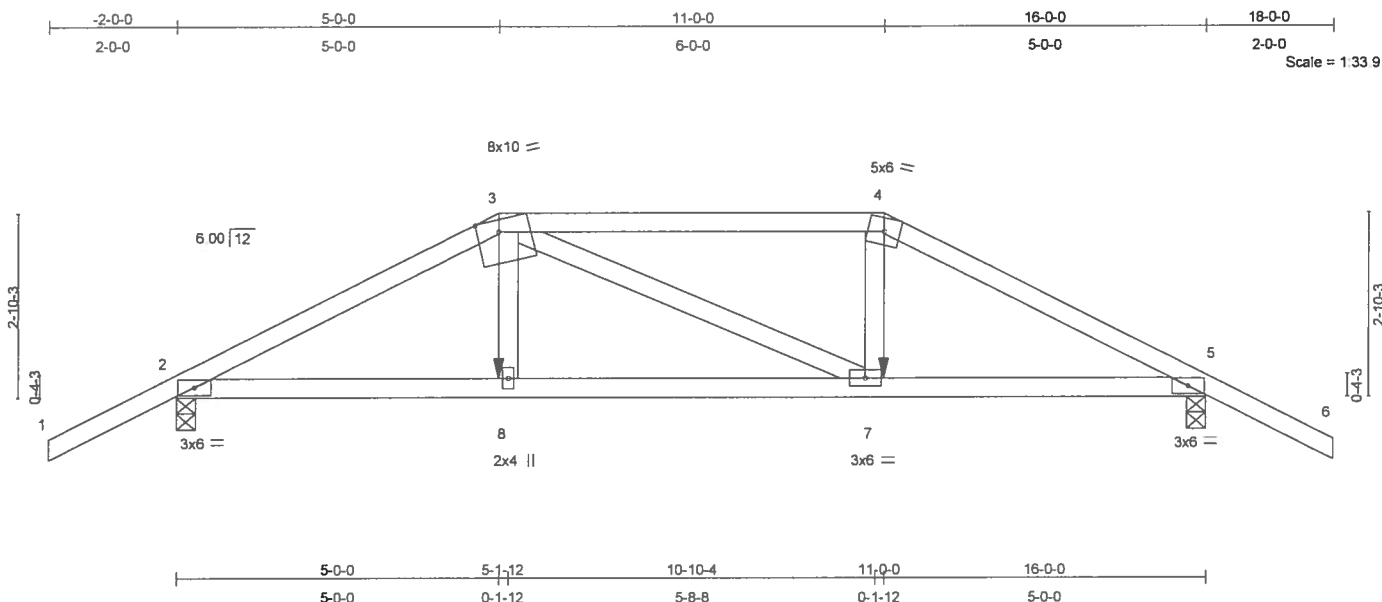


Plate Offsets (X,Y): [3:0-4-3,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.46	Vert(LL)	0.09 7-8	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.32	Vert(TL)	-0.12 7-8	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.09	Horz(TL)	0.03 5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 72 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-6-15 oc bracing.

#### REACTIONS

(lb/size) 2=934/0-3-8, 5=934/0-3-8  
Max Horz 2=-73(load case 6)  
Max Uplift 2=-733(load case 5), 5=-733(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1516/1056, 3-4=-1314/987, 4-5=-1516/1056, 5-6=0/47  
BOT CHORD 2-8=-910/1299, 7-8=-923/1313, 5-7=-884/1299  
WEBS 3-8=-220/260, 4-7=-226/285, 3-7=-77/78

#### JOINT STRESS INDEX

2 = 0.65, 3 = 0.57, 4 = 0.61, 5 = 0.65, 7 = 0.18 and 8 = 0.18

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Justin Lee  
Truss Design Engineer  
Phone: 813 241-1881  
11000 Coastal Bay Blvd  
Daytona Beach, FL 32114

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T01	HIP	1	1	J1912268
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 733 lb uplift at joint 2 and 733 lb uplift at joint 5.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-91(F=-37), 4-6=-54, 2-8=-10, 7-8=-17(F=-7), 5-7=-10

Concentrated Loads (lb)

Vert: 8=-187(F) 7=-187(F)

Julian Lee  
Truss Design Engineer  
Printed Feb 15, 2006  
Printed at Lake City, FL 32055  
Revision 00000, FL 32055

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T02	HIP	2	1	J1912269
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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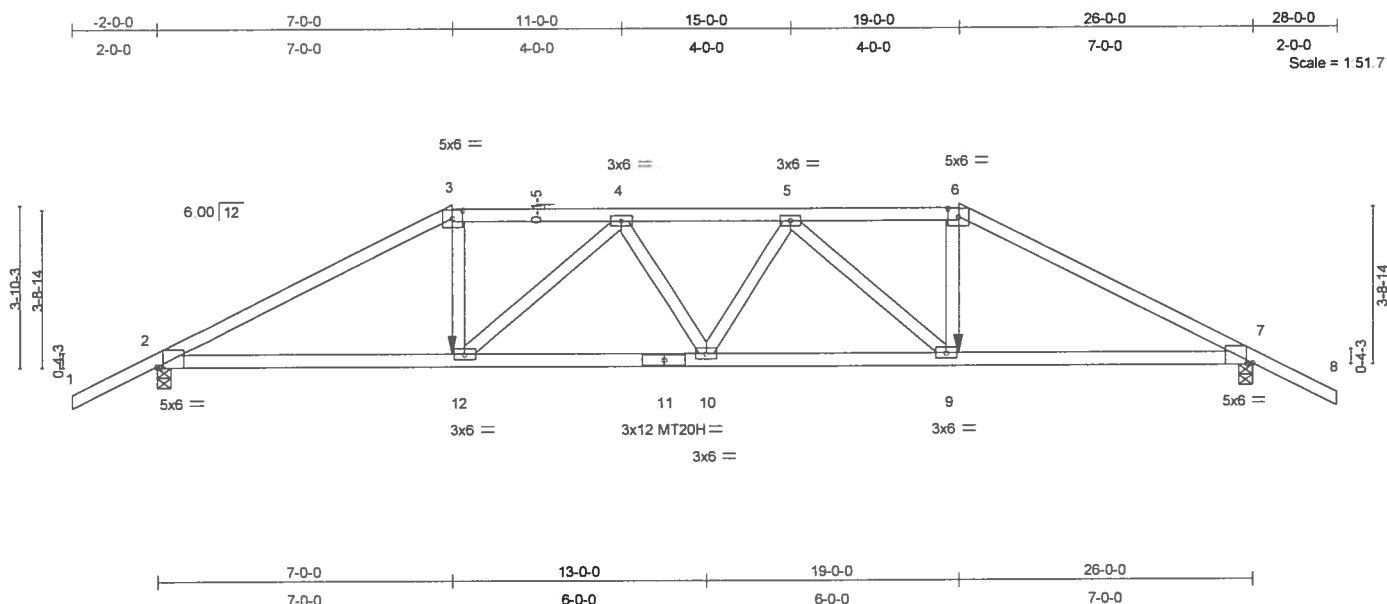


Plate Offsets (X,Y): [2:0-1-11,Edge], [3:0-3-0,0-2-5], [6:0-3-0,0-2-5], [7:0-1-11,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.49	Vert(LL)	-0.20 10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.73	Vert(TL)	-0.39 10-12	>798	240	MT20H	187/143
BCLL 10.0	* Rep Stress Incr	NO	WB 0.45	Horz(TL)	0.14 7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 122 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except 2-0-0 oc purlins (3-1-12 max.): 3-6.  
BOT CHORD Rigid ceiling directly applied or 5-11-11 oc bracing.

**REACTIONS** (lb/size) 2=1799/0-4-0, 7=1799/0-4-0  
Max Horz 2=77(load case 5)  
Max Uplift 2=-586(load case 5), 7=-586(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-3331/1047, 3-4=-2941/974, 4-5=-3592/1162, 5-6=-2941/974, 6-7=-3331/1047, 7-8=0/47  
BOT CHORD 2-12=-899/2893, 11-12=-1131/3555, 10-11=-1131/3555, 9-10=-1117/3555, 7-9=-866/2893  
WEBS 3-12=-345/1128, 4-12=-929/374, 4-10=0/136, 5-10=0/136, 5-9=-929/374, 6-9=-345/1128

#### JOINT STRESS INDEX

2 = 0.81, 3 = 0.79, 4 = 0.42, 5 = 0.42, 6 = 0.79, 7 = 0.81, 9 = 0.72, 10 = 0.42, 11 = 0.71 and 12 = 0.72

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide adequate drainage to prevent water ponding.

John Lee  
Truss Design Engineer  
Florida Plate No. 31868  
1100 Coastal Bay Blvd  
Gulf Breeze, FL 32561

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T02	HIP	2	1	J1912269
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Nov 27 16:28:44 2007 Page 2

#### NOTES

- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 586 lb uplift at joint 2 and 586 lb uplift at joint 7.
- 8) Girder carries hip end with 7'-0" end setback.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

##### Uniform Loads (plf)

Vert: 1-3=-54, 3-6=-118(F=-64), 6-8=-54, 2-12=-10, 9-12=-22(F=-12), 7-9=-10

##### Concentrated Loads (lb)

Vert: 12=-411(F) 9=-411(F)

Julius Lee  
Truss Design Engineer  
Florida PE No. 34880  
11725 Cassard Ray Road  
Daytona Beach, FL 32117

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T03	HIP	2	1	J1912270
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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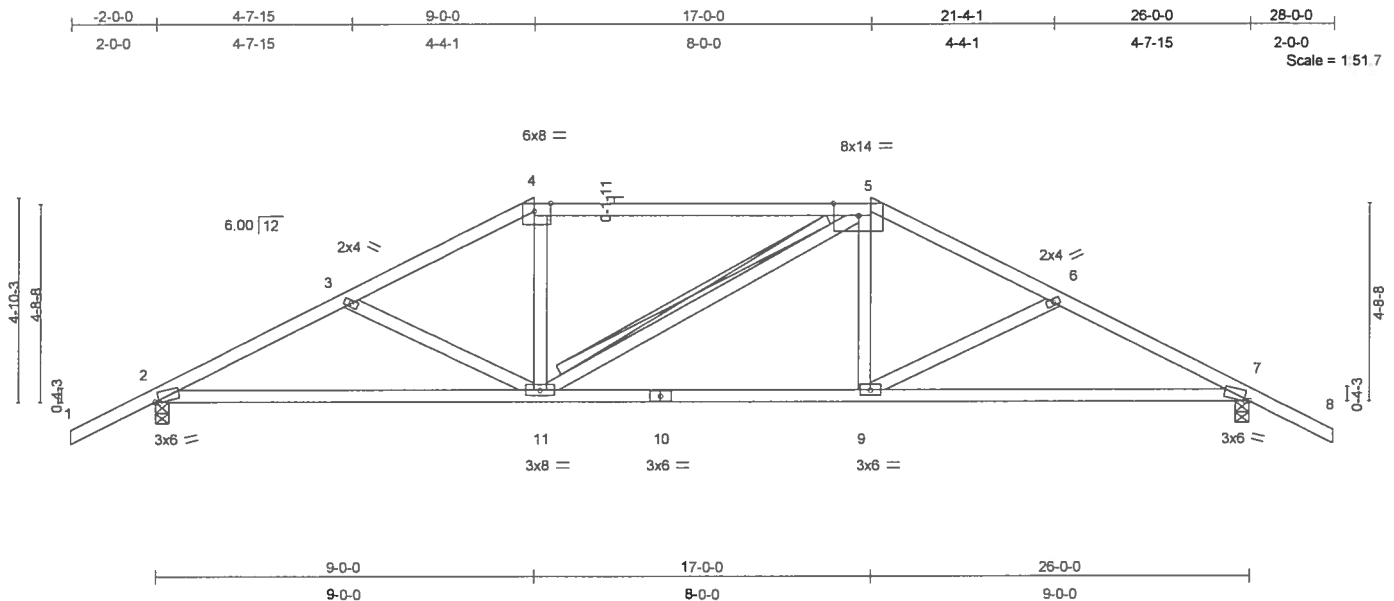


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [4:0-4-10,Edge], [5:0-7-2,Edge], [7:0-1-5,0-0-7]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.45	Vert(LL)	-0.14	7-9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.38	Vert(TL)	-0.26	7-9	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.09	Horz(TL)	0.05	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 127 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins, except 2-0-0 oc purlins (5-5-7 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 8-8-3 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 5-11  
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
Brace must cover 90% of web length.

**REACTIONS** (lb/size) 2=938/0-4-0, 7=938/0-4-0  
Max Horz 2=88(load case 6)  
Max Uplift 2=-253(load case 6), 7=-253(load case 7)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1451/762, 3-4=-1252/680, 4-5=-1101/673, 5-6=-1252/680, 6-7=-1451/762, 7-8=0/47  
BOT CHORD 2-11=-513/1231, 10-11=-368/1100, 9-10=-368/1100, 7-9=-513/1231  
WEBS 3-11=-154/163, 4-11=-16/282, 5-11=-123/123, 5-9=-16/282, 6-9=-154/163

#### JOINT STRESS INDEX

2 = 0.81, 3 = 0.33, 4 = 0.95, 5 = 0.96, 6 = 0.33, 7 = 0.81, 9 = 0.34, 10 = 0.38 and 11 = 0.56

Julius Lee  
Truss Design Engineer  
Florida P.E. No. 34868  
1800 Coastal Bay Blvd  
Boynton Beach, FL 33435

Continued on page 2

November 27, 2007

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T03	HIP	2	1	J1912270
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 2 and 253 lb uplift at joint 7.

**LOAD CASE(S)** Standard

Julian Lee  
Truss Design Engineer  
Florida PE No. 31896  
1100 Central Ray Blvd  
DeVonia Beach, FL 32435

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**

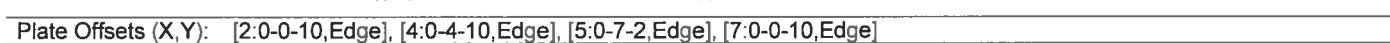
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Builders FirstSource, Lake City, FL 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Nov 27 16:28:45 2007 Page 1

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<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-1 oc purlins, except
BOT CHORD	2 X 4 SYP No.2		2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS	2 X 4 SYP No.3	BOT CHORD	Rigid ceiling directly applied or 8-7-3 oc bracing.

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDF=4.2psf; BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.

November 27, 2007



**Builders**  
FirstSource



Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T04	HIP	2	1	J1912271
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 2 and 265 lb uplift at joint 7.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31660  
1800 Essential Way (Bldg)  
Lakeland, FL 33805

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T05	COMMON	1	1	J1912272
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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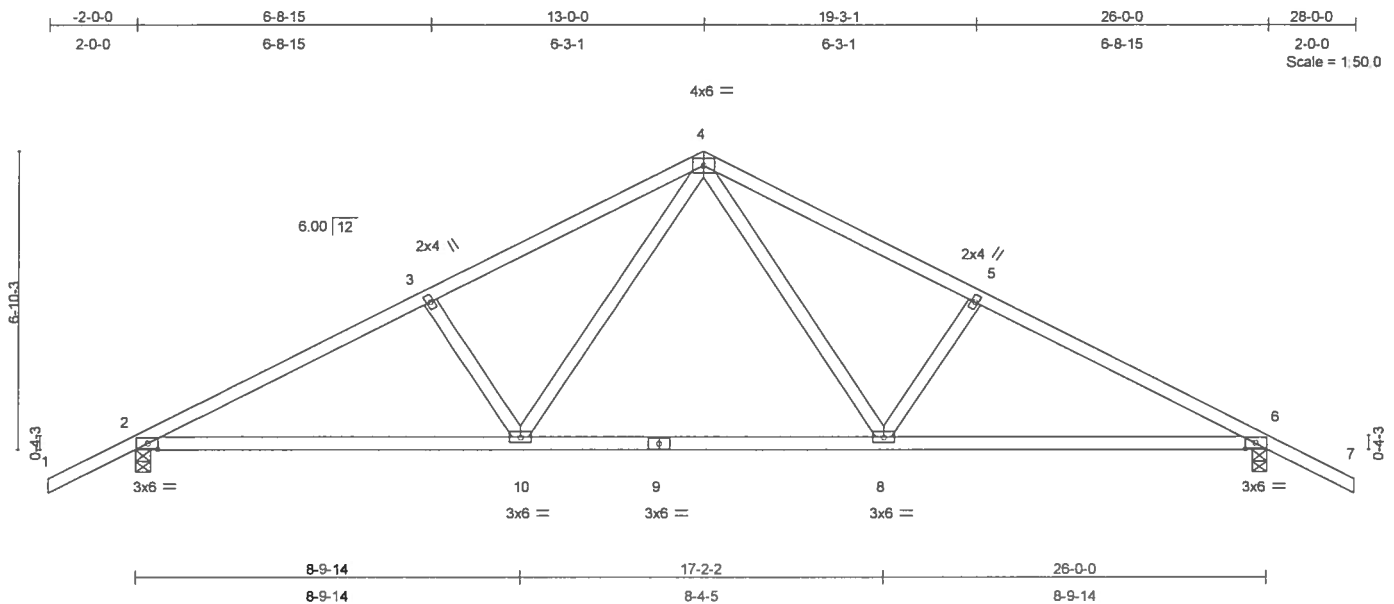


Plate Offsets (X,Y): [2:0-2-12,0-1-8], [6:0-2-12,0-1-8]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	2-0-0	TC 0.32	Vert(LL)	-0.12	2-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.40	Vert(TL)	-0.24	2-10	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.25	Horz(TL)	0.05	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 122 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-10-14 oc bracing.

**REACTIONS** (lb/size) 2=938/0-4-0, 6=938/0-4-0  
Max Horz 2=113(load case 6)  
Max Uplift 2=-275(load case 6), 6=-275(load case 7)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1422/767, 3-4=-1231/761, 4-5=-1231/761, 5-6=-1422/767, 6-7=0/47  
BOT CHORD 2-10=-502/1195, 9-10=-214/810, 8-9=-214/810, 6-8=-502/1195  
WEBS 3-10=-322/299, 4-10=-235/431, 4-8=-235/431, 5-8=-322/299

#### JOINT STRESS INDEX

2 = 0.69, 3 = 0.33, 4 = 0.75, 5 = 0.33, 6 = 0.69, 8 = 0.41, 9 = 0.30 and 10 = 0.41

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Richard Keen  
Truss Design Engineer  
Florida P.E. No. 34888  
11000 Coastal Hwy. #304  
Lakewood Beach, FL 33435

November 27, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T05	COMMON	1	1	J1912272
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 2 and 275 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Julian Lee  
Truss Design Engineer  
Phone: 904.348.8888  
11755 Central Ray Blvd  
Boynton Beach, FL 33435

November 27, 2007

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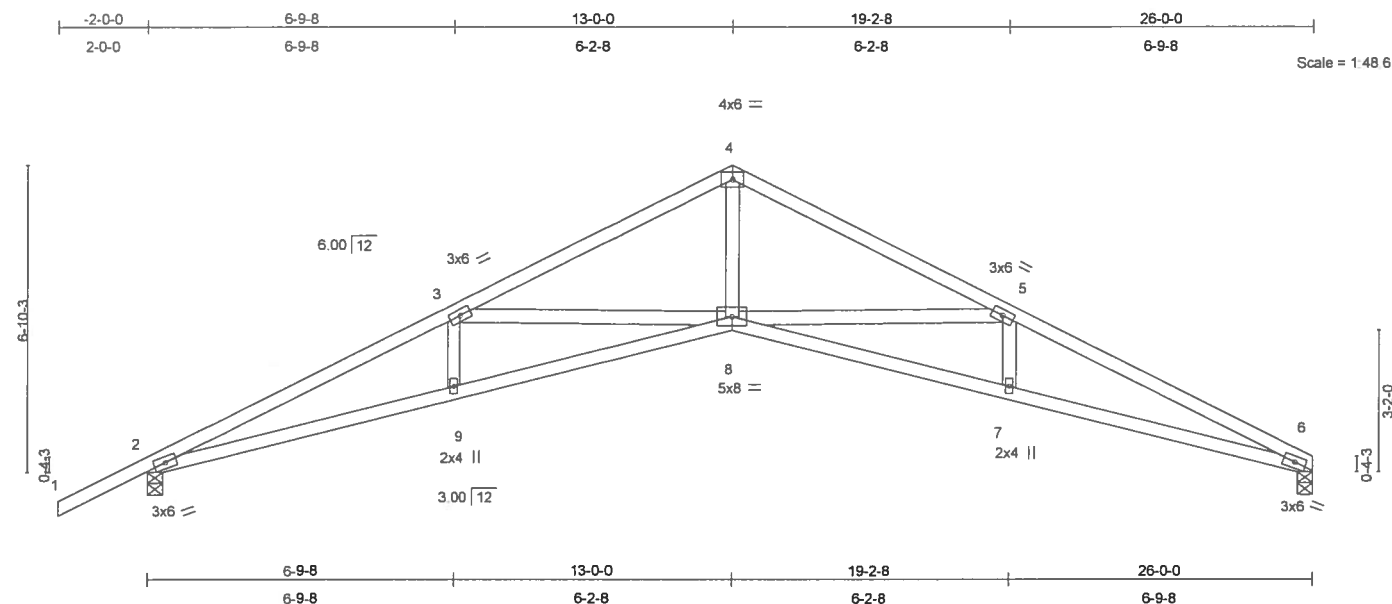




Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T06	SCISSOR	9	1	J1912273
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.39	Vert(LL)	0.28 8-9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.59	Vert(TL)	-0.45 8-9	>681	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.52	Horz(TL)	0.33 6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 114 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-6-7 oc bracing.

**REACTIONS** (lb/size) 2=943/0-4-0, 6=816/0-4-0  
Max Horz 2=124(load case 6)  
Max Uplift 2=-275(load case 6), 6=-179(load case 7)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=-2628/1335, 3-4=-1871/949, 4-5=-1872/951, 5-6=-2680/1419  
BOT CHORD 2-9=-1116/2331, 8-9=-1119/2333, 7-8=-1202/2384, 6-7=-1205/2386  
WEBS 3-9=0/197, 3-8=-704/497, 4-8=-575/1267, 5-8=-757/579, 5-7=0/201

#### JOINT STRESS INDEX

2 = 0.80, 3 = 0.39, 4 = 0.71, 5 = 0.39, 6 = 0.80, 7 = 0.33, 8 = 0.72 and 9 = 0.33

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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.

Continued on page 2

John Lee  
Truss Design Engineer  
Florida PE No. 34868  
1105 Richard Ray Blvd  
Boynton Beach, FL 33435

November 27, 2007

#### Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T06	SCISSOR	9	1	J1912273
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 2 and 179 lb uplift at joint 6.

**LOAD CASE(S)** Standard

John H. Lee  
Truss Design Engineer  
Florida PE No. 34866  
1100 Coastal Bay Blvd  
Oviedo, FL 32765

November 27, 2007

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

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T06A	SCISSORS	1	1	J1912274
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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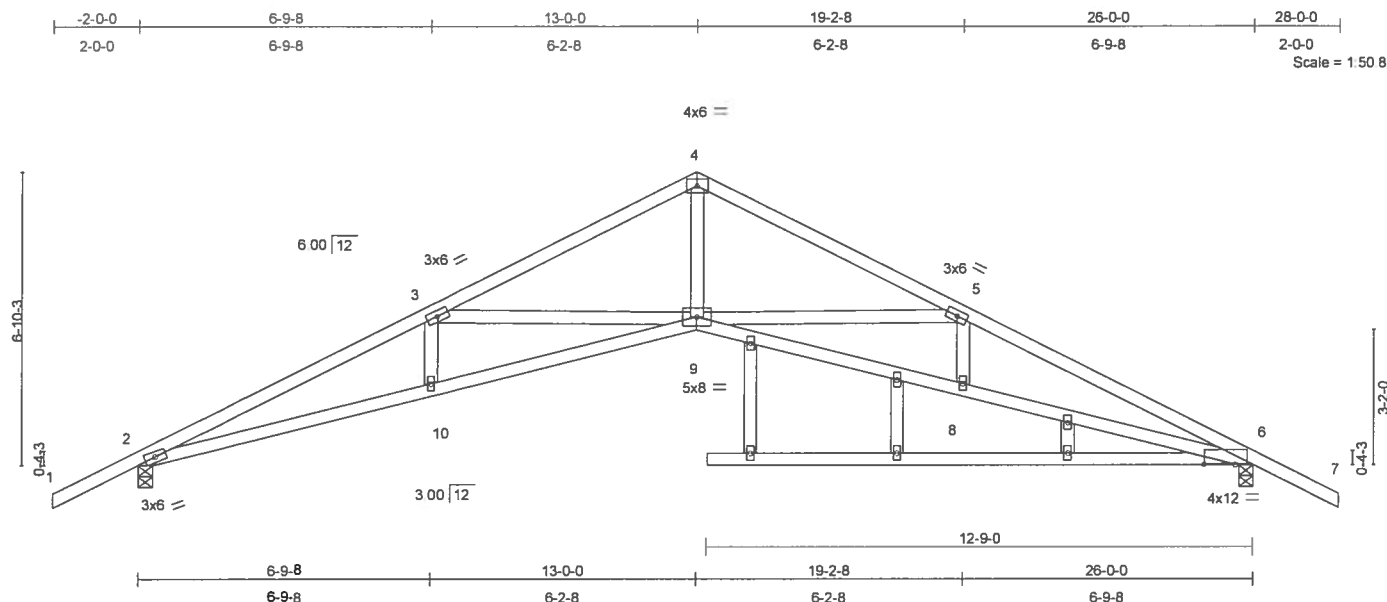


Plate Offsets (X,Y): [6:0-8-11,0-0-2]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	2-0-0	TC 0.38	Vert(LL)	0.25	8-9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.56	Vert(TL)	-0.44	8-9	>696	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.48	Horz(TL)	0.32	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 143 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-5-12 oc bracing. Except:  
1 Row at midpt 6-9

#### REACTIONS

(lb/size) 2=938/0-4-0, 6=938/0-4-0  
Max Horz 2=-112(load case 7)  
Max Uplift 2=-275(load case 6), 6=-275(load case 7)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=-2605/1226, 3-4=-1851/838, 4-5=-1851/838, 5-6=-2605/1226, 6-7=0/46  
BOT CHORD 2-10=-939/2309, 9-10=-941/2311, 8-9=-941/2311, 6-8=-939/2309  
WEBS 3-10=0/197, 3-9=-703/498, 4-9=-472/1246, 5-9=-703/498, 5-8=0/197

#### JOINT STRESS INDEX

2 = 0.80, 3 = 0.39, 4 = 0.73, 5 = 0.39, 6 = 0.72, 8 = 0.33, 9 = 0.70, 10 = 0.33, 12 = 0.33, 13 = 0.33, 14 = 0.33, 15 = 0.33, 16 = 0.33 and 17 = 0.33

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

Julius Lane  
Truss Design Engineer  
Florida PE No. 37868  
1805 Coastal Ray Blvd  
Boynton Beach, FL 33435

November 27, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - RAY RES.
L261921	T06A	SCISSORS	1	1	J1912274
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Nov 27 16:28:48 2007 Page 2

#### NOTES

- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 2 and 275 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Richard Keen  
Truss Design Engineer  
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Lakeland, FL 33905

November 27, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**

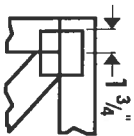
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and/or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



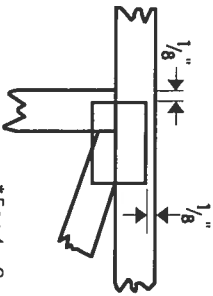


# Symbols

## PLATE LOCATION AND ORIENTATION



\*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and secure seat.



\*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



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

## PLATE SIZE

4 X 4

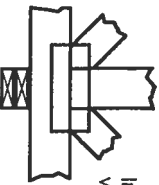
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



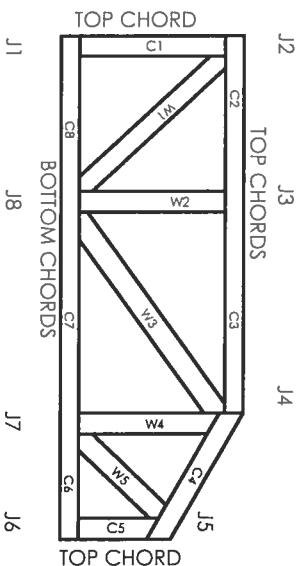
Indicates location of required continuous lateral bracing.

## BEARING



Indicates location of joints at which bearings (supports) occur.

# Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

## CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561



Mitek Engineering Reference Sheet: MIT-7473



# General Safety Notes

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

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint).
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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CABLE TRUSS DETAIL NOTES:  
LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .  
PROVIDE UPLIFT CONNECTIONS FOR 130 PLF OVER  
CONTINUOUS BEARING (6 PSF TC DEAD LOAD).  
CABLE AND BRACKETED LOAD SHALL BE 4" O.C.

CABLE VERTICAL SPACING	2X4 SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 L <sup>2</sup> BRACE •		(1) 2X4 L <sup>2</sup> BRACE •		(2) 2X4 L <sup>2</sup> BRACE ••		(1) 2X6 L <sup>2</sup> BRACE •		(2) 2X6 L <sup>2</sup> BRACE ••			
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B				
O.C. 24"	SPF	#1 / #2	3 4"	5 10"	6 0"	6 11"	7 1"	8 3"	6 6"	8 3"	6 6"	10 10"	11 2"	12 11"	13 3"
		#3	3 3"	4 11"	4 11"	6 6"	6 6"	8 3"	8 3"	8 3"	10 0"	10 1"	10 1"	12 11"	12 11"
		STUD	3 3"	4 11"	4 11"	6 5"	6 5"	8 3"	8 3"	8 3"	10 0"	10 0"	12 11"	12 11"	12 11"
		HF	STANDARD	3 3"	4 2"	4 2"	5 6"	5 6"	7 5"	7 5"	6 6"	6 6"	11 6"	11 6"	11 6"
			#1	3 8"	5 10"	6 3"	6 11"	7 5"	8 3"	8 3"	8 11"	10 10"	11 8"	12 11"	13 11"
			#2	3 7"	6 10"	6 3"	6 11"	7 5"	8 3"	8 3"	8 11"	10 10"	11 8"	12 11"	13 11"
	DFL	#3	3 6"	5 0"	6 0"	6 8"	6 8"	8 3"	8 3"	8 6"	10 4"	10 4"	12 11"	13 7"	
		STUD	3 6"	5 0"	5 0"	8 7"	6 7"	8 3"	8 3"	8 6"	10 3"	10 3"	12 11"	13 7"	
		STANDARD	3 4"	4 3"	4 3"	5 8"	5 8"	7 8"	7 8"	8 10"	8 10"	12 0"	12 0"	14 0"	
		#1 / #2	3 10"	6 8"	6 10"	7 11"	8 1"	9 6"	9 6"	9 8"	12 6"	12 6"	14 0"	14 0"	
		#3	3 8"	6 0"	8 0"	7 11"	7 11"	9 6"	9 6"	9 5"	12 4"	12 4"	14 0"	14 0"	
		STUD	3 8"	6 0"	6 0"	7 11"	7 11"	9 6"	9 6"	9 5"	12 4"	12 4"	14 0"	14 0"	
O.C. 16"	SPF	STANDARD	3 8"	5 2"	6 2"	6 10"	7 11"	8 6"	9 2"	9 2"	10 7"	10 7"	14 0"	14 0"	
		#1	4 3"	6 8"	7 2"	7 11"	8 6"	9 5"	10 2"	12 5"	13 5"	14 0"	14 0"		
		#2	4 2"	6 8"	7 2"	7 11"	8 6"	9 5"	10 2"	12 5"	13 5"	14 0"	14 0"		
		#3	4 0"	6 8"	6 2"	7 11"	8 2"	9 6"	9 11"	12 6"	12 6"	14 0"	14 0"		
		STUD	4 0"	6 1"	6 1"	7 11"	8 1"	9 5"	8 11"	12 5"	12 5"	14 0"	14 0"		
		STANDARD	3 10"	5 3"	5 3"	6 11"	6 11"	9 4"	9 4"	10 10"	10 10"	14 0"	14 0"		
	DFL	#1 / #2	4 3"	7 4"	7 7"	8 8"	8 11"	10 6"	10 6"	13 8"	14 0"	14 0"	14 0"		
		#3	4 2"	6 11"	6 11"	8 9"	8 9"	10 5"	10 5"	13 8"	13 8"	14 0"	14 0"		
		STUD	4 2"	6 11"	6 11"	8 9"	8 9"	10 5"	10 5"	13 8"	13 8"	14 0"	14 0"		
		HF	STANDARD	4 2"	6 11"	6 11"	8 9"	8 9"	10 5"	10 5"	13 8"	13 8"	14 0"	14 0"	
			#1	4 2"	6 11"	6 11"	8 9"	8 9"	10 5"	10 5"	13 8"	13 8"	14 0"	14 0"	
			#2	4 2"	6 11"	6 11"	8 9"	8 9"	10 5"	10 5"	13 8"	13 8"	14 0"	14 0"	
SP	#1	4 4"	7 2"	7 2"	8 9"	9 3"	10 6"	11 2"	13 8"	14 0"	14 0"	14 0"			
	#2	4 4"	7 2"	7 2"	8 9"	9 3"	10 6"	11 2"	13 8"	14 0"	14 0"	14 0"			
	STUD	4 4"	7 1"	7 1"	8 9"	9 2"	10 5"	10 11"	13 8"	14 0"	14 0"	14 0"			
	DFL	#3	4 4"	7 1"	7 1"	8 9"	9 2"	10 5"	10 11"	13 8"	14 0"	14 0"	14 0"		
		#2	4 4"	7 1"	7 1"	8 9"	9 2"	10 5"	10 11"	13 8"	14 0"	14 0"	14 0"		
		STANDARD	4 4"	7 1"	7 1"	8 9"	9 2"	10 5"	10 11"	13 8"	14 0"	14 0"	14 0"		

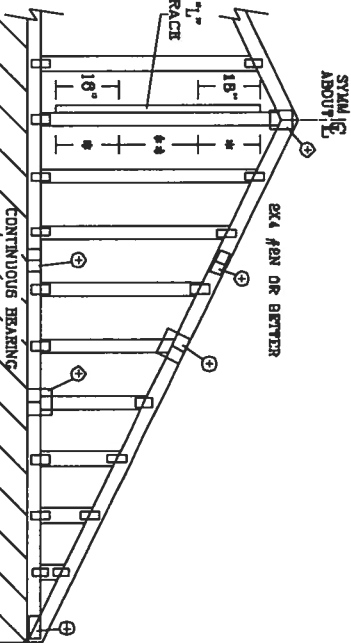
AL BRACE OPTION:  
BRACE LENGTH MAY BE  
CHANGED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
BRACE TO CABLE TRUSS  
AT BRACE TOP END. MAX  
BRACE LENGTH IS 14'.

VERTICAL BRACE LENGTH SHOWN  
IN TABLE ABOVE.

CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL  
WEB.

CABLE TRUSS

2X4 BP #2N, D7-L, F1  
SPF #1/LR, OR BETTER  
DIAGONAL BRACE.  
SINGLE OR DOUBLE  
CUT (AS SHOWN) AT  
UPPER END.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO BRACES
LESS THAN 4' 0"	1X1 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2,5X4

+ REFER TO COMMON TRUSS DESIGN FOR  
PEAK, SPICE, AND HEEL PLATES.

ATTACH EACH 1" BRACE WITH 10d NAILS.  
\* FOR (1) 1" BRACE: SPACE NAILS AT 2' O.C.  
IN 18" END ZONES AND 4' O.C. BETWEEN ZONES  
\*\* FOR (2) 1" BRACES: SPACE NAILS AT 3" O.C.  
IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.  
1" BRACING MUST BE A MINIMUM OF 80% OF WEB  
DEVELOP. LENGTH.

\*\*\*WARNING\*\*\* REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SPOILING, INSTALLING AND  
BRACING. REFER TO BEST-KNO-BUILDING CODES AND SAFETY INFORMATION PUBLISHED BY THE  
PLATE INSTITUTE, 263 CHANDLER DR., SUITE 200, MADISON, WI 53703 AND VITA LACED TRUSS COMPANY  
OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING  
THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED  
STRUCTURAL PLATE(S) AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED

**JULIUS LEE'S**  
**CONS. ENGINEERS P.A.**

1466 5th Avenue  
Delray Beach, FL 33441-2161

REF	ASCB7-02-CAB13015
DATE	11/26/03
DRWG	MTRK STD CABLE 16 E HT
-ENG	

MAX. TOT. LD. 60 PSF

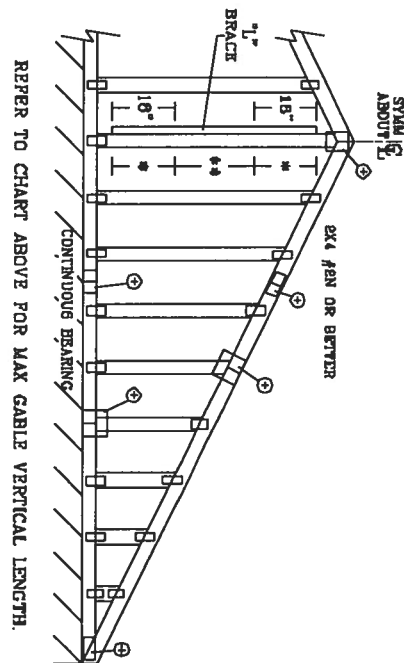
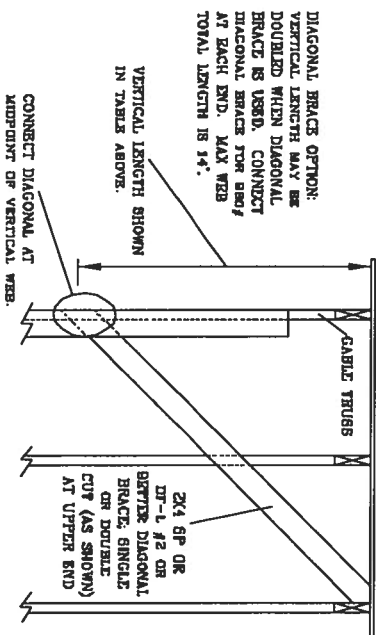
No: 34869  
STATE OF FLORIDA

MAX. SPACING 24.0"



ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH		BRACE		NO		(1) 1X4 T" BRACE		(1) 2X4 T" BRACE		(2) 2X4 T" BRACE		(1) 2X6 T" BRACE		(2) 2X6 T" BRACE	
CABLE VERTICAL SPACING	2X4 SPECIES	GRADE	BRACE	BRACES	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP B
12" O.C.	SPF	#1 / #2	3' 2"	5' 6"	6' 5"	6' 6"	6' 9"	7' 10"	6' 0"	10' 3"	10' 7"	12' 3"	12' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	5' 10"	6' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	6' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 6"	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	7' 10"	7' 10"	10' 7"	10' 7"	10' 7"	10' 7"
16" O.C.	SPF	#1	3' 6"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	6' 5"	10' 3"	11' 1"	12' 3"	13' 2"	13' 2"	13' 2"
		#2	3' 3"	4' 6"	4' 6"	5' 11"	6' 0"	7' 10"	6' 1"	9' 4"	9' 4"	12' 3"	12' 3"	12' 3"	12' 3"
		#3	3' 3"	4' 6"	4' 6"	5' 11"	6' 0"	7' 10"	6' 1"	9' 4"	9' 4"	12' 3"	12' 3"	12' 3"	12' 3"
		STUD	3' 0"	3' 10"	3' 10"	5' 11"	5' 11"	6' 11"	6' 11"	8' 0"	8' 3"	9' 3"	10' 10"	10' 10"	10' 10"
24" O.C.	SPF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 6"	8' 11"	6' 3"	9' 7"	9' 7"	12' 11"	12' 11"	12' 11"	12' 11"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	6' 3"	9' 7"	9' 7"	12' 11"	12' 11"	12' 11"	12' 11"
		STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	6' 3"	9' 7"	9' 7"	12' 11"	12' 11"	12' 11"	12' 11"
		STANDARD	3' 7"	4' 8"	4' 8"	6' 2"	6' 2"	8' 3"	6' 3"	9' 7"	9' 7"	12' 11"	12' 11"	12' 11"	12' 11"
12" O.C.	DFL	#1	4' 0"	8' 4"	8' 10"	7' 6"	8' 1"	8' 11"	6' 7"	11' 6"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	3' 11"	5' 7"	6' 10"	7' 4"	7' 4"	8' 11"	6' 6"	11' 5"	11' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	3' 8"	5' 6"	5' 6"	7' 3"	7' 3"	8' 11"	6' 5"	11' 4"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 3"	6' 3"	9' 9"	9' 9"	13' 3"	13' 3"	13' 3"	13' 3"
16" O.C.	DFL	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	DFL	#1	4' 5"	6' 11"	7' 6"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 4"	6' 11"	7' 6"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 6"	6' 6"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 3"	9' 10"	6' 10"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPRUCE-PINE-DM	HEM-FIR	SPRUCE-PINE-DM	HEM-FIR
#1 / #2	#1 / #2	#1 / #2	#1 / #2
STUD	STUD	STUD	STUD
STANDARD	STANDARD	STANDARD	STANDARD
DOUGLAS FIR-LARCH		DOUGLAS FIR-LARCH	
#1	#1	#1	#1
STUD	STUD	STUD	STUD
STANDARD	STANDARD	STANDARD	STANDARD

#### CABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEPLETION CRITERIA IS 1/240.
- PROVIDE UPLIFT CONNECTIONS FOR 160 PSF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).
- CABLE END SUPPORTS LOAD FROM 4' 0" OUTLEAKERS WITH 8' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH T" BRACE WITH 10d NAILS.
- \* FOR (1) T" BRACE: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- \*\* FOR (2) T" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
- T" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2X6

\* REFER TO COMMON TRUSS DESIGN FOR PEAK SPLICE AND HEEL PLATES.

REMARKS: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ECSI-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLANT INSTITUTE, 283 BONGER RD., SUITE 200, MADISON, VI. 53719 AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6520 ENTERPRISE LN, MADISON, VI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.  
1456 9th AVENUE  
DELRAY BEACH, FL 33444-0561

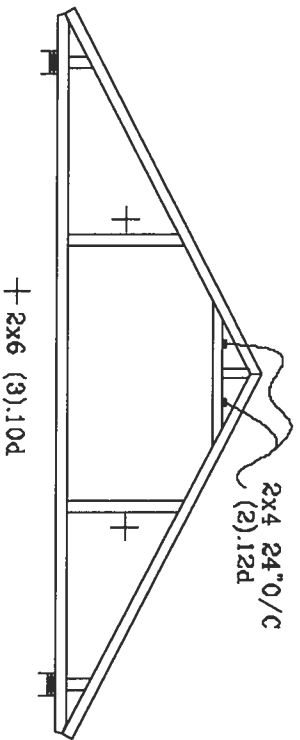
No. 34808  
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF  
MAX. SPACING 24.0"

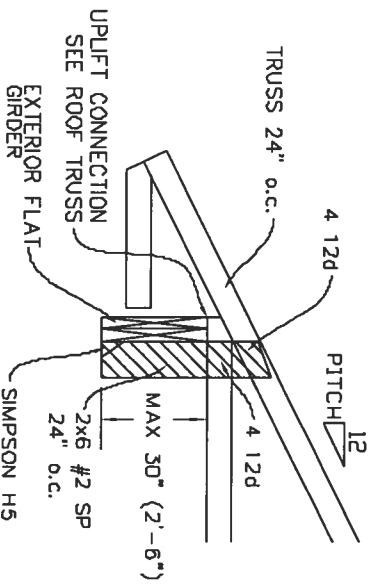
REF ASCE7-02-CAB10030  
DATE 11/26/03  
DWG. WTRK STD GABLE 30' E MT  
-ENG



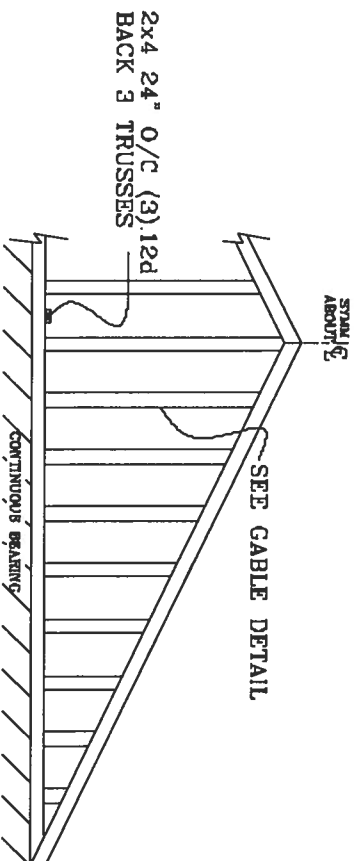
## TYPICAL ATTIC TRUSS BRACING



## TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

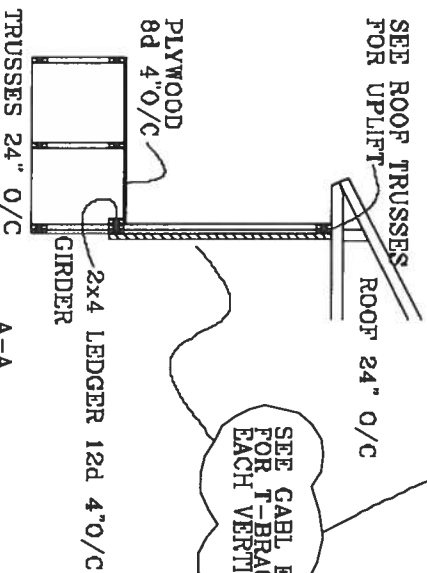
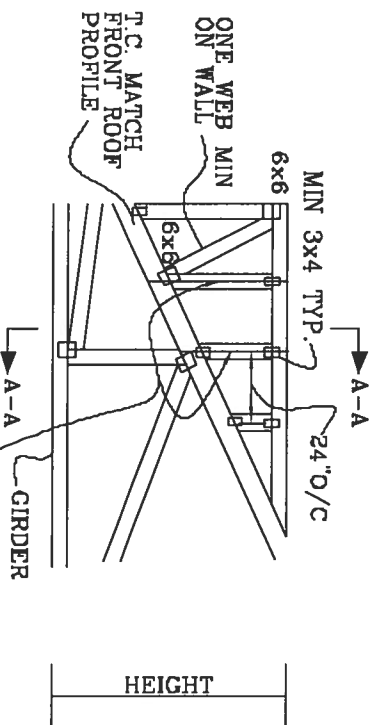


## GABLE END TRUSS DETAIL



MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOR

## TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



**JULIUS LEE'S**  
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1456 SW 4TH AVENUE  
DELRAY BEACH, FL 33444-2161

No: 34669  
STATE OF FLORIDA



TOP CHORD 2X4 #2 OR BETTER  
BOT CHORD 2X4 #2 OR BETTER  
WEBS 2X4 #3 OR BETTER

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

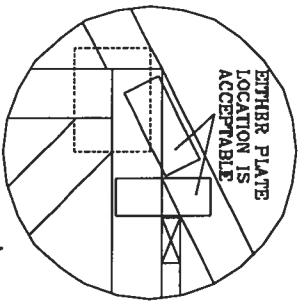
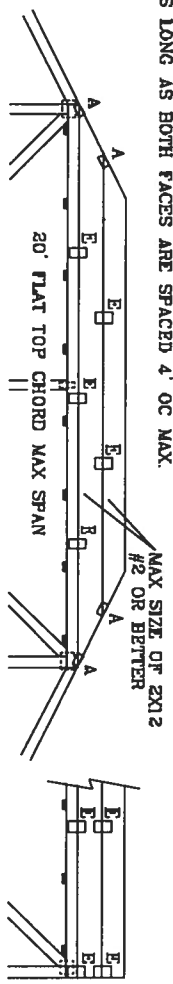
110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST

CAT 1, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, EXP ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT 1, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF



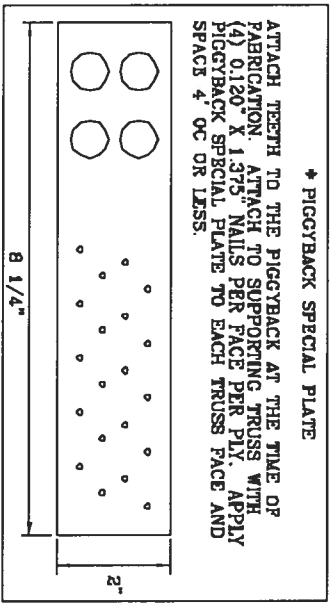
ATTACH PIGGYBACK WITH 3X6 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

REMARKS: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO TEST (102) BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS OF AMERICA, 6010 ENTERPRISE BLVD, MANASSAS, VA 20108 FOR SAFETY PRACTICES PRIOR TO CONSTRUCTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	6X6	6X6	6X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	6X6	6X6	6X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

ATTACH TRUSS PLATES WITH (8) 0.120" X 1.375" NAILS OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4' OC.
10' TO 14'	2X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.



JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1405 SW 4TH AVENUE  
DEER BEACH, FL 33441-4261

MAX LOADING  
55 PSF AT  
1.33 DUR. FAC.  
50 PSF AT  
1.25 DUR. FAC.  
47 PSF AT  
1.15 DUR. FAC.  
SPACING 24.0"

REF PIGGYBACK  
DATE 09/12/07  
DRG/MITEK STD PIGGY  
-ENG JL

No. 34886  
STATE OF FLORIDA

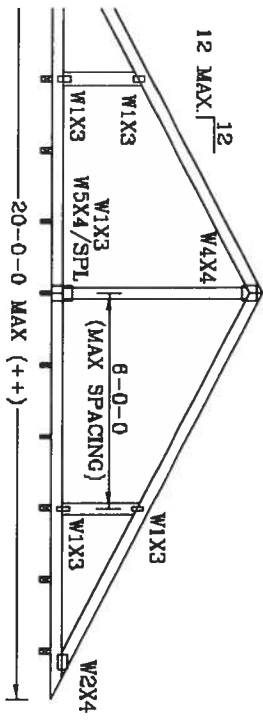
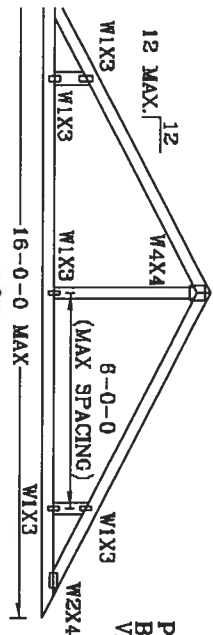
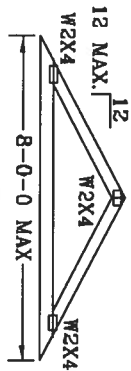
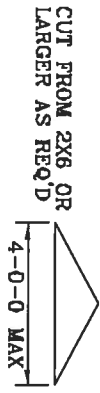
THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045



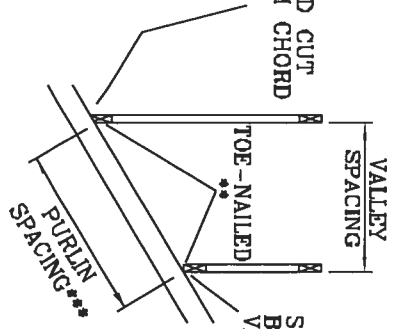
# VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.  
 BOT CHORD 2X3(\*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.  
 WEBS 2X4 SP #3 OR BETTER.

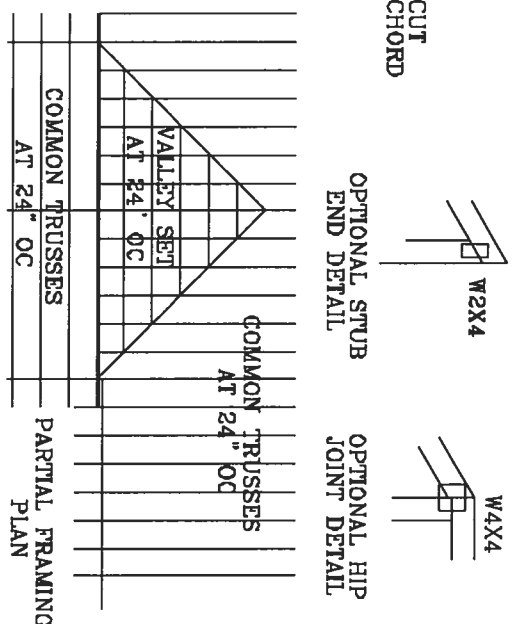
- \* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).
- \*\* ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:  
 (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR  
 FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR  
 ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED  
 BUILDING. EXP. C. RESIDENTIAL. WIND TC DL=6 PSF.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.



\*\*\* NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS  
 BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.  
 ++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES  
 NOT EXCEED 12'0".  
 BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80%  
 LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED  
 WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING,  
 EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".  
 MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".  
 TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:  
 PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS  
 INSTALLATION  
 OR  
 PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN  
 OR  
 BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON  
 ENGINEERS' SEALED DESIGN.

JULIUS LEE'S  
 CONS. ENGINEERS P.A.

1655 SW 4TH AVENUE  
 DEERFIELD BEACH, FL 33442-8101

No. 34888  
 STATE OF FLORIDA

TC LL	20	20	PSF	DATE	11/26/03
BC DL	7	15	PSF	DRWG	VALTRUSS1103
BC DL	5	5	PSF	ENG	JL
BC LL	0	0	PSF		
TOT. LD.	32	40	PSF		
DURFAC	1.25	1.25			
SPACING	24"				

THIS DRAWING REPLACES DRAWING A105



# TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING, "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

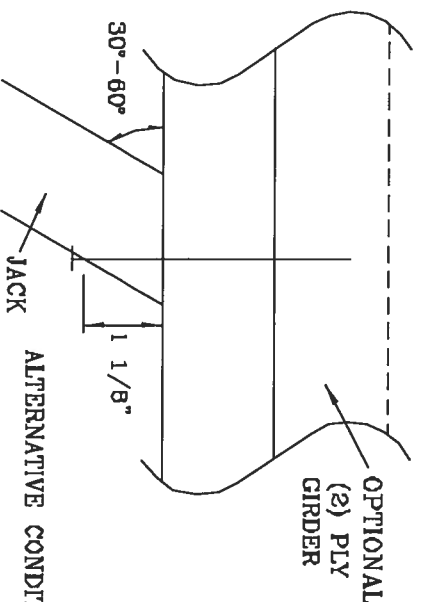
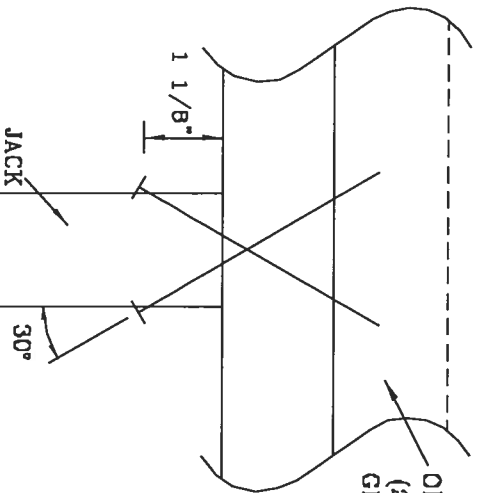
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES
2	197#	266#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 764040

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 CRUISING CONCRETE SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 383 BOWEN RD., SUITE 200, MADISON, VT 05719 AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6800 ENTERPRISE LN, MADISON, VT 05719) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS ERECTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.

1450 ST 4TH AVENUE  
DELRAY BEACH, FL 33441-2181

No. 34069  
STATE OF FLORIDA

TC LL PSF REF TOE-NAIL

TC DL PSF DATE 09/12/07

BC DL PSF DRWG CTONAIL1103

BC LL PSF -ENG JL

TOT. LD. PSF

DUR. FAC. 1.00

SPACING

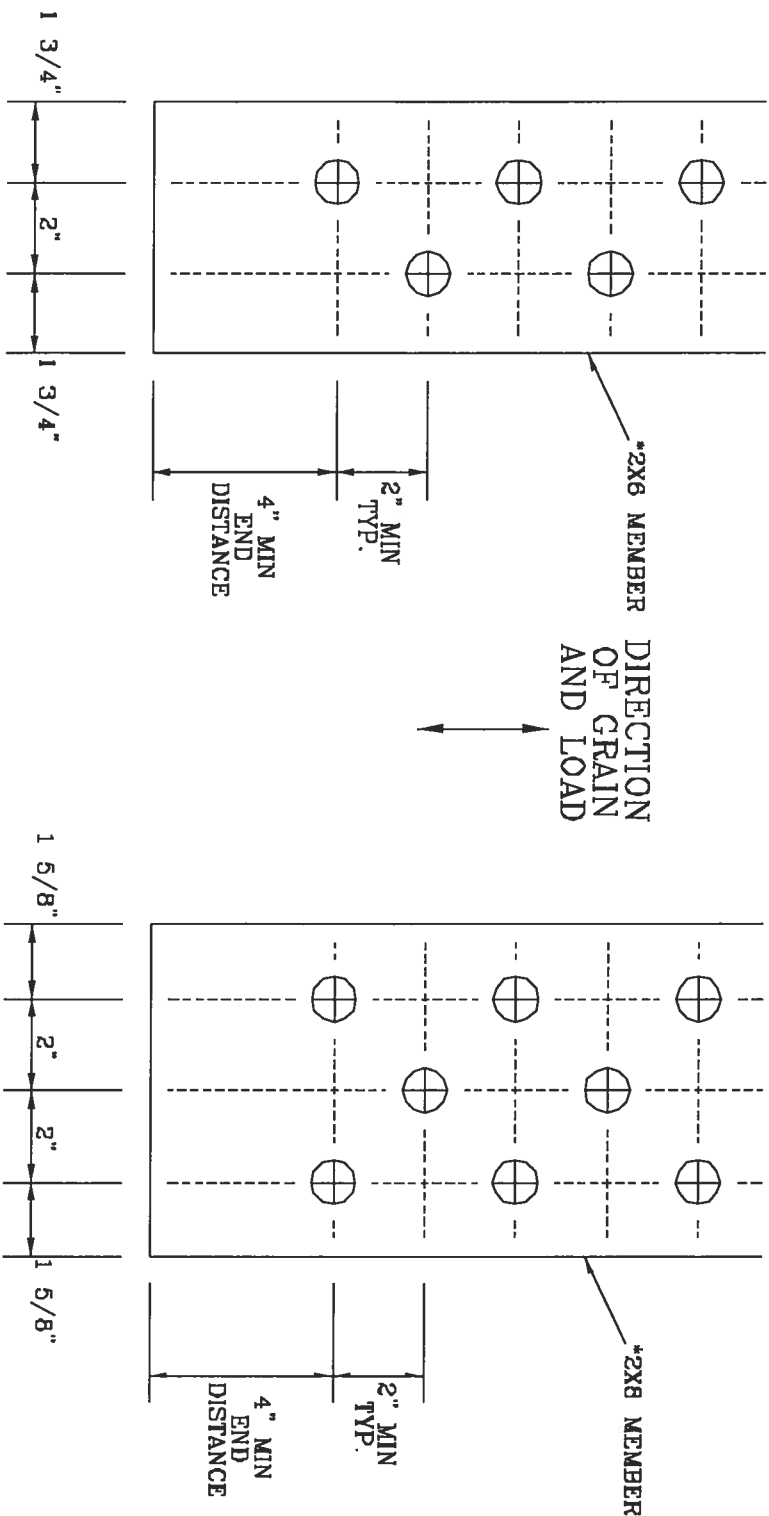


# 1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

- GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.
- BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828.016

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST I-20 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 3800 DOWNTOWN DR., SUITE 200, HANOVER, VA 22060) AND VICA (VEDD TRUSS COUNCIL, 10000 W. 11TH AVENUE, SUITE 100, DENVER, CO 80231) FOR SAFETY PRACTICES PRIOR TO PERFORMING REPAIRS OR MODIFICATIONS TO TRUSSES. ALL TRUSSES MUST BE DESIGNED AND DETAIL DRAWN BY A LICENSED STRUCTURAL ENGINEER. ALL TRUSSES MUST BE DESIGNED AND DETAIL DRAWN BY A LICENSED STRUCTURAL ENGINEER. ALL TRUSSES MUST BE DESIGNED AND DETAIL DRAWN BY A LICENSED STRUCTURAL ENGINEER.

JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1425 57 4TH AVENUE  
DELMAR BEACH, FL 33444-2161

No: 34889  
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSPI103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		

DUR. FAC.

SPACING

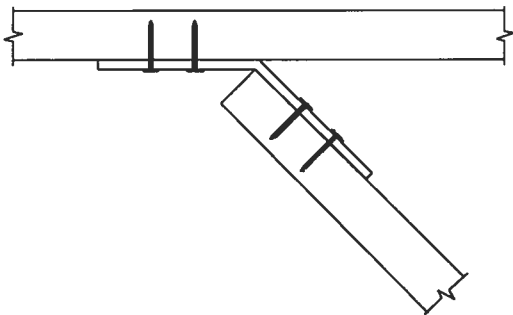


11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX  
PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE  
SHOWN (Φ).

- THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3x6	9	350#
6x6	15	990#

THIS DRAWING REPLACES DRAWINGS 1.158,889 1.158,988/R  
1.154,844 1.152,217 1.152,017 1.159,154 & 1.151,524

—WARNING— TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HOISTING, SHIPPING, INSTALLING AND BRACING. REFER TO SECS 1-10 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CRANES & RIGGING INSTITUTE, 388 DUNDON RD., SUITE 200, MAINTON, VA 23109) AND VITA (WOOD TRUSS CONNECTIONS FOR AMERICA, 6300 ENTERPRISE DR., MADISON, VA 22113) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CLIPPING.

JULIUS LEE'S

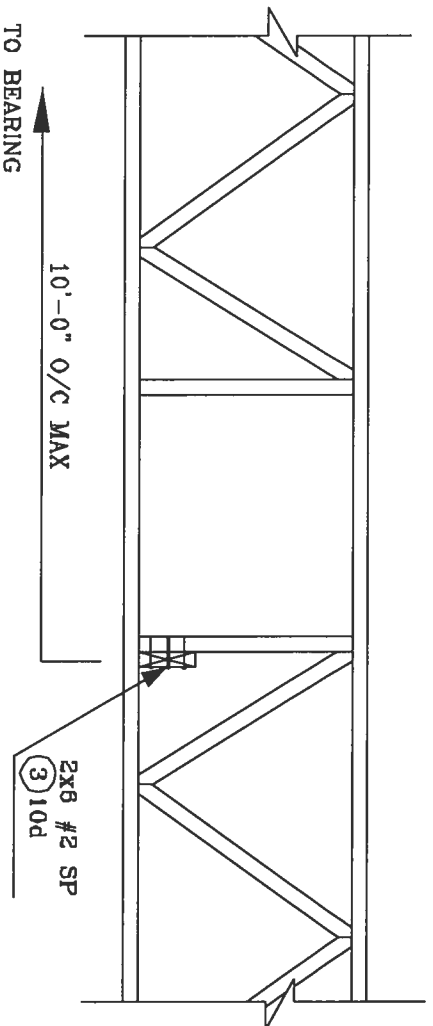
1455 SW 4th Avenue  
DeLray Beach, FL 33446-2101

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

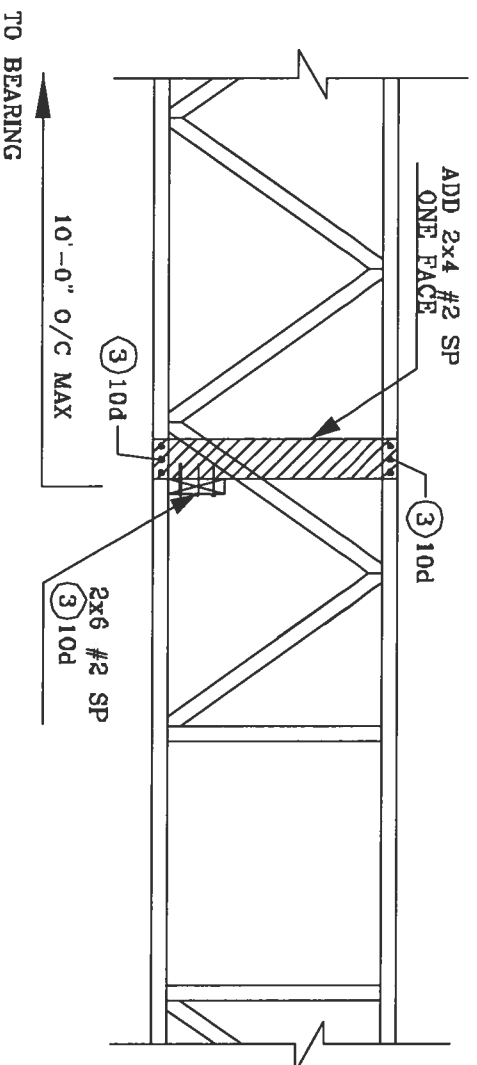
**No: 34869**  
**STATE OF FLORIDA**



**STRONG BACK DETAIL  
SYSTEM-42 OR FLAT TRUSS**



**ALTERNATE DETAIL FOR  
STRONG BACK WITH VERTICAL  
NOT LINING UP**



**JULIUS LEE'S**  
CONS. ENGINEERS P.A.  
1456 SW 4th AVENUE  
OCEARAY BEACH, FL 33441-2661

No: 34868  
STATE OF FLORIDA



# Residential System Sizing Calculation

## Summary

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

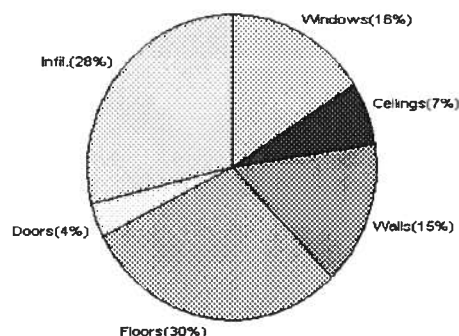
12/4/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
<b>Total heating load calculation</b>	<b>20873 Btuh</b>	<b>Total cooling load calculation</b>	<b>16381 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.0 24000	Sensible (SHR = 0.50)	96.9 12000
Heat Pump + Auxiliary(0.0kW)	115.0 24000	Latent	300.5 12000
		Total (Electric Heat Pump)	146.5 24000

## WINTER CALCULATIONS

Winter Heating Load (for 1170 sqft)

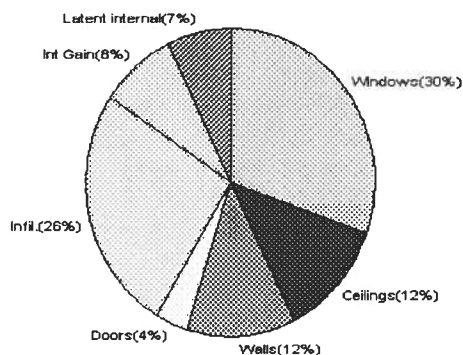
Load component			Load	
Window total	104 sqft		3348	Btuh
Wall total	972 sqft		3192	Btuh
Door total	60 sqft		777	Btuh
Ceiling total	1202 sqft		1416	Btuh
Floor total	142 sqft		6200	Btuh
Infiltration	147 cfm		5940	Btuh
Duct loss			0	Btuh
<b>Subtotal</b>			<b>20873</b>	<b>Btuh</b>
Ventilation	0 cfm		0	Btuh
<b>TOTAL HEAT LOSS</b>			<b>20873</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1170 sqft)

Load component			Load	
Window total	104 sqft		4979	Btuh
Wall total	972 sqft		2027	Btuh
Door total	60 sqft		588	Btuh
Ceiling total	1202 sqft		1991	Btuh
Floor total			0	Btuh
Infiltration	76 cfm		1423	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0 cfm		0	Btuh
<b>Total sensible gain</b>			<b>12388</b>	<b>Btuh</b>
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			2794	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
<b>Total latent gain</b>			<b>3994</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>			<b>16381</b>	<b>Btuh</b>



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 12-4-07



# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

12/4/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
4	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
Window Total			104(sqft)			3348 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	972		3.3	3192 Btuh
Wall Total			972			3192 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1202		1.2	1416 Btuh
Ceiling Total			1202			1416Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	142.0 ft(p)		43.7	6200 Btuh
Floor Total			142			6200 Btuh
Zone Envelope Subtotal:						14933 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	9360	146.6		5940 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					20873 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	20873 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	20873 Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

12/1/2007



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(Frame types - metal, wood or insulated metal)  
(U - Window U-Factor or 'DEF' for default)  
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )

For Florida residences only



# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

12/4/2007

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
4	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
Window Total			104(sqft)			3348 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	972		3.3	3192 Btuh
Wall Total			972			3192 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		40		12.9	518 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1202		1.2	1416 Btuh
Ceiling Total			1202			1416Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	142.0 ft(p)		43.7	6200 Btuh
Floor Total			142			6200 Btuh
Zone Envelope Subtotal:						14933 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	9360	146.6		5940 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					20873 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	20873 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	20873 Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(Frame types - metal, wood or insulated metal)  
(U - Window U-Factor or 'DEF' for default)  
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )



For Florida residences only



# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

12/4/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

### Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468	Btuh
5	2, Clear, 0.87, None,N,N	SE	6.25f	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh
Window Total					104 (sqft)					4979 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			972.0		2.1		2027 Btuh		
Wall Total					972 (sqft)				2027 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Exterior				20.0		9.8		196 Btuh		
2	Insulated - Exterior				40.0		9.8		392 Btuh		
Door Total					60 (sqft)				588 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0			1202.0		1.7		1991 Btuh		
Ceiling Total					1202 (sqft)				1991 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			142 (ft(p))		0.0		0 Btuh		
Floor Total					142.0 (sqft)				0 Btuh		
	Zone Envelope Subtotal:									9585 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load		
	SensibleNatural	0.49			9360		76.4		1423 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			0		1380 Btuh		
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12388 Btuh	



# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

12/4/2007

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>12388 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>12388 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>12388 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	2794 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>3994 Btuh</b>
	<b>TOTAL GAIN</b>	<b>16381 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)  
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
(U - Window U-Factor or 'DEF' for default)  
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(BS - Insect screen: none(N), Full(F) or Half(H))  
(Ornt - compass orientation)



For Florida residences only



# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

12/4/2007

### Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468	Btuh
5	2, Clear, 0.87, None,N,N	SE	6.25f	5.5ft.	30.0	30.0	0.0	29	63	869	Btuh
Window Total					104 (sqft)					4979 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		972.0			2.1		2027 Btuh		
Wall Total				972 (sqft)					2027 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Exterior				20.0		9.8		196 Btuh		
2	Insulated - Exterior				40.0		9.8		392 Btuh		
Door Total				60 (sqft)				588 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0		1202.0			1.7		1991 Btuh		
Ceiling Total				1202 (sqft)					1991 Btuh		
Floors	Type	R-Value		Size			HTM		Load		
1	Slab On Grade	0.0		142 (ft(p))			0.0		0 Btuh		
Floor Total				142.0 (sqft)					0 Btuh		
	Zone Envelope Subtotal:									9585 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural	0.49		9360			76.4		1423 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	6		X 230 +			0		1380 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12388 Btuh	



# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

12/4/2007

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>12388 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>12388 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>12388 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	2794 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>3994 Btuh</b>
	<b>TOTAL GAIN</b>	<b>16381 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only



# Residential Window Diversity

## MidSummer

Ray Kevin Residence  
414 SW Santucknee Terr.  
Ft. White, FL

Project Title:  
711302KeenRichardSpecHouse

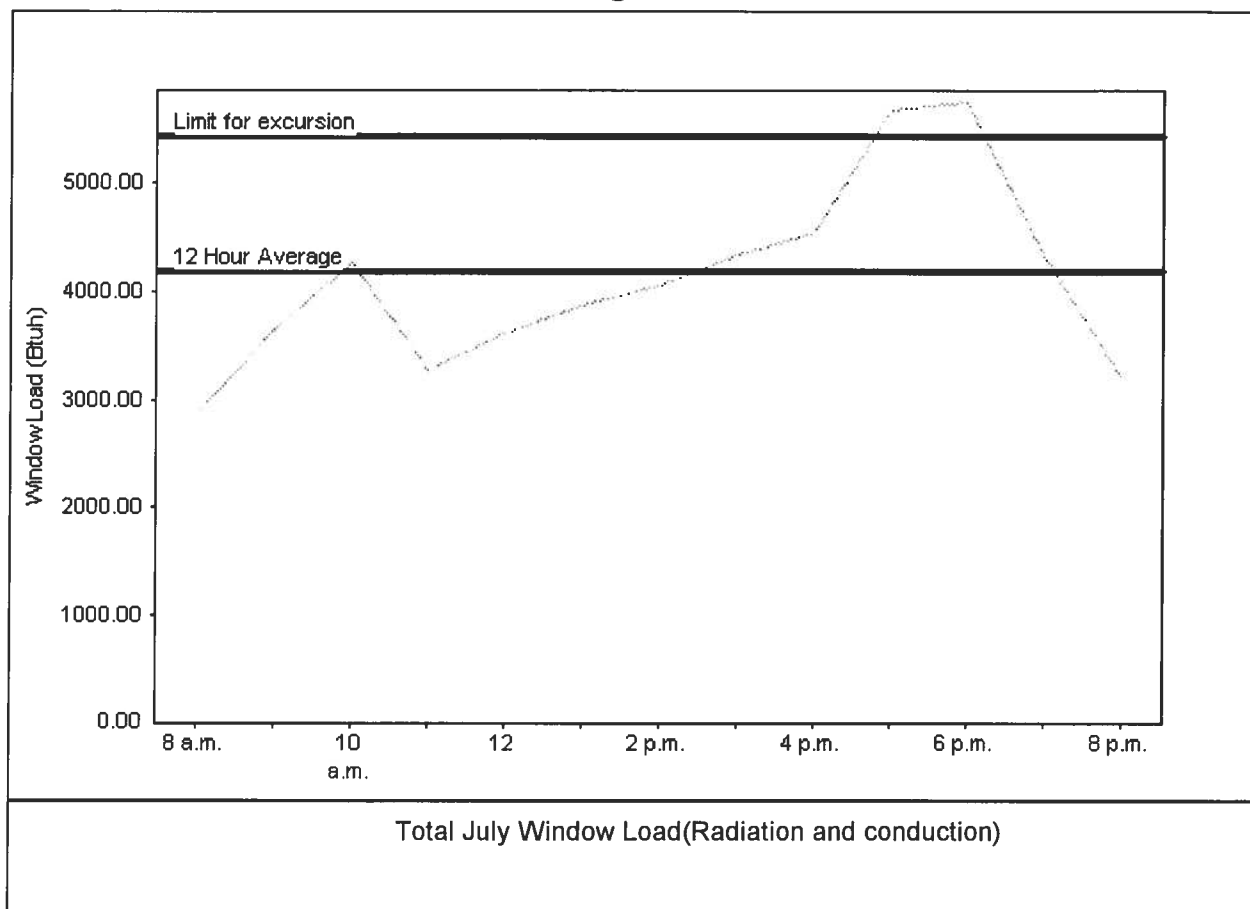
Class 3 Rating  
Registration No. 0  
Climate: North

12/4/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4180 Btuh
Summer setpoint	75 F	Peak window load for July	5741 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	5434 Btuh
Latitude	29 North	Window excursion (July)	307 Btuh

## WINDOW Average and Peak Loads



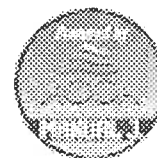
Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: 12-4-07

EnergyGauge® FLR2PB v4.1





# COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

## OCCUPANCY

### COLUMBIA COUNTY, FLORIDA

#### Department of Building and Zoning Inspection

*This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.*

Parcel Number 30-6S-16-04001-108

Building permit No. 000026531

Use Classification SFD/UTILITY

Fire: 0.00

Permit Holder JAMES H. JOHNSTON

Waste:           

Owner of Building STEVEN & SHARON RAY

Total: 0.00

Location: 414 SW SAN-TUCKNEE TERR, FT. WHITE, FL

Date: 03/06/2008

*Wayne A. Rues*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)