



**Project Information for: L255638**

Lot : 3  
 Subdivision: Laurel Lakes  
 County: Columbia  
 Truss Count: 50  
 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.

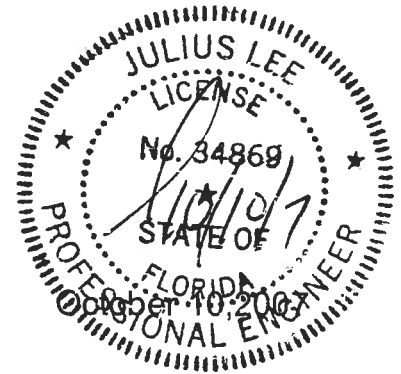
**Engineer of Record:** Unknown at time of Seal Date  
 Address: Unknown at time of Seal Date

**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	Seal Date	No.	Drwg. #	Truss ID	Seal Date
1	J1899276	CJ1	10/10/07	29	J1899304	T21	10/10/07
2	J1899277	EJ4	10/10/07	30	J1899305	T22	10/10/07
3	J1899278	EJ4A	10/10/07	31	J1899306	T23	10/10/07
4	J1899279	HJ1	10/10/07	32	J1899307	T24	10/10/07
5	J1899280	PB1	10/10/07	33	J1899308	T25	10/10/07
6	J1899281	PB2	10/10/07	34	J1899309	T26	10/10/07
7	J1899282	PB3	10/10/07	35	J1899310	T27	10/10/07
8	J1899283	T01	10/10/07	36	J1899311	T28	10/10/07
9	J1899284	T01G	10/10/07	37	J1899312	T29	10/10/07
10	J1899285	T02	10/10/07	38	J1899313	T30	10/10/07
11	J1899286	T03	10/10/07	39	J1899314	T30G	10/10/07
12	J1899287	T04	10/10/07	40	J1899315	T31	10/10/07
13	J1899288	T05	10/10/07	41	J1899316	T31G	10/10/07
14	J1899289	T06	10/10/07	42	J1899317	T32	10/10/07
15	J1899290	T07	10/10/07	43	J1899318	T33	10/10/07
16	J1899291	T08	10/10/07	44	J1899319	T34	10/10/07
17	J1899292	T09	10/10/07	45	J1899320	T34G	10/10/07
18	J1899293	T10	10/10/07	46	J1899321	V1	10/10/07
19	J1899294	T11	10/10/07	47	J1899322	V2	10/10/07
20	J1899295	T12	10/10/07	48	J1899323	V3	10/10/07
21	J1899296	T13	10/10/07	49	J1899324	V4	10/10/07
22	J1899297	T14	10/10/07	50	J1899325	V5	10/10/07
23	J1899298	T15	10/10/07				
24	J1899299	T16	10/10/07				
25	J1899300	T17	10/10/07				
26	J1899301	T18	10/10/07				
27	J1899302	T19	10/10/07				
28	J1899303	T20	10/10/07				





**Project Information for: L255638**

Lot : 3  
 Subdivision: Laurel Lakes  
 County: Columbia  
 Truss Count: 50  
 Design Program: MiTek 20/20 6.3  
 Building Code: FBC2004/TPI2002

October 10,2007

**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.

**Engineer of Record:** Unknown at time of Seal Date  
 Address: Unknown at time of Seal Date

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

**Notes:**

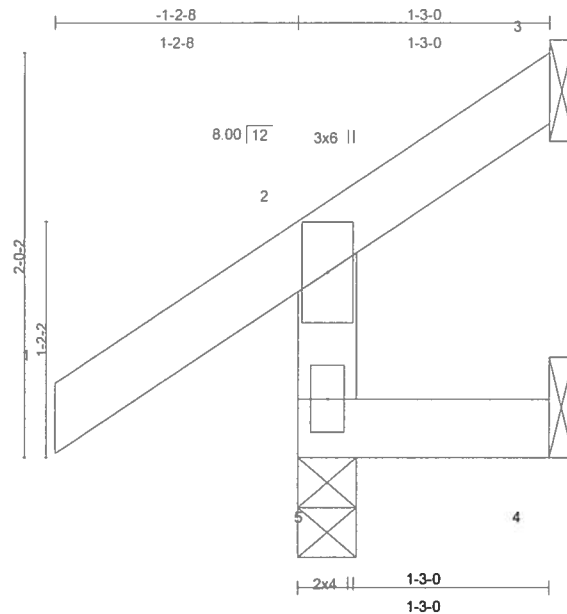
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
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	Seal Date	No.	Drwg. #	Truss ID	Seal Date
1	J1899276	CJ1	10/10/07	29	J1899304	T21	10/10/07
2	J1899277	EJ4	10/10/07	30	J1899305	T22	10/10/07
3	J1899278	EJ4A	10/10/07	31	J1899306	T23	10/10/07
4	J1899279	HJ1	10/10/07	32	J1899307	T24	10/10/07
5	J1899280	PB1	10/10/07	33	J1899308	T25	10/10/07
6	J1899281	PB2	10/10/07	34	J1899309	T26	10/10/07
7	J1899282	PB3	10/10/07	35	J1899310	T27	10/10/07
8	J1899283	T01	10/10/07	36	J1899311	T28	10/10/07
9	J1899284	T01G	10/10/07	37	J1899312	T29	10/10/07
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11	J1899286	T03	10/10/07	39	J1899314	T30G	10/10/07
12	J1899287	T04	10/10/07	40	J1899315	T31	10/10/07
13	J1899288	T05	10/10/07	41	J1899316	T31G	10/10/07
14	J1899289	T06	10/10/07	42	J1899317	T32	10/10/07
15	J1899290	T07	10/10/07	43	J1899318	T33	10/10/07
16	J1899291	T08	10/10/07	44	J1899319	T34	10/10/07
17	J1899292	T09	10/10/07	45	J1899320	T34G	10/10/07
18	J1899293	T10	10/10/07	46	J1899321	V1	10/10/07
19	J1899294	T11	10/10/07	47	J1899322	V2	10/10/07
20	J1899295	T12	10/10/07	48	J1899323	V3	10/10/07
21	J1899296	T13	10/10/07	49	J1899324	V4	10/10/07
22	J1899297	T14	10/10/07	50	J1899325	V5	10/10/07
23	J1899298	T15	10/10/07				
24	J1899299	T16	10/10/07				
25	J1899300	T17	10/10/07				
26	J1899301	T18	10/10/07				
27	J1899302	T19	10/10/07				
28	J1899303	T20	10/10/07				

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899276
L255638	CJ1	JACK	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1/11.1

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.20	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	0.00	5	>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: 8 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 1-3-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (lb/size) 5=153/0-3-8, 4=-4/Mechanical, 3=-6/Mechanical

Max Horz 5=92(load case 6)

Max Uplift 5=-73(load case 6), 4=-23(load case 6), 3=-21(load case 7)

Max Grav 5=153(load case 1), 4=13(load case 2), 3=13(load case 4)

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

TOP CHORD 2-5=-138/121, 1-2=0/41, 2-3=-36/7

BOT CHORD 4-5=0/0

#### JOINT STRESS INDEX

2 = 0.23 and 5 = 0.34

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 73 lb uplift at joint 5, 23 lb uplift at joint 4 and 21 lb uplift at joint 3.

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Central Bay Blvd  
Daytona Beach, FL 32118

October 10, 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'Oro Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	CJ1	JACK	4	1	J1899276
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. 3-1008  
1106 Coastal Bay Blvd  
Weynton Beach, FL 33436

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899277
L255638	EJ4	JACK	15	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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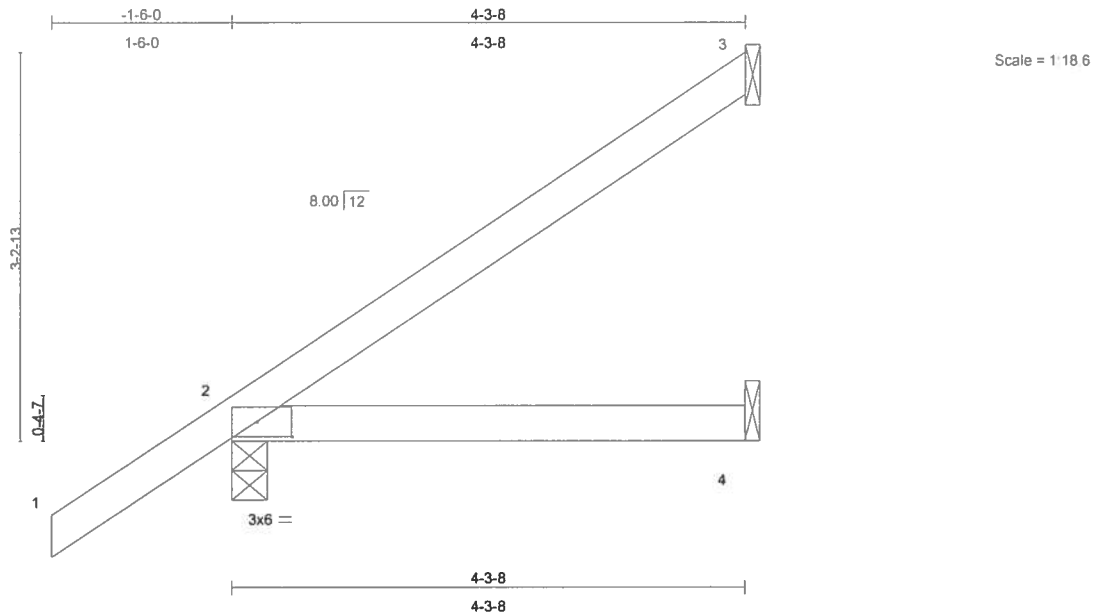


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.17	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.12	Vert(TL)	-0.03	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: 17 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 4-3-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (lb/size) 3=92/Mechanical, 2=237/0-3-8, 4=20/Mechanical

Max Horz 2=194(load case 6)  
Max Uplift 3=-98(load case 6), 2=-136(load case 6)  
Max Grav 3=92(load case 1), 2=237(load case 1), 4=61(load case 2)

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

TOP CHORD 1-2=0/44, 2-3=-82/40  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.13

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 31933  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32118

October 10, 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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899277
L255638	EJ4	JACK	15	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3 and 136 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 34888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33438

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	EJ4A	MONO SCISSOR	15	1	TWENSEY - LOT 3 LL

J1899278

Builders FirstSource, Lake City, FL 32055

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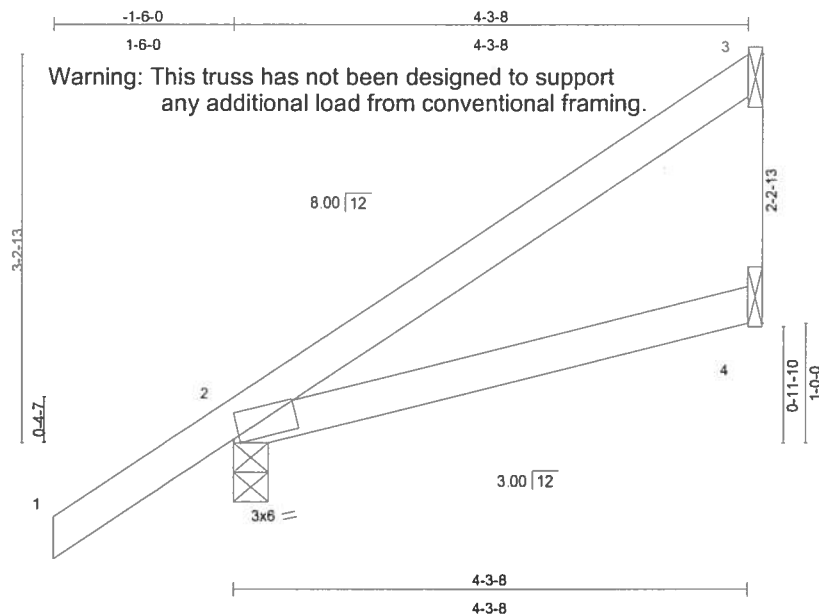


Plate Offsets (X,Y): [2:0-0-10,Edge]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	2-0-0	TC 0.17	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.12	Vert(TL)	-0.03	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: 17 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 4-3-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=92/Mechanical, 2=237/0-3-8, 4=20/Mechanical

Max Horz 2=193(load case 6)

Max Uplift 3=-99(load case 6), 2=-135(load case 6)

Max Grav 3=92(load case 1), 2=237(load case 1), 4=61(load case 2)

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

TOP CHORD 1-2=0/43, 2-3=-84/41

BOT CHORD 2-4=-12/12

**JOINT STRESS INDEX**

2 = 0.11

**NOTES**

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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

Continued on page 2

Julius Lee  
 Truss Design Engineer  
 Florida Exp. No. 01000  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32118

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899278
L255638	EJ4A	MONO SCISSOR	15	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 3 and 135 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 2-1888  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32118

October 10, 2007

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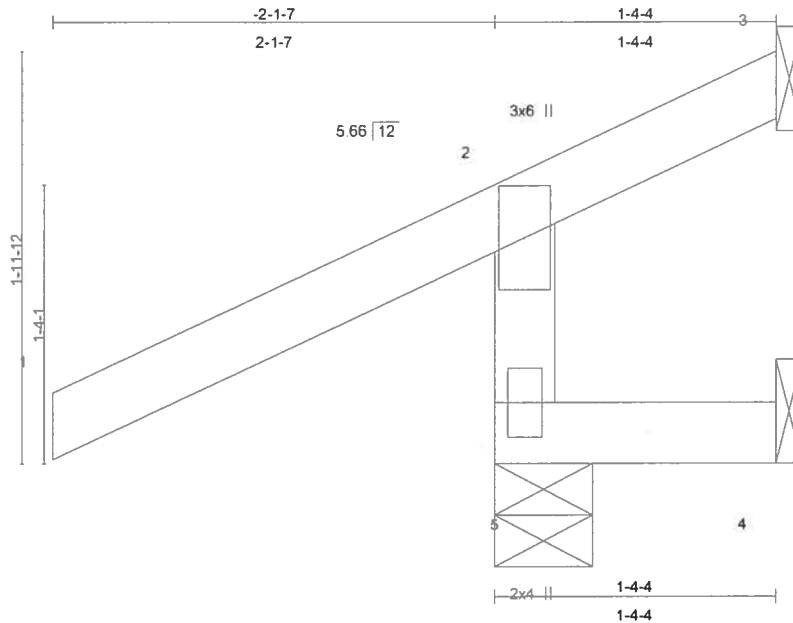




Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899279
L255638	HJ1	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:19:47 2007 Page 1



Scale = 1/10 7

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)	0.00	5	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	0.00	5	>999	240		
BCLL 10.0	Rep Stress Incr	NO	WB 0.00	Horz(TL)	-0.01	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 9 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 1-4-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=249/0-5-11, 4=-22/Mechanical, 3=-75/Mechanical  
Max Horz 5=76(load case 5)  
Max Uplift 5=-208(load case 5), 4=-22(load case 1), 3=-75(load case 1)  
Max Grav 5=249(load case 1), 4=8(load case 2), 3=75(load case 5)

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

TOP CHORD 2-5=-223/212, 1-2=0/52, 2-3=-43/32  
BOT CHORD 4-5=0/0

#### JOINT STRESS INDEX

2 = 0.28 and 5 = 0.31

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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 208 lb uplift at joint 5, 22 lb uplift at joint 4 and 75 lb uplift at joint 3.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Truss Design Engineer  
Provide PERMITS 3-18883  
1100 Coastal Hwy Blvd  
Boynton Beach, FL 33436

October 10,2007

Continued on page 2

**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	TWENSEY - LOT 3 LL	J1899279
L255638	HJ1	JACK	2	1	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-3=-38(F=8, B=8), 5=0(F=5, B=5)-to-4=-7(F=1, B=1)

Julius Lee  
Truss Design Engineer  
Florida PB No. 34889  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33438

October 10, 2007

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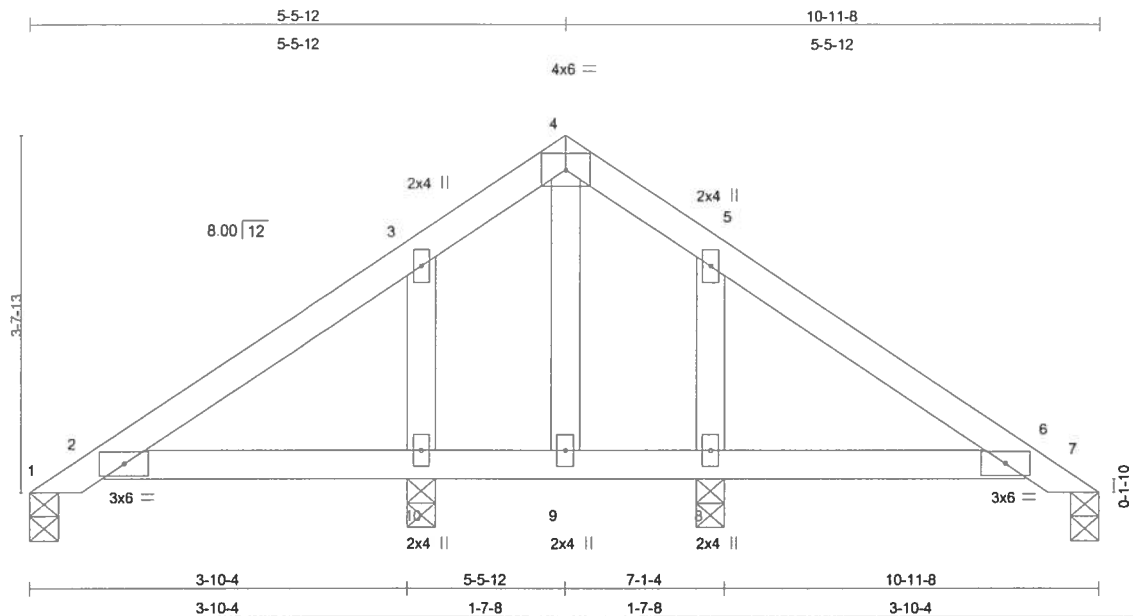
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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899280
L255638	PB1	PIGGYBACK	10	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1:22.8

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.11	Vert(LL)	-0.01	2-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.08	Vert(TL)	-0.01	2-10	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 44 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 6-0-0 oc bracing.

#### REACTIONS (lb/size) 1=56/0-3-8, 7=56/0-3-8, 10=286/0-3-8, 8=286/0-3-8

Max Horz 1=99(load case 5)

Max Uplift 1=-8(load case 4), 7=-5(load case 4), 10=-109(load case 6), 8=-96(load case 7)

Max Grav 1=70(load case 10), 7=70(load case 11), 10=286(load case 1), 8=286(load case 1)

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

TOP CHORD 1-2=-98/94, 2-3=-118/149, 3-4=-11/84, 4-5=-9/84, 5-6=-118/149, 6-7=-33/7

BOT CHORD 2-10=-77/160, 9-10=-77/160, 8-9=-77/160, 6-8=-77/160

WEBS 4-9=-73/17, 3-10=-196/175, 5-8=-196/175

#### JOINT STRESS INDEX

2 = 0.28, 3 = 0.09, 4 = 0.10, 5 = 0.09, 6 = 0.28, 8 = 0.10, 9 = 0.03 and 10 = 0.10

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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.

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida P.E. No. 3-8889  
1100 Coastal Hwy Blvd  
Waynton Beach, FL 33426

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	PB1	PIGGYBACK	10	1	J1899280
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 5 lb uplift at joint 7, 109 lb uplift at joint 10 and 96 lb uplift at joint 8.
- 7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
FirstSource, Lake City, FL 32055  
1100 Coastal Bay Blvd  
Weynton Beach, FL 32435

October 10, 2007

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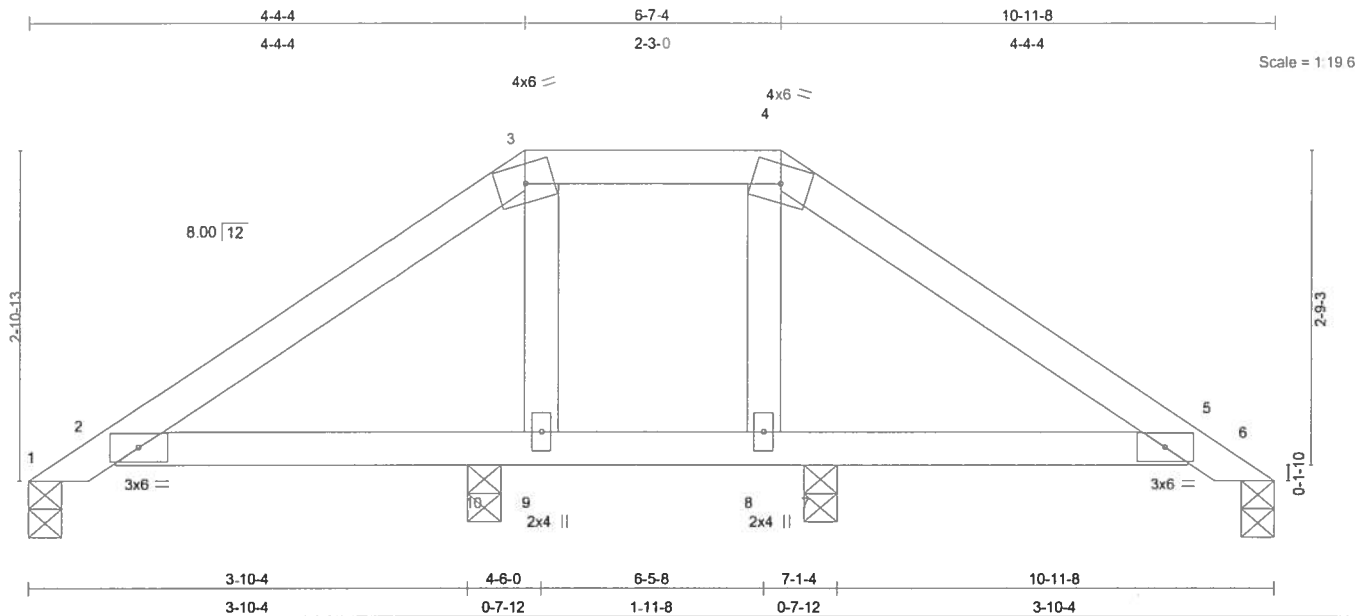
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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899281
L255638	PB2	HIP CAP	2	1	Job Reference (optional)	

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 0.11	Vert(LL)	-0.01	2-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.14	Vert(TL)	-0.01	2-10	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.01	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 39 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 6-0-0 oc bracing.

#### REACTIONS (lb/size) 1=69/0-3-8, 6=69/0-3-8, 10=273/0-3-8, 7=273/0-3-8

Max Horz 1=-78(load case 4)

Max Uplift 1=-11(load case 4), 6=-27(load case 4), 10=-90(load case 5), 7=-68(load case 7)

Max Grav 1=86(load case 10), 6=86(load case 11), 10=273(load case 1), 7=273(load case 1)

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

TOP CHORD 1-2=-68/78, 2-3=-42/123, 4-5=-35/123, 5-6=-41/21, 3-4=0/66

BOT CHORD 2-10=-54/98, 9-10=-54/98, 8-9=-66/106, 7-8=-54/98, 5-7=-54/98

WEBS 3-9=-202/144, 4-8=-202/144

#### JOINT STRESS INDEX

2 = 0.46, 3 = 0.33, 4 = 0.33, 5 = 0.46, 8 = 0.08 and 9 = 0.08

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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.
- Provide adequate drainage to prevent water ponding.

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Continued on page 2

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899281
L255638	PB2	HIP CAP	2	1	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) Bearing at joint(s) 1, 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 11 lb uplift at joint 1, 27 lb uplift at joint 6, 90 lb uplift at joint 10 and 68 lb uplift at joint 7.
- 8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

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Boynton Beach, FL 33435

October 10, 2007

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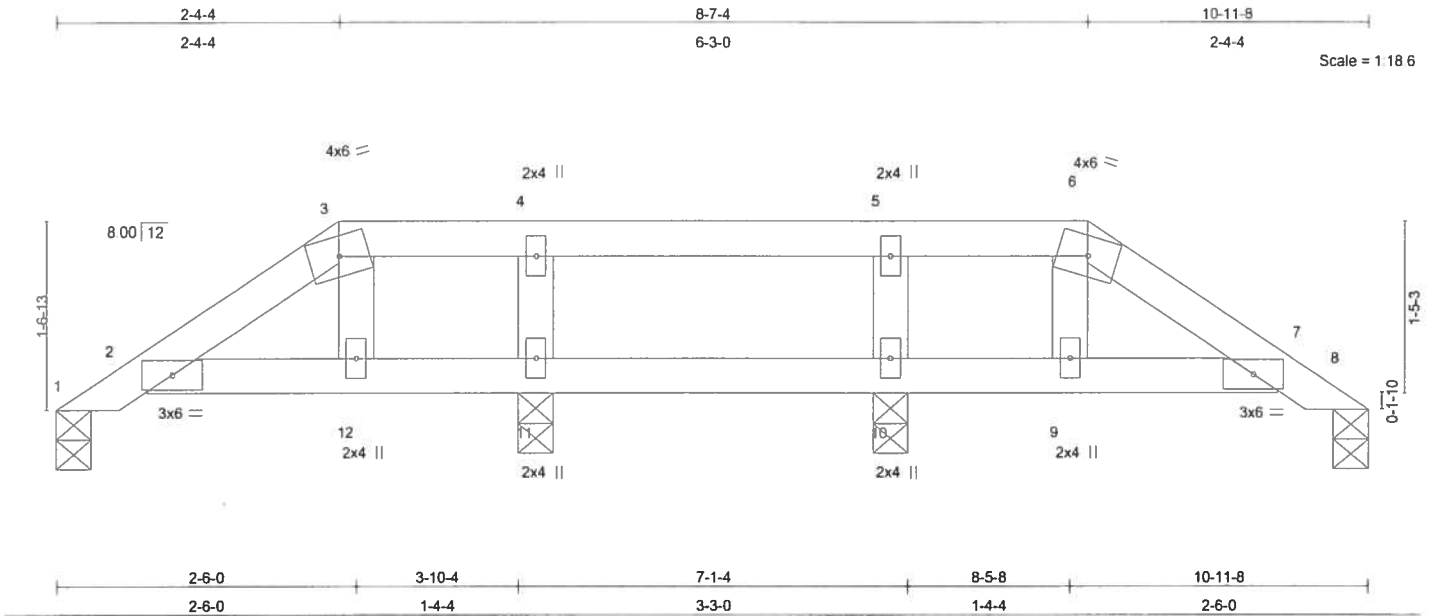
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	PB3	HIP CAP	2	1	TWENSEY - LOT 3 LL
					J1899282

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 0.12	Vert(LL)	-0.01	7-9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	7-9	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.01	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 37 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) 1=130/0-3-8, 8=130/0-3-8, 11=213/0-3-8, 10=213/0-3-8  
Max Horz 1=-41(load case 4)  
Max Uplift 1=-28(load case 6), 8=-31(load case 7), 11=-95(load case 5), 10=-88(load case 4)  
Max Grav 1=130(load case 1), 8=130(load case 1), 11=230(load case 10), 10=230(load case 11)

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

TOP CHORD 1-2=-63/42, 2-3=-114/69, 6-7=-114/69, 7-8=-63/42, 3-4=-81/81, 4-5=-81/81, 5-6=-81/81  
BOT CHORD 2-12=-18/81, 11-12=-15/81, 10-11=-15/81, 9-10=-15/81, 7-9=-16/81  
WEBS 3-12=-11/24, 6-9=-11/24, 4-11=-167/145, 5-10=-167/145

#### JOINT STRESS INDEX

2 = 0.27, 3 = 0.04, 4 = 0.08, 5 = 0.08, 6 = 0.04, 7 = 0.27, 9 = 0.02, 10 = 0.08, 11 = 0.08 and 12 = 0.02

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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.
- Provide adequate drainage to prevent water ponding.

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1403 Central Bay Blvd  
Boynton Beach, FL 33436

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899282
L255638	PB3	HIP CAP	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:03 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Bearing at joint(s) 1, 8 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 28 lb uplift at joint 1, 31 lb uplift at joint 8, 95 lb uplift at joint 11 and 88 lb uplift at joint 10.
- 8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 24886  
1400 Coastal Bay Blvd  
Boynton Beach, FL 33436

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899283
L255638	T01	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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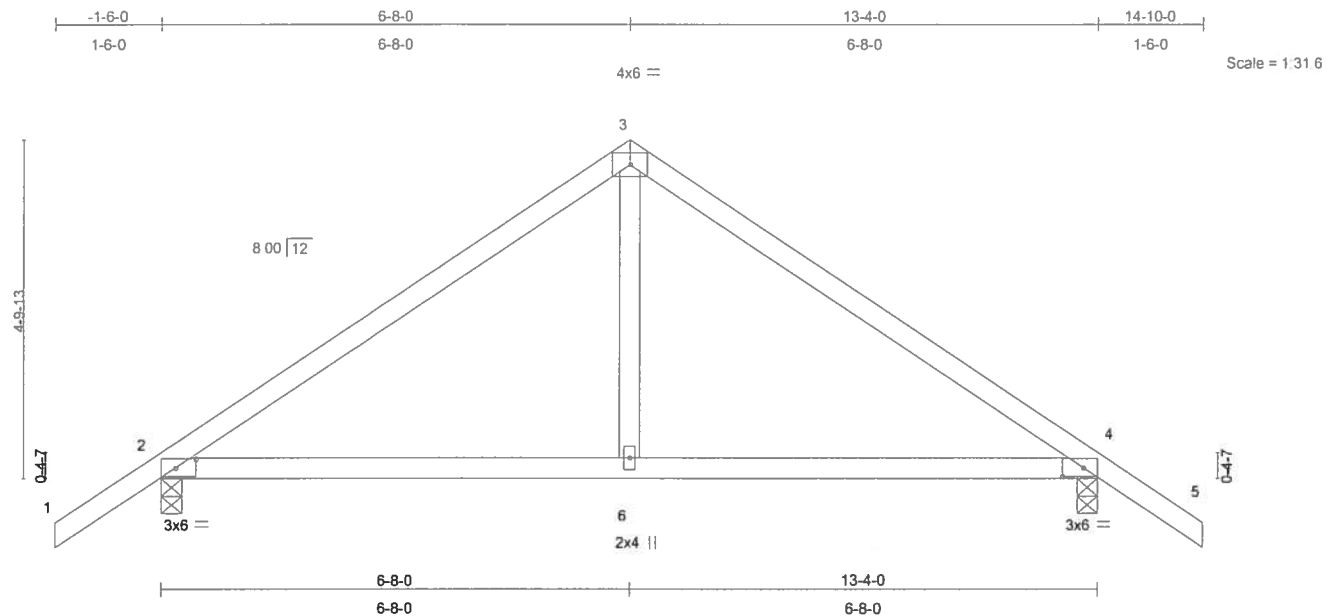


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [4:0-3-9,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.29	Vert(LL)	0.04	2-6	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.23	Vert(TL)	-0.07	2-6	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.01	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 56 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) 2=506/0-3-8, 4=506/0-3-8  
Max Horz 2=-123(load case 4)  
Max Uplift 2=-161(load case 6), 4=-161(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/44, 2-3=-519/218, 3-4=-519/218, 4-5=0/44  
BOT CHORD 2-6=-23/352, 4-6=-23/352  
WEBS 3-6=0/228

#### JOINT STRESS INDEX

2 = 0.52, 3 = 0.75, 4 = 0.52 and 6 = 0.16

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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

Continued on page 2

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Truss Design Engineer  
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Gwynn Beach, FL 32736

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899283
L255638	T01	COMMON	1	1	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 161 lb uplift at joint 2 and 161 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Julius Lee  
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Florida, PE No. 21888  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32135

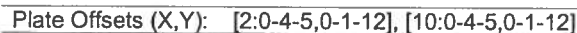
October 10, 2007

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6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:05 2007 Page 1



**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899284
L255638	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:05 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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" 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 181 lb uplift at joint 2, 198 lb uplift at joint 10, 1 lb uplift at joint 14, 144 lb uplift at joint 15, 106 lb uplift at joint 16, 142 lb uplift at joint 13 and 111 lb uplift at joint 12.
- 10) 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: 1-6=-87(F=-33), 6-11=-87(F=-33), 2-10=-10

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October 10, 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



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

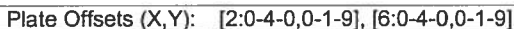
October 10, 2007

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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.

October 10, 2007



**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899285
L255638	T02	COMMON	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 5) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 901 lb uplift at joint 6 and 709 lb uplift at joint 2.
- 8) Girder carries tie-in span(s): 29-4-0 from 5-3-8 to 13-4-0

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
  - Uniform Loads (plf)
    - Vert: 1-4=-54, 4-6=-54, 2-9=-10, 6-9=-443(F=-433)
  - Concentrated Loads (lb)
    - Vert: 8=-1272(F)

Julius Lee  
Truss Design Engineer  
Florida PE No. 34055  
11100 Coastal Bay Blvd  
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October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899286
L255638	T03	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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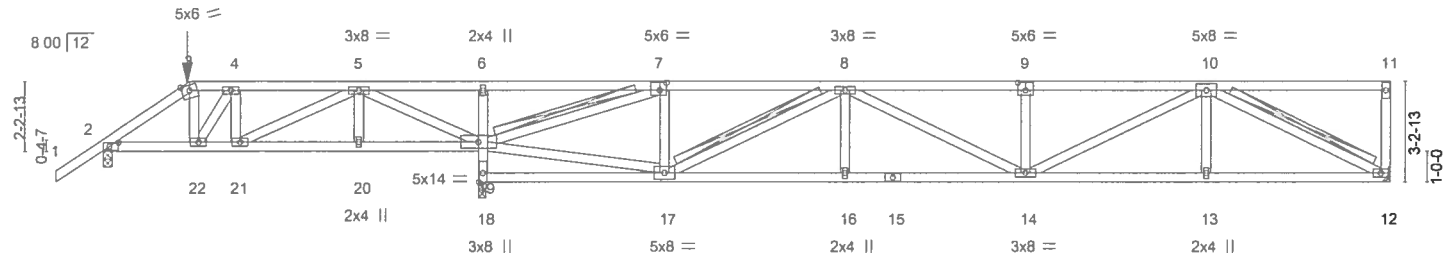
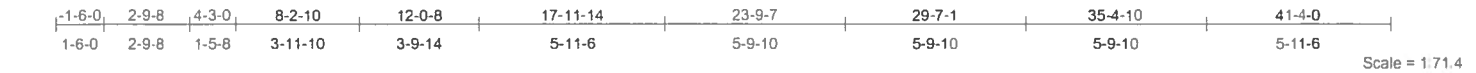


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [7:0-2-8,0-3-0], [9:0-3-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.72	Vert(LL)	0.23 14-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.55	Vert(TL)	-0.42 14-16	>834	240		
BCLL 10.0	Rep Stress Incr	NO	WB 0.79	Horz(TL)	0.06 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 226 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 6-18 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 3-3-3 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 7-19, 8-17, 10-12  
 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) 12=1272/Mechanical, 2=355/0-3-8, 18=2426/0-3-0  
 Max Horz 2=111(load case 5)  
 Max Uplift 12=-571(load case 3), 2=-300(load case 5), 18=-1292(load case 3)

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

TOP CHORD 1-2=0/44, 2-3=-301/289, 3-4=-203/255, 4-5=-204/292, 5-6=-882/1798, 6-7=-852/1739, 7-8=-1257/518, 8-9=-2883/1282, 9-10=-2883/1282, 10-11=-86/39, 11-12=-227/144  
 BOT CHORD 2-22=-250/202, 21-22=-292/204, 20-21=-442/21, 19-20=-442/21, 18-19=-2375/1313, 6-19=-426/273, 17-18=-46/80, 16-17=-1159/2635, 15-16=-1159/2635, 14-15=-1159/2635, 13-14=-912/2038, 12-13=-912/2038  
 WEBS 3-22=-116/44, 4-22=-2/118, 4-21=-261/94, 5-21=-347/719, 5-20=-72/136, 5-19=-1510/958, 17-19=-598/1294, 7-19=-3139/1440, 7-17=-166/561, 8-17=-1545/719, 8-16=0/203, 8-14=-138/278, 9-14=-464/301, 10-14=-415/947, 10-13=0/206, 10-12=-2189/979

Julius Lee  
 Truss Design Engineer  
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 1105 Coastal Bay Blvd  
 Boynton Beach, FL 33435

#### JOINT STRESS INDEX

2 = 0.33, 3 = 0.20, 4 = 0.44, 5 = 0.71, 6 = 0.78, 7 = 0.88, 8 = 0.73, 9 = 0.56, 10 = 0.61, 11 = 0.51, 12 = 0.64, 13 = 0.34, 14 = 0.89, 15 = 0.91, 16 = 0.34, 17 = 0.60, 18 = 0.44, 19 = 0.51, 20 = 0.34, 21 = 0.41 and 22 = 0.44

October 10, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899286
L255638	T03	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:30:37 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 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 571 lb uplift at joint 12, 300 lb uplift at joint 2 and 1292 lb uplift at joint 18.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-11=-82(F=-28), 2-19=-15(F=-5), 12-18=-15(F=-5)

Concentrated Loads (lb)

Vert: 3=-70(F)

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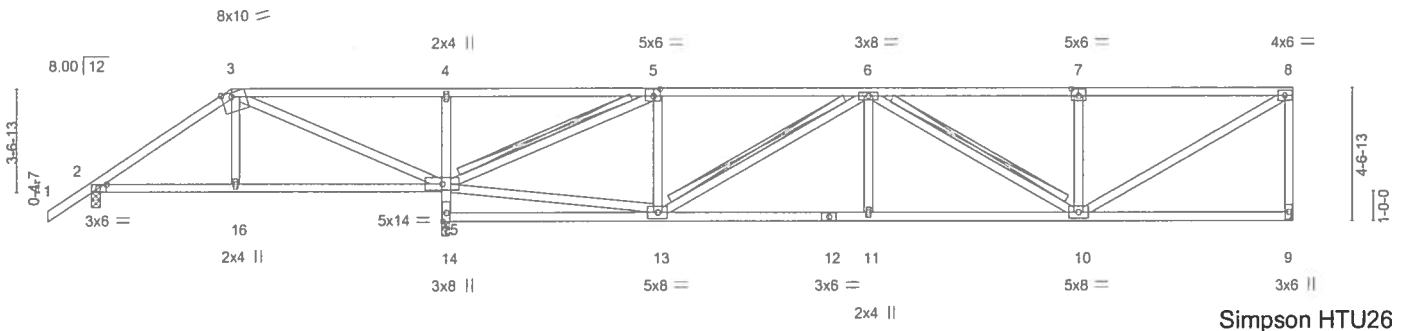
October 10,2007

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**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899287
L255638	T04	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Wed Oct 10 08:57:08 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 9, 265 lb uplift at joint 2 and 738 lb uplift at joint 14.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31908  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899288
L255638	T05	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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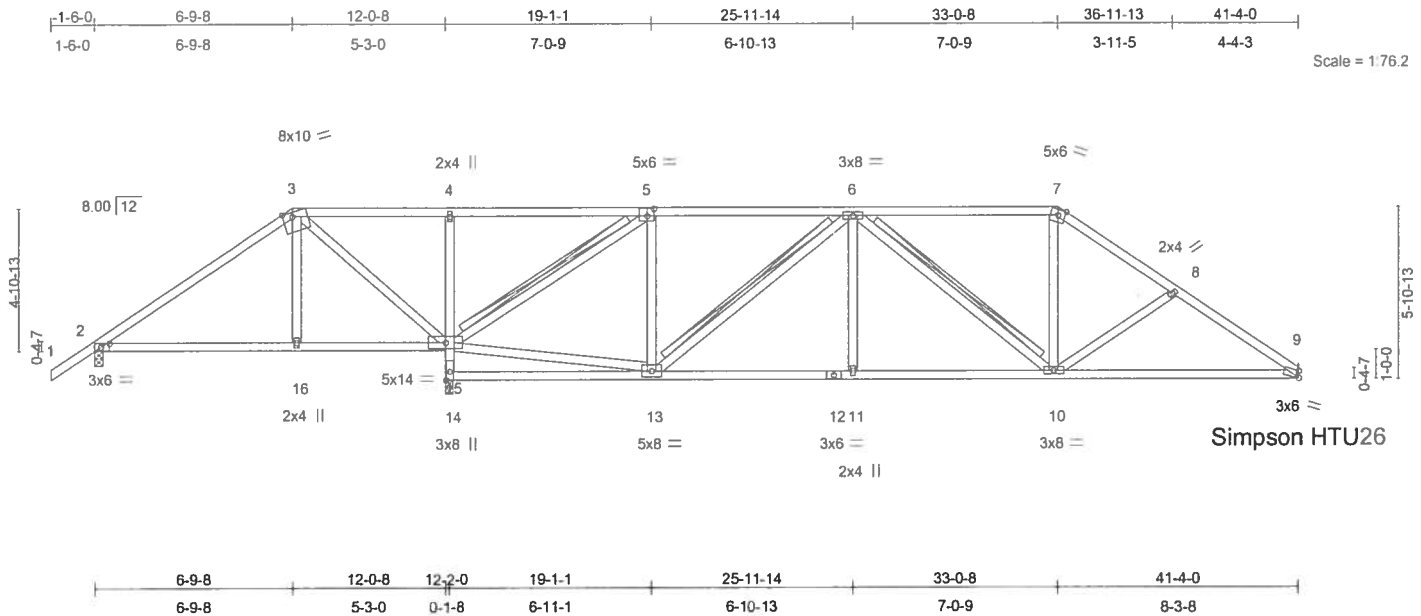


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-4-0,Edge], [5:0-2-12,0-3-0], [9:Edge,0-2-10]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.43	Vert(LL)	0.13 2-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.38	Vert(TL)	-0.21 9-10	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.57	Horz(TL)	0.04 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 233 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 4-14 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
 5-4-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 4-5-12 oc  
 bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 -  
 5-15, 6-13, 6-10  
 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) 9=840/Mechanical, 2=262/0-3-8, 14=1619/0-3-0  
 Max Horz 2=147(load case 5)  
 Max Uplift 9=-226(load case 4), 2=-277(load case 6), 14=-711(load case 5)  
 Max Grav 9=843(load case 11), 2=285(load case 10), 14=1619(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-113/198, 3-4=-203/539, 4-5=-192/527, 5-6=-565/380, 6-7=-897/552,  
 7-8=-1118/590, 8-9=-1296/638  
 BOT CHORD 2-16=-160/100, 15-16=-165/96, 14-15=-1583/1096, 4-15=-345/212, 13-14=0/75,  
 12-13=-370/1011, 11-12=-370/1011, 10-11=-370/1011, 9-10=-456/1032  
 WEBS 3-16=-252/209, 3-15=-683/613, 13-15=-213/532, 5-15=-1299/689, 5-13=-117/410,  
 6-13=-578/301, 6-11=0/194, 6-10=-241/148, 7-10=-109/340, 8-10=-173/182

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 Truss Design Engineer  
 1100 Coastal Bay Blvd  
 Weymouth Beach, FL 33546

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899288
L255638	T05	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:09 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.63, 3 = 0.55, 4 = 0.42, 5 = 0.68, 6 = 0.56, 7 = 0.49, 8 = 0.33, 9 = 0.77, 10 = 0.56, 11 = 0.33, 12 = 0.34, 13 = 0.28, 14 = 0.38, 15 = 0.24 and 16 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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.
- 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 226 lb uplift at joint 9, 277 lb uplift at joint 2 and 711 lb uplift at joint 14.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 21000  
1400 Coastal Bay Blvd  
Weynton Beach, FL 33406

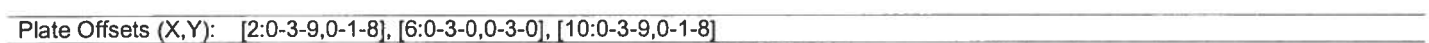
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Builders FirstSource, Lake City, FL 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:10 2007 Page 1



LUMBER		BRACING	
2x4	10	2x4	10
2x6	10	2x6	10
2x8	10	2x8	10
2x10	10	2x10	10
2x12	10	2x12	10
2x14	10	2x14	10
2x16	10	2x16	10
2x18	10	2x18	10
2x20	10	2x20	10
2x22	10	2x22	10
2x24	10	2x24	10
2x26	10	2x26	10
2x28	10	2x28	10
2x30	10	2x30	10
2x32	10	2x32	10
2x34	10	2x34	10
2x36	10	2x36	10
2x38	10	2x38	10
2x40	10	2x40	10
2x42	10	2x42	10
2x44	10	2x44	10
2x46	10	2x46	10
2x48	10	2x48	10
2x50	10	2x50	10
2x52	10	2x52	10
2x54	10	2x54	10
2x56	10	2x56	10
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2x60	10	2x60	10
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2x66	10	2x66	10
2x68	10	2x68	10
2x70	10	2x70	10
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2x90	10	2x90	10
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2x94	10	2x94	10
2x96	10	2x96	10
2x98	10	2x98	10
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2x128	10	2x128	10
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2x132	10	2x132	10
2x134	10	2x134	10
2x136	10	2x136	10
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2x148	10	2x148	10
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2x160	10	2x160	10
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2x166	10	2x166	10
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2x172	10	2x172	10
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2x180	10	2x180	10
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2x300	10	2x300	10
2x302	10	2x302	10
2x304	10	2x304	10
2x306	10	2x306	10
2x308	10	2x308	10
2x310	10	2x310	10
2x312	10	2x312	10
2x314	10	2x314	10
2x316	10	2x316	10
2x318	10	2x318	10
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2x322	10	2x322	10
2x324	10	2x324	10
2x326	10	2x326	10
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2x330	10	2x330	10
2x332	10	2x332	10
2x334	10	2x334	10
2x336	10	2x336	10
2x338	10	2x338	10
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2x344	10	2x344	10
2x346	10	2x346	10
2x348	10	2x348	10
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2x356	10	2x356	10
2x358	10	2x358	10
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2x364	10	2x364	10
2x366	10	2x366	10
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2x376	10	2x376	10
2x378	10	2x378	10
2x380	10	2x380	10
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2x386	10	2x386	10
2x388	10	2x388	10
2x390	10	2x390	10
2x392	10	2x392	10
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2x396	10	2x396	10
2x398	10	2x398	10
2x400	10	2x400	10
2x402	10	2x402	10
2x404	10	2x404	10
2x406	10	2x406	10
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2x414	10	2x414	10
2x416	10	2x416	10
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2x420	10	2x420	10
2x422	10	2x422	10
2x424	10	2x424	10
2x426	10	2x426	10
2x428	10	2x428	10
2x430	10	2x430	10
2x432	10	2x432	10
2x434	10	2x434	10
2x436	10	2x436	10
2x438	10	2x438	10
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2x642	10	2x642	10
2x644	10	2x644	10
2x646	10	2x646	10
2x648	10	2x648	10
2x650	10	2x650	10
2x652	10	2x652	10
2x654	10	2x654	10
2x656	10	2x656	10
2x658	10	2x658	10

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1104 Coastal Way Blvd  
Dunedin, FL 34626

October 10.2007



**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899289
L255638	T06	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:10 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.32, 3 = 0.41, 4 = 0.44, 5 = 0.33, 6 = 0.66, 7 = 0.56, 8 = 0.56, 9 = 0.41, 10 = 0.62, 11 = 0.33, 12 = 0.56, 13 = 0.26, 14 = 0.33, 15 = 0.29, 16 = 0.39, 17 = 0.26, 18 = 0.34 and 19 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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.
- 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 212 lb uplift at joint 10, 262 lb uplift at joint 2 and 689 lb uplift at joint 16.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1400 Coastal Bay Blvd  
Gwynn Beach, FL 32436

October 10, 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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T07	SPECIAL	1	1	J1899290
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:12:24 2007 Page 1

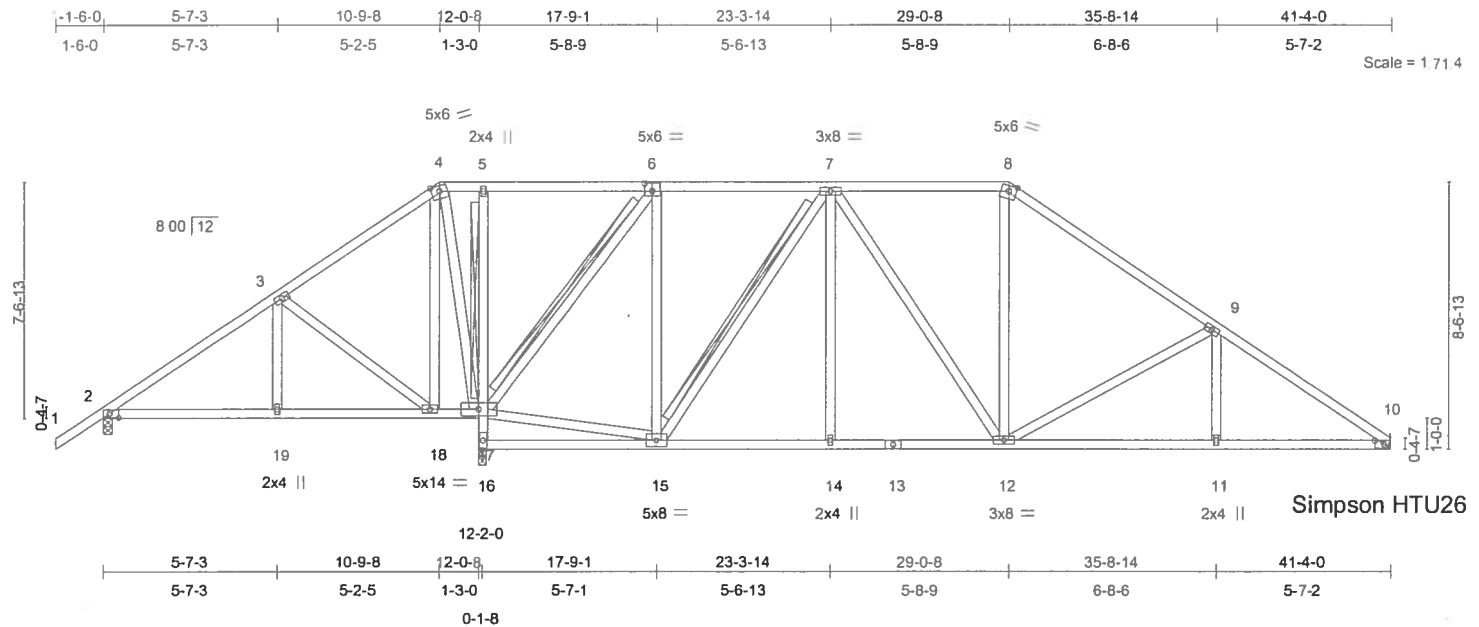


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [6:0-3-0,0-3-0], [10:0-3-9,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.30	Vert(LL)	-0.05 11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.39	Vert(TL)	-0.11 11-12	>999	240		
BCLL 10.0	Rep Stress Incr	YES	WB 0.51	Horz(TL)	0.03 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
Weight: 281 lb									

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 5-16 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 4-5-3 oc bracing.  
 Except:  
 T-Brace: 2 X 4 SYP No.3 - 5-17  
 T-Brace: 2 X 4 SYP No.3 - 6-17, 7-15  
 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) 10=834/Mechanical, 2=247/0-3-8, 16=1640/0-3-0  
 Max Horz 2=221(load case 5)  
 Max Uplift 10=-201(load case 4), 2=-259(load case 6), 16=-630(load case 5)  
 Max Grav 10=847(load case 11), 2=297(load case 10), 16=1640(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-174/220, 3-4=-69/388, 4-5=-72/368, 5-6=-70/365, 6-7=-287/275,  
 7-8=-700/499, 8-9=-939/499, 9-10=-1331/594  
 BOT CHORD 2-19=-236/166, 18-19=-236/166, 17-18=-267/329, 16-17=-1612/1103, 5-17=-234/146,  
 15-16=-20/68, 14-15=-120/610, 13-14=-120/610, 12-13=-120/610, 11-12=-408/1041,  
 10-11=-408/1041  
 WEBS 3-19=-212/181, 3-18=-336/463, 4-18=-363/231, 4-17=-535/512, 15-17=-108/284,  
 6-17=-1014/558, 6-15=-221/502, 7-15=-594/304, 7-14=0/158, 7-12=-97/175, 8-12=-28/222,  
 9-12=-393/309, 9-11=0/204

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32118

October 10, 2007

Continued on page 2

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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	TWENSEY - LOT 3 LL	J1899290
L255638	T07	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:12:24 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.40, 3 = 0.43, 4 = 0.45, 5 = 0.34, 6 = 0.56, 7 = 0.58, 8 = 0.65, 9 = 0.43, 10 = 0.64, 11 = 0.34, 12 = 0.58, 13 = 0.22, 14 = 0.34, 15 = 0.30, 16 = 0.39, 17 = 0.28, 18 = 0.35 and 19 = 0.34

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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.
- 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 plates are 3x6 MT20 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 201 lb uplift at joint 10, 259 lb uplift at joint 2 and 630 lb uplift at joint 16.

LOAD CASE(S) Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33435

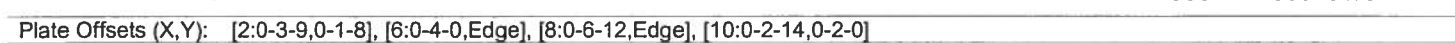
October 10,2007

#### 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 Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:19:07 2007 Page 1



LUMBER	BRACING
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Julius Law  
Truss Design Engineer  
Florida FE No. 3-1868  
1400 Coastal Bay Blvd  
Daytona Beach, FL 32122

Continued on page 2



**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T08	SPECIAL	1	1	TWENSEY - LOT 3 LL J1899291

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:19:07 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 3x6 MT20 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 243 lb uplift at joint 2, 573 lb uplift at joint 20 and 253 lb uplift at joint 12.
- 8) 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: 1-4=-54, 4-6=-54, 6-8=-54, 8-9=-54, 9-10=-54, 10-11=-54, 2-12=-10  
Concentrated Loads (lb)  
Vert: 13=-5(F)

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Gwynn Beach, FL 32058

October 10,2007

#### **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



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T09	SPECIAL	1	1	TWENSEY - LOT 3 LL J1899292

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:14 2007 Page 1

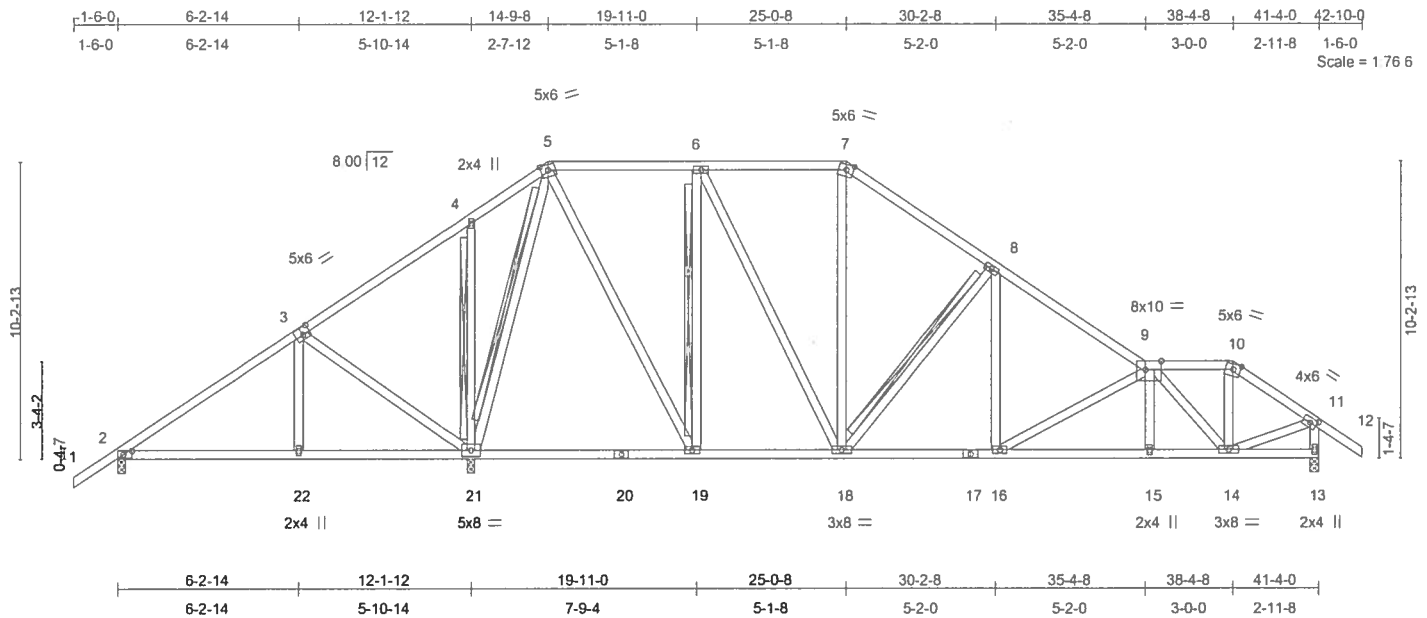


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0], [9:0-6-8,Edge], [11:0-2-14,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.28	Vert(LL)	-0.07 19-21	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.27	Vert(TL)	-0.13 19-21	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.84	Horz(TL)	0.03 13	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 290 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 5-9-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-21, 5-21, 6-19, 8-18  
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=287/0-3-8, 21=1576/0-3-8, 13=941/0-3-8  
Max Horz 2=288(load case 5)  
Max Uplift 2=-228(load case 6), 21=-528(load case 5), 13=-260(load case 7)  
Max Grav 2=352(load case 10), 21=1576(load case 1), 13=956(load case 11)

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

TOP CHORD 1-2=0/44, 2-3=-249/199, 3-4=-150/397, 4-5=-54/348, 5-6=-408/354, 6-7=-571/450, 7-8=-764/464, 8-9=-1137/545, 9-10=-733/387, 10-11=-913/426, 11-12=0/49, 11-13=-934/490  
BOT CHORD 2-22=-261/154, 21-22=-258/156, 20-21=-34/317, 19-20=-34/317, 18-19=-65/408, 17-18=-178/888, 16-17=-178/888, 15-16=-448/1304, 14-15=-447/1305, 13-14=0/67, 3-22=-250/182, 3-21=-372/536, 4-21=-232/234, 5-21=-1091/460, 5-19=-380/783, 6-19=-628/391, 6-18=-213/380, 7-18=-61/171, 8-18=-502/356, 8-16=-125/339, 9-16=-482/314, 9-15=0/123, 9-14=-835/374, 10-14=-165/355, 11-14=-268/760

Julius Lee  
Truss Design Engineer  
Florida PE No. 3-1888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33436

Continued on page 2

October 10, 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 BCS1-1 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	TWENSEY - LOT 3 LL
L255638	T09	SPECIAL	1	1	J1899292
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:14 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.44, 3 = 0.67, 4 = 0.33, 5 = 0.32, 6 = 0.45, 7 = 0.40, 8 = 0.41, 9 = 0.25, 10 = 0.20, 11 = 0.56, 13 = 0.34, 14 = 0.68, 15 = 0.33, 16 = 0.34, 17 = 0.29, 18 = 0.61, 19 = 0.64, 20 = 0.27, 21 = 0.33 and 22 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 plates are 3x6 MT20 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 228 lb uplift at joint 2, 528 lb uplift at joint 21 and 260 lb uplift at joint 13.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 34888  
1105 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10, 2007

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

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T10	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899293					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:15 2007 Page 1

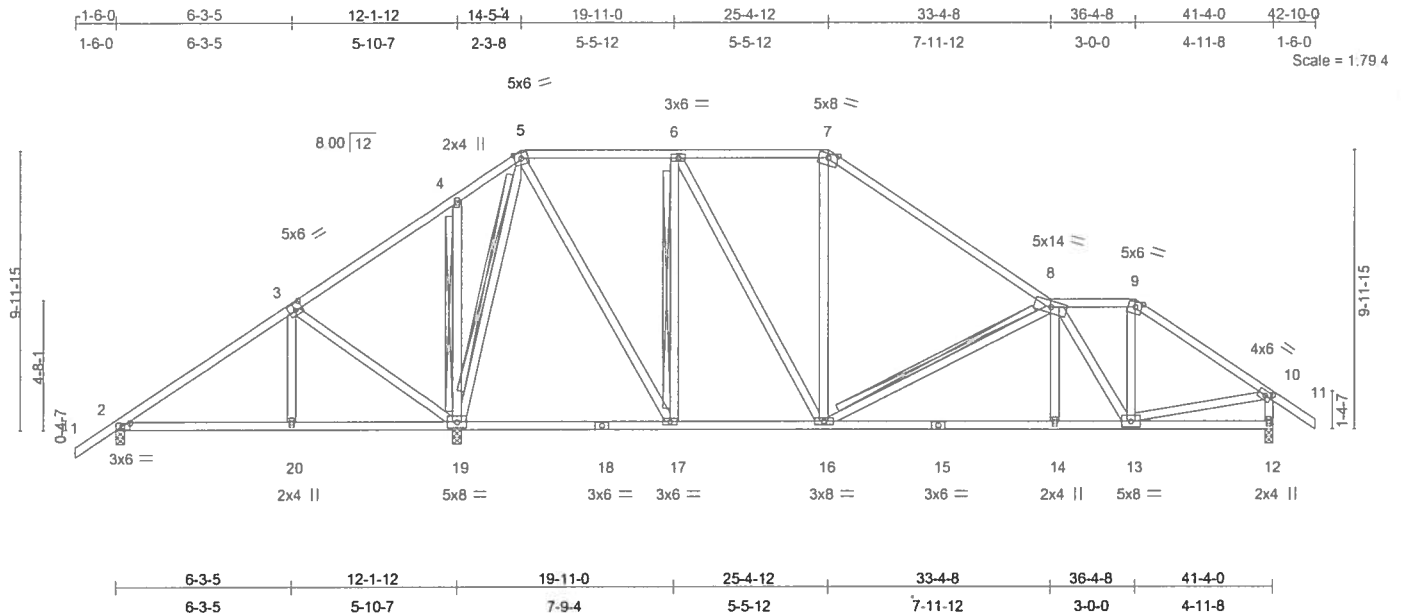


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0], [10:0-2-14,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.49	Vert(LL)	-0.11 14-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.39	Vert(TL)	-0.22 14-16	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.84	Horz(TL)	0.03 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 280 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7, 8-9.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-19, 5-19, 6-17, 8-16  
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=306/0-3-8, 19=1549/0-3-8, 12=949/0-3-8  
Max Horz 2=282(load case 5)  
Max Uplift 2=-234(load case 6), 19=-553(load case 5), 12=-262(load case 7)  
Max Grav 2=359(load case 10), 19=1549(load case 1), 12=965(load case 11)

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

TOP CHORD 1-2=0/44, 2-3=-260/221, 3-4=-154/362, 4-5=-62/314, 5-6=-437/364, 6-7=-624/477, 7-8=-867/453, 8-9=-806/454, 9-10=-1037/477, 10-11=0/49, 10-12=-931/501  
BOT CHORD 2-20=-249/141, 19-20=-247/143, 18-19=-26/311, 17-18=-26/311, 16-17=-75/437, 15-16=-371/1164, 14-15=-371/1164, 13-14=-369/1166, 12-13=-17/93  
WEBS 3-20=-251/181, 3-19=-371/536, 4-19=-216/215, 5-19=-1074/459, 5-17=-383/792, 6-17=-628/383, 6-16=-235/406, 7-16=-0/161, 8-16=-614/431, 8-14=0/210, 8-13=-658/311, 9-13=-201/403, 10-13=-205/718

Julius Lee  
Truss Design Engineer  
Florida PE No. 34828  
1100 Coastal Bay Blvd  
Waynton Beach, FL 32508

Continued on page 2

October 10, 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 BCST-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'Orofino Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T10	SPECIAL	1	1	J1899293
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.45, 3 = 0.68, 4 = 0.33, 5 = 0.33, 6 = 0.44, 7 = 0.74, 8 = 0.90, 9 = 0.21, 10 = 0.52, 12 = 0.77, 13 = 0.33, 14 = 0.33, 15 = 0.51, 16 = 0.59, 17 = 0.62, 18 = 0.29, 19 = 0.33 and 20 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 234 lb uplift at joint 2, 553 lb uplift at joint 19 and 262 lb uplift at joint 12.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1106 Coastal Bay Blvd  
Boynton Beach, FL 33436

October 10, 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



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T11	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899294					

Builders FirstSource, Lake City, FL 32055

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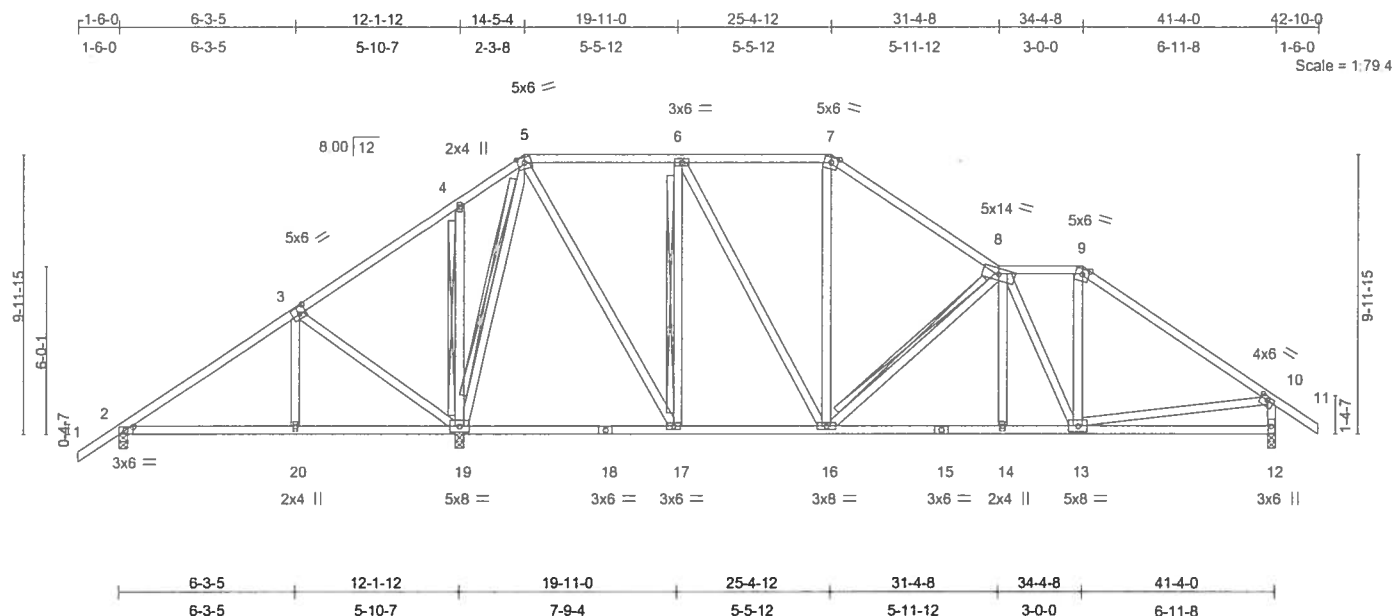


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0], [10:0-3-0,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.53	Vert(LL)	0.08 2-20	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.27	Vert(TL)	-0.13 17-19	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.85	Horz(TL)	0.02 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 288 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 5-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7, 8-9.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-19, 5-19, 6-17, 8-16  
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=326/0-3-8, 19=1521/0-3-8, 12=957/0-3-8

Max Horz 2=282(load case 5)

Max Uplift 2=-237(load case 6), 19=-565(load case 5), 12=-264(load case 7)

Max Grav 2=368(load case 10), 19=1521(load case 1), 12=974(load case 11)

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

TOP CHORD 1-2=0/44, 2-3=-275/240, 3-4=-160/328, 4-5=-68/277, 5-6=-458/377, 6-7=-627/478, 7-8=-834/479, 8-9=-821/495, 9-10=-1088/496, 10-11=0/49, 10-12=-932/509

BOT CHORD 2-20=-245/154, 19-20=-242/153, 18-19=-24/299, 17-18=-24/299, 16-17=-78/457, 15-16=-251/989, 14-15=-251/989, 13-14=-250/990, 12-13=-63/191

WEBS 3-20=-251/182, 3-19=-370/536, 4-19=-216/219, 5-19=-1043/439, 5-17=-385/789, 6-17=-621/387, 6-16=-209/369, 7-16=-28/179, 8-16=-497/355, 8-14=0/126, 8-13=-376/152, 9-13=-84/293, 10-13=-118/632

Julius Lee  
Truss Design Engineer  
Florida PE No. 3-1888  
1100 Coastal Bay Blvd  
Gwynneth Beach, FL 32546

Continued on page 2

October 10, 2007

#### Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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	TWENSEY - LOT 3 LL
L255638	T11	SPECIAL	1	1	J1899294
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.45, 3 = 0.67, 4 = 0.33, 5 = 0.33, 6 = 0.44, 7 = 0.57, 8 = 0.39, 9 = 0.55, 10 = 0.78, 12 = 0.39, 13 = 0.29, 14 = 0.33, 15 = 0.37, 16 = 0.59, 17 = 0.62, 18 = 0.27, 19 = 0.32 and 20 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 237 lb uplift at joint 2, 565 lb uplift at joint 19 and 264 lb uplift at joint 12.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 34888  
1100 Coastal Bay Blvd  
Dayton Beach, FL 32038

October 10,2007

#### 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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899295
L255638	T12	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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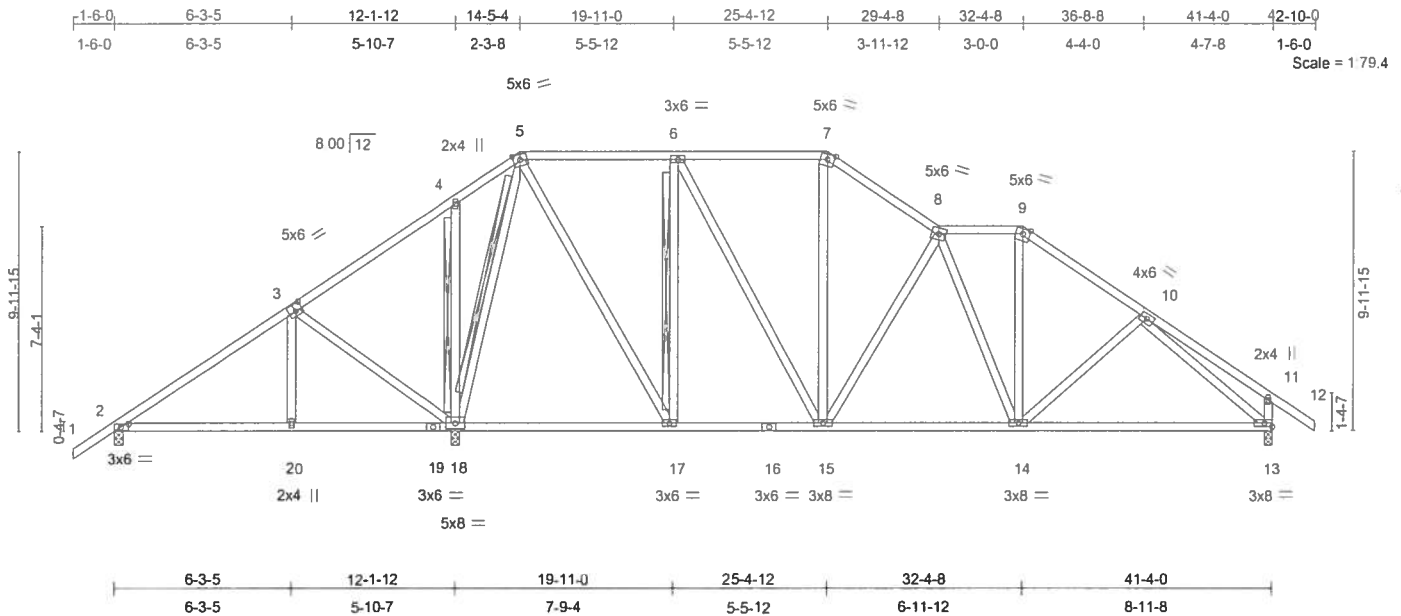


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.64	Vert(LL)	-0.10 13-14	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.34	Vert(TL)	-0.18 13-14	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.86	Horz(TL)	0.03 13	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 290 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7, 8-9.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-18, 5-18, 6-17  
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=336/0-3-8, 18=1507/0-3-8, 13=962/0-3-8

Max Horz 2=282(load case 5)

Max Uplift 2=-235(load case 6), 18=-571(load case 5), 13=-264(load case 7)

Max Grav 2=376(load case 10), 18=1507(load case 1), 13=978(load case 11)

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

TOP CHORD 1-2=0/44, 2-3=-290/243, 3-4=-157/309, 4-5=-66/257, 5-6=-469/381, 6-7=-628/474, 7-8=-800/500, 8-9=-774/487, 9-10=-989/517, 10-11=-255/142, 11-12=0/49, 11-13=-289/247

BOT CHORD 2-20=-247/166, 19-20=-244/165, 18-19=-244/165, 17-18=-28/297, 16-17=-85/469, 15-16=-85/469, 14-15=-154/849, 13-14=-221/797

WEBS 3-20=-251/182, 3-18=-370/535, 4-18=-217/222, 5-18=-1026/435, 5-17=-389/788, 6-17=-619/391, 6-15=-194/349, 7-15=-87/196, 8-15=-441/331, 8-14=-200/101, 9-14=-136/292, 10-14=-57/143, 10-13=-942/395

Continued on page 2

Truss Design Engineer  
Florida PB No. 34188  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32115

October 10, 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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T12	SPECIAL	1	1	J1899295
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:18 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.45, 3 = 0.67, 4 = 0.33, 5 = 0.33, 6 = 0.44, 7 = 0.37, 8 = 0.30, 9 = 0.29, 10 = 0.26, 11 = 0.50, 13 = 0.61, 14 = 0.63, 15 = 0.59, 16 = 0.16, 17 = 0.62, 18 = 0.32, 19 = 0.25 and 20 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 235 lb uplift at joint 2, 571 lb uplift at joint 18 and 264 lb uplift at joint 13.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33438

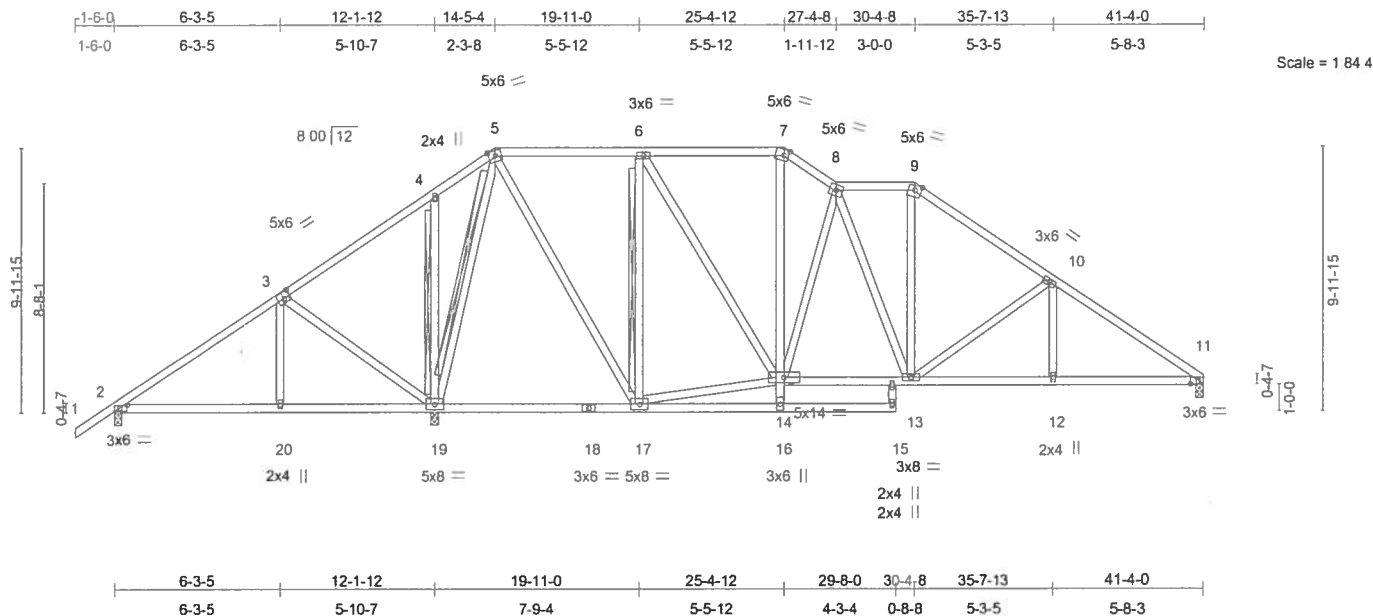
October 10, 2007

#### 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. Wed Oct 10 08:57:19 2007 Page 1



<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc)	<b>l/defl</b> L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.29	Vert(LL) -0.29 15	>999 360	MT20	244/19
TCDL 7.0	Lumber Increase 1.25	BC 0.69	Vert(TL) -0.54 15	>644 240		
BCLL 10.0	* Rep Stress Incr YES	WB 0.88	Horz(TL) 0.04 11	n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			Weight: 298 lb	

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-2-5 oc purlins, except
BOT CHORD	2 X 4 SYP No.2 *Except*		2-0-0 oc purlins (6-0-0 max.): 5-7, 8-9.
	7-16 2 X 4 SYP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2 X 4 SYP No.3	WEBS	T-Brace: 2 X 4 SYP No.3 - 4-19, 5-19, 6-17
			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.
		JOINTS	1 Brace at Jt(s): 14

**REACTIONS** (lb/size) 11=868/0-3-8, 2=274/0-3-8, 19=1617/0-3-8  
 Max Horz 2=286(load case 5)  
 Max Uplift 11=-170(load case 7), 2=-227(load case 6), 19=-560(load case 5)  
 Max Grav 11=884(load case 11), 2=338(load case 10), 19=1617(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-222/166, 3-4=-162/418, 4-5=-58/366, 5-6=-431/330, 6-7=-696/425,  
7-8=-826/453, 8-9=-808/466, 9-10=-1049/485, 10-11=-1375/544

BOT CHORD 2-20=-258/115, 19-20=-255/117, 18-19=-51/246, 17-18=-51/246, 16-17=-220/0,  
15-16=0/0, 14-16=0/211, 7-14=-81/267, 13-14=-133/822, 12-13=-359/1067,  
11-12=-359/1067

WEBS 3-20=-251/182, 3-19=-371/536, 4-19=-218/223, 5-19=-1137/489, 5-17=-400/844,  
6-17=-756/381, 14-17=-32/510, 6-14=-182/518, 8-14=-469/320, 8-13=-111/87,

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10, 2018

Julius Lee  
Truss Design Engineer  
Florida FE No. 24888  
1100 Coastal Bay Blvd  
Weynton Beach, FL 33430

October 10, 2024

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T13	SPECIAL	1	1	J1899296
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:19 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.44, 3 = 0.67, 4 = 0.33, 5 = 0.33, 6 = 0.43, 7 = 0.40, 8 = 0.33, 9 = 0.37, 10 = 0.41, 11 = 0.68, 12 = 0.33, 13 = 0.63, 14 = 0.30, 15 = 0.33, 16 = 0.71, 17 = 0.42, 18 = 0.17, 19 = 0.35, 20 = 0.33 and 21 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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.
- 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 170 lb uplift at joint 11, 227 lb uplift at joint 2 and 560 lb uplift at joint 19.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 24888  
1406 Colonial Bay Blvd  
Weymouth Beach, FL 33436

October 10,2007

**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



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T14	SPECIAL	2	1	TWENSEY - LOT 3 LL
J1899297					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:20 2007 Page 1

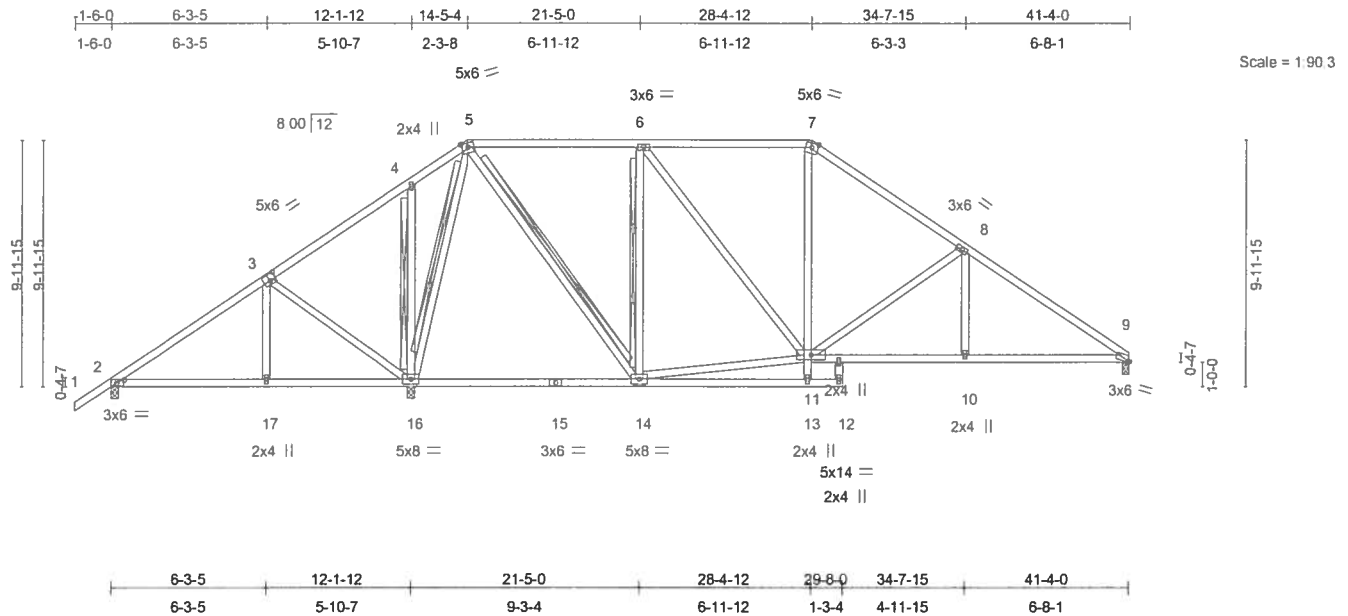


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0], [9:0-0-12,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.35	Vert(LL)	-0.13 14-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.36	Vert(TL)	-0.24 14-16	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.62	Horz(TL)	0.03 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 268 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 7-13 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
 5-1-5 oc purlins, except  
 2-0-0 oc purlins (6-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc  
 bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 -  
 4-16, 5-16, 5-14, 6-14  
 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) 9=869/0-3-8, 2=314/0-3-8, 16=1547/0-3-8  
 Max Horz 2=286(load case 5)  
 Max Uplift 9=-192(load case 4), 2=-228(load case 6), 16=-573(load case 5)  
 Max Grav 9=886(load case 11), 2=355(load case 10), 16=1547(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-252/191, 3-4=-145/347, 4-5=-64/314, 5-6=-536/395, 6-7=-720/479,  
 7-8=-959/486, 8-9=-1355/558  
 BOT CHORD 2-17=-263/135, 16-17=-260/134, 15-16=-47/219, 14-15=-47/219, 13-14=-30/40,  
 12-13=0/0, 11-13=0/128, 7-11=-23/237, 10-11=-355/1041, 9-10=-355/1041  
 WEBS 3-17=-254/171, 3-16=-369/540, 4-16=-184/198, 5-16=-1093/507, 5-14=-403/811,  
 6-14=-643/388, 11-14=-115/500, 6-11=-137/313, 8-11=-396/311, 8-10=0/221

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 21888  
 1100 Coastal Bay Blvd  
 Boynton Beach, FL 33435

Continued on page 2

October 10, 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'Oroff Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899297
L255638	T14	SPECIAL	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.44, 3 = 0.69, 4 = 0.33, 5 = 0.49, 6 = 0.39, 7 = 0.59, 8 = 0.41, 9 = 0.78, 10 = 0.33, 11 = 0.27, 12 = 0.33, 13 = 0.60, 14 = 0.39, 15 = 0.41, 16 = 0.34, 17 = 0.33 and 18 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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.
- 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 192 lb uplift at joint 9, 228 lb uplift at joint 2 and 573 lb uplift at joint 16.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1405 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10, 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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899298
L255638	T15	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:21:45 2007 Page 1

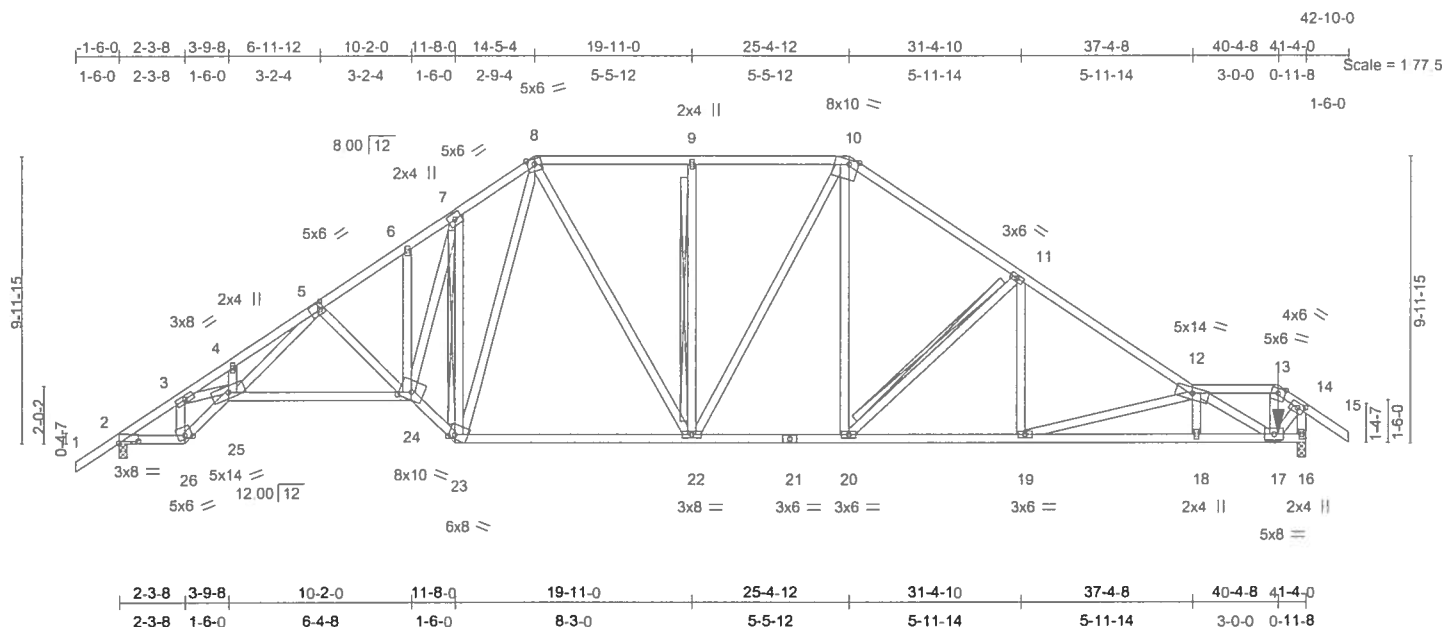


Plate Offsets (X,Y): [2:0-8-3,0-0-14], [5:0-1-12,0-3-0], [10:0-4-0,Edge], [14:0-2-14,0-2-0], [23:0-2-11,Edge], [24:0-5-0,0-3-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.49	Vert(LL)	-0.26 24-25	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.63	Vert(TL)	-0.51 24-25	>961	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.67	Horz(TL)	0.30 16	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 301 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 2-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-11 max.): 8-10, 12-13.  
BOT CHORD Rigid ceiling directly applied or 7-9-8 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 7-23, 9-22, 11-20  
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=1402/0-3-8, 16=1407/0-3-8  
Max Horz 2=282(load case 4)  
Max Uplift 2=-318(load case 5), 16=-331(load case 6)

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

TOP CHORD 1-2=0/44, 2-3=-2115/346, 3-4=-4395/990, 4-5=-4333/1022, 5-6=-2308/462, 6-7=-2258/507, 7-8=-1681/436, 8-9=-1397/323, 9-10=-1397/323, 10-11=-1682/363, 11-12=-2182/414, 12-13=-709/151, 13-14=-847/201, 14-15=0/49, 14-16=-1393/347  
BOT CHORD 2-26=-501/1662, 25-26=-604/2032, 24-25=-651/2334, 23-24=-464/1802, 22-23=-314/1270, 21-22=-195/1327, 20-21=-195/1327, 19-20=-174/1752, 18-19=-443/2643, 17-18=-439/2643, 16-17=0/49  
WEBS 3-26=-1308/389, 3-25=-560/2074, 4-25=-4/82, 5-25=-543/1857, 5-24=-669/231, 6-24=-94/84, 7-24=-536/1849, 7-23=-1544/468, 8-23=-205/456, 8-22=-200/378, 9-22=-305/178, 10-22=-196/296, 10-20=-136/449, 11-20=-588/246, 11-19=-40/381, 12-19=-926/279, 12-18=0/124, 12-17=-2253/452, 13-17=-145/403, 14-17=-136/1030

Julius Lee  
Truss Design Engineer  
Florida PE No. 3-1888  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32118

October 10, 2007

Continued on page 2

**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





Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899298
L255638	T15	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.78, 3 = 0.82, 4 = 0.34, 5 = 0.82, 6 = 0.34, 7 = 0.83, 8 = 0.41, 9 = 0.34, 10 = 0.44, 11 = 0.43, 12 = 0.72, 13 = 0.23, 14 = 0.55, 16 = 0.53, 17 = 0.57, 18 = 0.34, 19 = 0.35, 20 = 0.36, 21 = 0.45, 22 = 0.61, 23 = 0.74, 24 = 0.59, 25 = 0.81 and 26 = 0.63

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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 318 lb uplift at joint 2 and 331 lb uplift at joint 16.
- 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: 1-8=-54, 8-10=-54, 10-12=-54, 12-13=-54, 13-14=-54, 14-15=-54, 2-26=-10, 25-26=-10, 24-25=-10, 23-24=-10, 16-23=-10  
Concentrated Loads (lb)  
Vert: 17=-5(F)

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1103 Crystal Bay Blvd  
Boynton Beach, FL 33426

October 10, 2007

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

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899299
L255638	T16	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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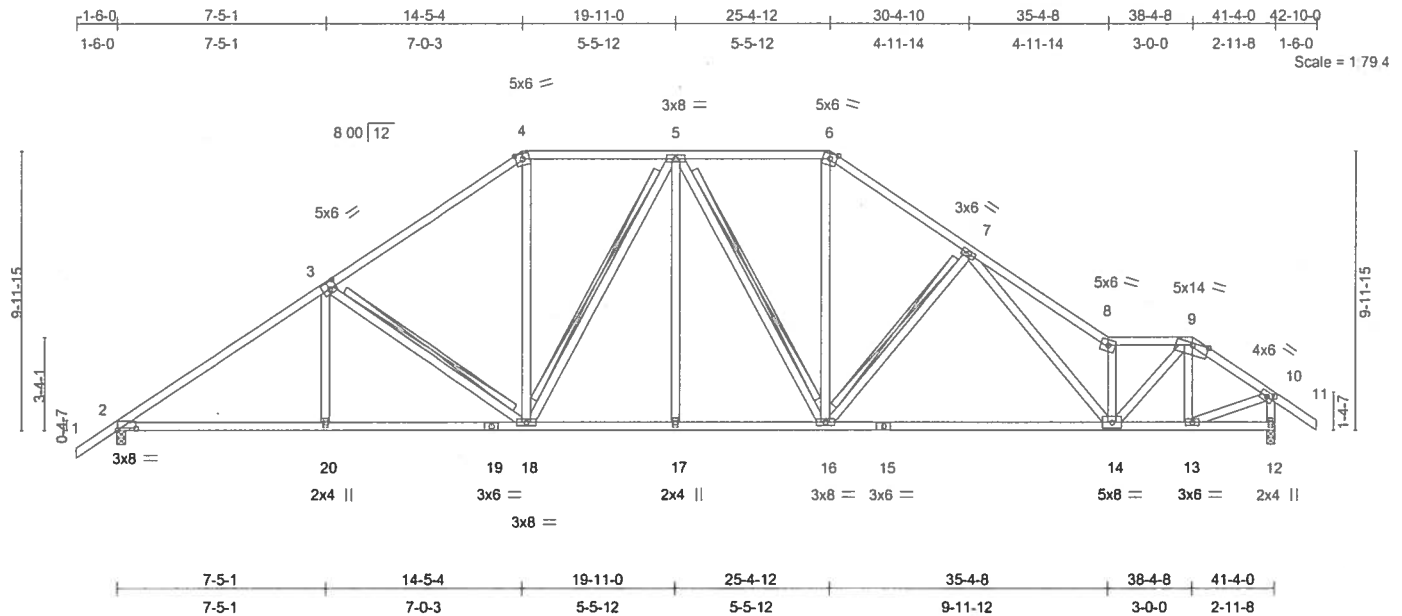


Plate Offsets (X,Y): [2:0-8-3,0-0-14], [3:0-3-0,0-3-0], [10:0-2-14,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.38	Vert(LL)	-0.26 14-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.58	Vert(TL)	-0.52 14-16	>940	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.10 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 273 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 3-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 4-6, 8-9.  
BOT CHORD Rigid ceiling directly applied or 7-11-4 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 3-18, 5-18, 5-16, 7-16  
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=1402/0-3-8, 12=1402/0-3-8  
Max Horz 2=282(load case 5)  
Max Uplift 2=-318(load case 6), 12=-328(load case 7)

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

TOP CHORD 1-2=0/44, 2-3=-2068/954, 3-4=-1641/890, 4-5=-1281/826, 5-6=-1334/847, 6-7=-1669/939, 7-8=-2693/1409, 8-9=-2111/1055, 9-10=-1420/707, 10-11=0/49, 10-12=-1372/735  
BOT CHORD 2-20=-601/1619, 19-20=-602/1618, 18-19=-602/1618, 17-18=-394/1392, 16-17=-394/1392, 15-16=-601/1645, 14-15=-601/1645, 13-14=-409/1117, 12-13=0/65  
WEBS 3-20=0/238, 3-18=-427/327, 4-18=-247/511, 5-18=-367/220, 5-17=0/106, 5-16=-271/196, 6-16=-315/598, 7-16=-509/391, 7-14=-479/868, 8-14=-1651/921, 9-14=-656/1451, 9-13=-439/171, 10-13=-517/1195

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 34882  
1406 Coastal Bay Blvd  
Boynton Beach, FL 33438

October 10, 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	TWENSEY - LOT 3 LL
L255638	T16	SPECIAL	1	1	J1899299
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:23 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.75, 3 = 0.80, 4 = 0.65, 5 = 0.59, 6 = 0.46, 7 = 0.57, 8 = 0.71, 9 = 0.51, 10 = 0.60, 12 = 0.56, 13 = 0.66, 14 = 0.68, 15 = 0.55, 16 = 0.59, 17 = 0.33, 18 = 0.59, 19 = 0.51 and 20 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical 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.
- 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 318 lb uplift at joint 2 and 328 lb uplift at joint 12.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 34188B  
1105 Cassel Bay Blvd  
Boynton Beach, FL 33436

October 10, 2007

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

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL J1899300 Job Reference (optional)
L255638	T17	SPECIAL	1	1	

Builders FirstSource, Lake City, FL 32055

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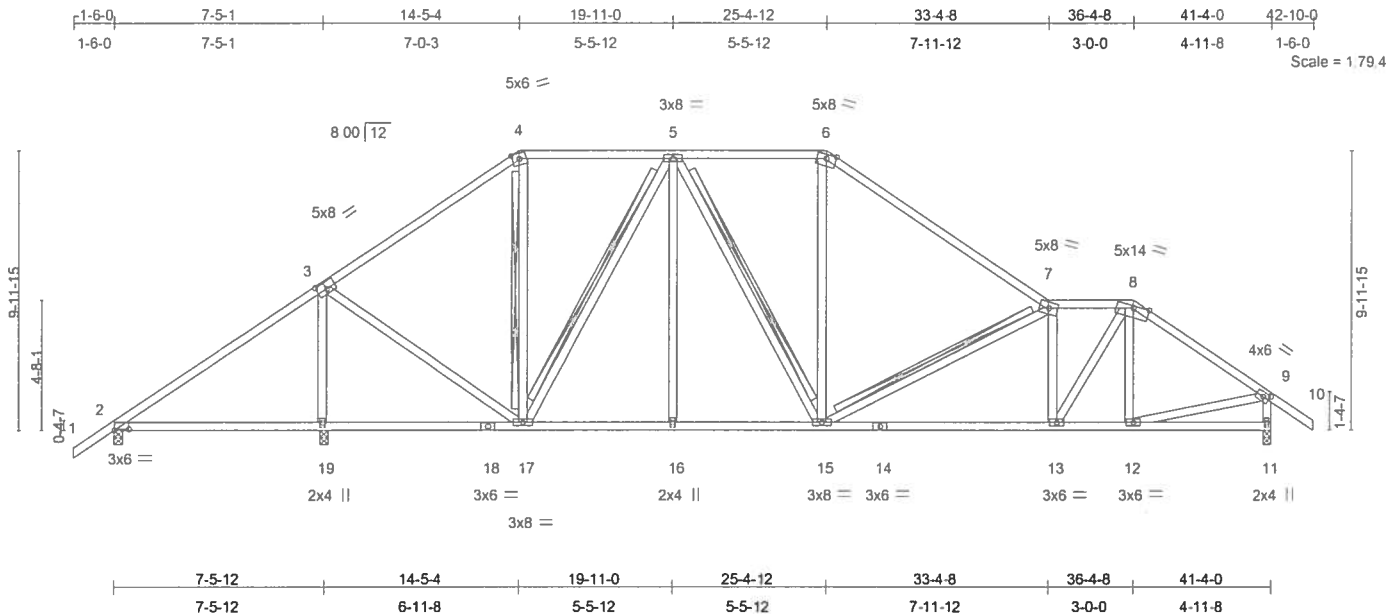


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-4-0,0-3-0], [9:0-2-14,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.51	Vert(LL)	0.19 2-19	>448	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.37	Vert(TL)	-0.23 13-15	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.64	Horz(TL)	0.04 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 272 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 5-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 4-6, 7-8.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-17, 5-17, 5-15, 7-15  
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=151/0-3-8, 19=1520/0-3-8, 11=1133/0-3-8

Max Horz 2=282(load case 5)  
Max Uplift 2=-172(load case 6), 19=-444(load case 5), 11=-296(load case 7)  
Max Grav 2=217(load case 10), 19=1520(load case 1), 11=1133(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-161/357, 3-4=-760/471, 4-5=-540/471, 5-6=-901/653, 6-7=-1195/661, 7-8=-1439/801, 8-9=-1262/620, 9-10=0/49, 9-11=-1098/607  
BOT CHORD 2-19=-229/228, 18-19=-216/218, 17-18=-216/218, 16-17=-187/799, 15-16=-187/799, 14-15=-560/1460, 13-14=-560/1460, 12-13=-308/972, 11-12=-18/100  
WEBS 3-19=-1416/724, 3-17=-249/877, 4-17=-68/153, 5-17=-593/267, 5-16=0/130, 5-15=-109/236, 6-15=-70/299, 7-15=-640/449, 7-13=-648/409, 8-13=-436/853, 8-12=-188/86, 9-12=-323/902

Julian Lee  
Truss Design Engineer  
P.O. Box 1116  
1116 Coastal Bay Blvd  
Boynton Beach, FL 33435

Continued on page 2

October 10, 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	TWENSEY - LOT 3 LL
L255638	T17	SPECIAL	1	1	J1899300
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:24 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.60, 3 = 0.63, 4 = 0.60, 5 = 0.59, 6 = 0.76, 7 = 0.81, 8 = 0.40, 9 = 0.52, 11 = 0.81, 12 = 0.48, 13 = 0.66, 14 = 0.50, 15 = 0.59, 16 = 0.33, 17 = 0.82, 18 = 0.15 and 19 = 0.50

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 172 lb uplift at joint 2, 444 lb uplift at joint 19 and 296 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1400 Coastal Bay Blvd  
Gwynn Beach, FL 32056

October 10, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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	Job Reference (optional)
L255638	T18	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899301					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:26 2007 Page 1

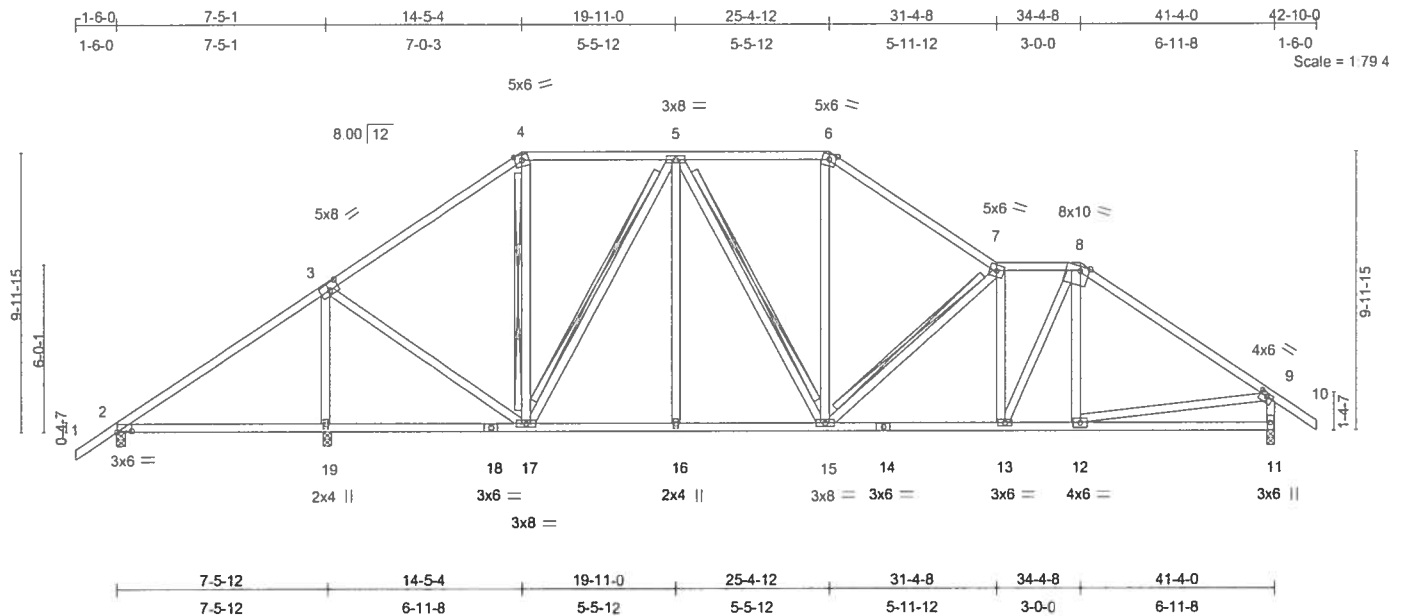


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-4-0,0-3-0], [8:0-4-0,Edge], [9:0-3-0,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.55	Vert(LL)	0.19 2-19	>449	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.28	Vert(TL)	-0.13 13-15	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.63	Horz(TL)	0.03 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 279 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 5-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-4 max.): 4-6, 7-8.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-17, 5-17, 5-15, 7-15  
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=171/0-3-8, 19=1497/0-3-8, 11=1137/0-3-8

Max Horz 2=282(load case 5)  
Max Uplift 2=-175(load case 6), 19=-455(load case 5), 11=-297(load case 7)  
Max Grav 2=227(load case 10), 19=1497(load case 1), 11=1137(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-168/323, 3-4=-773/479, 4-5=-551/478, 5-6=-897/650, 6-7=-1155/682, 7-8=-1256/735, 8-9=-1324/647, 9-10=0/49, 9-11=-1094/613  
BOT CHORD 2-19=-202/212, 18-19=-189/209, 17-18=-189/209, 16-17=-194/811, 15-16=-194/811, 14-15=-430/1268, 13-14=-430/1268, 12-13=-304/1008, 11-12=-67/198  
WEBS 3-19=-1393/712, 3-17=-238/856, 4-17=-73/159, 5-17=-595/270, 5-16=0/145, 5-15=-91/204, 6-15=-133/313, 7-15=-513/367, 7-13=-455/262, 8-13=-267/555, 8-12=-93/73, 9-12=-241/824

Julius Lee  
Truss Design Engineer  
Florida PE No. 3-1888  
1102 Coastal Bay Blvd  
Weymouth Beach, FL 32095

Continued on page 2

October 10, 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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899301
L255638	T18	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.60, 3 = 0.63, 4 = 0.59, 5 = 0.59, 6 = 0.61, 7 = 0.48, 8 = 0.44, 9 = 0.79, 11 = 0.41, 12 = 0.34, 13 = 0.47, 14 = 0.44, 15 = 0.59, 16 = 0.33, 17 = 0.80, 18 = 0.15 and 19 = 0.49

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 175 lb uplift at joint 2, 455 lb uplift at joint 19 and 297 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31868  
1100 Coastal Bay Blvd  
Waynton WASH. FL 33455

October 10,2007

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

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T19	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899302					

Builders FirstSource, Lake City, FL 32055

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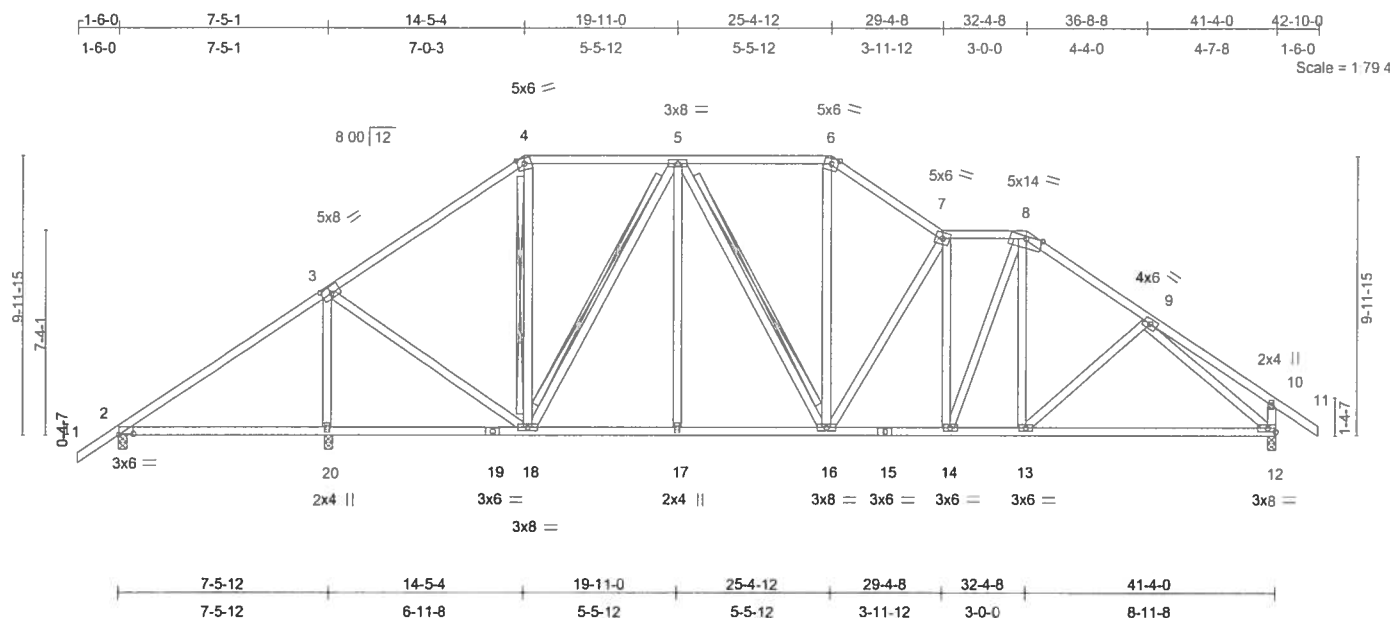


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-4-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.68	Vert(LL)	0.19 2-20	>449	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.41	Vert(TL)	-0.20 12-13	>999	240		
BCLL 10.0	* Rep Stress Incr YES	WB 0.73	Horz(TL)	0.04 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
Weight: 291 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 5-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-2 max.): 4-6, 7-8.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: 2-20,18-20.  
WEBS T-Brace: 2 X 4 SYP No.3 - 4-18, 5-18, 5-16  
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=185/0-3-8, 20=1480/0-3-8, 12=1140/0-3-8

Max Horz 2=282(load case 5)

Max Uplift 2=-175(load case 6), 20=-461(load case 5), 12=-298(load case 7)

Max Grav 2=237(load case 10), 20=1480(load case 1), 12=1140(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-166/298, 3-4=-783/483, 4-5=-559/481, 5-6=-896/648, 6-7=-1115/704, 7-8=-1114/695, 8-9=-1232/676, 9-10=-274/149, 10-11=0/49, 10-12=-300/252

BOT CHORD 2-20=-182/208, 19-20=-169/207, 18-19=-169/207, 17-18=-202/819, 16-17=-202/819, 15-16=-328/1121, 14-15=-328/1121, 13-14=-247/972, 12-13=-333/970

WEBS 3-20=-1376/706, 3-18=-232/841, 4-18=-75/166, 5-18=-596/273, 5-17=0/152, 5-16=-81/184, 6-16=-190/326, 7-16=-456/336, 7-14=-340/196, 8-14=-206/379, 8-13=-30/192, 9-13=-71/117, 9-12=-1161/543

Continued on page 2

October 10,2007

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

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899302
L255638	T19	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.60, 3 = 0.63, 4 = 0.58, 5 = 0.59, 6 = 0.42, 7 = 0.30, 8 = 0.63, 9 = 0.32, 10 = 0.57, 12 = 0.65, 13 = 0.35, 14 = 0.48, 15 = 0.39, 16 = 0.59, 17 = 0.33, 18 = 0.79, 19 = 0.15 and 20 = 0.49

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; porch left 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.
- 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 175 lb uplift at joint 2, 461 lb uplift at joint 20 and 298 lb uplift at joint 12.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1810 Coastal Bay Blvd  
Boynton Beach, FL 33436

October 10,2007

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

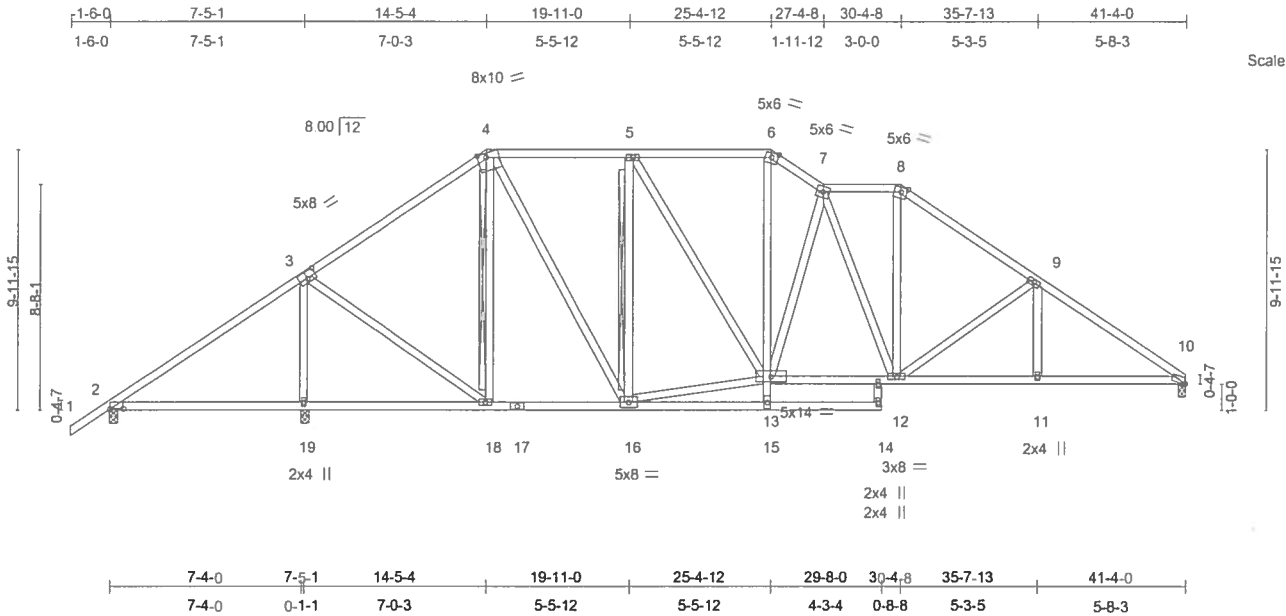
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T20	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899303					

Builders FirstSource, Lake City, FL 32055

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Scale = 1/8" = 4'

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.40	Vert(LL)	0.19	2-19	>448	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.58	Vert(TL)	-0.57	14	>706	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.63	Horz(TL)	0.05	10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
Weight: 289 lb										

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 6-15 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
 4-7-14 oc purlins, except  
 2-0-0 oc purlins (5-10-4 max.): 4-6, 7-8.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc  
 bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 -  
 4-18, 5-16  
 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.  
 JOINTS 1 Brace at Jt(s): 13

#### REACTIONS (lb/size) 10=1072/0-3-8, 2=172/0-3-8, 19=1516/0-3-8

Max Horz 2=286(load case 5)  
 Max Uplift 10=-209(load case 7), 2=-169(load case 6), 19=-443(load case 5)  
 Max Grav 10=1072(load case 1), 2=230(load case 10), 19=1516(load case 1)

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

TOP CHORD 1-2=0/44, 2-3=-145/321, 3-4=-792/457, 4-5=-838/588, 5-6=-1041/641,  
 6-7=-1228/703, 7-8=-1089/642, 8-9=-1382/693, 9-10=-1703/749  
 BOT CHORD 2-19=-197/162, 18-19=-183/162, 17-18=-178/558, 16-17=-178/558, 15-16=-172/0,  
 14-15=0/0, 13-15=0/230, 6-13=-203/436, 12-13=-351/1172, 11-12=-527/1337,  
 10-11=-527/1337  
 WEBS 3-19=-1413/728, 3-18=-251/873, 4-18=-449/219, 4-16=-269/621, 5-16=-650/280,  
 13-16=-158/864, 5-13=-101/400, 7-13=-496/334, 7-12=-279/140, 8-12=-193/465,

Truss Design Engineer  
 Builders FirstSource  
 6300 Enterprise Lane, Madison, WI 53719

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T20	SPECIAL	1	1	J1899303
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.60, 3 = 0.63, 4 = 0.51, 5 = 0.43, 6 = 0.39, 7 = 0.33, 8 = 0.40, 9 = 0.41, 10 = 0.71, 11 = 0.33, 12 = 0.63, 13 = 0.36, 14 = 0.33, 15 = 0.59, 16 = 0.39, 17 = 0.18, 18 = 0.50, 19 = 0.50 and 20 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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.
- 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 plates are 3x6 MT20 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 209 lb uplift at joint 10, 169 lb uplift at joint 2 and 443 lb uplift at joint 19.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 21000  
1400 Coastal Bay Blvd  
Weymouth Beach, FL 33436

October 10, 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	TWENSEY - LOT 3 LL	J1899304
L255638	T21	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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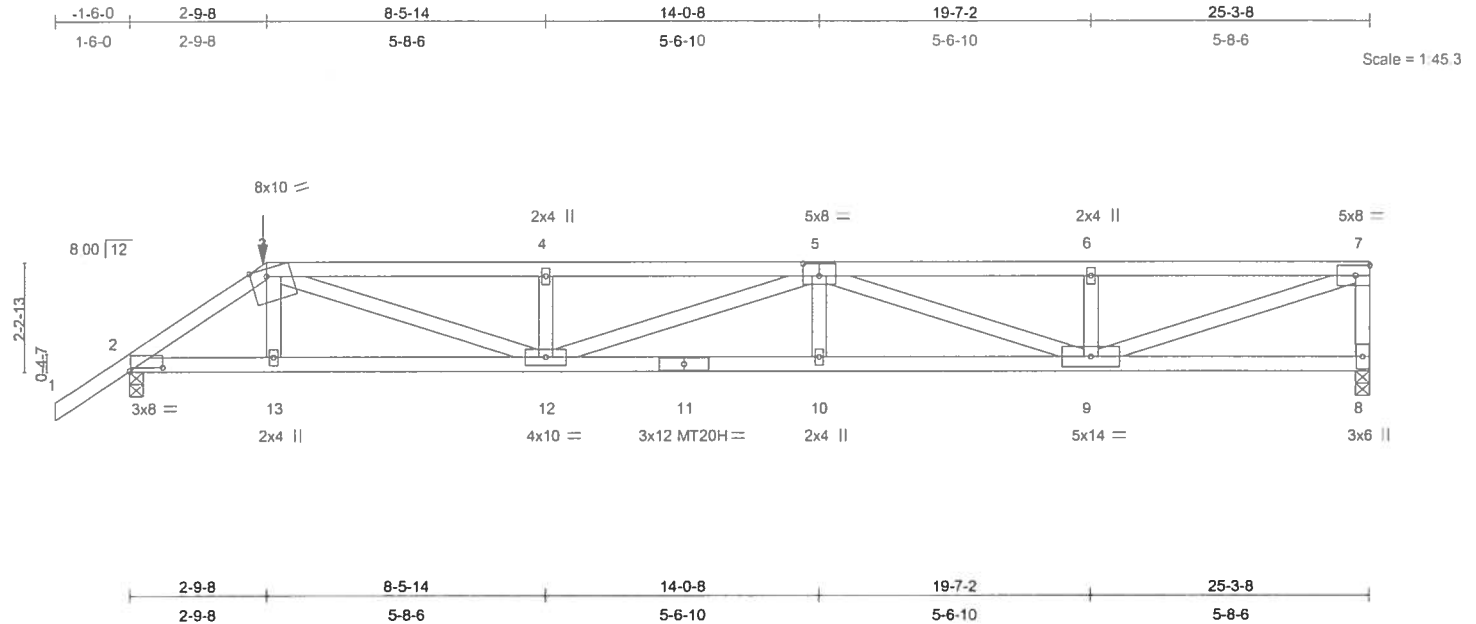


Plate Offsets (X,Y): [2:0-8-3,0-0-14], [3:0-4-0,Edge], [5:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.78	Vert(LL)	0.33	10-12	>898	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.85	Vert(TL)	-0.60	10-12	>502	240	MT20H	187/143
BCLL 10.0	Rep Stress Incr	NO	WB 0.88	Horz(TL)	0.10	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 124 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 3-0-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

**REACTIONS** (lb/size) 8=1201/0-3-8, 2=1287/0-3-8  
Max Horz 2=111(load case 5)  
Max Uplift 8=-540(load case 3), 2=-462(load case 3)

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

TOP CHORD 1-2=0/44, 2-3=-1962/807, 3-4=-3539/1571, 4-5=-3539/1572, 5-6=-2759/1238, 6-7=-2759/1238, 7-8=-1139/551  
BOT CHORD 2-13=-667/1579, 12-13=-663/1583, 11-12=-1747/3910, 10-11=-1747/3910, 9-10=-1747/3910, 8-9=-70/156  
WEBS 3-13=0/165, 3-12=-959/2064, 4-12=-455/301, 5-12=-393/186, 5-10=0/194, 5-9=-1220/540, 6-9=-448/295, 7-9=-1236/2757

#### JOINT STRESS INDEX

2 = 0.72, 3 = 0.61, 4 = 0.34, 5 = 0.49, 6 = 0.34, 7 = 0.60, 8 = 0.36, 9 = 0.61, 10 = 0.34, 11 = 0.89, 12 = 0.93 and 13 = 0.34

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899304
L255638	T21	MONO HIP	1	1	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 540 lb uplift at joint 8 and 462 lb uplift at joint 2.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-7=-81(F=-27), 2-8=-15(F=-5)  
Concentrated Loads (lb)  
Vert: 3=-70(F)

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33436

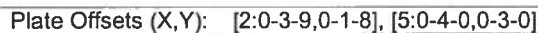
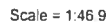
October 10, 2007

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**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T22	MONO HIP	1	1	J1899305
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:30 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 7 and 189 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10,2007

**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



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T23	MONO HIP	1	1	TWENSEY - LOT 3 LL
J1899306					

Builders FirstSource, Lake City, FL 32055

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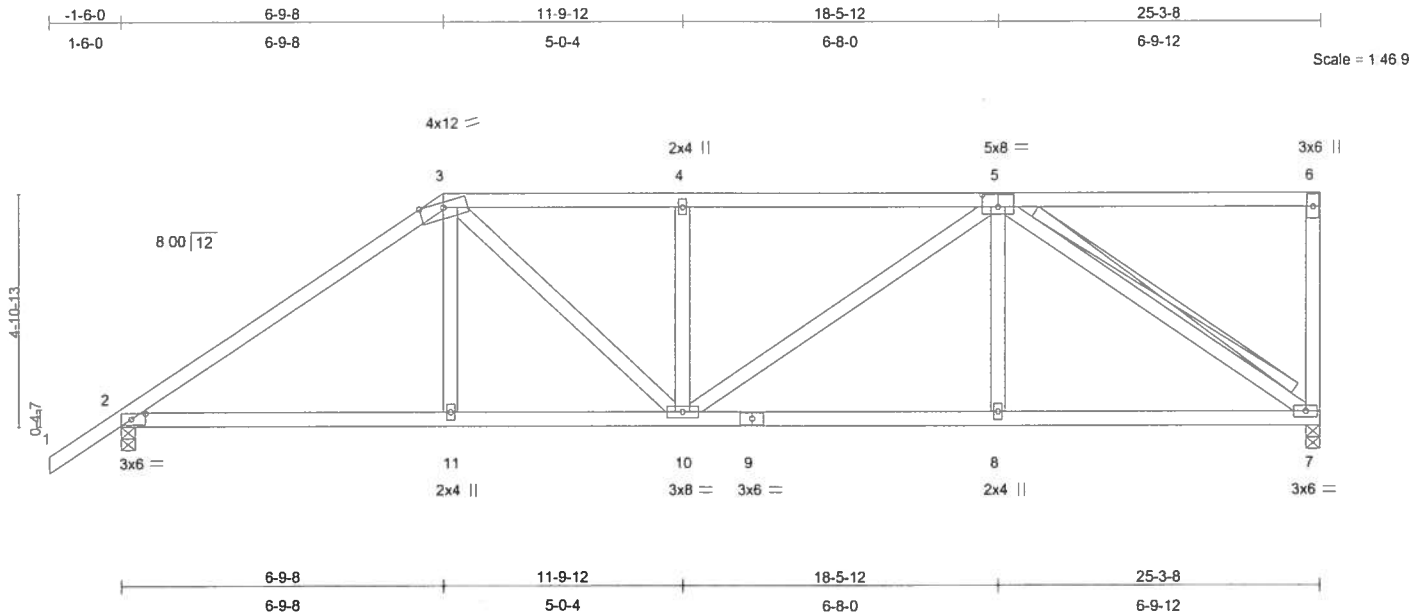


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [5:0-4-0,0-3-0]

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)	-0.06	2-11	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.30	Vert(TL)	-0.13	2-11	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.41	Horz(TL)	0.04	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 138 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 5-5-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 5-7  
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) 7=797/0-3-8, 2=892/0-3-8

Max Horz 2=196(load case 6)  
Max Uplift 7=-256(load case 4), 2=-201(load case 6)

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

TOP CHORD 1-2=0/44, 2-3=-1176/520, 3-4=-1105/600, 4-5=-1104/600, 5-6=-37/19, 6-7=-163/115  
BOT CHORD 2-11=-514/887, 10-11=-513/889, 9-10=-481/901, 8-9=-481/901, 7-8=-481/901  
WEBS 3-11=0/192, 3-10=-209/291, 4-10=-288/198, 5-10=-145/247, 5-8=0/216, 5-7=-1050/561

#### JOINT STRESS INDEX

2 = 0.64, 3 = 0.91, 4 = 0.33, 5 = 0.36, 6 = 0.34, 7 = 0.34, 8 = 0.33, 9 = 0.32, 10 = 0.56 and 11 = 0.33

Continued on page 2

October 10,2007

**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	TWENSEY - LOT 3 LL	J1899306
L255638	T23	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:31 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 7 and 201 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31000  
1100 Coastal Bay Blvd  
Cocoa Beach, FL 32936

October 10, 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	TWENSEY - LOT 3 LL	J1899307
L255638	T24	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:32 2007 Page 1

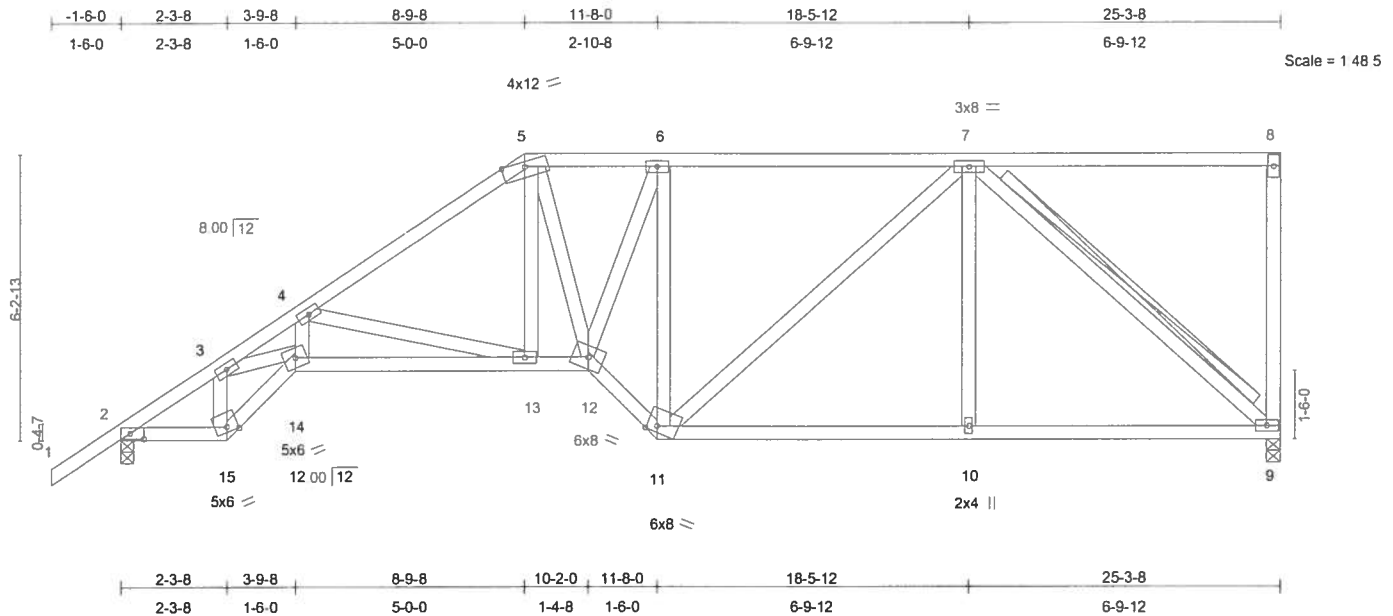


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [11:0-2-11,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.40	Vert(LL)	0.14 13-14	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.51	Vert(TL)	-0.21 13-14	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.55	Horz(TL)	0.14 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 166 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 3-9-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 7-9  
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) 9=797/0-3-8, 2=892/0-3-8  
Max Horz 2=239(load case 6)  
Max Uplift 9=-232(load case 4), 2=-208(load case 6)

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

TOP CHORD 1-2=0/44, 2-3=-1238/490, 3-4=-2721/1495, 4-5=-1312/666, 5-6=-1076/632,  
6-7=-867/495, 7-8=-26/13, 8-9=-160/113  
BOT CHORD 2-15=-592/948, 14-15=-735/1195, 13-14=-1367/2151, 12-13=-623/1046,  
11-12=-669/1145, 10-11=-384/700, 9-10=-384/700  
WEBS 3-15=-791/515, 3-14=-889/1394, 4-14=-498/882, 4-13=-1146/769, 5-13=-184/389,  
5-12=-150/93, 6-12=-434/657, 6-11=-863/576, 7-11=-147/222, 7-10=0/213,  
7-9=-902/497

Julius Lee  
Truss Design Engineer  
Florida PE No. 34888  
1100 Coastal Way Blvd  
Daytona Beach, FL 32118

#### JOINT STRESS INDEX

2 = 0.62, 3 = 0.63, 4 = 0.65, 5 = 0.68, 6 = 0.58, 7 = 0.56, 8 = 0.30, 9 = 0.35, 10 = 0.33, 11 = 0.45, 12 = 0.41, 13 = 0.34, 14 = 0.75 and 15 = 0.35  
Continued on page 2

October 10, 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	TWENSEY - LOT 3 LL	J1899307
L255638	T24	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:32 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 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 232 lb uplift at joint 9 and 208 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 34888  
11000 Coastal Bay Blvd  
Boynton Beach, FL 33438

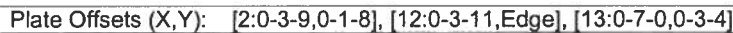
October 10, 2007

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6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:33 2007 Page 1



Julius Lee  
Truss Design Engineer  
Florida FE No. 3-1800  
1100 Coastal Bay Blvd  
Gwynn Oconor, FL 32408

October 10, 2007



**Builders**  
FirstSource

Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T25	SPECIAL	1	1	J1899308
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.61, 3 = 0.67, 4 = 0.67, 5 = 0.33, 6 = 0.77, 7 = 0.33, 8 = 0.56, 9 = 0.28, 10 = 0.37, 11 = 0.33, 12 = 0.29, 13 = 0.44, 14 = 0.73 and 15 = 0.34

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 223 lb uplift at joint 10 and 211 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Gwynn Beach, FL 32055

October 10, 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	Job Reference (optional)
L255638	T26	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899309					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:34 2007 Page 1

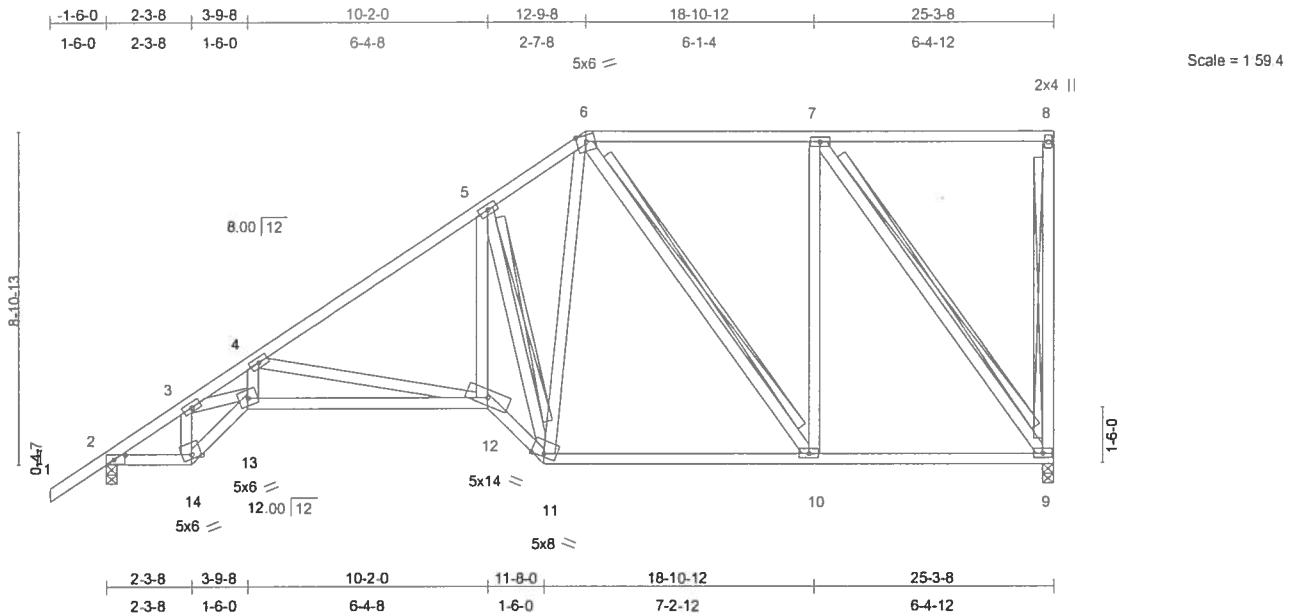


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)	SPACING		CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	2-0-0	TC 0.36	Vert(LL)	0.20 12-13	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.51	Vert(TL)	-0.30 12-13	>993	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.90	Horz(TL)	0.18 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
Weight: 184 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 3-7-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-0-3 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 8-9, 5-11, 6-10, 7-9  
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) 9=797/0-3-8, 2=892/0-3-8  
Max Horz 2=324(load case 6)  
Max Uplift 9=-223(load case 5), 2=-210(load case 6)

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

TOP CHORD 1-2=0/44, 2-3=-1226/417, 3-4=-2800/1555, 4-5=-1203/548, 5-6=-817/462, 6-7=-462/272, 7-8=-13/7, 8-9=-147/104  
BOT CHORD 2-14=-644/934, 13-14=-802/1192, 12-13=-1544/2228, 11-12=-863/1298, 10-11=-377/591, 9-10=-272/462  
WEBS 3-14=-803/556, 3-13=-1025/1490, 4-13=-545/907, 4-12=-1323/945, 5-12=-733/1155, 5-11=-1264/894, 6-11=-267/405, 6-10=-223/181, 7-10=-94/336, 7-9=-763/451

Julius Lee  
Truss Design Engineer  
Florida PE No. 34869  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32115

#### JOINT STRESS INDEX

2 = 0.61, 3 = 0.68, 4 = 0.67, 5 = 0.85, 6 = 0.34, 7 = 0.40, 8 = 0.75, 9 = 0.40, 10 = 0.40, 11 = 0.51, 12 = 0.70, 13 = 0.73 and 14 = 0.34  
Continued on page 2

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899309
L255638	T26	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:34 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 plates are 3x6 MT20 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 223 lb uplift at joint 9 and 210 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 2-1888  
1400 Coastal Bay Blvd  
Daytona Beach, FL 32115

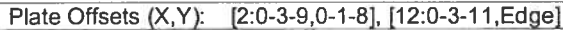
October 10, 2007

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TOP CHORD	Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-6 oc bracing.
WEBS	<p>T-Brace: 2 X 4 SYP No.3 - 6-12, 7-11, 8-11, 9-10</p> <p>Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.</p> <p>Brace must cover 90% of web length.</p>

Julius Lee  
Truss Design Engineer  
Florida FE No. 34800  
4100 Cassel Bay Blvd  
Daytona Beach, FL 32108

October 10, 2007



**Builders**  
FirstSource



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899310
L255638	T27	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:35 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 224 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
11100 Coastal Bay Blvd  
Weymouth Beach, FL 33436

October 10, 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	Job Reference (optional)
L255638	T28	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899311					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:36 2007 Page 1

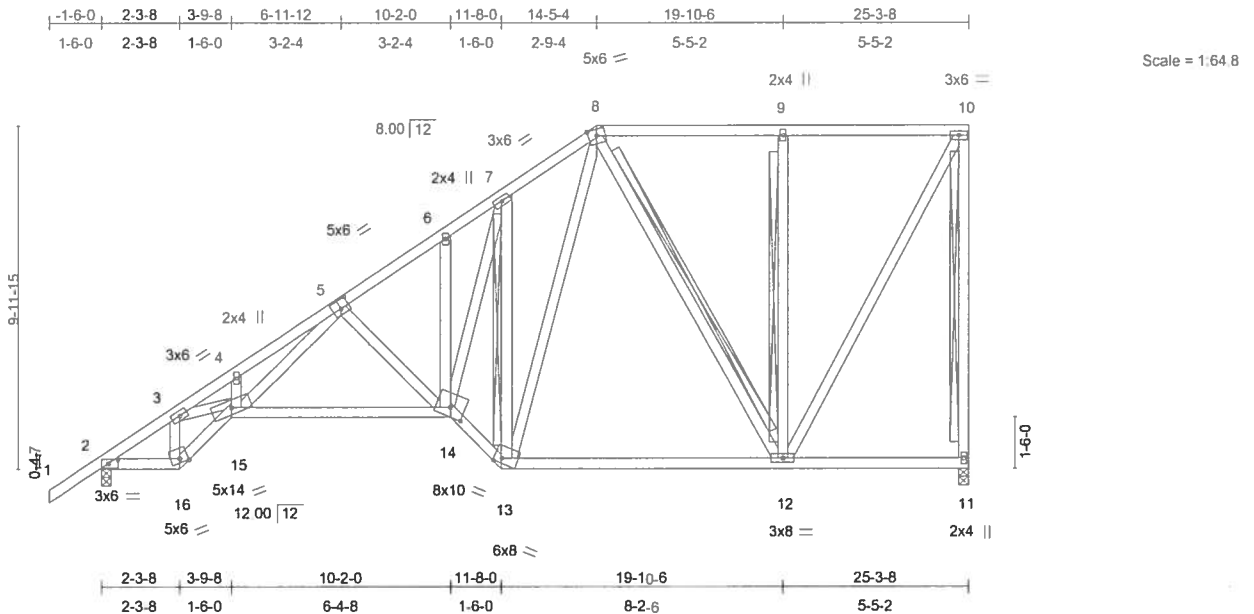


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [5:0-3-0,0-3-0], [13:0-2-11,Edge], [14:0-5-0,0-3-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.66	Vert(LL)	0.17 14-15	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.37	Vert(TL)	-0.25 14-15	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.95	Horz(TL)	0.13 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 205 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 3-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10.  
BOT CHORD Rigid ceiling directly applied or 6-8-3 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 10-11, 7-13, 8-12, 9-12

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.

JOINTS 1 Brace at Jt(s): 10

**REACTIONS** (lb/size) 11=797/0-3-8, 2=892/0-3-8  
Max Horz 2=359(load case 6)  
Max Uplift 11=-224(load case 5), 2=-206(load case 6)

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

TOP CHORD 1-2=0/44, 2-3=-1242/395, 3-4=-2508/1344, 4-5=-2473/1403, 5-6=-1150/549, 6-7=-1115/624, 7-8=-776/455, 8-9=-361/217, 9-10=-361/217, 10-11=-772/479  
BOT CHORD 2-16=-688/962, 15-16=-830/1183, 14-15=-880/1241, 13-14=-553/816, 12-13=-340/513, 11-12=-5/8  
WEBS 3-16=-766/560, 3-15=-808/1166, 4-15=-40/80, 5-15=-818/1183, 5-14=-476/373, 6-14=-114/121, 7-14=-759/1056, 7-13=-909/689, 8-13=-312/460, 8-12=-311/252, 9-12=-313/225, 10-12=-444/738

Julius Lee  
Truss Design Engineer  
Florida PE No. 31066  
1105 Coastal Way Blvd  
Wynnton Beach, FL 32096

October 10, 2007

Continued on page 2

**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



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL J1899311 Job Reference (optional)
L255638	T28	SPECIAL	1	1	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.62, 3 = 0.53, 4 = 0.33, 5 = 0.55, 6 = 0.33, 7 = 0.77, 8 = 0.32, 9 = 0.33, 10 = 0.59, 11 = 0.35, 12 = 0.80, 13 = 0.62, 14 = 0.40, 15 = 0.39 and 16 = 0.35

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 11 and 206 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Central Bay Blvd  
Boynton Beach, FL 33436

October 10,2007

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T29	SPECIAL	1	1	TWENSEY - LOT 3 LL
J1899312					

Builders FirstSource, Lake City, FL 32055

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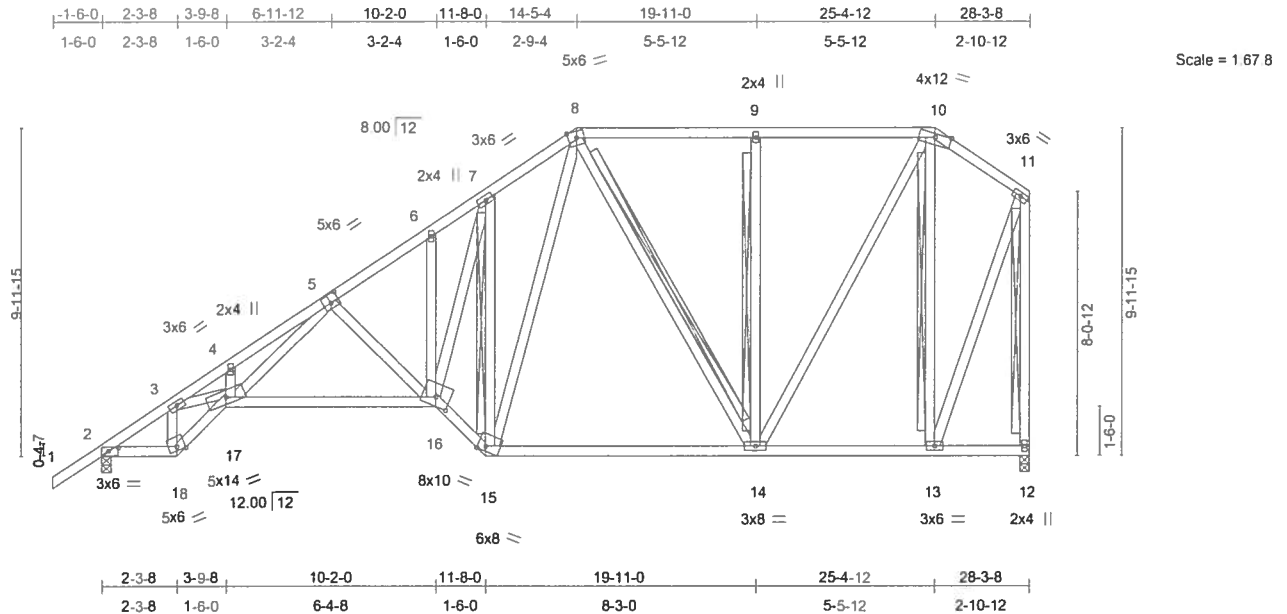


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [5:0-3-0,0-3-0], [15:0-2-11,Edge], [16:0-5-0,0-3-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.33	Vert(LL)	0.19 16-17	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.40	Vert(TL)	-0.29 16-17	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.76	Horz(TL)	0.15 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 239 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 3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10.  
BOT CHORD Rigid ceiling directly applied or 6-5-12 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 7-15, 8-14, 9-14, 10-13, 11-12  
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=987/0-3-8, 12=893/0-3-8  
Max Horz 2=321(load case 6)  
Max Uplift 2=-238(load case 6), 12=-228(load case 5)

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

TOP CHORD 1-2=0/44, 2-3=-1407/531, 3-4=-2865/1527, 4-5=-2824/1584, 5-6=-1368/704, 6-7=-1329/779, 7-8=-945/597, 8-9=-554/380, 9-10=-554/380, 10-11=-326/198, 11-12=-875/483  
BOT CHORD 2-18=-716/1095, 17-18=-864/1344, 16-17=-934/1447, 15-16=-603/1001, 14-15=-379/655, 13-14=-124/239, 12-13=-3/4  
WEBS 3-18=-868/582, 3-17=-852/1338, 4-17=-28/75, 5-17=-842/1312, 5-16=-512/381, 6-16=-110/120, 7-16=-799/1206, 7-15=-1028/719, 8-15=-308/458, 8-14=-211/162, 9-14=-313/218, 10-14=-356/647, 10-13=-631/369, 11-13=-366/706

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1106 Coastal Bay Blvd  
Gwynn Beach, FL 33436

October 10, 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	TWENSEY - LOT 3 LL	J1899312
L255638	T29	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.69, 3 = 0.61, 4 = 0.33, 5 = 0.62, 6 = 0.33, 7 = 0.88, 8 = 0.34, 9 = 0.33, 10 = 0.78, 11 = 0.54, 12 = 0.33, 13 = 0.64, 14 = 0.70, 15 = 0.64, 16 = 0.40, 17 = 0.46 and 18 = 0.40

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 238 lb uplift at joint 2 and 228 lb uplift at joint 12.
- 7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1105 Crystal Bay Blvd  
Weymouth Beach, FL 33438

October 10, 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	TWENSEY - LOT 3 LL	J1899313
L255638	T30	COMMON	1	1	Job Reference (optional)	

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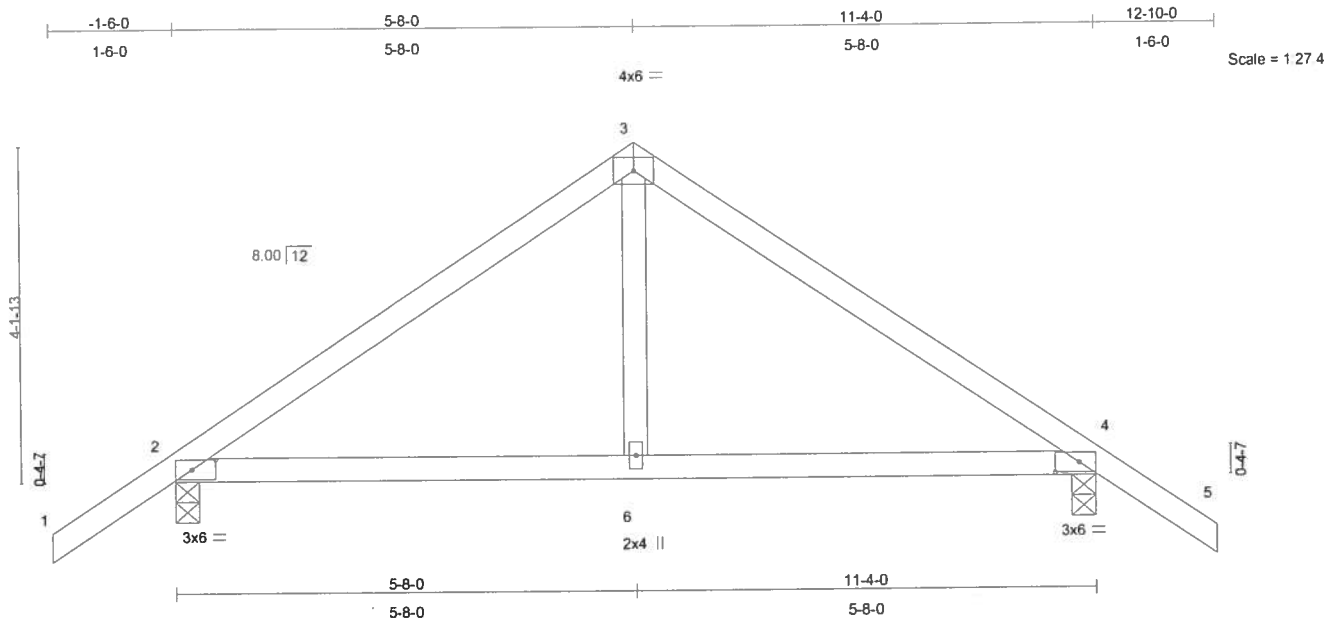


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [4:0-3-9,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.20	Vert(LL)	-0.02	2-6	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.17	Vert(TL)	-0.04	2-6	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.06	Horz(TL)	0.01	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 48 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) 2=442/0-3-8, 4=442/0-3-8  
Max Horz 2=-105(load case 4)  
Max Uplift 2=-149(load case 6), 4=-149(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/44, 2-3=-429/177, 3-4=-429/177, 4-5=0/44  
BOT CHORD 2-6=-12/288, 4-6=-12/288  
WEBS 3-6=0/191

#### JOINT STRESS INDEX

2 = 0.33, 3 = 0.54, 4 = 0.33 and 6 = 0.14

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 2-1888  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32119

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899313
L255638	T30	COMMON	1	1	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 149 lb uplift at joint 2 and 149 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida P.E. No. 3-1888  
1100 Coastal Bay Blvd  
Weymouth Beach, FL 33438

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T30G	GABLE	1	1	TWENSEY - LOT 3 LL
J1899314					

Builders FirstSource, Lake City, FL 32055

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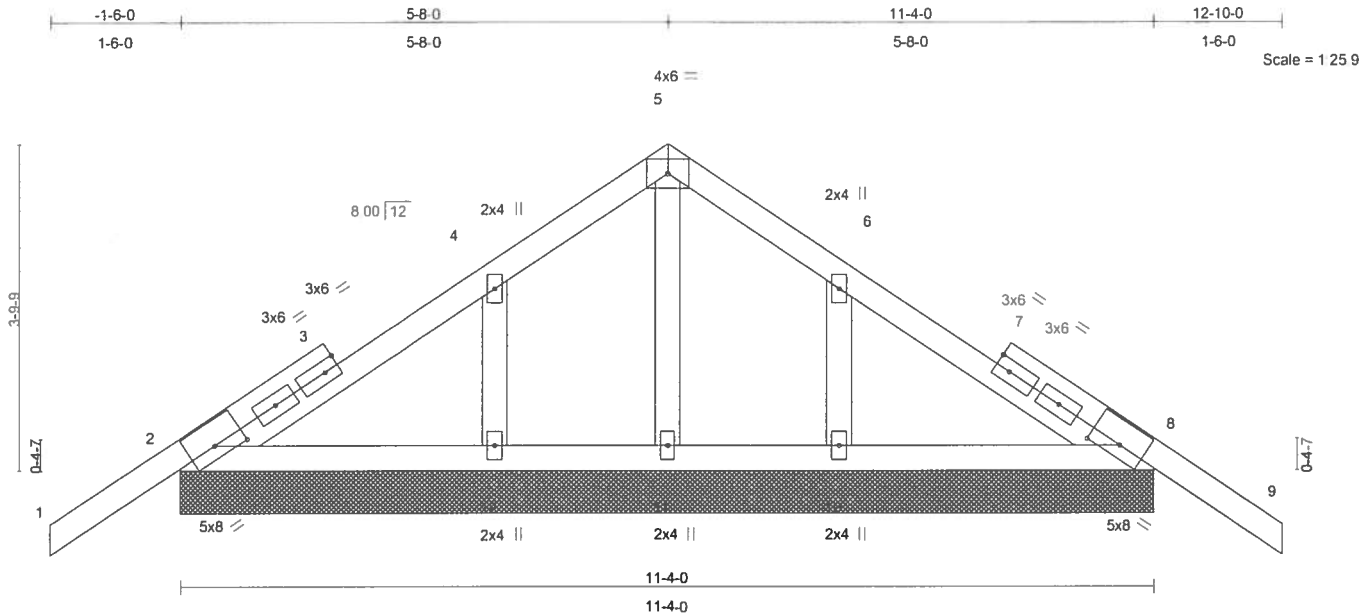


Plate Offsets (X,Y): [2:0-4-5,0-1-12], [8:0-4-5,0-1-12]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.22	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	-0.01	9	n/r	90		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.05	Horz(TL)	0.00	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 58 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 6-0-0 oc bracing.

**REACTIONS** (lb/size) 2=289/11-4-0, 8=289/11-4-0, 11=176/11-4-0, 12=303/11-4-0, 10=302/11-4-0  
Max Horz 2=-126(load case 4)  
Max Uplift 2=-184(load case 6), 8=-199(load case 7), 11=-19(load case 6), 12=-179(load case 6), 10=-182(load case 7)  
Max Grav 2=294(load case 10), 8=294(load case 11), 11=176(load case 1), 12=305(load case 10), 10=305(load case 11)

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

TOP CHORD 1-2=-6/70, 2-3=-75/72, 3-4=-74/130, 4-5=-26/86, 5-6=-26/86, 6-7=-36/130, 7-8=-40/45, 8-9=-6/70  
BOT CHORD 2-12=-41/140, 11-12=-41/140, 10-11=-41/140, 8-10=-41/140  
WEBS 5-11=-174/29, 4-12=-262/196, 6-10=-262/198

Julius Lee  
Truss Design Engineer  
Florida PE No. 34868  
1100 Coastal Bay Blvd  
Daytona Beach, FL 32115

#### JOINT STRESS INDEX

2 = 0.44, 3 = 0.00, 3 = 0.24, 3 = 0.24, 4 = 0.12, 5 = 0.07, 6 = 0.12, 7 = 0.00, 7 = 0.24, 7 = 0.24, 8 = 0.44, 10 = 0.11, 11 = 0.06 and 12 = 0.11

#### NOTES

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

Continued on page 2

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T30G	GABLE	1	1	J1899314
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:39 2007 Page 2

#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2, 199 lb uplift at joint 8, 19 lb uplift at joint 11, 179 lb uplift at joint 12 and 182 lb uplift at joint 10.
- 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: 1-5=-87(F=-33), 5-9=-87(F=-33), 2-8=-10

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1405 Coastal Bay Blvd  
Weymouth Beach, FL 32405

October 10, 2007

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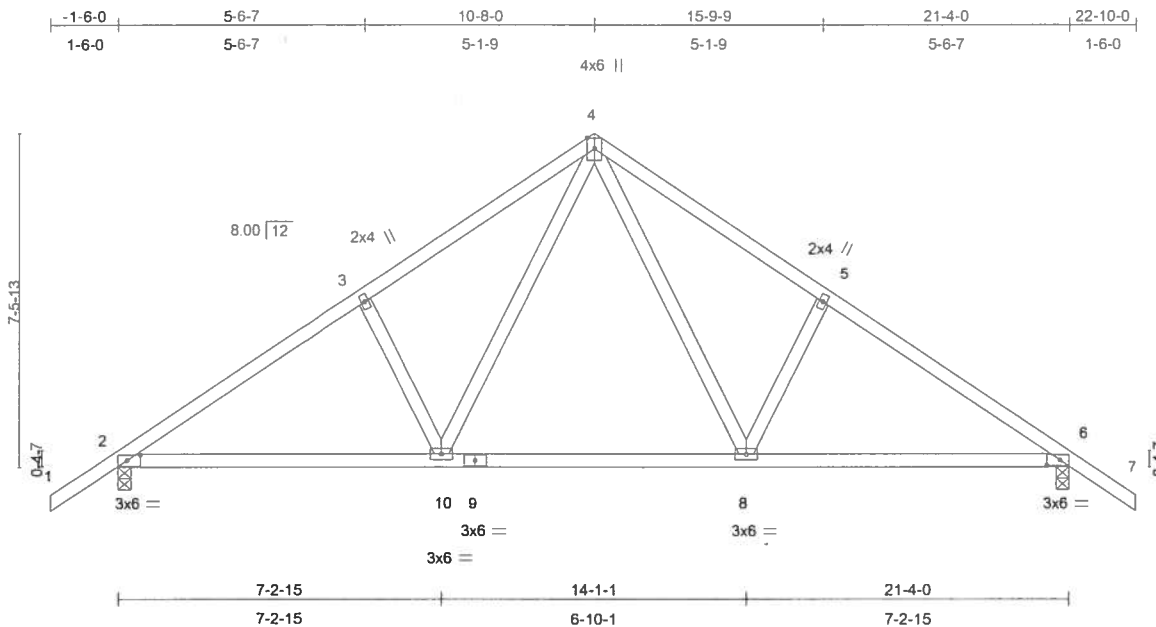
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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899315
L255638	T31	COMMON	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1/4" = 8'

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.26	Vert(LL)	0.16	8-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.61	Vert(TL)	-0.29	8-10	>861	240		
BCLL 10.0	Rep Stress Incr	NO	WB 0.33	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 110 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 5-3-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(lb/size) 2=967/0-3-8, 6=967/0-3-8  
Max Horz 2=-197(load case 4)  
Max Uplift 2=-270(load case 6), 6=-270(load case 7)

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

TOP CHORD 1-2=0/44, 2-3=-1364/599, 3-4=-1232/657, 4-5=-1232/657, 5-6=-1364/599, 6-7=0/44  
BOT CHORD 2-10=-335/1053, 9-10=-112/724, 8-9=-112/724, 6-8=-335/1053  
WEBS 3-10=-225/223, 4-10=-293/566, 4-8=-293/566, 5-8=-225/223

#### JOINT STRESS INDEX

2 = 0.70, 3 = 0.34, 4 = 0.54, 5 = 0.34, 6 = 0.70, 8 = 0.48, 9 = 0.32 and 10 = 0.48

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2 and 270 lb uplift at joint 6.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Gwynn Beach, FL 33436

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899315
L255638	T31	COMMON	3	1	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: 1-4=-54, 4-7=-54, 2-10=-10, 8-10=-70(F=-60), 6-8=-10

Julius Lee  
Truss Design Engineer  
Florida PB No. 21888  
1400 Coastal Bay Blvd  
Boynton Beach, FL 33438

October 10, 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



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T31G	GABLE	1	1	TWENSEY - LOT 3 LL

J1899316

Builders FirstSource, Lake City, FL 32055

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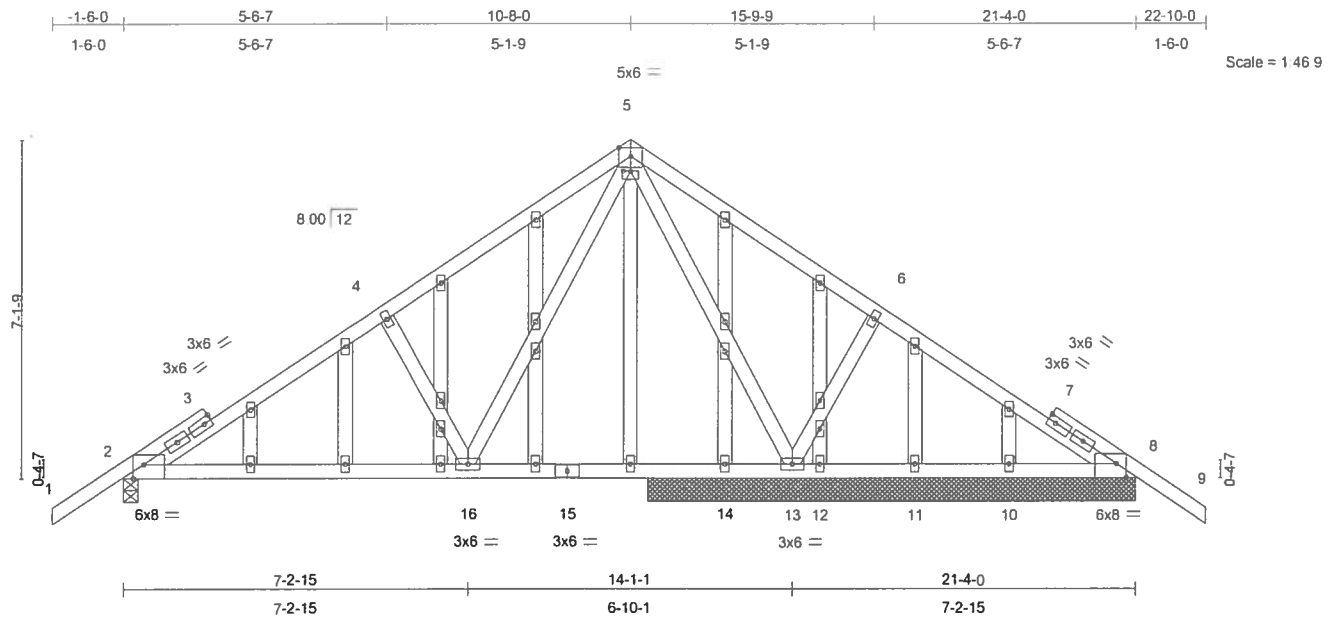


Plate Offsets (X,Y): [2:0-2-9,Edge], [5:0-2-0,0-0-0], [8:0-2-9,Edge], [29:0-0-0,0-0-0], [29:0-0-0,0-0-0], [31:0-0-0,0-0-0], [31:0-0-0,0-0-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.36	Vert(LL)	-0.06	2-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.26	Vert(TL)	-0.12	2-16	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.98	Horz(TL)	0.01	13	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 160 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  
 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 6-0-0 oc  
 bracing.

**REACTIONS** (lb/size) 2=733/0-3-8, 8=262/10-3-8, 13=1143/10-3-8, 14=54/10-3-8, 12=47/10-3-8,  
 11=9/10-3-8, 10=98/10-3-8

Max Horz 2=-241(load case 4)

Max Uplift 2=-386(load case 6), 8=-183(load case 7), 13=-604(load case 7),  
 11=-9(load case 11), 10=-33(load case 7)

Max Grav 2=738(load case 10), 8=295(load case 11), 13=1143(load case 1),  
 14=139(load case 2), 12=88(load case 2), 11=45(load case 2), 10=103(load  
 case 2)

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

TOP CHORD 1-2=-7/72, 2-3=-769/295, 3-4=-677/292, 4-5=-571/312, 5-6=-103/471, 6-7=-103/258,  
 7-8=-87/99, 8-9=-6/70

BOT CHORD 2-16=-254/563, 15-16=-78/191, 14-15=-78/191, 13-14=-78/191, 12-13=-124/192,  
 11-12=-124/192, 10-11=-124/192, 8-10=-124/192

WEBS 4-16=-428/335, 5-16=-293/510, 5-13=-942/446, 6-13=-401/330

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 1105 Central Bay Blvd  
 Weynton Beach, FL 33406

Continued on page 2

October 10, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MN-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	TWENSEY - LOT 3 LL
L255638	T31G	GABLE	1	1	J1899316
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.44, 3 = 0.00, 3 = 0.37, 3 = 0.37, 4 = 0.33, 5 = 0.68, 5 = 0.63, 6 = 0.33, 7 = 0.00, 7 = 0.37, 7 = 0.37, 8 = 0.44, 10 = 0.33, 11 = 0.33, 12 = 0.33, 13 = 0.44, 14 = 0.33, 15 = 0.15, 16 = 0.44, 17 = 0.33, 18 = 0.33, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 21 = 0.33, 22 = 0.33, 23 = 0.33, 24 = 0.33, 25 = 0.33, 26 = 0.33, 27 = 0.33, 28 = 0.33, 29 = 0.33, 29 = 0.33, 30 = 0.33, 31 = 0.33, 31 = 0.33, 32 = 0.33 and 33 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 studs spaced at 2'-0" oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 2, 183 lb uplift at joint 8, 604 lb uplift at joint 13, 9 lb uplift at joint 11 and 33 lb uplift at joint 10.
- 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: 1-5=-87(F=-33), 5-9=-87(F=-33), 2-8=-10

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Gwynn Beach, FL 33436

October 10, 2007

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

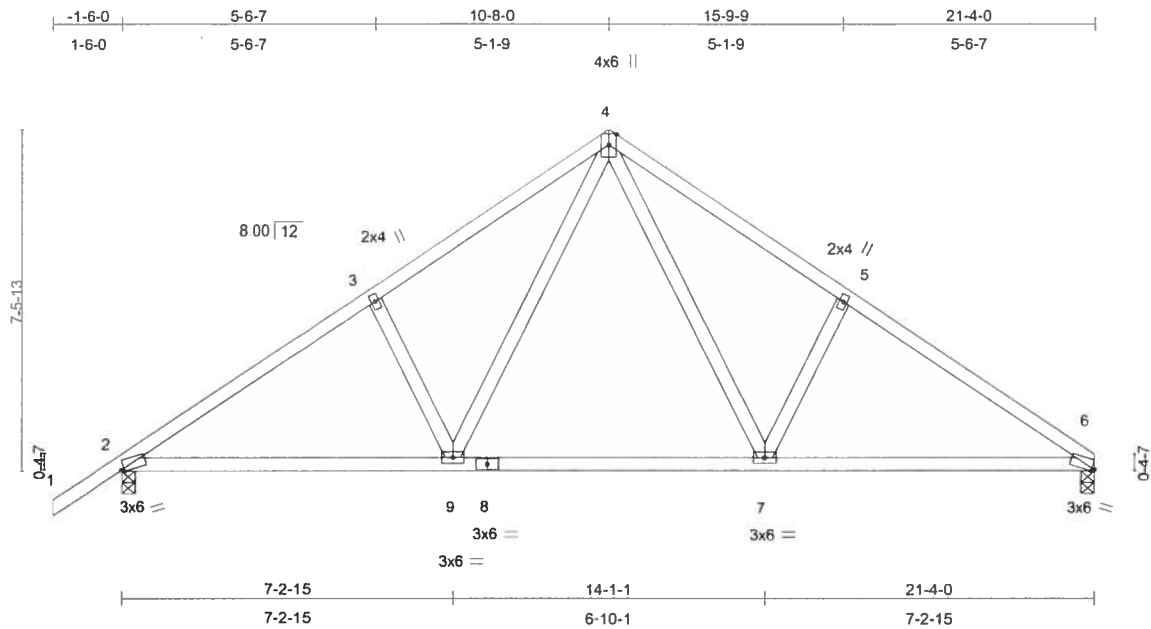
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary 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	TWENSEY - LOT 3 LL	J1899317
L255638	T32	COMMON	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1/48 8

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.26	Vert(LL)	0.16	7-9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.62	Vert(TL)	-0.29	7-9	>873	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.36	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 107 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 5-2-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

#### REACTIONS

(lb/size) 6=875/0-3-8, 2=971/0-3-8  
Max Horz 2=217(load case 5)  
Max Uplift 6=-197(load case 7), 2=-271(load case 6)

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

TOP CHORD 1-2=0/44, 2-3=-1370/608, 3-4=-1238/665, 4-5=-1249/682, 5-6=-1380/623  
BOT CHORD 2-9=-405/1057, 8-9=-183/729, 7-8=-183/729, 6-7=-423/1070  
WEBS 3-9=-226/224, 4-9=-290/566, 4-7=-320/585, 5-7=-235/236

#### JOINT STRESS INDEX

2 = 0.74, 3 = 0.34, 4 = 0.53, 5 = 0.34, 6 = 0.74, 7 = 0.49, 8 = 0.33 and 9 = 0.49

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 6 and 271 lb uplift at joint 2.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Truss Design Engineer  
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1100 Coastal Bay Blvd  
Daytona Beach, FL 32115

October 10,2007

**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'Oroff Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	T32	COMMON	6	1	TWENSEY - LOT 3 LL J1899317

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: 1-4=-54, 4-6=-54, 2-9=-10, 7-9=-70(F=-60), 6-7=-10

Julius Lee  
Truss Design Engineer  
Florida PE No. 21888  
1400 Colonial Bay Blvd  
Boynton Beach, FL 33435

October 10,2007

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**Builders**  
FirstSource



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899318
L255638	T33	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:28:44 2007 Page 2

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 2-10=-10, 8-10=-70(F=-60), 7-8=-10

Julius Lee  
Truss Design Engineer  
Florida PE No. 31088  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33436

October 10, 2007

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

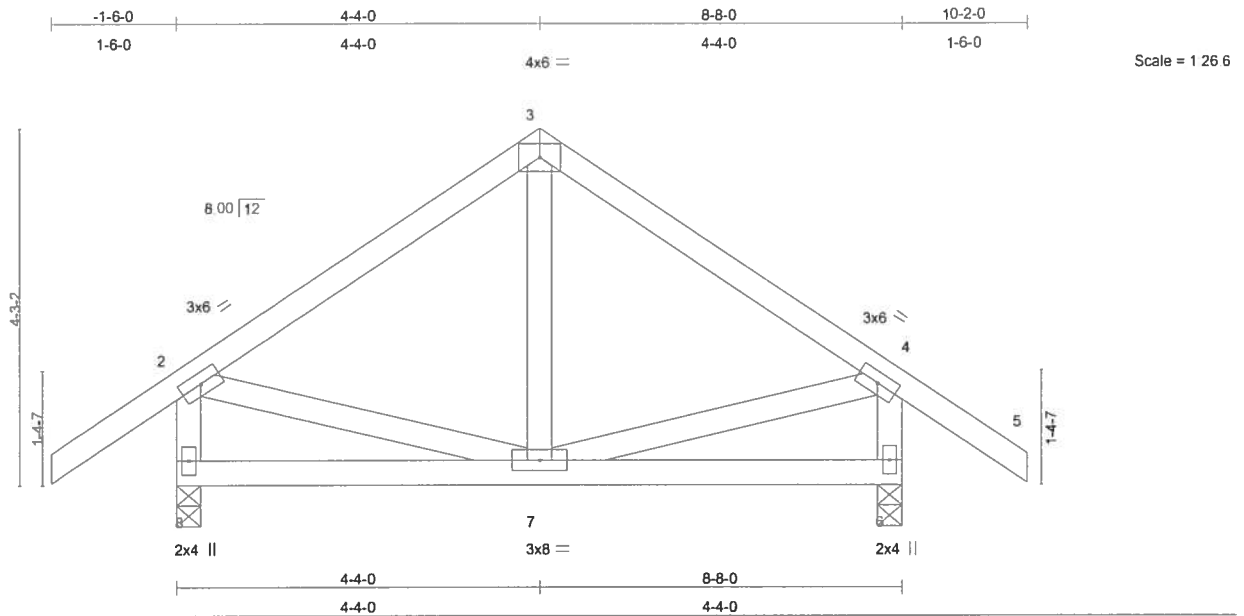
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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899319
L255638	T34	COMMON	3	1	Job Reference (optional)	

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 0.24	Vert(LL)	0.02	6-7	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	6-7	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.06	Horz(TL)	-0.00	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 54 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, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=357/0-3-8, 6=357/0-3-8  
Max Horz 8=122(load case 5)  
Max Uplift 8=-229(load case 6), 6=-229(load case 7)

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

TOP CHORD 1-2=0/49, 2-3=-239/339, 3-4=-239/339, 4-5=0/49, 2-8=-335/392, 4-6=-335/392  
BOT CHORD 7-8=-153/126, 6-7=-35/35  
WEBS 3-7=-209/91, 2-7=-105/129, 4-7=-109/129

#### JOINT STRESS INDEX

2 = 0.55, 3 = 0.28, 4 = 0.55, 6 = 0.63, 7 = 0.11 and 8 = 0.63

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left and right exposed; 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.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
Truss Design Engineer  
Florida PE No. 3-1888  
1100 Coastal Bay Blvd  
Gwynn Beach, FL 32050

Continued on page 2

October 10,2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	T34	COMMON	3	1	J1899319
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 229 lb uplift at joint 8 and 229 lb uplift at joint 6.

**LOAD CASE(S)** Standard

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Boynton Beach, FL 33435

October 10, 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	Job Reference (optional)
L255638	T34G	GABLE	1	1	TWENSEY - LOT 3 LL

J1899320

Builders FirstSource, Lake City, FL 32055

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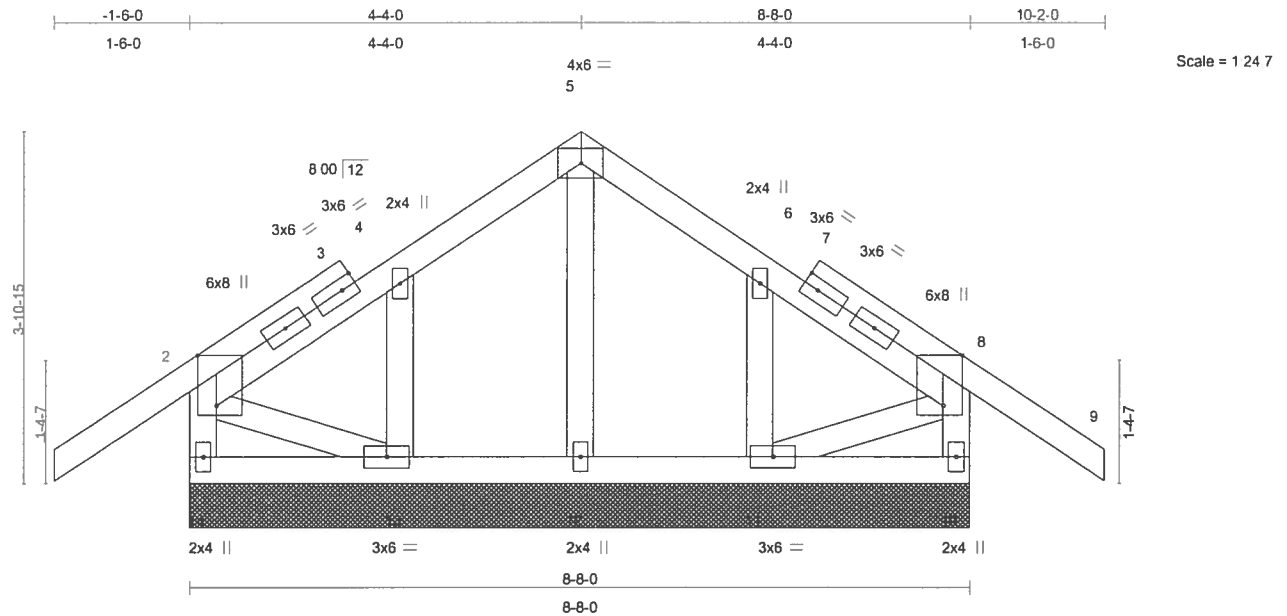


Plate Offsets (X,Y): [2:0-6-12,Edge], [8:0-6-12,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.25	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.03	Vert(TL)	-0.02	9	n/r	90		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.05	Horz(TL)	0.00	10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 59 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  
 OTHERS 2 X 4 SYP No.3

**BRACING**

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

**REACTIONS** (lb/size) 14=296/8-8-0, 10=296/8-8-0, 12=197/8-8-0, 13=155/8-8-0, 11=155/8-8-0

Max Horz 14=145(load case 5)

Max Uplift 14=-163(load case 6), 10=-174(load case 7), 12=-25(load case 6),

13=-135(load case 6), 11=-130(load case 7)

Max Grav 14=296(load case 1), 10=296(load case 1), 12=197(load case 1),

13=160(load case 10), 11=160(load case 11)

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

TOP CHORD 1-2=-7/68, 2-3=-69/59, 3-4=-52/60, 4-5=-52/89, 5-6=-52/89, 6-7=-25/34, 7-8=-69/37,  
 8-9=-7/68, 2-14=-287/214, 8-10=-287/214

BOT CHORD 13-14=-106/140, 12-13=-32/127, 11-12=-32/127, 10-11=-29/69

WEBS 5-12=-178/39, 4-13=-151/115, 6-11=-151/114, 2-13=-52/80, 8-11=-42/70

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32118

**JOINT STRESS INDEX**

2 = 0.25, 3 = 0.00, 3 = 0.18, 3 = 0.18, 4 = 0.07, 5 = 0.14, 6 = 0.07, 7 = 0.00, 7 = 0.18, 7 = 0.18, 8 = 0.25, 10 = 0.15, 11 = 0.06,  
 12 = 0.06, 13 = 0.06 and 14 = 0.15

**NOTES**

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

Continued on page 2

October 10,2007

**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	TWENSEY - LOT 3 LL	J1899320
L255638	T34G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:45 2007 Page 2

#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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.
- 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) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-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 163 lb uplift at joint 14, 174 lb uplift at joint 10, 25 lb uplift at joint 12, 135 lb uplift at joint 13 and 130 lb uplift at joint 11.
- 10) 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=-87(F=-33), 2-5=-87(F=-33), 5-8=-87(F=-33), 8-9=-87(F=-33), 10-14=-10

Julius Lee  
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October 10, 2007

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

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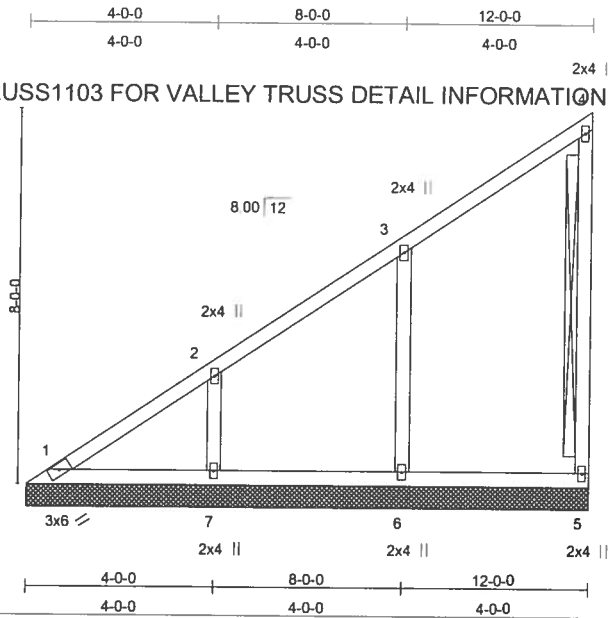
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255338	V1	GABLE	1	1	TWENSEY - LOT 3 LL

J1899321

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:46 2007 Page 1

REFER TO DRAWING VALTRUSS1103 FOR VALLEY TRUSS DETAIL INFORMATION.



Scale = 1/4" = 1'-0"

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	n/a	-	n/a		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.10	Horz(TL)	0.00	5	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 60 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  
 OTHERS 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 4-5  
 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) 1=90/12-0-0, 5=106/12-0-0, 6=265/12-0-0, 7=266/12-0-0  
 Max Horz 1=243(load case 6)  
 Max Uplift 5=-54(load case 6), 6=-131(load case 6), 7=-133(load case 6)  
 Max Grav 1=117(load case 6), 5=106(load case 1), 6=265(load case 1), 7=266(load case 1)

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

TOP CHORD 1-2=-362/54, 2-3=-221/55, 3-4=-72/44, 4-5=-87/93  
 BOT CHORD 1-7=-5/5, 6-7=-5/5, 5-6=-5/5  
 WEBS 3-6=-228/246, 2-7=-213/225

**JOINT STRESS INDEX**

1 = 0.15, 2 = 0.11, 3 = 0.12, 4 = 0.30, 5 = 0.14, 6 = 0.14 and 7 = 0.12

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Bay Blvd  
 Weynton Beach, FL 33435

Continued on page 2

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899321
L255638	V1	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:46 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 54 lb uplift at joint 5, 131 lb uplift at joint 6 and 133 lb uplift at joint 7.
- 5) Non Standard bearing condition. Review required.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1400 Coastal Bay Blvd  
Boynton Beach, FL 33438

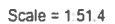
October 10, 2007

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Builders FirstSource, Lake City, FL 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:46 2007 Page 1



**Builders**  
FirstSource



Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	V2	GABLE	1	1	J1899322
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:47 2007 Page 2

#### NOTES

- 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 55 lb uplift at joint 5, 124 lb uplift at joint 6 and 156 lb uplift at joint 7.
- 5) Non Standard bearing condition. Review required.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1105 Coastal Bay Blvd  
Boynton Beach, FL 33436

October 10, 2007

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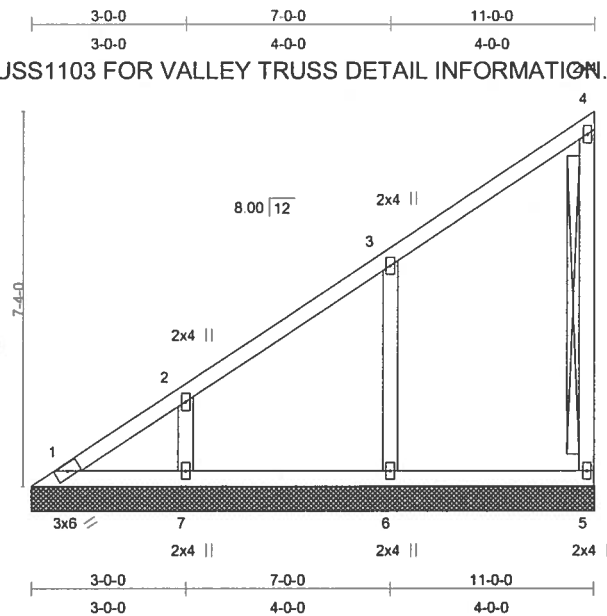
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	V3	GABLE	1	1	TWENSEY - LOT 3 LL
					J1899323

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:47 2007 Page 1

REFER TO DRAWING VALTRUSS1103 FOR VALLEY TRUSS DETAIL INFORMATION.

Scale = 1:43.5



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.11	Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	n/a -	n/a	999		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00 5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 53 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  
 OTHERS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 4-5  
 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) 1=57/11-0-0, 5=105/11-0-0, 6=273/11-0-0, 7=229/11-0-0  
 Max Horz 1=222(load case 6)  
 Max Uplift 5=-53(load case 6), 6=-135(load case 6), 7=-115(load case 6)  
 Max Grav 1=119(load case 6), 5=105(load case 1), 6=273(load case 1), 7=229(load case 1)

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

TOP CHORD 1-2=-349/42, 2-3=-225/57, 3-4=-73/43, 4-5=-86/93  
 BOT CHORD 1-7=-5/6, 6-7=-5/6, 5-6=-5/6  
 WEBS 3-6=-233/254, 2-7=-188/203

#### JOINT STRESS INDEX

1 = 0.12, 2 = 0.10, 3 = 0.13, 4 = 0.31, 5 = 0.14, 6 = 0.14 and 7 = 0.11

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 1102 Coastal Bay Blvd  
 Boynton Beach, FL 33438

Continued on page 2

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	V3	GABLE	1	1	J1899323
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:47 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 53 lb uplift at joint 5, 135 lb uplift at joint 6 and 115 lb uplift at joint 7.
- 5) Non Standard bearing condition. Review required.

**LOAD CASE(S)** Standard

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Truss Design Engineer  
Florida PE No. 21888  
1100 Coastal Bay Blvd  
Gwynnston Beach, FL 33438

October 10, 2007

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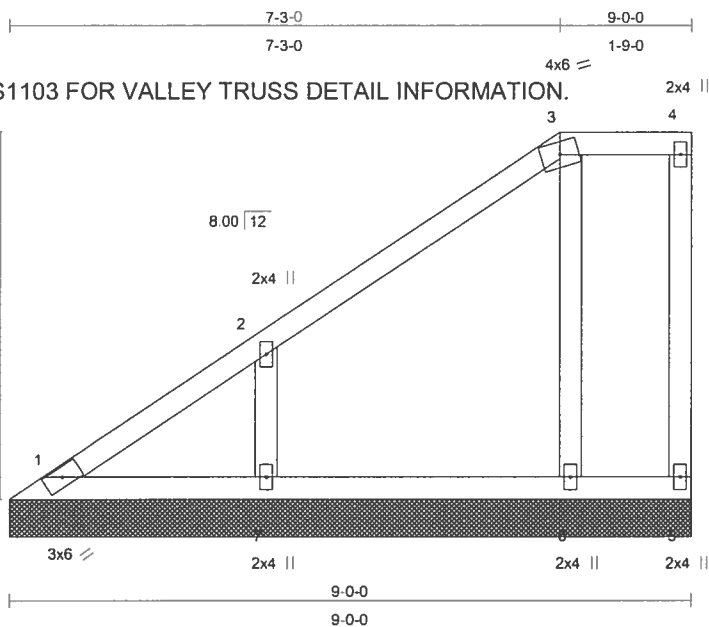
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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	V4	GABLE	1	1	J1899324

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:29:40 2007 Page 1



Scale = 1/29.3

REFER TO DRAWING VALTRUSS1103 FOR VALLEY TRUSS DETAIL INFORMATION.

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.07	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Rep Stress Incr	YES	WB 0.07	Horz(TL)	-0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 43 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  
 OTHERS 2 X 4 SYP No.3

#### BRACING

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

**REACTIONS** (lb/size) 1=70/9-0-0, 5=10/9-0-0, 6=207/9-0-0, 7=249/9-0-0  
 Max Horz 1=146(load case 6)  
 Max Uplift 5=-31(load case 4), 6=-79(load case 6), 7=-124(load case 6)  
 Max Grav 1=70(load case 1), 5=12(load case 6), 6=207(load case 1), 7=249(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-213/47, 2-3=-75/50, 3-4=-1/1, 4-5=-13/30  
 BOT CHORD 1-7=-7/6, 6-7=-7/6, 5-6=-1/0  
 WEBS 3-6=-174/190, 2-7=-203/225

#### JOINT STRESS INDEX

1 = 0.09, 2 = 0.12, 3 = 0.27, 4 = 0.04, 5 = 0.03, 6 = 0.11 and 7 = 0.13

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5, 79 lb uplift at joint 6 and 124 lb uplift at joint 7.

Continued on page 2

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1105 Coastal Bay Blvd  
 Weynton Beach, FL 33436

October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
L255638	V4	GABLE	1	1	TWENSEY - LOT 3 LL J1899324

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 14:29:40 2007 Page 2

#### NOTES

6) Non Standard bearing condition. Review required.

**LOAD CASE(S)** Standard

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1400 Coastal Bay Blvd  
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October 10, 2007

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL	J1899325
L255638	V5	GABLE	1	1	Job Reference (optional)	

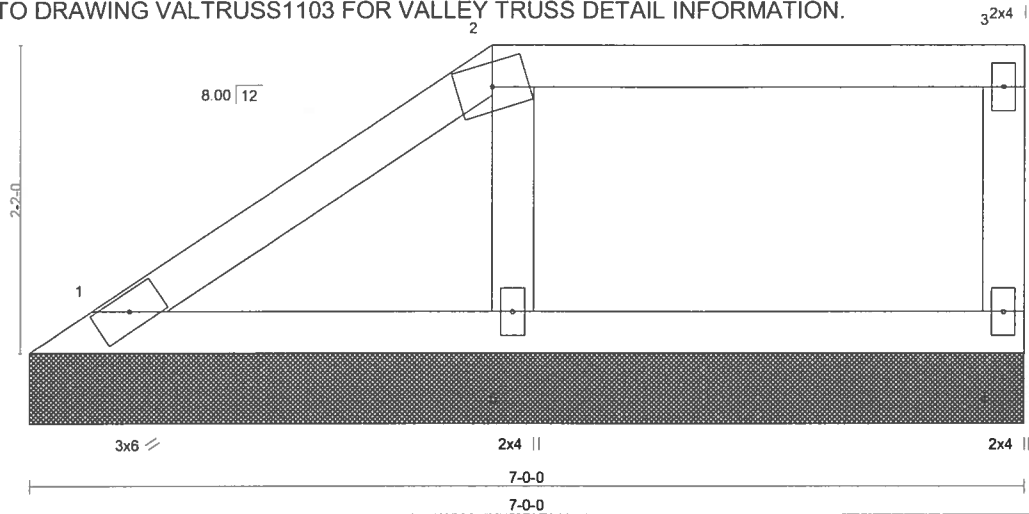
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6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:48 2007 Page 1



Scale = 1/16"

REFER TO DRAWING VALTRUSS1103 FOR VALLEY TRUSS DETAIL INFORMATION.



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	4	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  
WEBS 2 X 4 SYP No.3  
OTHERS 2 X 4 SYP No.3

#### BRACING

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

**REACTIONS** (lb/size) 1=92/7-0-0, 4=110/7-0-0, 5=206/7-0-0  
Max Horz 1=60(load case 6)  
Max Uplift 1=-2(load case 6), 4=-49(load case 4), 5=-62(load case 6)

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

TOP CHORD 1-2=-81/22, 2-3=-28/24, 3-4=-92/100  
BOT CHORD 1-5=-39/41, 4-5=-24/27  
WEBS 2-5=-167/192

#### JOINT STRESS INDEX

1 = 0.08, 2 = 0.28, 3 = 0.40, 4 = 0.19 and 5 = 0.11

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Boynton Beach, FL 33436

October 10, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	TWENSEY - LOT 3 LL
L255638	V5	GABLE	1	1	J1899325
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 10 08:57:48 2007 Page 2

#### NOTES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 49 lb uplift at joint 4 and 62 lb uplift at joint 5.
- 6) Non Standard bearing condition. Review required.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1408 Coastal Bay Blvd  
Boynton Beach, FL 33435

October 10, 2007

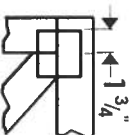
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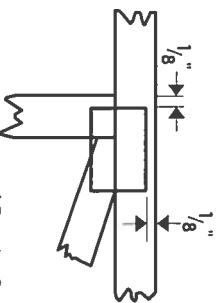


# Symbols

## PLATE LOCATION AND ORIENTATION



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

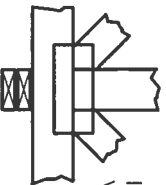
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



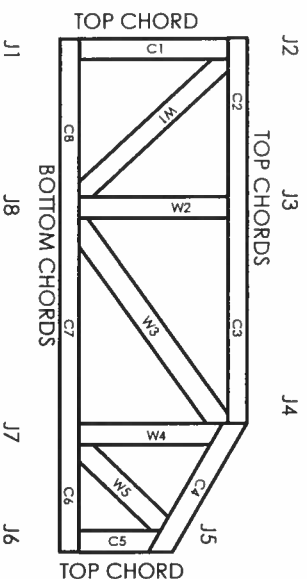
Indicates location of required continuous lateral bracing.

## 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

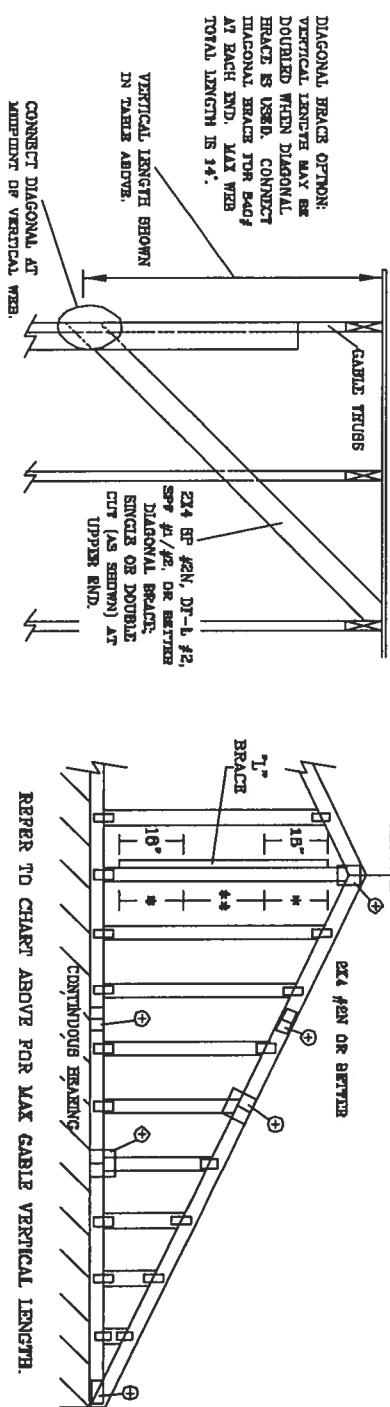
1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length ( $\pm 6"$  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.

© 1993 MiTek® Holdings, Inc.



ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH		2X4 CABLE VERTICAL SPECIES		BRACE		NO BRACES		(1) 1X4 7" BRACE *		(1) 2X4 7" BRACE *		(1) 2X6 7" BRACE *		(2) 2X8 7" BRACE **	
SPACING	GRADE	SPF	HF	SP	DFL	SPF	HF	SP	DFL	SPF	HF	SP	DFL	SPF	HF
12" O.C.	SPF	#1 / #2	3' 4"	6' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"		
		#3	3' 3"	4' 11"	4' 11"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"	13' 3"		
		STUD	3' 3"	4' 11"	4' 11"	6' 6"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"	13' 3"		
		STANDARD	3' 3"	4' 11"	4' 2"	6' 6"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"	13' 3"		
16" O.C.	SPF	#1	3' 8"	5' 10"	6' 3"	8' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"		
		#2	3' 6"	5' 10"	6' 3"	8' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"		
		#3	3' 6"	5' 10"	6' 0"	8' 8"	7' 5"	8' 3"	8' 11"	10' 4"	10' 4"	12' 11"	13' 7"		
		STUD	3' 6"	5' 0"	5' 0"	8' 7"	8' 3"	8' 3"	8' 11"	10' 3"	10' 3"	12' 11"	13' 7"		
24" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 6"	9' 6"	12' 6"	12' 9"	14' 0"	14' 0"		
		#3	3' 8"	6' 0"	6' 0"	7' 11"	8' 1"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
		STUD	3' 8"	6' 0"	6' 0"	7' 11"	8' 1"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
		STANDARD	3' 8"	6' 2"	6' 2"	8' 11"	9' 4"	10' 8"	10' 8"	13' 5"	13' 5"	14' 0"	14' 0"		



REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 3531-1-43 (BUILDING DEPARTMENT SAFETY DEPARTMENT) PUBLISHED BY THE TRUSS PLATE INSTITUTE, 5831 PRINCETON DR., SUITE 200, MARIETTA, GA 30067 AND VITA TRUSS TRUSS CHARTS. THESE TRUSS CHARTS ARE NOT TO BE USED FOR ANY OTHER PURPOSES. ALL TRUSSES MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER AND MUST HAVE A PROPERLY ATTACHED ROOF CEILING.

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.  
1465 NW 4TH AVENUE  
MARIETTA, GA 30067-4161

No. 34866  
STATE OF FLORIDA

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

REF ASCE 7-02-CAB13015  
DATE 11/26/03  
DRWG MADE BY GARY 16 E HT  
-ENG

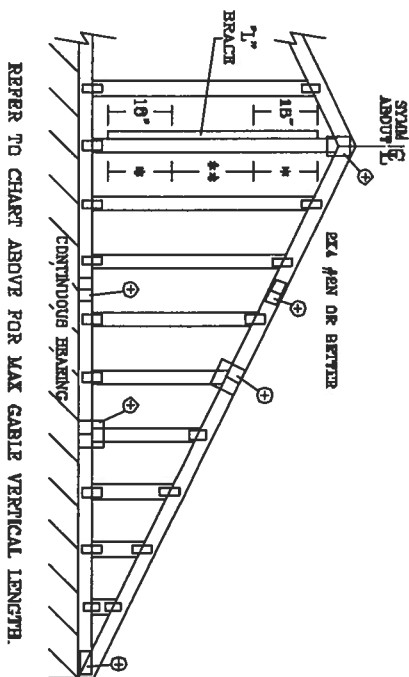
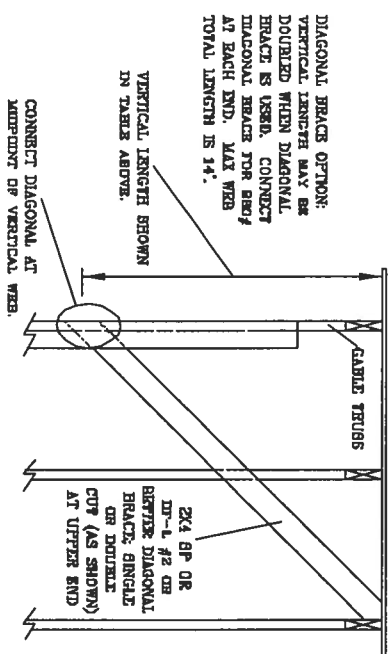
#### CABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UP/LIFT CONNECTIONS FOR 136 PSF OVER CONTINUOUS BEAMING (6 PSF FC DEAD LOAD).
- CABLE END SUPPORTS LOAD FROM 4' 0" OUTLEAKERS WITH 2' 0" OVERHANG, OR 12" BUTTWOOD OVERHANG.
- ATTACH EACH 7" BRACE WITH 10d NAILS.
- \* FOR (1) 7" BRACE, SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- \*\* FOR (2) 7" BRACES, SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- 7" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO BRACE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2X6X4

+ REFER TO COMMON TRUSS DESIGN FOR TRAIL, SPLICE, AND BEEL PLATES.

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH

DIAGONAL BRACE OPTION:  
VERTICAL LENGTH MAY BE  
DOUBLED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
DIAGONAL BRACE TO BRG  
AT EACH END. MAX WEB  
TOTAL LENGTH IS 14'.

VERTICAL LENGTH  
IN TABLE ABOVE

### MEASUREMENT OF VERTICAL WIND

REAGENTS REQUIRED: EXTREME CARE IN FABRICATING, HANDING, SHIPPING, INSTALLING AND  
 REMOVING. REFER TO BEST 1-430 QUALITY COMPONENT SYSTEM INFORMATION. PUBLISHED BY THE TRUSS  
 PLATE INSTITUTE, 983 DUNFORD RD., SUITE 200, MANASSAS, VA 20108, AND VITA (WOOD TRUSS CLADDING  
 OF AMERICA, 6500 ENTERPRISE L., MIDDLESEX, VA 22109) FOR SAFETY PRACTICES, POINT TO PERFORMING  
 THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PLYWOOD ATTACHED  
 STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PLYWOOD ATTACHED ROOF CEILING.

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

1465 SW 4th AVENUE  
DELRAY BEACH, FL 33444-2101

REF	ASCE7-02-CAB13030
DATE	11/26/03
DWG	WEEK STD GARL 50' 2 W
-ENG	

-ENG

MAX. TOT. LD. 60 PSF

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

MAX. SPACING 24.0"

## BRACING GROUP SPECIES AND GRADES

**GROUP A:**

[illegible]

DOUGLAS FIR-LARCH SOUTHERN PINE

SYMBOL	SYMBOL
STANDARD	STANDARD

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**GROUP B:**

**ИДМ-ПЛР**  
**40 1 БТБ**

21

DOCUMENTS 1716-1810

Journal of Management Inquiry 22(3)

**CABLE CROSS DETAIL NOTES:**

THE LOAD DEFLECTION CRITERIA IS L/240.

CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

DEL. END. BUT FOR IS LOW. FROM 4 0  
DITTO. POWER WITH 2' D. OVERHANG. OR 12"

LEADS DEVELOPED:

PDR (1) 7- BRACE; SPACE NITS AT 2- O.C.

FOR (3) L BRACKETS; SPACE NAINS AT 3" O.

REPLACING MUST BE A MINIMUM OF 80% OF W

[illegible]

LESS THAN 4' 0"	1X4 DR. 2X3
GREATER THAN 4' 0" BUT	

LESS THAN 11 8	
APPARATUS 11' 8"	0 FY/

**+ REFER TO COMMON THURS DESIGN FOR**

Downloaded from <http://ajph.org/> on November 10, 2014

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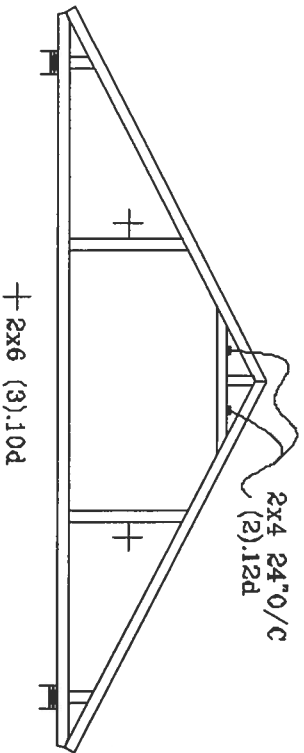
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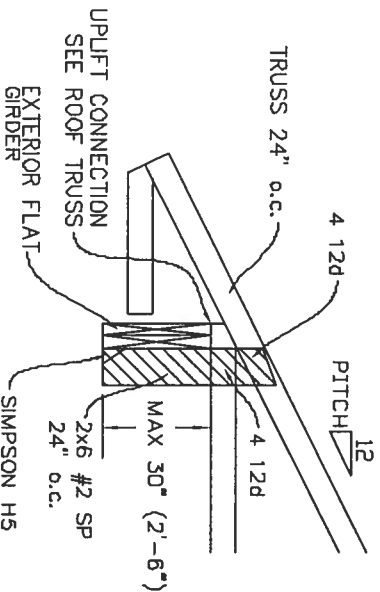
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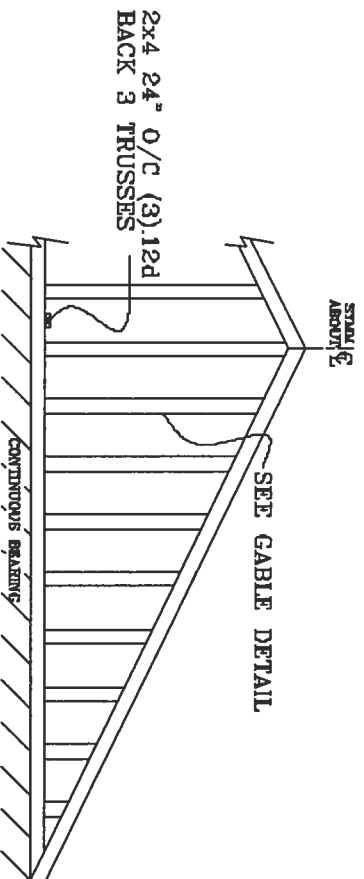
# TYPICAL ATTIC TRUSS BRACING



# TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

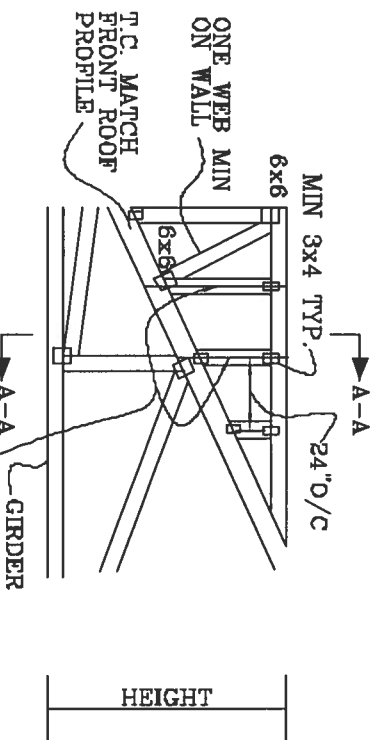


# GABLE END TRUSS DETAIL



MINIMUM 8d BRACING ON GABLE TRUSSES OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOR

# TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT  
ROOF 24" O/C

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL

PLYWOOD  
8d 4" O/C

2x4 LEDGER 12d 4" O/C  
GIRDER

TRUSSES 24" O/C

A-A

JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1425 NW 4th AVENUE  
ORLANDO, FL 32804-2661

No. 34959  
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

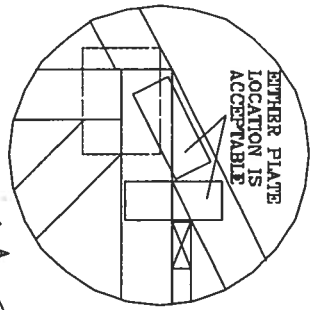
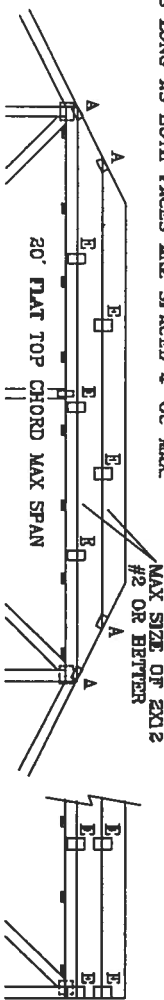
CAT 1, EXP C, WIND TC DL=6 PSF, WIND BC DL=6 PSF

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

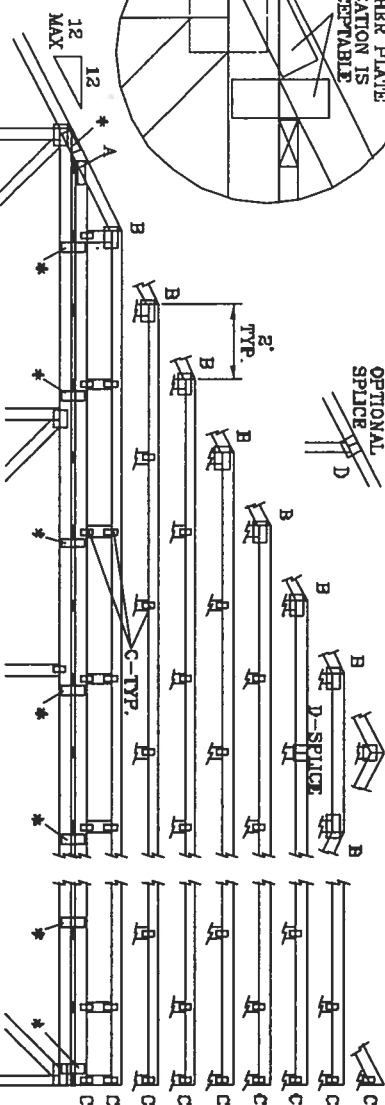
WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (B,\*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

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



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

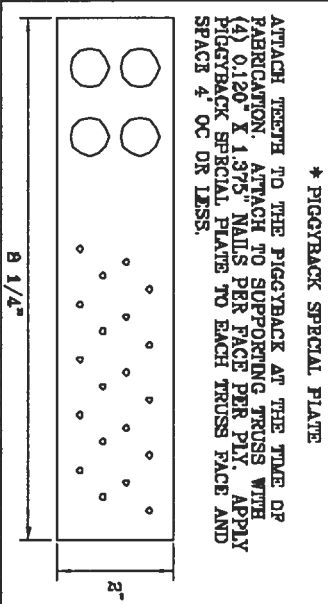


REMARKS: TRUSSES BECOME EXPOSED FACE IN FABRICATING, UNLOADING, SHIPPING, INSTALLING AND MAINTENANCE. REFER TO SECT 05050 BUILDING CONSTRUCTION DIVISION FOR THE TRUSS PLATE DETAIL. 260 BROADRIDGE DR., SUITE 200, WASHINGTON, VA 22202 AND VIDA CHORD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LN, NATION, VA 22050 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE 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	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

ATTACH TRUSS PLATES WITH (6) 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 6d 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.



\* PIGGYBACK SPECIAL PLATE  
ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.

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

1466 SW 4th AVENUE  
DORRIS BRIDGE, FL 33444-2161

No. 34868  
STATE OF FLORIDA

MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	09/12/07
1.33 DUR. FAC.	DRWG/ITER	STD PIGGY
60 PSF AT	—ENG	JL
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING	24.0"	

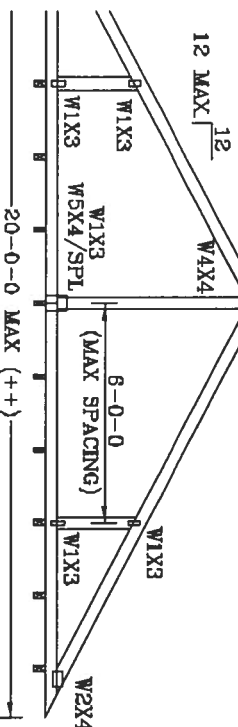
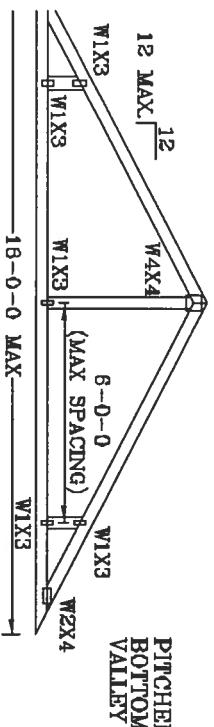
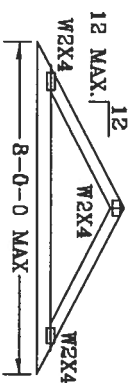
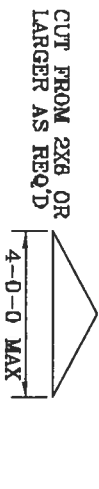
# VALLEY TRUSS DETAIL

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. 16' MEAN HEIGHT, ENCLOSED  
BUILDING, EXP. C. RESIDENTIAL, WIND TC DL=6 PSF.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "I"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.135" X 2.6") 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

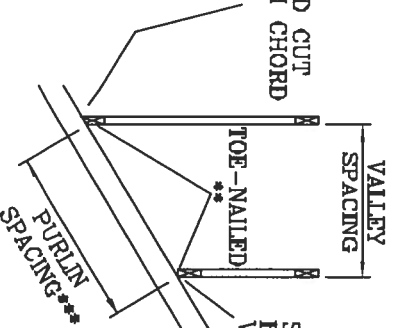
OR  
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN

BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON  
ENGINEERS' SEALED DESIGN.

\*\*\* 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".

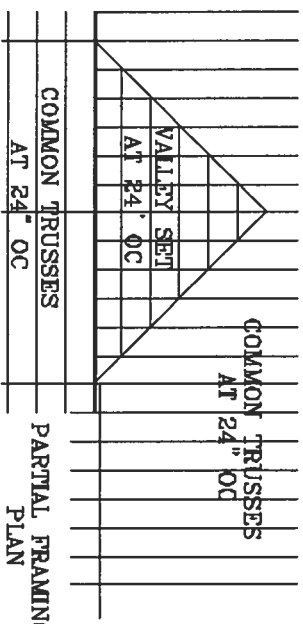
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SQUARE CUT  
BOTTOM CHORD  
VALLEY

OPTIONAL STUB  
END DETAIL

OPTIONAL HIP  
JOINT DETAIL



COMMON TRUSSES  
AT 24" OC

PARTIAL FRAMING  
PLAN

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND  
BRACING. REFER TO NEXT E-10 BUILDING DEPARTMENT SAFETY DEPARTMENT, PUBLISHED BY THE TRUSS  
PLATE INSTITUTE, 560 DUNDAS ST. E., SUITE 200, WILLOWDALE, ONT. M2H 1C9, CANADA  
OR AMERICA, 600 ENTERPRISE LN, WILSON, VT 55719 AND VIDA CYCLO TRUSS COUNCIL  
THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED  
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BRIDGELING.

JULIUS LEE'S  
CONS. ENGINEERS P.A.

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DEALT BLDG., N. 30444-0101

No. 34866  
STATE OF FLORIDA

TC IL	20	20	PSF	REF	VALLEY DETAIL
TC DL	7	15	PSF	DATE	11/26/03
BC DL	5	5	PSF	DRWG	VALTRUSS1103
BC IL	0	0	PSF	ENG	JL
TOT. LD.	32	40	PSF		
DUREFAC.	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."

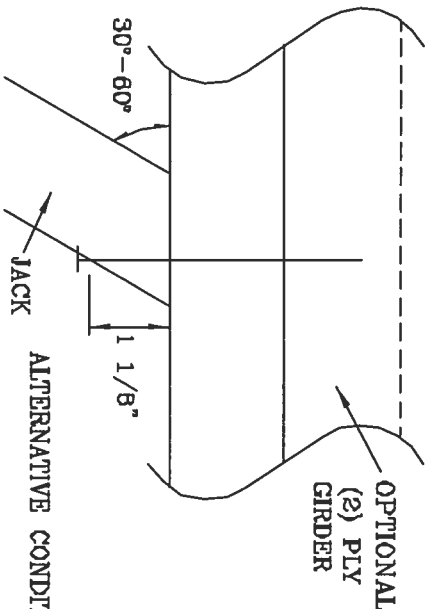
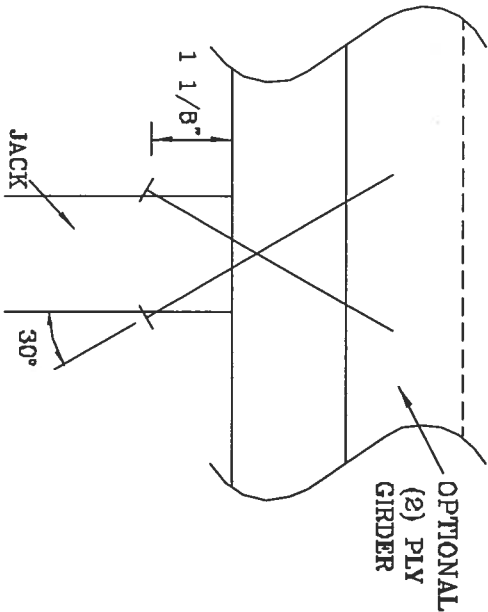
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	197#	256#	181#	234#	156#	203#	154#	189#
3	296#	383#	271#	351#	234#	304#	230#	288#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	488#

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



THIS DRAWING REPLACES DRAWING 784040

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-43 BUILDING COMPONENT SAFETY (INTERNATIONAL), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 383 YOUNGFIELD DR., SUITE 200, MARSHEN, VA 22079 AND VICA (WOOD TRUSS EDUCATIONAL MEDIA), 6800 ENTERPRISE LN., MARIETTA, VA 20139 FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. ALL TRUSSES MUST BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PERMANENT ATTACHED RIGID CEILING

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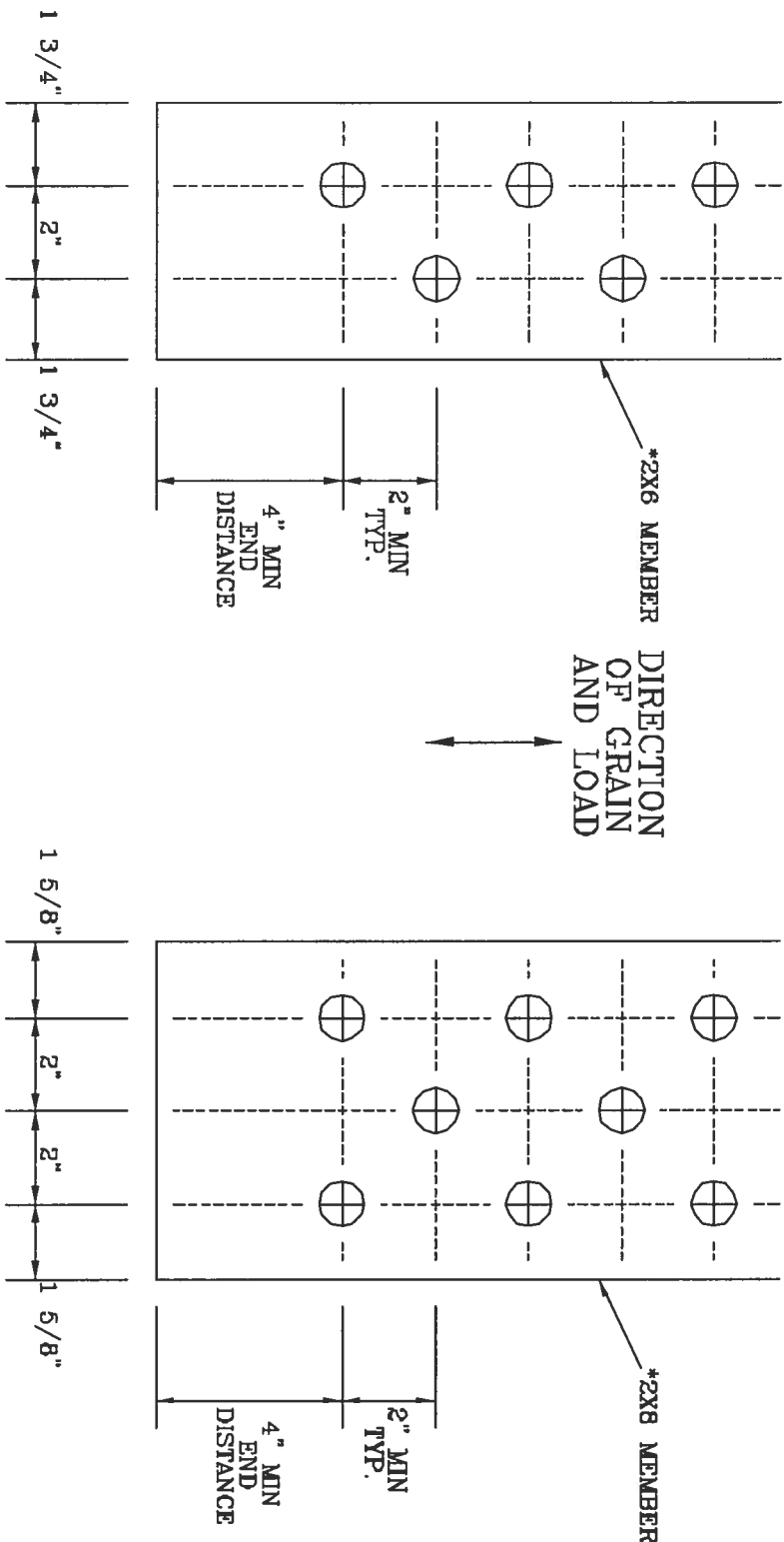
TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		

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 A626.016

VARING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-800 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURER, FOR DETAILED INSTRUCTIONS. SEE THE ALPINE DESIGN FOR THE TRUSS MANUFACTURER'S INSTRUCTIONS. THESE INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF THE TRUSS.

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No: 34689  
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTP1103
BC LL	PSF	ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

# TRULOX CONNECTION DETAIL

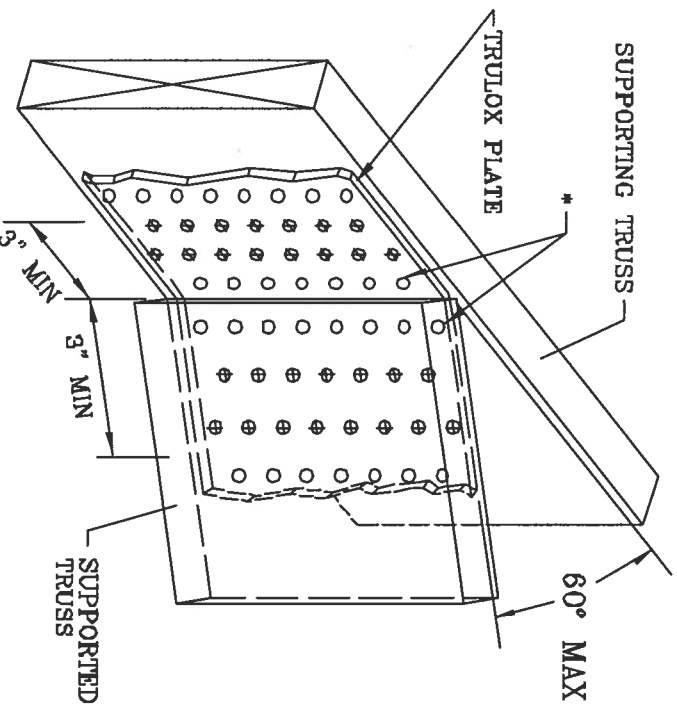
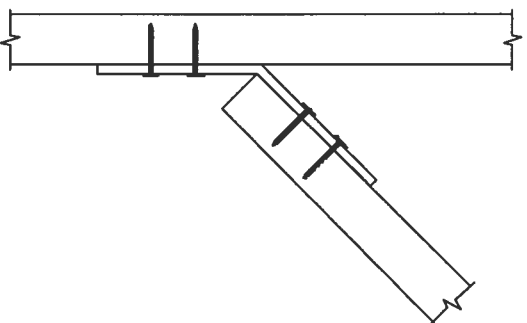
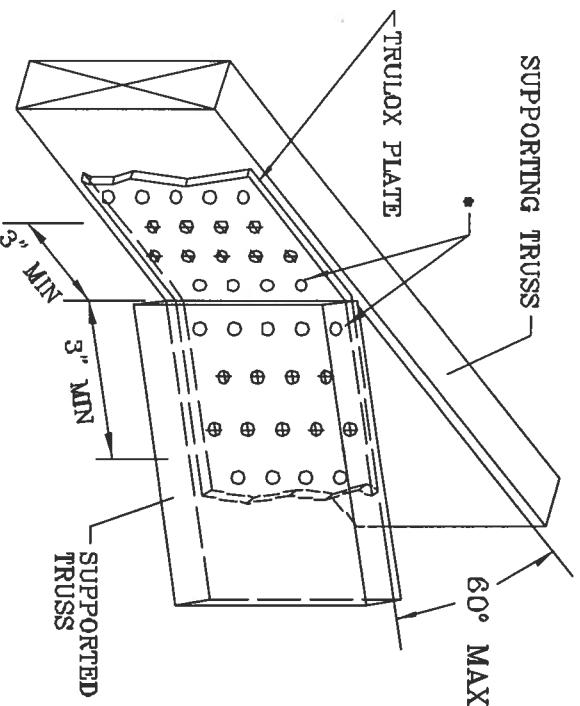
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

\* NAILS MAY BE OMITTED FROM THESE ROWS.

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.



MINIMUM 3X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	16	990#

MINIMUM 5X6 TRULOX PLATE

THIS DRAWING REPLACES DRAWINGS 1,168,988 1,168,989/R 1,164,944 1,162,217 1,162,017 1,169,154 & 1,161,524

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 3031-1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TP) (TRUSS PLATE INSTITUTE, 3842 JENNIFER DR., SUITE 200, NARISDA, VA 22770) AND VITA (WOOD TRUSS COUNCIL, 10000 WOODBURN RD., SUITE 100, WOODBURN, VA 22191) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. TRUSSES MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

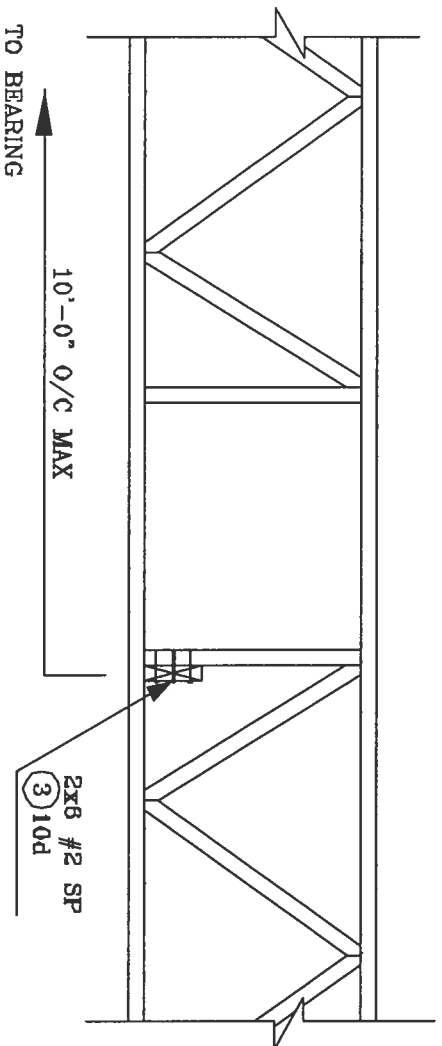
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No: 34869  
STATE OF FLORIDA

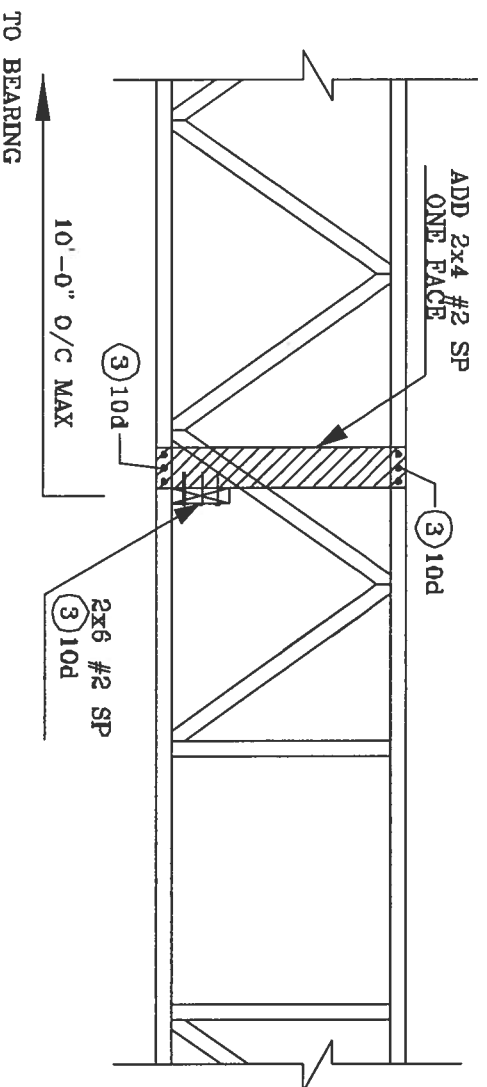
REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL



# STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



# ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



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