METZGER

Builders FirstSource

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

December 19, 2007

Project Information for: L166201

...	...
Address:	263 Southwest William Yound Lane
...	Columbia, FL
County:	Columbia
Truss Count:	39
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): 55.0 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 elelments 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	J1917975	CJ1	12/19/07	29	J1918003	T12	12/19/07
2	J1917976	CJ3	12/19/07	30	J1918004	T13	12/19/07
3	J1917977	CJ5	12/19/07	31	J1918005	T14	12/19/07
4	J1917978	EJ2	12/19/07	32	J1918006	T15	12/19/07
5	J1917979	EJ5	12/19/07	33	J1918007	T16	12/19/07
6	J1917980	EJ5A	12/19/07	34	J1918008	T17	12/19/07
7	J1917981	EJ7	12/19/07	35	J1918009	T18	12/19/07
8	J1917982	EJ8	12/19/07	36	J1918010	T19	12/19/07
9	J1917983	EJ8A	12/19/07	37	J1918011	T20	12/19/07
10	J1917984	HJ7	12/19/07	38	J1917987A	PB04_ALT	12/19/07
11	J1917985	HJ8	12/19/07	39	J1917987B	PB04_GBL	12/19/07
12	J1917986	HJ9	12/19/07				
13	J1917987	PB04	12/19/07				
14	J1917988	T01	12/19/07				
15	J1917989	T01A	12/19/07				
16	J1917990	T01B	12/19/07				
17	J1917991	T02	12/19/07				
18	J1917992	T03	12/19/07				
19	J1917993	T04	12/19/07				
20	J1917994	T05	12/19/07				
21	J1917995	T06	12/19/07				
22	J1917996	T07	12/19/07				
23	J1917997	T08	12/19/07				
24	J1917998	T09	12/19/07				
25	J1917999	T09A	12/19/07				
26	J1918000	T10	12/19/07				
27	J1918001	T11	12/19/07				
28	J1918002	T11G	12/19/07				

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	CJ1	JACK	10	1	J1917975 Job Reference (optional)

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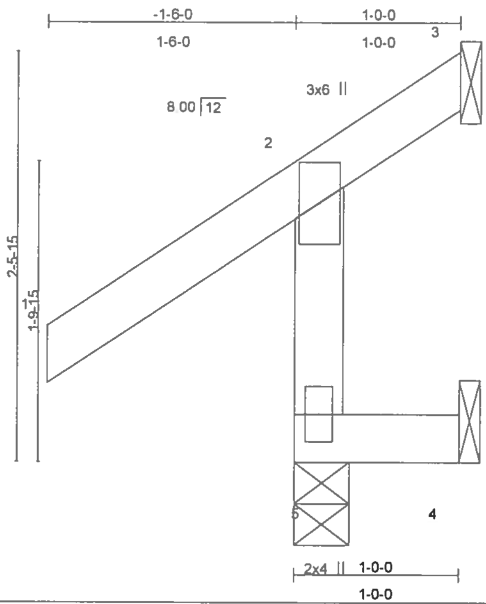
Scale = 1:13.2



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.00	5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	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 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=203/0-4-0, 4=-9/Mechanical, 3=-51/Mechanical
Max Horz 5=97(load case 6)
Max Uplift 5=-49(load case 6), 4=-73(load case 6), 3=-51(load case 1)
Max Grav 5=203(load case 1), 4=9(load case 2), 3=14(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-186/150, 1-2=0/49, 2-3=-54/7
BOT CHORD 4-5=0/0

JOINT STRESS INDEX
2 = 0.36 and 5 = 0.69

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 49 lb uplift at joint 5, 73 lb uplift at joint 4 and 51 lb uplift at joint 3.

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	CJ3	JACK	10	1	J1917976 Job Reference (optional)

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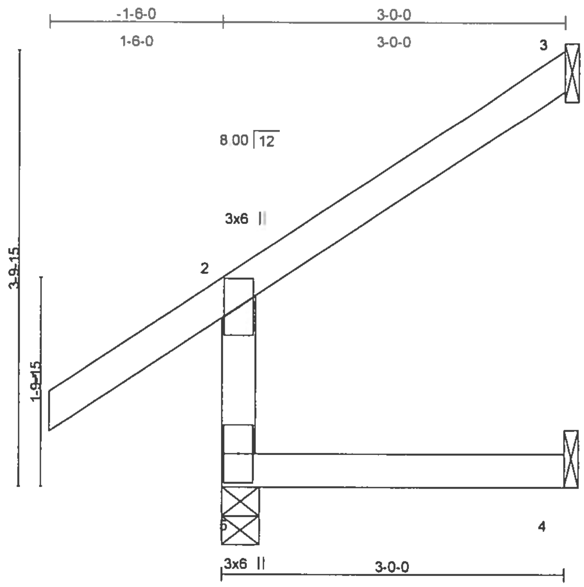

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	0.02	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.00	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.06	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 15 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=204/0-4-0, 3=52/Mechanical, 4=11/Mechanical
Max Horz 5=194(load case 6)
Max Uplift 5=-49(load case 6), 3=-93(load case 6), 4=-40(load case 6)
Max Grav 5=204(load case 1), 3=52(load case 1), 4=39(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-187/120, 1-2=0/49, 2-3=-71/21
BOT CHORD 4-5=0/0

JOINT STRESS INDEX
2 = 0.60 and 5 = 0.47

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 49 lb uplift at joint 5, 93 lb uplift at joint 3 and 40 lb uplift at joint 4.

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LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	CJ5	JACK	8	1	J1917977
					Job Reference (optional)

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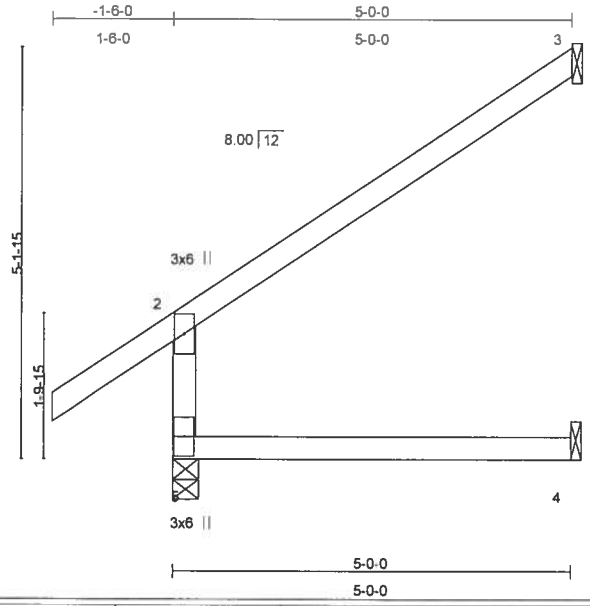

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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	0.08	4-5	>726	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.04	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.17	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 21 lb	

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

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

REACTIONS (lb/size) 5=257/0-4-0, 3=110/Mechanical, 4=28/Mechanical
Max Horz 5=255(load case 6)
Max Uplift 5=-64(load case 6), 3=-147(load case 6), 4=-33(load case 6)
Max Grav 5=257(load case 1), 3=110(load case 1), 4=68(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-238/145, 1-2=0/49, 2-3=-113/47
BOT CHORD 4-5=0/0

JOINT STRESS INDEX
2 = 0.63 and 5 = 0.74

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 64 lb uplift at joint 5, 147 lb uplift at joint 3 and 33 lb uplift at joint 4.

Continued on page 2

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Truss Design Engineer
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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
					J1917977
L166201	CJ5	JACK	8	1	Job Reference (optional)

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Ocean Isle, NC 28469

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917978
L166201	EJ2	MONO TRUSS	11	1	Job Reference (optional)

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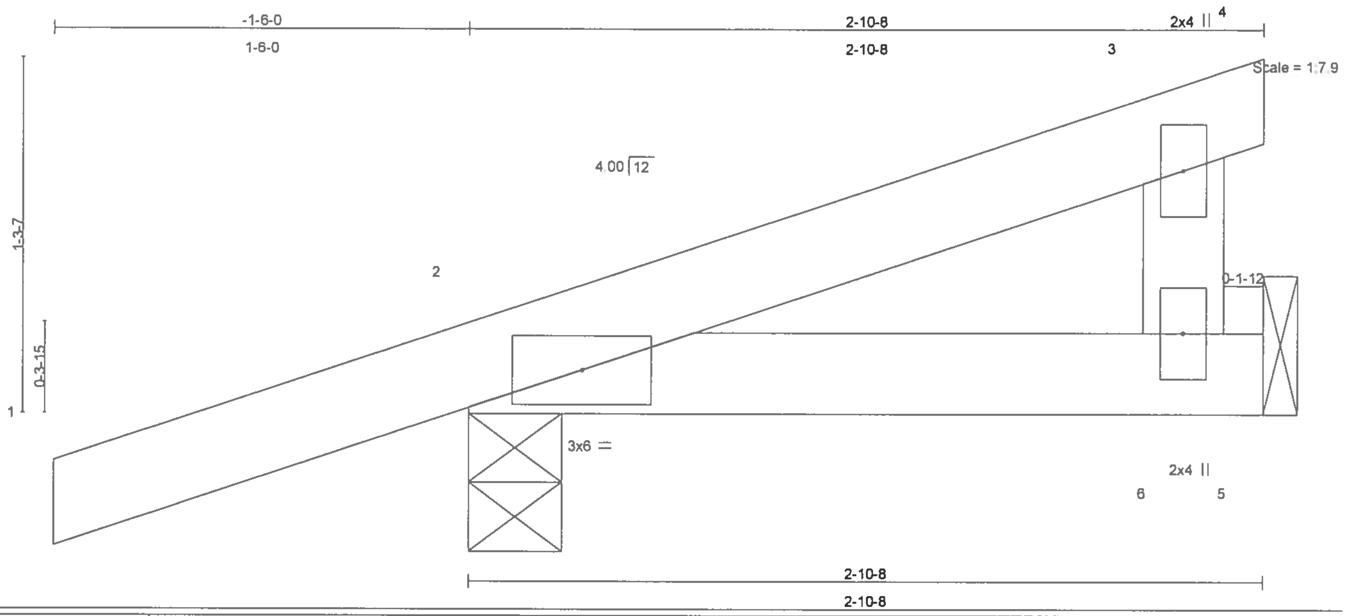

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.00	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 12 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 2-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=198/0-4-0, 6=54/Mechanical
Max Horz 2=75(load case 4)
Max Uplift 2=-188(load case 4), 6=-50(load case 7)
Max Grav 2=198(load case 1), 6=59(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-33/7, 3-4=-1/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-39/37

JOINT STRESS INDEX
2 = 0.08, 3 = 0.02 and 6 = 0.02

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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917978
L166201	EJ2	MONO TRUSS	11	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 50 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917979
L166201	EJ5	SPECIAL	4	1	Job Reference (optional)

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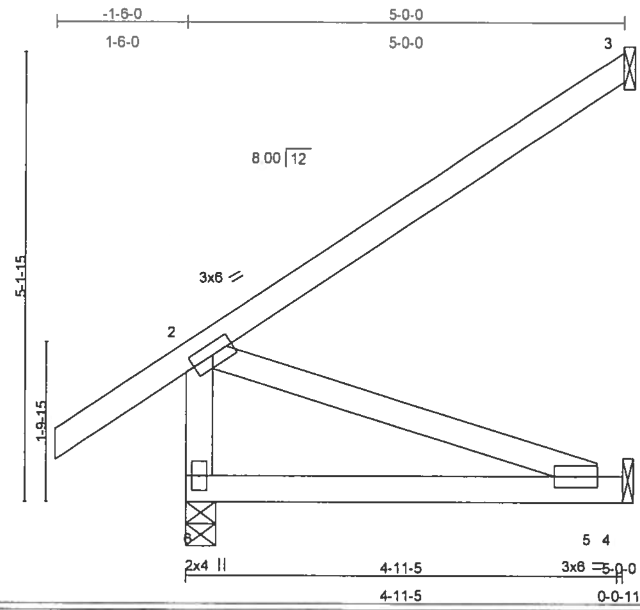

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	5-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 28 lb	

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

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

REACTIONS (lb/size) 3=114/Mechanical, 6=257/0-4-0, 4=24/Mechanical
Max Horz 4=255(load case 6)
Max Uplift 3=-115(load case 6), 6=-64(load case 6), 4=-65(load case 6)
Max Grav 3=114(load case 1), 6=257(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-94/49, 2-6=-234/84
BOT CHORD 5-6=-18/38, 4-5=-28/319
WEBS 2-5=-11/298

JOINT STRESS INDEX
2 = 0.13, 5 = 0.08 and 6 = 0.08

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

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	EJ5	SPECIAL	4	1	J1917979
					Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 3, 64 lb uplift at joint 6 and 65 lb uplift at joint 4.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1326 Coastal Bay Blvd
Ocean Isle Beach, NC 28469

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917980
L166201	EJ5A	SPECIAL	1	1	Job Reference (optional)

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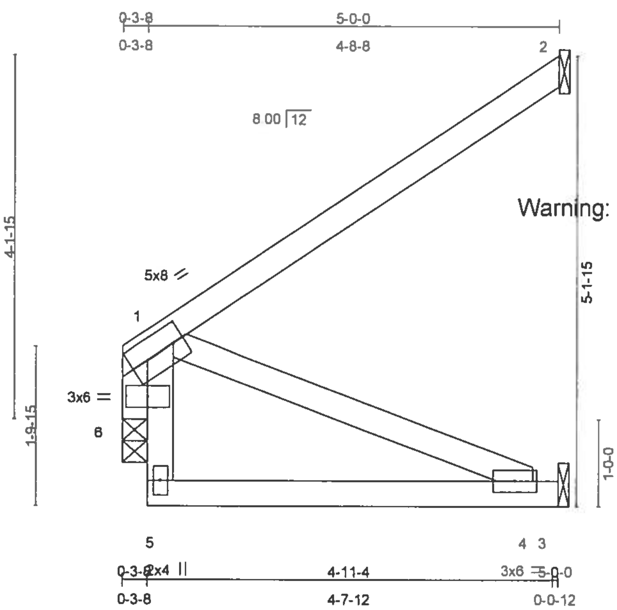

Scale = 1:24.9

Warning: This truss has not been designed to support any additional load from conventional framing.

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.04	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.19	Horz(TL)	-0.00	2	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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=125/Mechanical, 3=18/Mechanical, 6=152/0-3-8
Max Horz 6=143(load case 6)
Max Uplift 2=-135(load case 6), 3=-12(load case 6), 6=-1(load case 6)
Max Grav 2=125(load case 1), 3=66(load case 2), 6=152(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-103/56
BOT CHORD 4-5=-77/4, 3-4=0/0
WEBS 5-6=0/67, 1-6=-130/30, 1-4=-4/83

JOINT STRESS INDEX
1 = 0.09, 4 = 0.02, 5 = 0.06, 6 = 0.00 and 6 = 0.08

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.

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NOTES

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 6 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 135 lb uplift at joint 2, 12 lb uplift at joint 3 and 1 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	EJ7	MONO TRUSS	6	1	J1917981
					Job Reference (optional)

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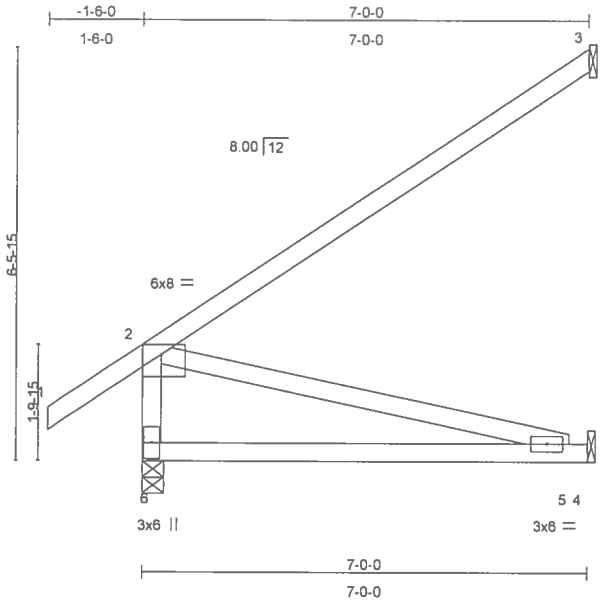

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Plate Offsets (X,Y): [2:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.66	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.11	5-6	>763	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 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 9-5-11 oc bracing.

REACTIONS (lb/size) 3=144/Mechanical, 6=317/0-4-0, 4=63/Mechanical
Max Horz 6=238(load case 6)
Max Uplift 3=-101(load case 6), 6=-42(load case 6), 4=-46(load case 6)
Max Grav 3=144(load case 1), 6=317(load case 1), 4=110(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-124/59, 2-6=-272/106
BOT CHORD 5-6=-447/163, 4-5=0/0
WEBS 2-5=-168/460

JOINT STRESS INDEX
2 = 0.47, 5 = 0.13 and 6 = 0.40

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; 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

[illegible]
Truss Design Engineer
[illegible]
[illegible]
[illegible]

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NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 3, 42 lb uplift at joint 6 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	EJ8	MONO TRUSS	13	1	J1917982
					Job Reference (optional)

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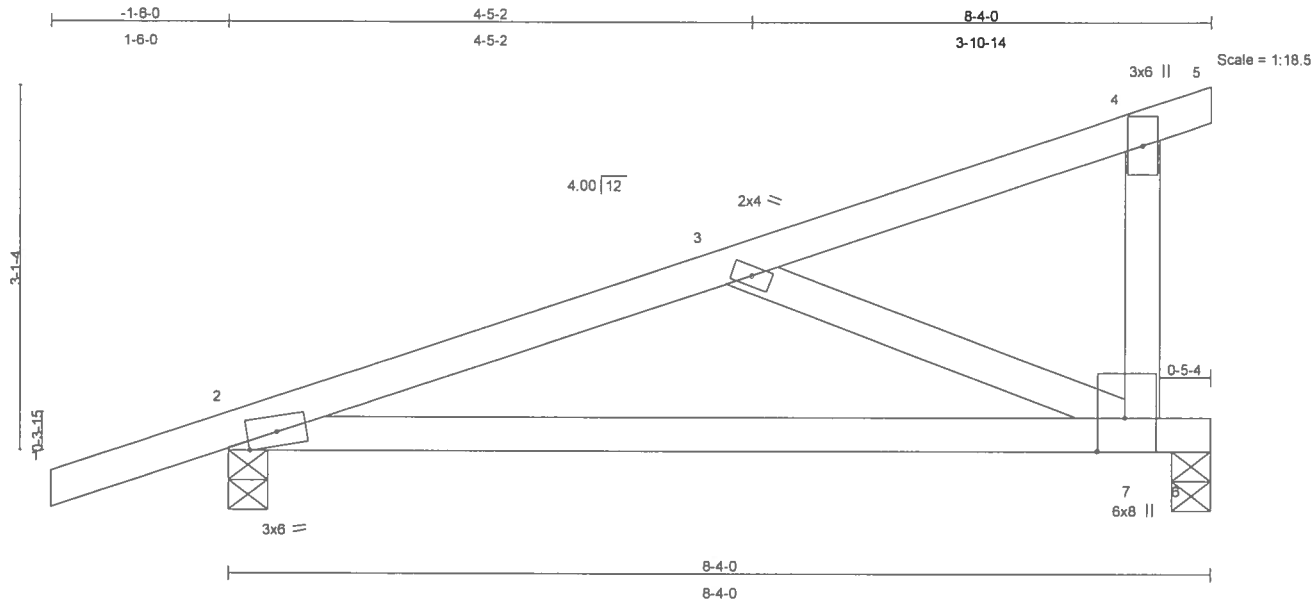

Plate Offsets (X,Y): [7:0-3-7,0-2-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	0.23	2-7	>426	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.13	2-7	>768	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.01	6	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.1D
WEBS 2 X 4 SYP No.2 *Except*
3-7 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 8-6-10 oc bracing.

REACTIONS (lb/size) 2=355/0-4-0, 6=256/0-4-0
Max Horz 2=113(load case 4)
Max Uplift 2=-234(load case 4), 6=-179(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-398/418, 3-4=-99/133, 4-5=-10/0, 4-7=-104/101
BOT CHORD 2-7=-538/343, 6-7=0/0
WEBS 3-7=-299/391

JOINT STRESS INDEX
2 = 0.69, 3 = 0.18, 4 = 0.33 and 7 = 0.54

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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Continued on page 2

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Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917982
L166201	EJ8	MONO TRUSS	13	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 2 and 179 lb uplift at joint 6.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	EJ8A	MONO TRUSS	2	1	J1917983 Job Reference (optional)

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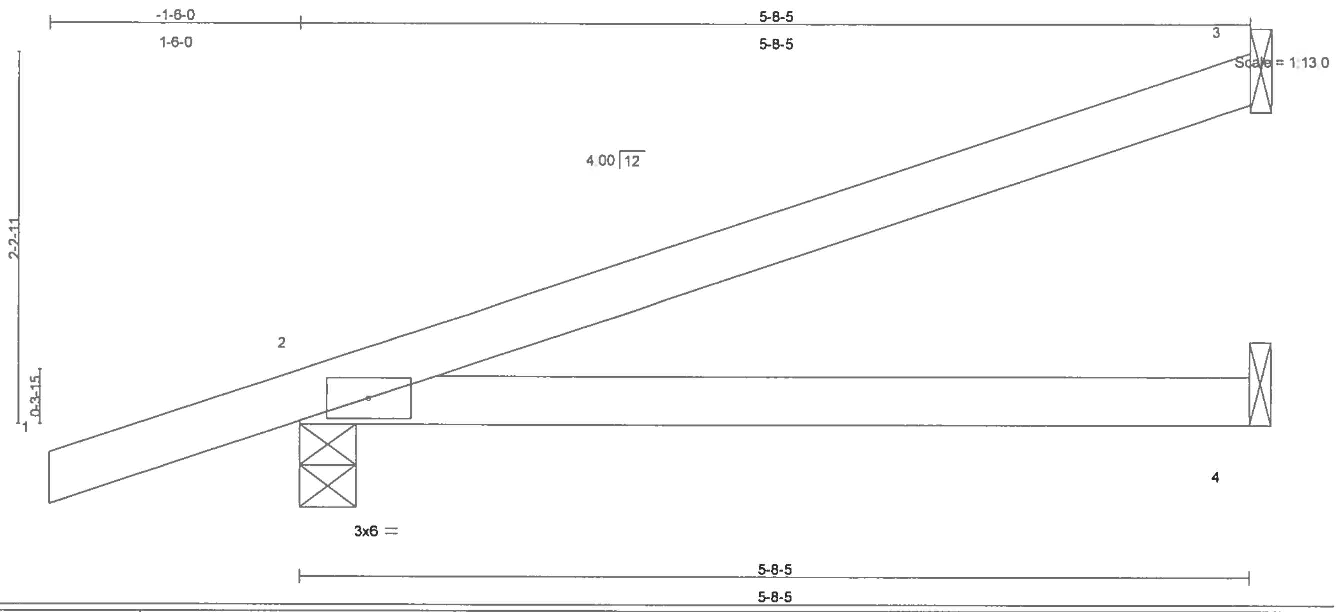

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	0.15	2-4	>449	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.08	2-4	>801	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

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

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

REACTIONS (lb/size) 3=134/Mechanical, 2=279/0-4-0, 4=27/Mechanical
Max Horz 2=118(load case 4)
Max Uplift 3=-103(load case 4), 2=-249(load case 4), 4=-52(load case 4)
Max Grav 3=134(load case 1), 2=279(load case 1), 4=82(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-70/34
BOT CHORD 2-4=0/0

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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 3, 249 lb uplift at joint 2 and 52 lb uplift at joint 4.

Continued on page 2

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LOAD CASE(S) Standard

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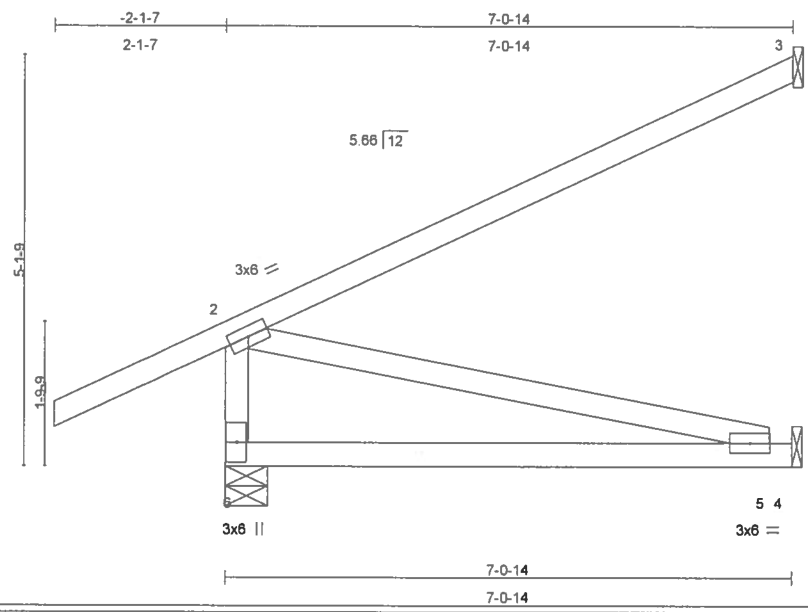
Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	HJ7	JACK	1	1	J1917984 Job Reference (optional)



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.11	5-6	>750	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.09	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 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 7-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=277/0-6-7, 3=185/Mechanical, 4=56/Mechanical
Max Horz 6=237(load case 5)
Max Uplift 6=-114(load case 5), 3=-173(load case 5), 4=-30(load case 5)
Max Grav 6=277(load case 1), 3=185(load case 1), 4=114(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-6=-248/128, 1-2=0/52, 2-3=-96/52
BOT CHORD 5-6=-225/107, 4-5=0/0
WEBS 2-5=-110/232

JOINT STRESS INDEX
2 = 0.69, 5 = 0.06 and 6 = 0.38

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 114 lb uplift at joint 6, 173 lb uplift at joint 3 and 30 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917984
L166201	HJ7	JACK	1	1	Job Reference (optional)

NOTES

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-3=-95(F=-21, B=-21), 6=0(F=5, B=5)-to-4=-18(F=-4, B=-4)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	HJ8	MONO TRUSS	2	1	J1917985
					Job Reference (optional)

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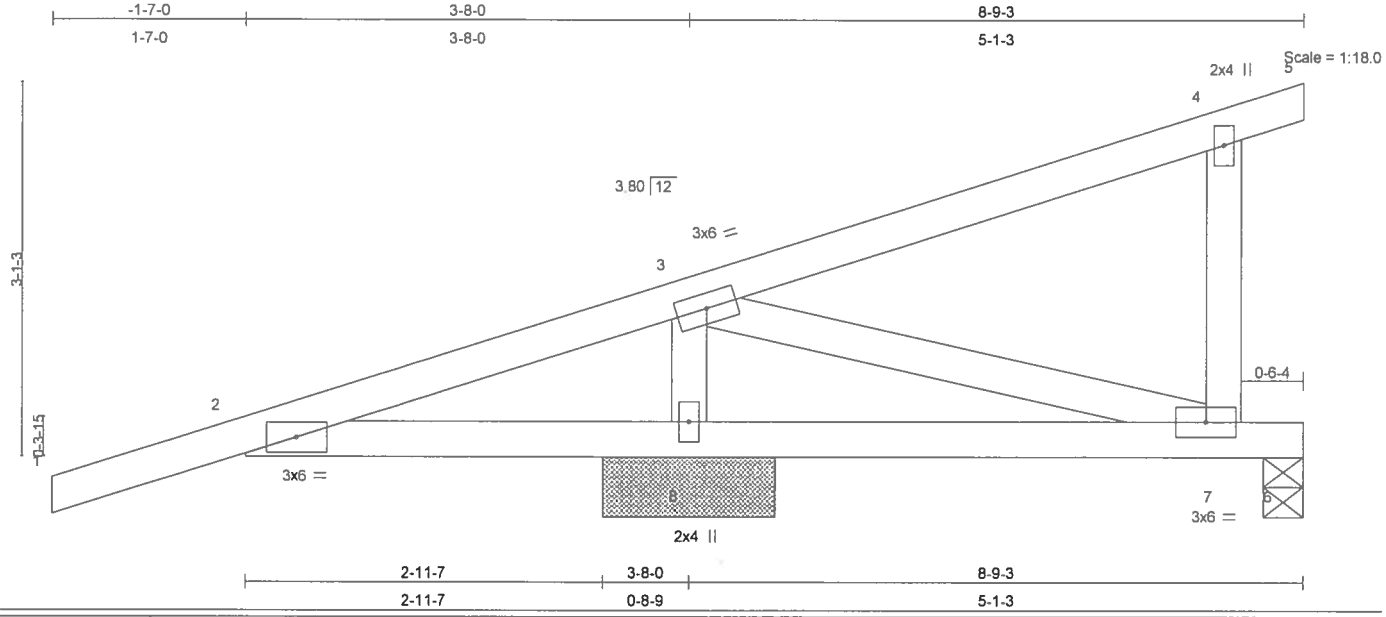

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	0.06	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.04	7-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.10	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 40 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) 6=179/0-4-0, 8=493/1-5-2
Max Horz 8=164(load case 3)
Max Uplift 6=-218(load case 6), 8=-458(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-413/327, 3-4=-78/37, 4-5=-22/0
BOT CHORD 2-8=-287/422, 7-8=-287/258, 6-7=0/0
WEBS 3-7=-267/297, 3-8=-419/351, 4-7=-242/193

JOINT STRESS INDEX
2 = 0.25, 3 = 0.20, 4 = 0.11, 7 = 0.17 and 8 = 0.20

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; cantilever left exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) 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 218 lb uplift at joint 6 and 458 lb uplift at joint 8.
5) 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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Builders FirstSource

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=0(F=27, B=27)-to-5=-113(F=-30, B=-30), 2=0(F=5, B=5)-to-6=-21(F=-5, B=-5)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917986
L166201	HJ9	MONO TRUSS	4	1	Job Reference (optional)

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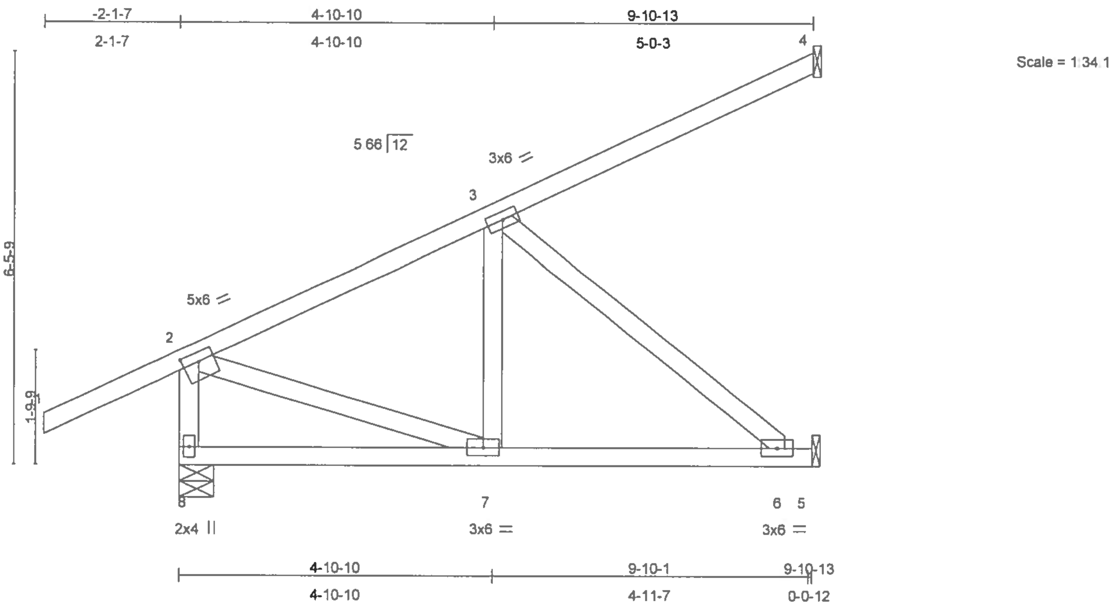

Plate Offsets (X,Y): [2:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	0.03	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.07	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.24	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 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 6-0-0 oc bracing.

REACTIONS (lb/size) 8=399/0-6-7, 4=238/Mechanical, 5=263/Mechanical
Max Horz 8=382(load case 5)
Max Uplift 8=-121(load case 5), 4=-241(load case 5), 5=-178(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-404/135, 1-2=0/52, 2-3=-332/6, 3-4=-136/74
BOT CHORD 7-8=-241/0, 6-7=-272/291, 5-6=0/0
WEBS 2-7=-42/386, 3-7=-17/143, 3-6=-378/354

JOINT STRESS INDEX
2 = 0.70, 3 = 0.19, 6 = 0.13, 7 = 0.21 and 8 = 0.36

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 121 lb uplift at joint 8, 241 lb uplift at joint 4 and 178 lb uplift at joint 5.

Continued on page 2

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NOTES

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-4=-134(F=-40, B=-40), 8=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	PB04	PIGGYBACK	19	1	J1917987 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Dec 18 15:20:36 2007 Page 1

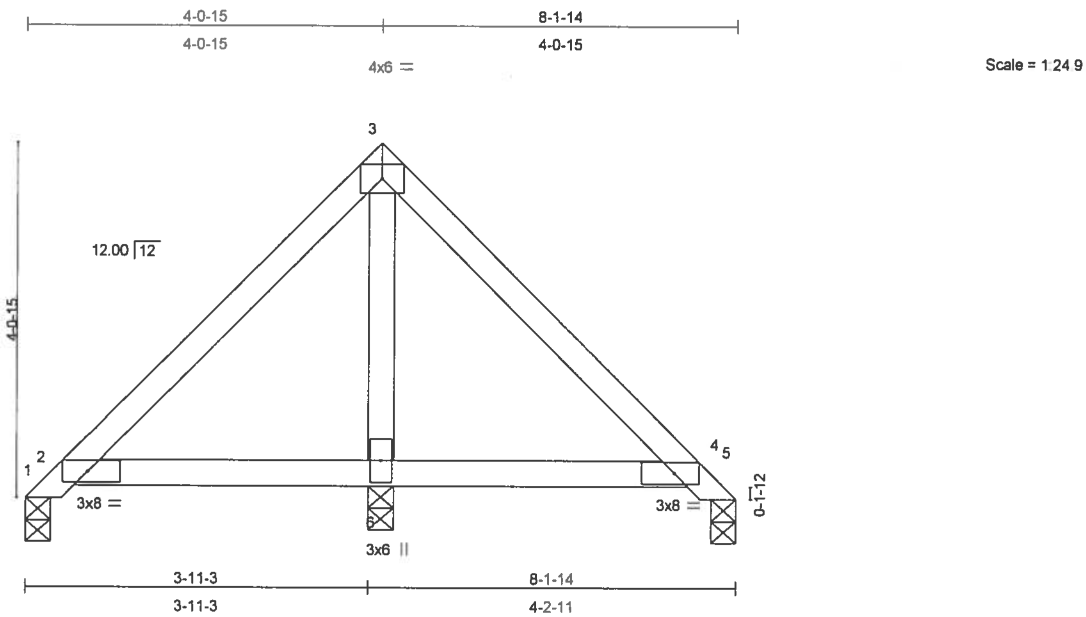

Plate Offsets (X,Y): [2:0-4-8,0-1-8], [4:0-4-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	4-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 32 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=42/0-3-8, 5=42/0-3-8, 6=421/0-3-8
Max Horz 1=-109(load case 4)
Max Uplift 1=-17(load case 4), 5=-17(load case 4), 6=-128(load case 6)
Max Grav 1=68(load case 10), 5=68(load case 11), 6=421(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-106/100, 2-3=-85/166, 3-4=-85/166, 4-5=-41/15
BOT CHORD 2-6=-62/151, 4-6=-62/151
WEBS 3-6=-342/264

JOINT STRESS INDEX
2 = 0.26, 3 = 0.23, 4 = 0.26 and 6 = 0.09

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) *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) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 17 lb uplift at joint 5 and 128 lb uplift at joint 6.

7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

[illegible]

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917988
L166201	T01	MONO HIP	1	1	Job Reference (optional)

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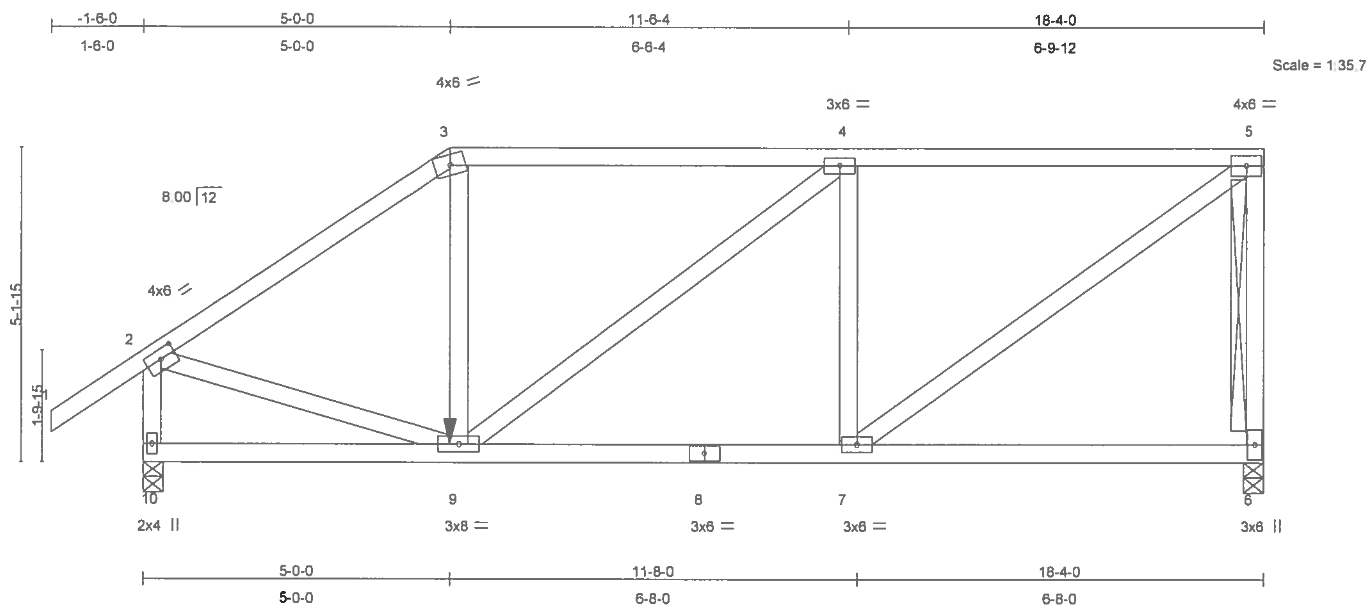

Plate Offsets (X,Y): [2:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.75	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.09	7-9	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.57	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 112 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 5-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-6
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) 6=982/0-4-0, 10=1010/0-4-0
Max Horz 10=198(load case 5)
Max Uplift 6=-441(load case 3), 10=-366(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1029/409, 3-4=-812/378, 4-5=-945/418, 5-6=-920/464, 2-10=-988/378
BOT CHORD 9-10=-161/49, 8-9=-418/945, 7-8=-418/945, 6-7=-26/58
WEBS 3-9=-35/187, 4-9=-169/130, 4-7=-543/367, 5-7=-486/1099, 2-9=-381/837

JOINT STRESS INDEX
2 = 0.70, 3 = 0.65, 4 = 0.34, 5 = 0.70, 6 = 0.29, 7 = 0.63, 8 = 0.38, 9 = 0.74 and 10 = 0.43

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NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical 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 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 441 lb uplift at joint 6 and 366 lb uplift at joint 10.
6) 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: 1-2=-54, 2-3=-54, 3-5=-90(F=-36), 9-10=-10, 6-9=-17(F=-7)
   Concentrated Loads (lb)
   Vert: 9=-187(F)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T01A	HIP	1	1	J1917989 Job Reference (optional)

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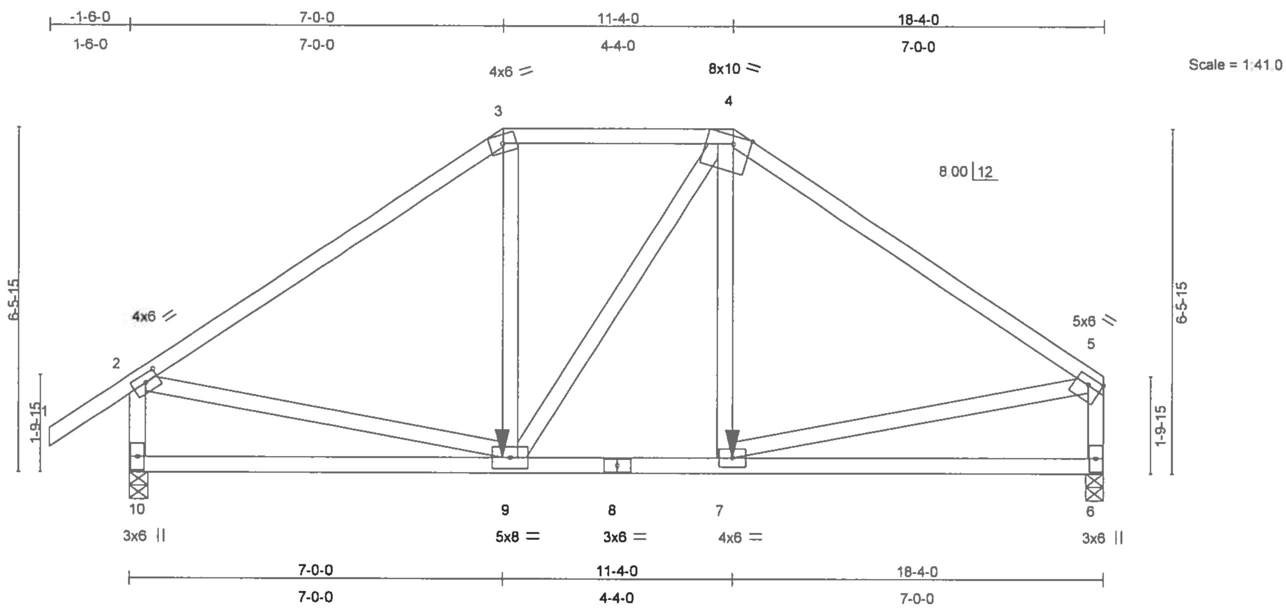

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [4:0-4-0,Edge], [5:Edge,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.74	Vert(LL)	-0.05	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.09	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.47	Horz(TL)	-0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 114 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-15 oc bracing.

REACTIONS (lb/size) 6=1144/0-4-0, 10=1241/0-4-0
Max Horz 6=186(load case 4)
Max Uplift 6=-469(load case 6), 10=-535(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-1382/606, 3-4=-1068/568, 1-2=0/49, 2-3=-1380/609, 5-6=-1101/485, 2-10=-1200/553
BOT CHORD 9-10=-18/123, 8-9=-540/1070, 7-8=-540/1070, 6-7=-181/227
WEBS 4-7=-127/283, 4-9=-115/113, 3-9=-186/361, 2-9=-533/963, 5-7=-526/924

JOINT STRESS INDEX
2 = 0.70, 3 = 0.70, 4 = 0.65, 5 = 0.70, 6 = 0.37, 7 = 0.41, 8 = 0.39, 9 = 0.45 and 10 = 0.36

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

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T01A	HIP	1	1	J1917989 Job Reference (optional)

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 469 lb uplift at joint 6 and 535 lb uplift at joint 10.
7) Girder carries hip end with 7-0-0 end setback.
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: 4-5=-54, 3-4=-117(F=-63), 1-2=-54, 2-3=-54, 9-10=-10, 7-9=-22(F=-12), 6-7=-10
   Concentrated Loads (lb)
      Vert: 7=-411(F) 9=-411(F)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T01B	MONO HIP	1	1	J1917990
					Job Reference (optional)

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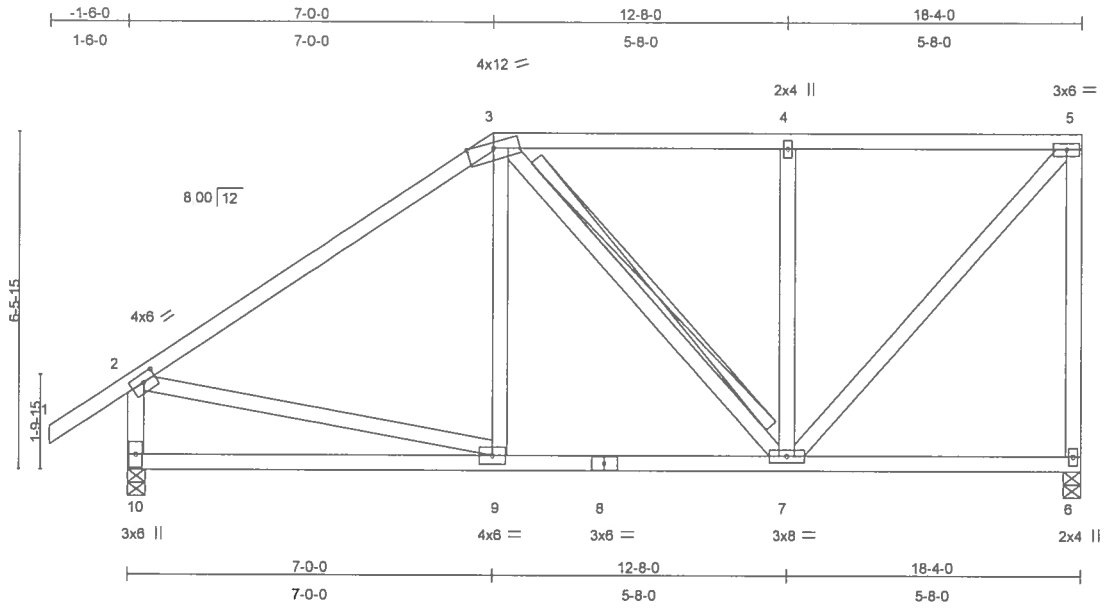

Plate Offsets (X,Y): [2:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.63	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.08	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.39	Horz(TL)	-0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 122 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 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 - 3-7
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) 6=573/0-4-0, 10=670/0-4-0
Max Horz 10=240(load case 6)
Max Uplift 6=-171(load case 5), 10=-154(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-615/262, 3-4=-379/231, 4-5=-379/231, 5-6=-542/348, 2-10=-632/345
BOT CHORD 9-10=-352/115, 8-9=-302/425, 7-8=-302/425, 6-7=-10/17
WEBS 3-9=-10/147, 3-7=-74/105, 4-7=-306/211, 5-7=-333/543, 2-9=-112/318

JOINT STRESS INDEX
2 = 0.73, 3 = 0.94, 4 = 0.33, 5 = 0.47, 6 = 0.45, 7 = 0.56, 8 = 0.16, 9 = 0.28 and 10 = 0.33

[illegible]

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Continued on 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; 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) 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 171 lb uplift at joint 6 and 154 lb uplift at joint 10.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917991
L166201	T02	HIP	2	1	Job Reference (optional)

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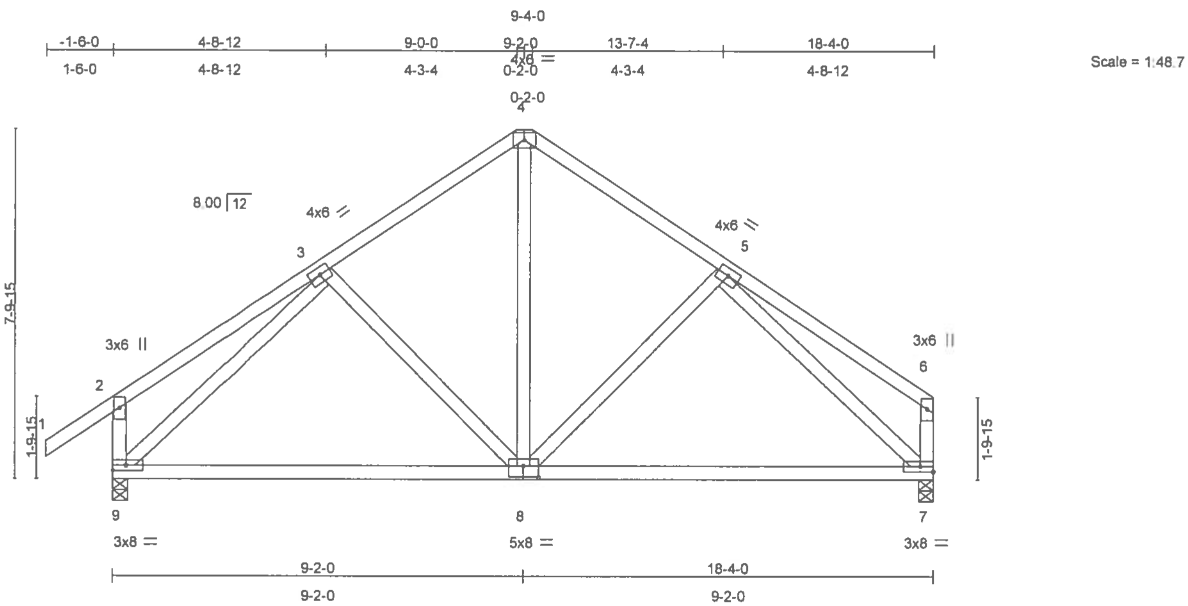

Plate Offsets (X,Y): [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.09	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.16	8-9	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 114 lb	

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

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

REACTIONS (lb/size) 9=670/0-4-0, 7=573/0-4-0
Max Horz 9=226(load case 5)
Max Uplift 9=-182(load case 6), 7=-117(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-168/175, 3-4=-497/319, 4-5=-497/320, 5-6=-181/116, 2-9=-255/267, 6-7=-184/133
BOT CHORD 8-9=-182/421, 7-8=-179/431
WEBS 3-8=-125/171, 5-8=-138/167, 3-9=-517/160, 5-7=-481/220, 4-8=-182/284

JOINT STRESS INDEX
2 = 0.26, 3 = 0.26, 4 = 0.34, 5 = 0.26, 6 = 0.25, 7 = 0.53, 8 = 0.55 and 9 = 0.53

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 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.

Continued on page 2

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NOTES

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 182 lb uplift at joint 9 and 117 lb uplift at joint 7.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917992
L166201	T03	COMMON	1	1	Job Reference (optional)

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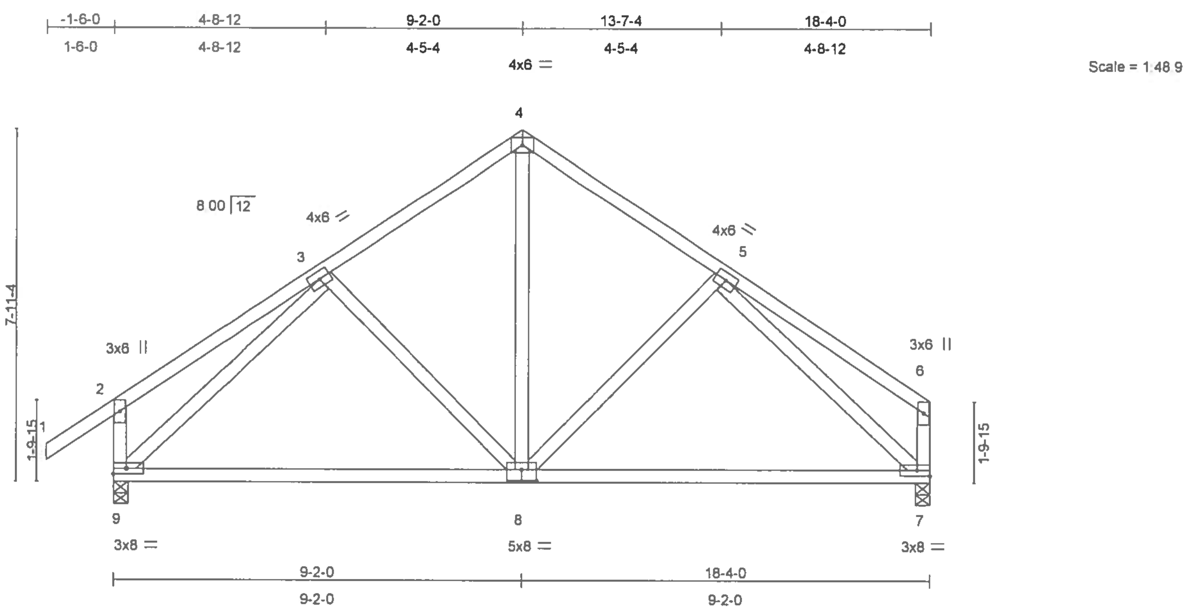

Plate Offsets (X,Y): [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.16	8-9	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 115 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) 9=670/0-4-0, 7=573/0-4-0
Max Horz 9=226(load case 5)
Max Uplift 9=-182(load case 6), 7=-117(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-168/175, 3-4=-497/319, 4-5=-497/320, 5-6=-181/116, 2-9=-255/267, 6-7=-184/133
BOT CHORD 8-9=-182/421, 7-8=-179/431
WEBS 3-8=-125/171, 4-8=-182/284, 5-8=-138/167, 3-9=-517/160, 5-7=-481/220

JOINT STRESS INDEX
2 = 0.26, 3 = 0.26, 4 = 0.34, 5 = 0.26, 6 = 0.25, 7 = 0.53, 8 = 0.55 and 9 = 0.53

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 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.

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NOTES

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 182 lb uplift at joint 9 and 117 lb uplift at joint 7.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917993
L166201	T04	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:48 2007 Page 1

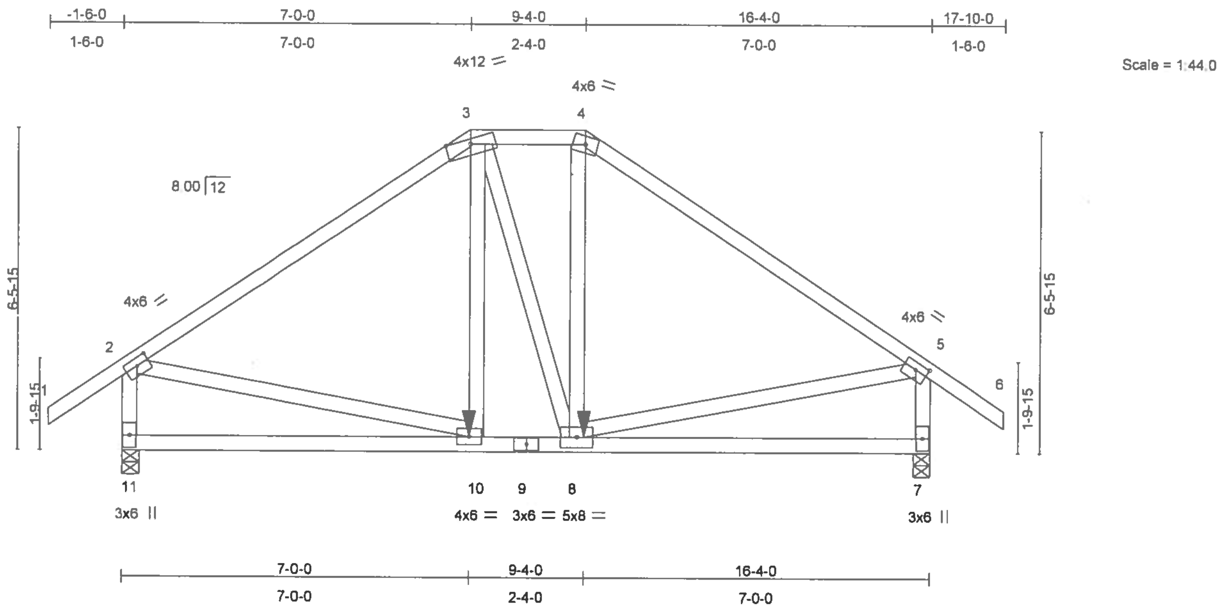

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [5:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.09	10-11	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.40	Horz(TL)	0.01	7	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 5-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-4 oc bracing.

REACTIONS (lb/size) 11=1098/0-4-0, 7=1098/0-4-0
Max Horz 11=190(load case 4)
Max Uplift 11=-481(load case 5), 7=-481(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1183/542, 3-4=-902/505, 4-5=-1185/543, 5-6=0/49, 2-11=-1055/499, 5-7=-1056/500
BOT CHORD 10-11=-214/220, 9-10=-451/900, 8-9=-451/900, 7-8=-26/132
WEBS 3-10=-163/296, 3-8=-145/140, 4-8=-260/408, 2-10=-438/778, 5-8=-444/783

JOINT STRESS INDEX
2 = 0.74, 3 = 0.86, 4 = 0.56, 5 = 0.73, 7 = 0.36, 8 = 0.37, 9 = 0.29, 10 = 0.35 and 11 = 0.36

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 left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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NOTES

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 481 lb uplift at joint 11 and 481 lb uplift at joint 7.
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: 1-2=-54, 2-3=-54, 3-4=-117(F=-63), 4-5=-54, 5-6=-54, 10-11=-10, 8-10=-22(F=-12), 7-8=-10

Concentrated Loads (lb)

Vert: 10=-411(F) 8=-411(F)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917994
L166201	T05	COMMON	1	1	Job Reference (optional)

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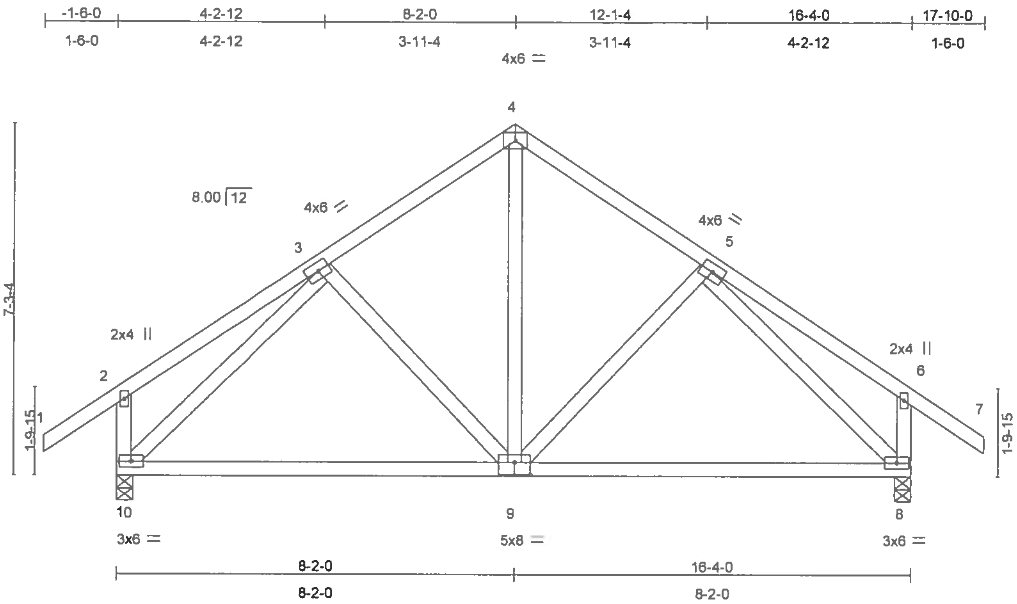

Plate Offsets (X,Y): [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.06	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.10	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 106 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) 10=602/0-4-0, 8=602/0-4-0
Max Horz 10=-211(load case 4)
Max Uplift 10=-171(load case 6), 8=-171(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-133/162, 3-4=-424/291, 4-5=-424/291, 5-6=-133/162, 6-7=0/49, 2-10=-231/255, 6-8=-231/255
BOT CHORD 9-10=-131/351, 8-9=-22/351
WEBS 3-9=-100/147, 4-9=-164/241, 5-9=-100/147, 3-10=-454/139, 5-8=-454/139

JOINT STRESS INDEX
2 = 0.40, 3 = 0.26, 4 = 0.29, 5 = 0.26, 6 = 0.40, 8 = 0.60, 9 = 0.44 and 10 = 0.60

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; 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.

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Continued on page 2

NOTES

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 171 lb uplift at joint 10 and 171 lb uplift at joint 8.

LOAD CASE(S) Standard

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T06	SPECIAL	1	1	J1917995
					Job Reference (optional)

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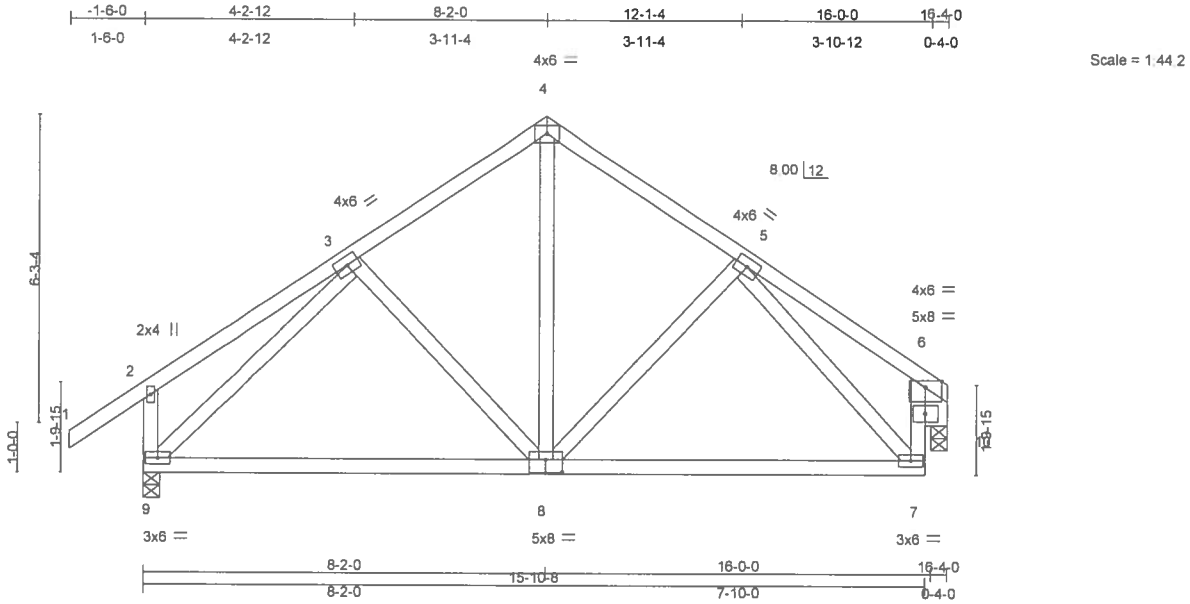

Plate Offsets (X,Y): [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.08	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.15	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.30	Horz(TL)	-0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 105 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 6 SYP No.1D

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) 9=592/0-4-0, 10=502/0-4-0
Max Horz 10=207(load case 5)
Max Uplift 9=-175(load case 6), 10=-103(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-414/288, 5-6=-58/133, 1-2=0/49, 2-3=-125/163, 3-4=-412/286, 2-9=-228/255
BOT CHORD 8-9=-19/342, 7-8=-102/323
WEBS 5-8=-81/149, 4-8=-163/234, 3-8=-102/149, 3-9=-446/133, 7-10=-112/427, 6-10=-75/109, 5-7=-516/168

JOINT STRESS INDEX
2 = 0.40, 3 = 0.26, 4 = 0.27, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.48, 9 = 0.56, 10 = 0.00 and 10 = 0.20

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 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.

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917995
L166201	T06	SPECIAL	1	1	Job Reference (optional)

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NOTES

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) Bearing at joint(s) 10 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 175 lb uplift at joint 9 and 103 lb uplift at joint 10.

LOAD CASE(S) Standard

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE	J1917996
L166201	T07	SPECIAL	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:50 2007 Page 1

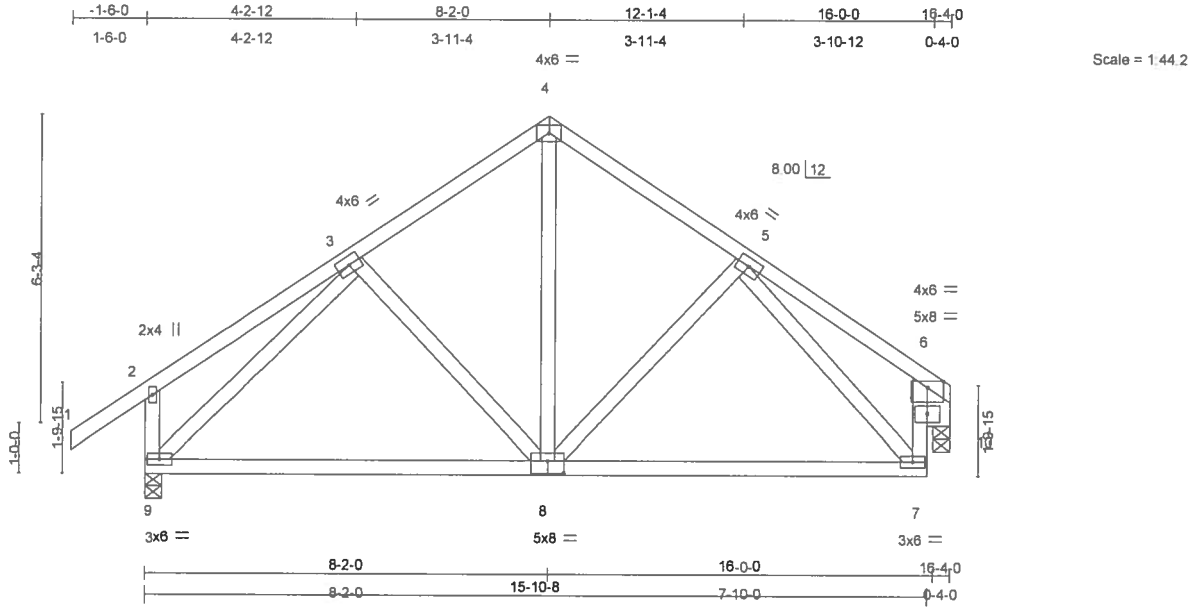

Plate Offsets (X,Y): [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.08	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.15	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.30	Horz(TL)	-0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 105 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 6 SYP No.1D

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) 9=592/0-4-0, 10=502/0-4-0
Max Horz 10=207(load case 5)
Max Uplift 9=-175(load case 6), 10=-103(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-414/288, 5-6=-58/133, 1-2=0/49, 2-3=-125/163, 3-4=-412/286, 2-9=-228/255
BOT CHORD 8-9=-19/342, 7-8=-102/323
WEBS 5-8=-81/149, 4-8=-163/234, 3-8=-102/149, 3-9=-446/133, 7-10=-112/427, 6-10=-75/109, 5-7=-516/168

JOINT STRESS INDEX
2 = 0.40, 3 = 0.27, 4 = 0.27, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.48, 9 = 0.56, 10 = 0.00 and 10 = 0.20

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 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.

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T07	SPECIAL	4	1	J1917996 Job Reference (optional)

NOTES

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) Bearing at joint(s) 10 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 175 lb uplift at joint 9 and 103 lb uplift at joint 10.

LOAD CASE(S) Standard

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917997
L166201	T08	SPECIAL	1	1	Job Reference (optional)

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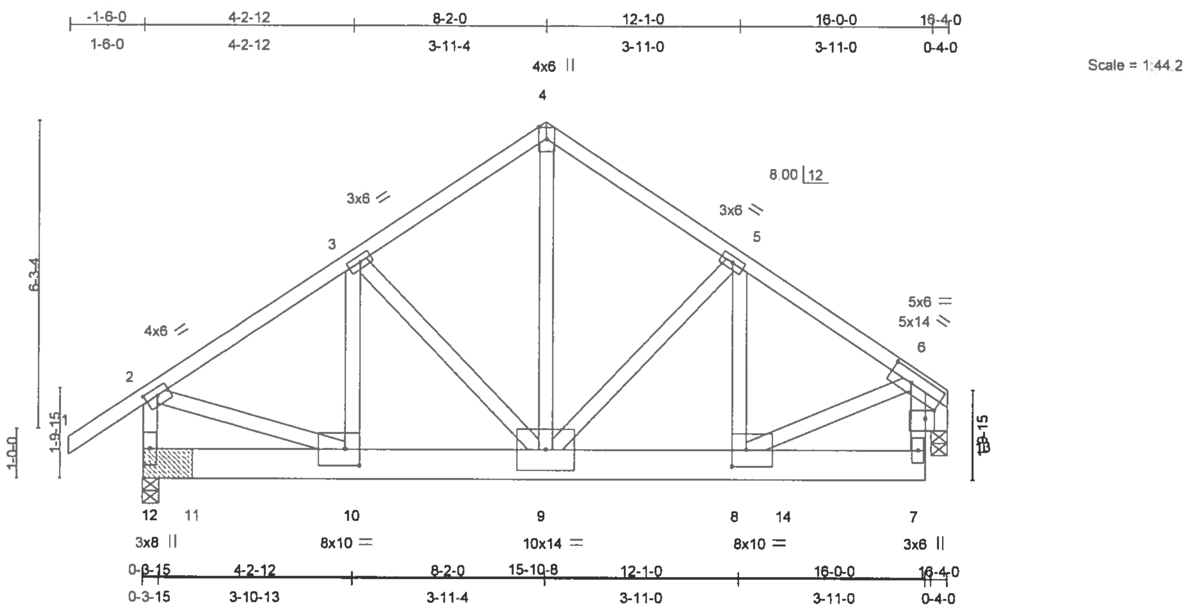

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [6:0-5-8,0-2-8], [8:0-3-8,0-4-0], [10:0-3-8,0-4-0], [13:0-2-2,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	-0.06	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.12	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 137 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
2-12 2 X 4 SYP No.2
OTHERS 2 X 6 SYP No.1D

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-8.

REACTIONS (lb/size) 12=3774/0-4-7 (0-4-0 + bearing block), 13=2736/0-4-0
Max Horz 12=203(load case 4)
Max Uplift 12=-1106(load case 5), 13=-761(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 4-5=-2623/800, 5-6=-2757/784, 1-2=0/49, 2-3=-3309/947, 3-4=-2607/799, 2-12=-2883/865
BOT CHORD 11-12=-257/267, 10-11=-257/267, 9-10=-805/2686, 8-9=-621/2261, 8-14=-237/67, 7-14=-237/67
WEBS 7-13=-1/59, 6-13=-2695/762, 4-9=-792/2602, 3-9=-824/315, 5-9=-212/136, 3-10=-257/847, 5-8=-30/87, 2-10=-672/2567, 6-8=-750/2726

JOINT STRESS INDEX

2 = 0.95, 3 = 0.63, 4 = 0.60, 5 = 0.41, 6 = 0.96, 7 = 0.15, 8 = 0.42, 9 = 0.38, 10 = 0.41, 11 = 0.00, 11 = 0.00, 12 = 0.69, 12 = 0.00, 13 = 0.00 and 13 = 0.88

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

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1917997
L166201	T08	SPECIAL	1	1	Job Reference (optional)

NOTES

1) 2 X 8 SYP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SYP.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
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) 13 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 1106 lb uplift at joint 12 and 761 lb uplift at joint 13.
8) Girder carries tie-in span(s): 28-8-0 from 0-0-0 to 13-0-0
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: 4-6=-54, 1-2=-54, 2-4=-54, 12-14=-431(B=-421), 7-14=-10

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T09	SPECIAL	1	1	J1917998
					Job Reference (optional)

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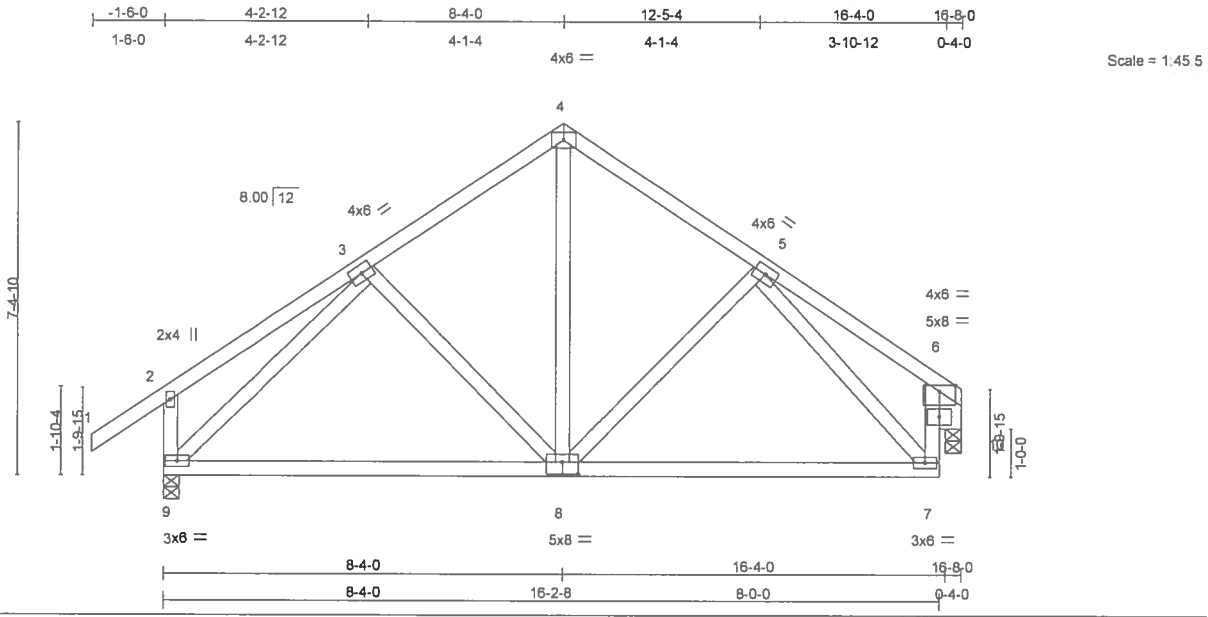

Plate Offsets (X,Y): [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.16	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 106 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 6 SYP No.1D

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) 9=603/0-4-0, 10=513/0-4-0
Max Horz 9=210(load case 5)
Max Uplift 9=-168(load case 6), 10=-105(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/49, 2-3=-129/160, 3-4=-424/279, 4-5=-426/280, 5-6=-25/75, 2-9=-228/253
BOT CHORD	8-9=-165/353, 7-8=-148/332
WEBS	3-8=-104/153, 4-8=-147/240, 5-8=-82/130, 3-9=-460/132, 7-10=-169/439, 6-10=-74/74, 5-7=-530/242

JOINT STRESS INDEX

2 = 0.41, 3 = 0.26, 4 = 0.30, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.50, 9 = 0.59, 10 = 0.00 and 10 = 0.21

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 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.

[illegible]

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NOTES

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) Bearing at joint(s) 10 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 168 lb uplift at joint 9 and 105 lb uplift at joint 10.

LOAD CASE(S) Standard

[illegible]

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T09A	SPECIAL	1	1	J1917999
					Job Reference (optional)

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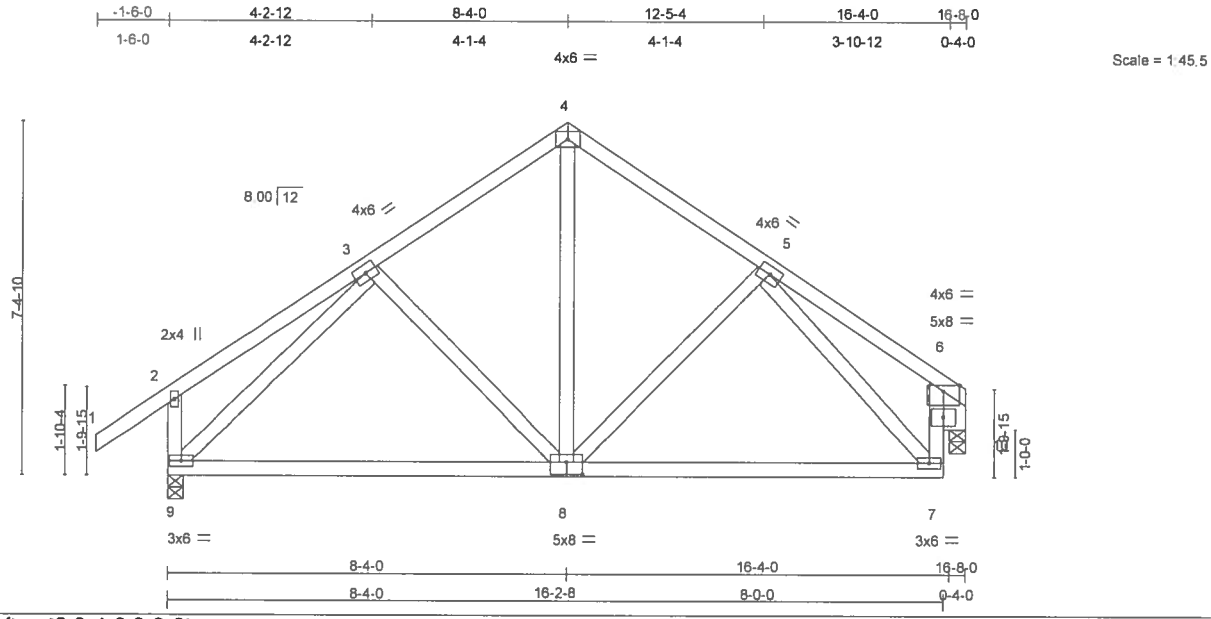

Plate Offsets (X,Y): [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.16	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 106 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 6 SYP No.1D

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) 9=603/0-4-0, 10=513/0-4-0
Max Horz 9=210(load case 5)
Max Uplift 9=-168(load case 6), 10=-105(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/49, 2-3=-129/160, 3-4=-424/279, 4-5=-426/280, 5-6=-25/75, 2-9=-228/253
BOT CHORD	8-9=-165/353, 7-8=-148/332
WEBS	3-8=-104/153, 4-8=-147/240, 5-8=-82/130, 3-9=-460/132, 7-10=-169/439, 6-10=-74/74, 5-7=-530/242

JOINT STRESS INDEX

2 = 0.41, 3 = 0.26, 4 = 0.30, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.50, 9 = 0.59, 10 = 0.00 and 10 = 0.21

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 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.

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NOTES

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) Bearing at joint(s) 10 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 168 lb uplift at joint 9 and 105 lb uplift at joint 10.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1918000
L166201	T10	SPECIAL	1	1	Job Reference (optional)

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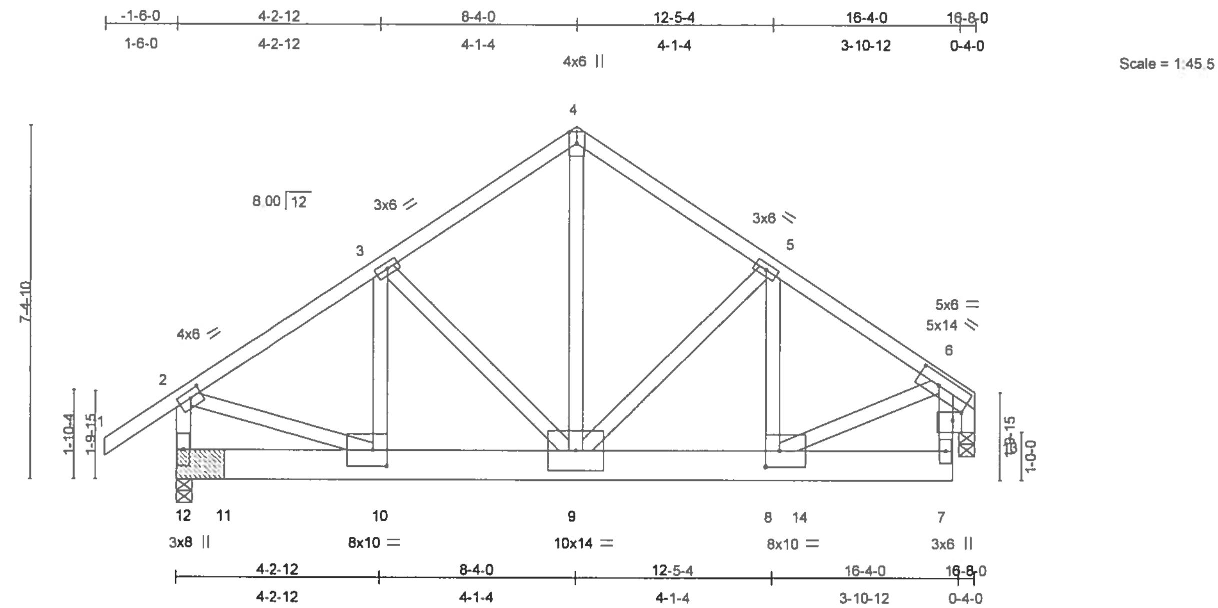

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [6:0-5-8,0-2-8], [8:0-3-8,0-4-0], [10:0-3-8,0-4-0], [13:0-2-2,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	-0.06	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.12	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 140 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
2-12 2 X 4 SYP No.2
OTHERS 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-8.

REACTIONS (lb/size) 12=3832/0-4-8 (0-4-0 + bearing block), 13=2700/0-4-0
Max Horz 12=206(load case 4)
Max Uplift 12=-1122(load case 5), 13=-750(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-3382/967, 3-4=-2655/812, 4-5=-2671/813, 5-6=-2748/779, 2-12=-2945/882
BOT CHORD 11-12=-260/267, 10-11=-260/267, 9-10=-823/2748, 8-9=-618/2255, 8-14=-237/67, 7-14=-237/67
WEBS 3-9=-842/322, 4-9=-802/2644, 5-9=-146/118, 2-10=-690/2632, 7-13=0/46, 6-13=-2692/760, 3-10=-261/860, 5-8=-81/37, 6-8=-747/2721

JOINT STRESS INDEX
2 = 0.97, 3 = 0.64, 4 = 0.61, 5 = 0.41, 6 = 0.96, 7 = 0.15, 8 = 0.42, 9 = 0.39, 10 = 0.42, 11 = 0.00, 11 = 0.00, 12 = 0.69, 12 = 0.00, 13 = 0.00 and 13 = 0.87

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T10	SPECIAL	1	1	J1918000 Job Reference (optional)

NOTES

1) 2 X 8 SYP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SYP.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
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) 13 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 1122 lb uplift at joint 12 and 750 lb uplift at joint 13.
8) Girder carries tie-in span(s): 28-8-0 from 0-0-0 to 13-0-0
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: 1-2=-54, 2-4=-54, 4-6=-54, 12-14=-431(B=-421), 7-14=-10

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T11	COMMON	12	1	J1918001
					Job Reference (optional)

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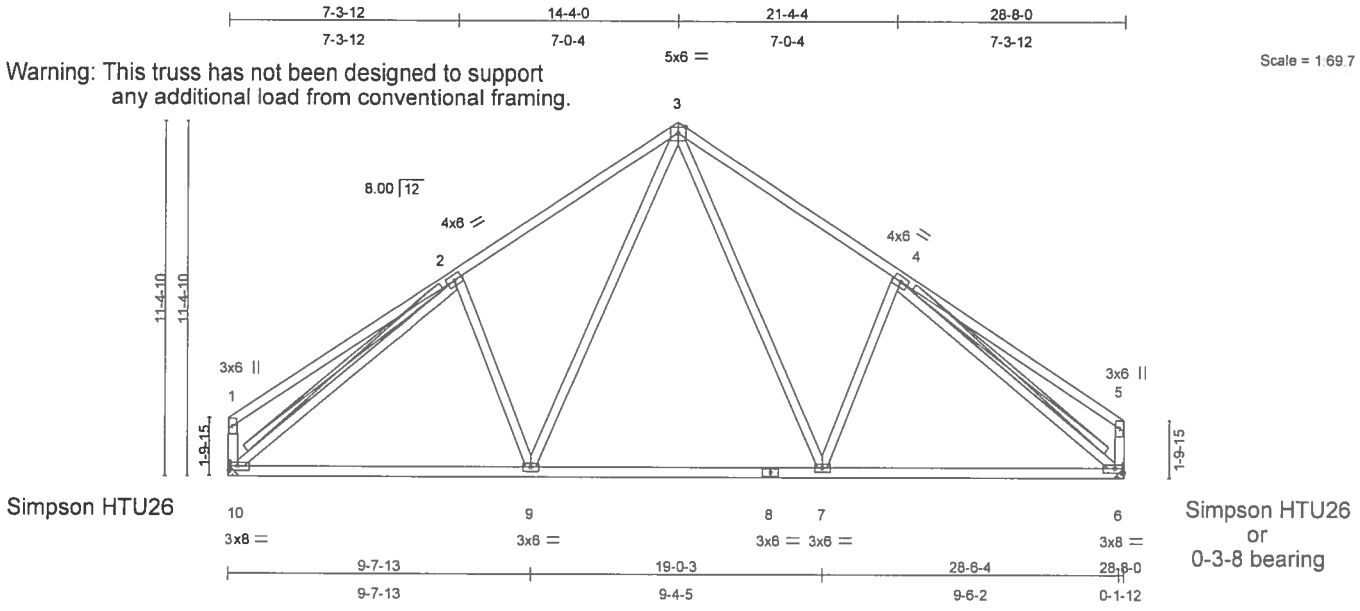

Plate Offsets (X,Y): [4:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	-0.12	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.21	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 180 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.
WEBS T-Brace: 2 X 4 SYP No.3 - 2-10, 4-6
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=908/Mechanical, 6=908/Mechanical
Max Horz 10=-263(load case 4)
Max Uplift 10=-184(load case 6), 6=-184(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-331/261, 2-3=-973/633, 3-4=-973/633, 4-5=-331/261, 1-10=-315/255, 5-6=-315/255
BOT CHORD 9-10=-308/796, 8-9=-111/599, 7-8=-111/599, 6-7=-308/796
WEBS 2-9=-257/298, 3-9=-238/360, 3-7=-238/360, 4-7=-257/298, 2-10=-815/275, 4-6=-815/275

JOINT STRESS INDEX
1 = 0.61, 2 = 0.29, 3 = 0.60, 4 = 0.29, 5 = 0.61, 6 = 0.64, 7 = 0.47, 8 = 0.19, 9 = 0.47 and 10 = 0.64

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NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=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) *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 184 lb uplift at joint 10 and 184 lb uplift at joint 6.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T11G	GABLE	2	1	J1918002
					Job Reference (optional)

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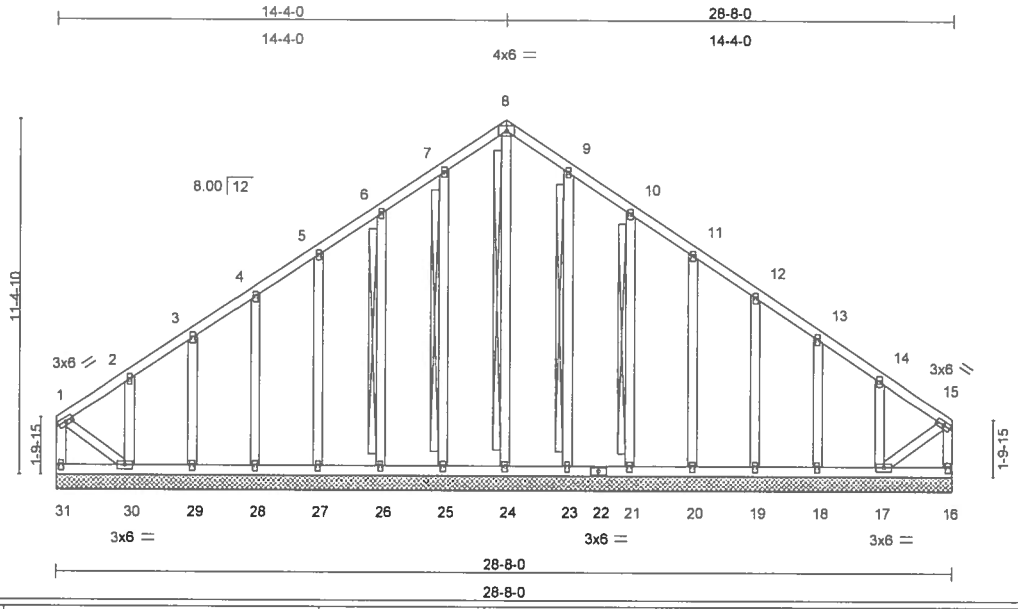

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.01	17	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 232 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 10-0-0 oc bracing.

WEBS — T-Brace: 2 X 4 SYP No.3 - 8-24, 7-25, 6-26, 9-23 , 10-21

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) 31=76/28-8-0, 24=110/28-8-0, 25=127/28-8-0, 26=129/28-8-0, 27=128/28-8-0, 28=129/28-8-0, 29=121/28-8-0, 30=143/28-8-0, 23=127/28-8-0, 21=129/28-8-0, 20=128/28-8-0, 19=129/28-8-0, 18=121/28-8-0, 17=143/28-8-0, 16=76/28-8-0

Max Horz 31=328(load case 5)

Max Uplift 31=-194(load case 4), 25=-84(load case 6), 26=-112(load case 6), 27=-103(load case 6), 28=-105(load case 6), 29=-100(load case 6), 30=-283(load case 6), 23=-81(load case 7), 21=-113(load case 7), 20=-103(load case 7), 19=-106(load case 7), 18=-100(load case 7), 17=-262(load case 7), 16=-94(load case 5)

Max Grav 31=321(load case 5), 24=210(load case 7), 25=131(load case 10), 26=129(load case 1), 27=128(load case 10), 28=129(load case 1), 29=121(load case 10), 30=158(load case 4), 23=131(load case 11), 21=129(load case 1), 20=128(load case 11), 19=129(load case 1), 18=121(load case 11), 17=146(load case 11), 16=221(load case 4)

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[illegible]

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1918002
L166201	T11G	GABLE	2	1	Job Reference (optional)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-280/185, 2-3=-224/176, 3-4=-176/171, 4-5=-126/164, 5-6=-77/173, 6-7=-48/228, 7-8=-47/271, 8-9=-47/271, 9-10=-48/216, 10-11=-47/141, 11-12=-47/87, 12-13=-89/84, 13-14=-137/90, 14-15=-197/99

BOT CHORD 30-31=-328/328, 29-30=-80/189, 28-29=-80/189, 27-28=-80/189, 26-27=-80/189, 25-26=-80/189, 24-25=-80/189, 23-24=-80/189, 22-23=-80/189, 21-22=-80/189, 20-21=-80/189, 19-20=-80/189, 18-19=-80/189, 17-18=-80/189, 16-17=0/0

WEBS 8-24=-200/0, 7-25=-111/96, 6-26=-108/124, 5-27=-108/115, 4-28=-109/118, 3-29=-103/111, 2-30=-129/138, 9-23=-111/93, 10-21=-108/125, 11-20=-108/115, 12-19=-109/118, 13-18=-103/111, 14-17=-129/138, 1-31=-316/199, 1-30=-188/308, 15-16=-215/99, 15-17=-99/234

JOINT STRESS INDEX

1 = 0.41, 2 = 0.33, 3 = 0.33, 4 = 0.33, 5 = 0.33, 6 = 0.33, 7 = 0.33, 8 = 0.27, 9 = 0.33, 10 = 0.33, 11 = 0.33, 12 = 0.33, 13 = 0.33, 14 = 0.33, 15 = 0.41, 16 = 0.33, 17 = 0.34, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 22 = 0.15, 23 = 0.33, 24 = 0.33, 25 = 0.33, 26 = 0.33, 27 = 0.33, 28 = 0.33, 29 = 0.33, 30 = 0.34 and 31 = 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; end vertical 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) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 31, 84 lb uplift at joint 25, 112 lb uplift at joint 26, 103 lb uplift at joint 27, 105 lb uplift at joint 28, 100 lb uplift at joint 29, 283 lb uplift at joint 30, 81 lb uplift at joint 23, 113 lb uplift at joint 21, 103 lb uplift at joint 20, 106 lb uplift at joint 19, 100 lb uplift at joint 18, 262 lb uplift at joint 17 and 94 lb uplift at joint 16.

LOAD CASE(S) Standard

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1918003
L166201	T12	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:56 2007 Page 1

Scale = 1:43.7

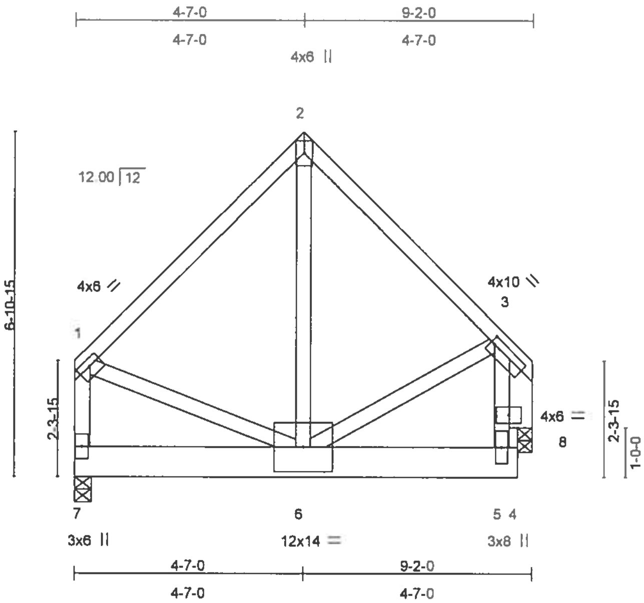

Plate Offsets (X,Y): [1:0-3-0,0-1-8], [3:0-1-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.04	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.49	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 78 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3
OTHERS 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 7=2043/0-4-0, 8=2191/0-3-8
Max Horz 7=123(load case 4)
Max Uplift 7=-582(load case 6), 8=-629(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1199/371, 2-3=-1163/367, 1-7=-1200/350
BOT CHORD 6-7=-195/136, 5-6=-87/26, 4-5=0/0
WEBS 2-6=-403/1362, 1-6=-273/744, 3-6=-303/1003, 5-8=-229/829, 3-8=-1364/401

JOINT STRESS INDEX
1 = 0.77, 2 = 0.36, 3 = 0.82, 5 = 0.26, 6 = 0.22, 7 = 0.53, 8 = 0.00 and 8 = 0.88

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; Lumber DOL=1.60 plate grip DOL=1.60.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Continued on page 2

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NOTES

5) Bearing at joint(s) 8 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 582 lb uplift at joint 7 and 629 lb uplift at joint 8.
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: 1-2=-54, 2-3=-54, 4-7=-432(F=-422)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1918004
L166201	T13	GABLE	2	1	Job Reference (optional)

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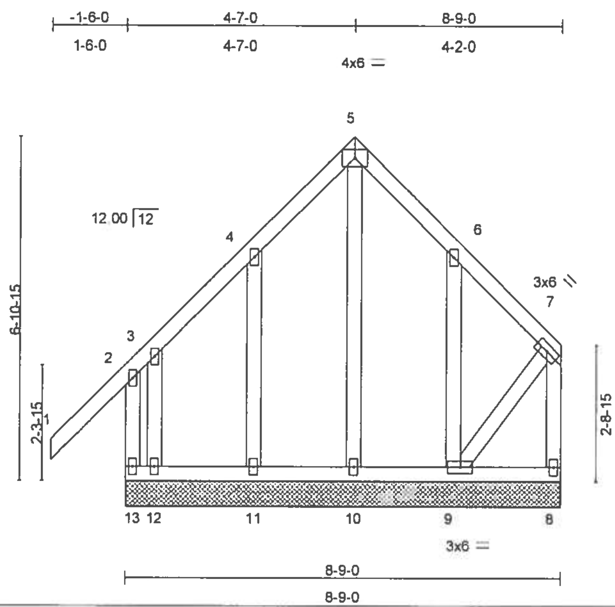
Scale = 1:43.7



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.01	1	n/r	90		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.33	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 72 lb	

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

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

REACTIONS (lb/size) 13=215/8-9-0, 8=51/8-9-0, 10=124/8-9-0, 11=127/8-9-0, 12=-33/8-9-0, 9=146/8-9-0
Max Horz 13=190(load case 5)
Max Uplift 13=-493(load case 6), 8=-457(load case 6), 10=-2(load case 4), 11=-119(load case 6), 12=-34(load case 10), 9=-252(load case 4)
Max Grav 13=216(load case 10), 8=214(load case 4), 10=456(load case 6), 11=130(load case 10), 12=165(load case 6), 9=309(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=-93/396, 3-4=-40/282, 4-5=-41/387, 5-6=-43/392, 6-7=-127/305
BOT CHORD 12-13=-190/112, 11-12=-190/112, 10-11=-190/112, 9-10=-190/112, 8-9=0/0
WEBS 5-10=-444/14, 4-11=-110/132, 3-12=-178/52, 6-9=-127/177, 2-13=-220/543, 7-8=-209/461, 7-9=-306/180

JOINT STRESS INDEX
2 = 0.26, 3 = 0.10, 4 = 0.06, 5 = 0.15, 6 = 0.08, 7 = 0.28, 8 = 0.26, 9 = 0.10, 10 = 0.12, 11 = 0.07, 12 = 0.05 and 13 = 0.30

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

Continued on page 2

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T13	GABLE	2	1	J1918004 Job Reference (optional)

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 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) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable requires continuous bottom chord bearing.

7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

8) Gable studs spaced at 2-0-0 oc.

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 493 lb uplift at joint 13, 457 lb uplift at joint 8, 2 lb uplift at joint 10, 119 lb uplift at joint 11, 34 lb uplift at joint 12 and 252 lb uplift at joint 9.

LOAD CASE(S) Standard

[illegible]

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1918005
L166201	T14	SPECIAL	1	1	Job Reference (optional)

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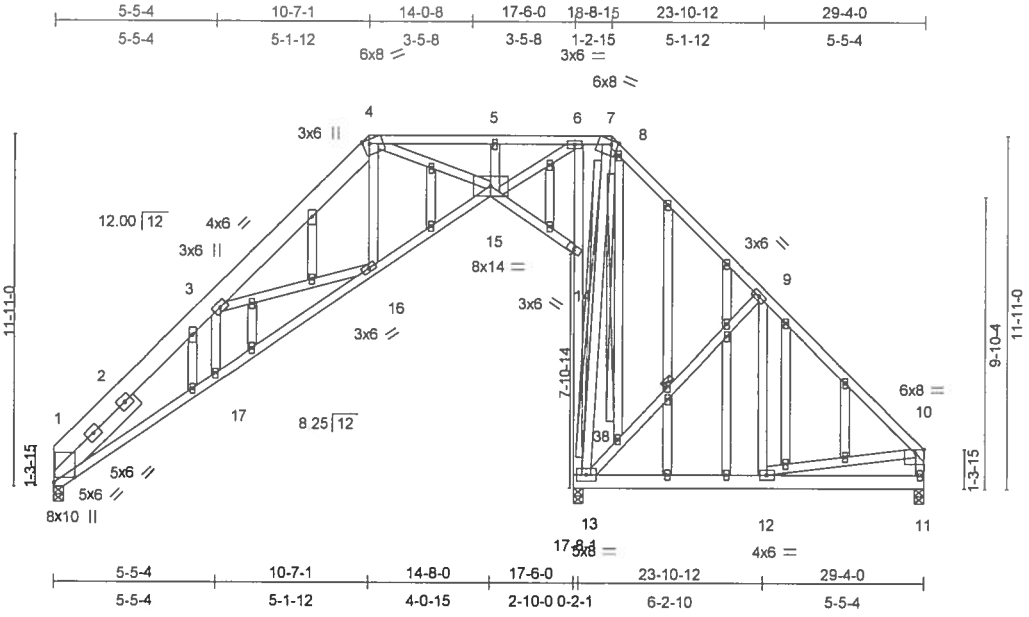

Plate Offsets (X,Y): [1:0-2-2,0-8-7], [4:0-2-11,Edge], [7:0-2-11,Edge], [10:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	0.06	16-17	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.09	16-17	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.32	Horz(TL)	0.06	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 311 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2 *Except* 1-4 2 X 8 SYP 2400F 2.0E
BOT CHORD	2 X 4 SYP No.2 *Except* 11-13 2 X 6 SYP No.1D
WEBS	2 X 4 SYP No.3
OTHERS	2 X 4 SYP No.3
SLIDER	Left 2 X 6 SYP No.1D 3-11-14

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.): 4-7.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 9-13
	T-Brace: 2 X 4 SYP No.3 - 7-13, 8-38

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=635/0-4-0, 13=1128/0-4-0, 11=382/0-4-0
Max Horz 1=426(load case 4)
Max Uplift 1=-411(load case 6), 13=-566(load case 4), 11=-454(load case 6)
Max Grav 1=635(load case 1), 13=1128(load case 1), 11=390(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-1441/909, 2-3=-1318/921, 3-4=-956/584, 4-5=-830/583, 5-6=-839/598, 6-7=-91/514, 7-8=-110/558, 8-9=-115/551, 9-10=-385/493, 10-11=-359/455
BOT CHORD	1-17=-933/1020, 16-17=-937/1031, 15-16=-649/766, 14-15=-59/49, 13-14=-692/577, 6-14=-636/549, 12-13=-202/190, 11-12=-195/163
WEBS	3-17=0/150, 3-16=-215/455, 4-16=-194/220, 4-15=-154/230, 5-15=-192/195, 6-15=-798/1008, 9-12=0/188, 10-12=-8/51, 7-13=-239/55, 13-38=-303/316, 9-38=-284/302, 8-38=-26/20

[illegible]

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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T14	SPECIAL	1	1	J1918005
					Job Reference (optional)

JOINT STRESS INDEX

1 = 0.54, 1 = 0.26, 1 = 0.26, 2 = 0.00, 3 = 0.36, 4 = 0.25, 5 = 0.34, 6 = 0.59, 7 = 0.84, 8 = 0.34, 9 = 0.47, 10 = 0.53, 11 = 0.53, 12 = 0.27 , 13 = 0.28, 14 = 0.16, 15 = 0.25, 16 = 0.43, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.16, 22 = 0.34, 23 = 0.34, 24 = 0.34, 25 = 0.16, 26 = 0.34, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 30 = 0.34, 31 = 0.34, 32 = 0.34, 33 = 0.34, 33 = 0.34, 34 = 0.34, 35 = 0.34, 36 = 0.34, 37 = 0.34 and 38 = 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 gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 1, 566 lb uplift at joint 13 and 454 lb uplift at joint 11.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) Gable truss supports 1' 0" max. rake gable overhang.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-64(F=-10), 4-7=-64(F=-10), 7-10=-64(F=-10), 1-15=-10, 14-15=-10, 11-13=-10

[illegible]

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T15	SPECIAL	5	1	J1918006
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:59 2007 Page 1

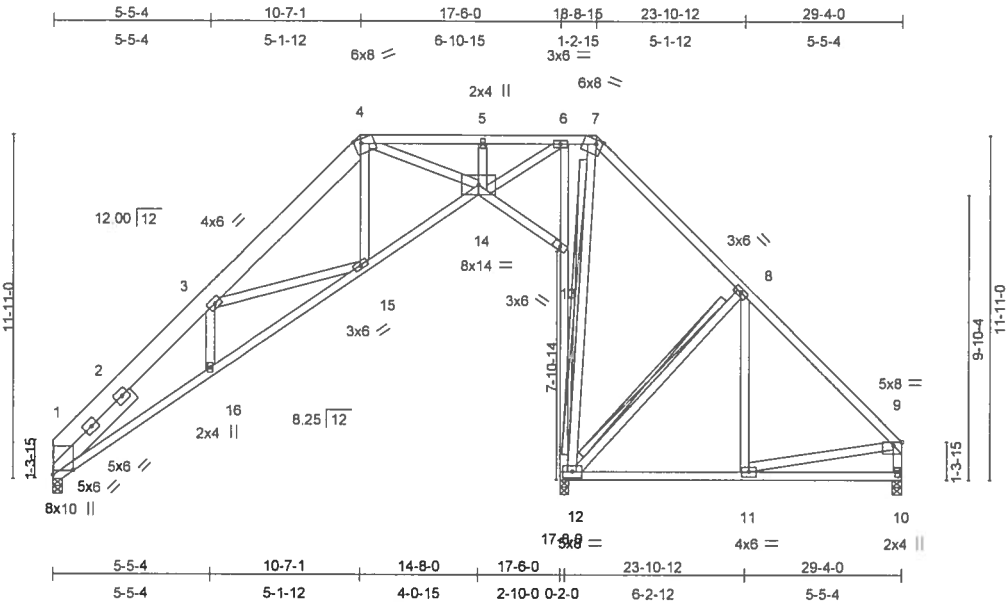

Plate Offsets (X,Y): [1:0-2-0,0-8-7], [4:0-2-11,Edge], [7:0-2-11,Edge], [9:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	0.05	15-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.08	15-16	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.05	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 237 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2 *Except* 1-4 2 X 8 SYP 2400F 2.0E
BOT CHORD	2 X 4 SYP No.2 *Except* 6-12 2 X 4 SYP No.3
WEBS	2 X 4 SYP No.3
SLIDER	Left 2 X 6 SYP No.1D 3-11-14

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.): 4-7.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	T-Brace: 2 X 4 SYP No.3 - 7-12, 8-12 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) 1=551/0-4-0, 12=971/0-4-0, 10=333/0-4-0
Max Horz 1=324(load case 5)
Max Uplift 1=-198(load case 7), 12=-261(load case 5), 10=-260(load case 7)
Max Grav 1=551(load case 1), 12=971(load case 1), 10=340(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-1248/820, 2-3=-1144/846, 3-4=-830/577, 4-5=-732/581, 5-6=-739/591, 6-7=-30/454, 7-8=-103/489, 8-9=-332/415, 9-10=-314/378
BOT CHORD	1-16=-630/890, 15-16=-632/897, 14-15=-394/669, 13-14=-44/31, 12-13=-595/331, 6-13=-550/317, 11-12=-171/166, 10-11=-141/117
WEBS	3-16=0/152, 3-15=-185/396, 4-15=-166/208, 4-14=-77/210, 8-11=0/181, 9-11=-30/50, 5-14=-164/117, 7-12=-228/0, 8-12=-244/270, 6-14=-462/881

Continued on page 2

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JOINT STRESS INDEX

1 = 0.44, 1 = 0.22, 1 = 0.22, 2 = 0.00, 3 = 0.35, 4 = 0.22, 5 = 0.33, 6 = 0.50, 7 = 0.76, 8 = 0.46, 9 = 0.80, 10 = 0.48, 11 = 0.28, 12 = 0.28, 13 = 0.15, 14 = 0.16, 15 = 0.42 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; 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 1, 261 lb uplift at joint 12 and 260 lb uplift at joint 10.

LOAD CASE(S) Standard

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T16	SPECIAL	1	2	J1918007

Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Dec 18 15:08:54 2007 Page 1

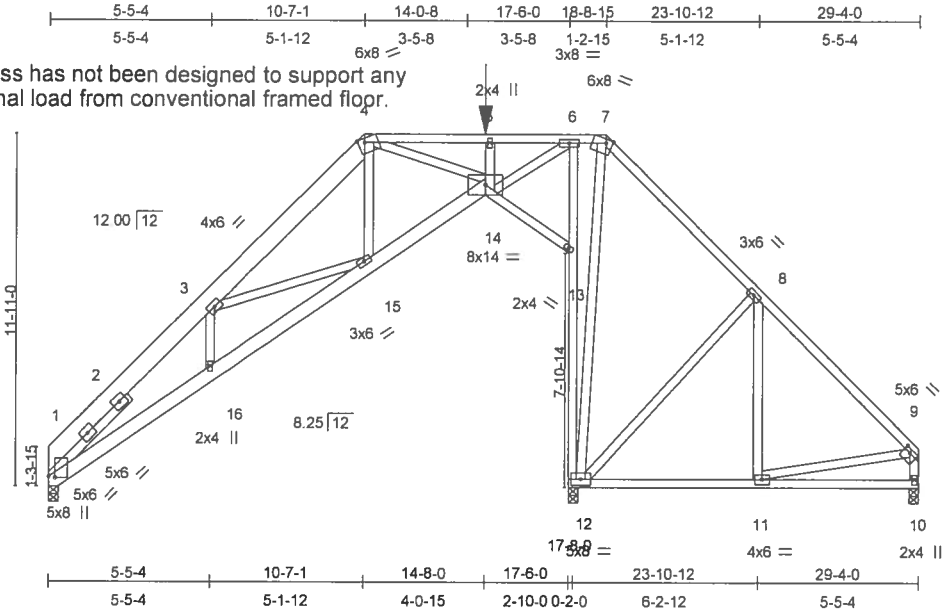

Plate Offsets (X,Y): [1:0-0-8,0-2-10], [4:0-2-11,Edge], [7:0-2-11,Edge], [9:0-2-12,0-1-8]

LOADING (psf)		SPACING	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	0.05	15-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.08	15-16	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.53	Horz(TL)	0.05	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 496 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2 *Except* 1-4 2 X 8 SYP 2400F 2.0E
BOT CHORD	2 X 4 SYP No.2 *Except* 1-14 2 X 6 SYP No.1D, 6-12 2 X 4 SYP No.3
WEBS	2 X 4 SYP No.3
SLIDER	Left 2 X 4 SYP No.3 3-10-3

BRACING

TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.
JOINTS	1 Brace at Jt(s): 4, 7, 9

REACTIONS (lb/size) 1=1281/0-4-0, 12=2991/0-4-0, 10=625/0-4-0
Max Horz 1=639(load case 4)
Max Uplift 1=-445(load case 6), 12=-898(load case 4), 10=-506(load case 6)
Max Grav 1=1281(load case 1), 12=2991(load case 1), 10=637(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-3007/1109, 2-3=-2811/1161, 3-4=-2343/927, 4-5=-2709/1153, 5-6=-2698/1155, 6-7=-73/675, 7-8=-149/736, 8-9=-616/597, 9-10=-588/528
BOT CHORD	1-16=-1414/2181, 15-16=-1434/2237, 14-15=-961/1846, 13-14=-154/85, 12-13=-2155/1003, 6-13=-1984/944, 11-12=-235/297, 10-11=-195/234
WEBS	3-16=0/248, 3-15=-247/564, 4-15=-248/503, 4-14=-582/1291, 5-14=-1442/629, 6-14=-1455/3299, 8-12=-491/368, 8-11=0/369, 9-11=-41/73, 7-12=-541/26

[illegible]

JOINT STRESS INDEX

1 = 0.62, 1 = 0.27, 1 = 0.27, 2 = 0.00, 3 = 0.36, 4 = 0.36, 5 = 0.40, 6 = 0.83, 7 = 0.87, 8 = 0.47, 9 = 0.82, 10 = 0.48, 11 = 0.28, 12 = 0.28, 13 = 0.57, 14 = 0.33, 15 = 0.43 and 16 = 0.34

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE J1918007
L166201	T16	SPECIAL	1	**2**	Job Reference (optional)

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NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, Except member 14-5 2 X 4 - 1 row at 0-4-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 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.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 1, 898 lb uplift at joint 12 and 506 lb uplift at joint 10.

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: 1-4=-108, 4-7=-108, 7-9=-108, 1-14=-20, 13-14=-20, 10-12=-20
   Concentrated Loads (lb)
      Vert: 5=-1200(F)

[illegible]

December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE	J1918008
L166201	T17	ATTIC	1	2	Job Reference (optional)	

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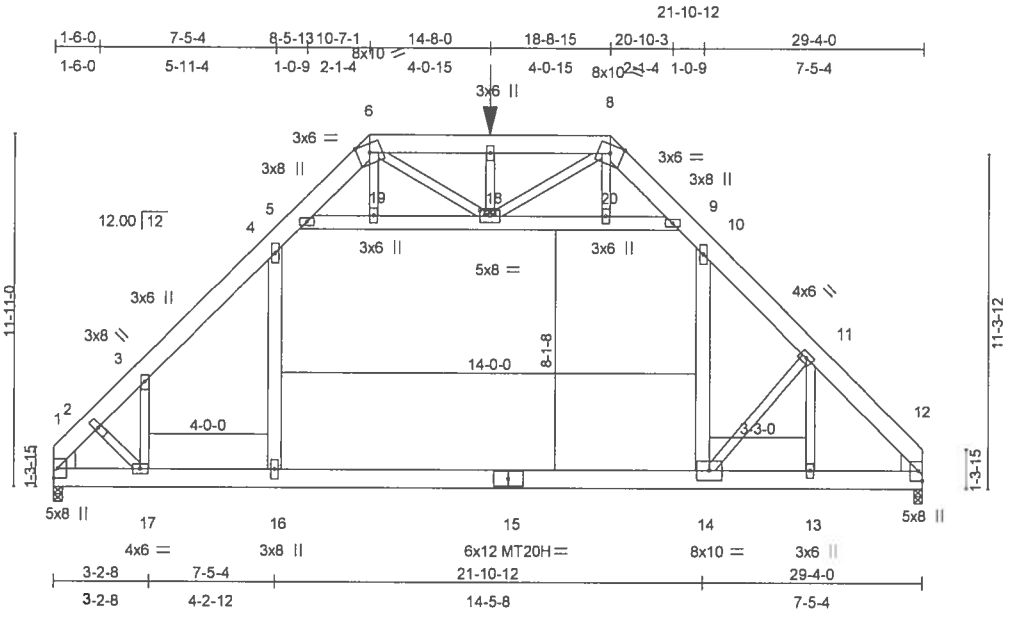

Plate Offsets (X,Y): [18:0-4-0,0-2-4]

LOADING (psf)		SPACING	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.32	14-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.51	14-16	>688	240	MT20H	187/143
BCLL	10.0	* Rep Stress Incr	NO	WB	0.28	Horz(TL)	0.03	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 646 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
5-9 2 X 6 SYP No.1D, 4-16 2 X 6 SYP No.1D
10-14 2 X 6 SYP No.1D

WEDGE
Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9
JOINTS 1 Brace at Jt(s): 6, 8

REACTIONS (lb/size) 1=4931/0-3-8, 12=4364/0-3-8
Max Horz 1=-625(load case 3)
Max Uplift 1=-67(load case 5), 12=-67(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-5626/88, 2-3=-5336/82, 3-4=-6136/72, 4-5=-3833/383, 5-6=-1897/637, 8-9=-1881/767, 9-10=-3939/431, 10-11=-5839/63, 11-12=-5157/126, 6-7=-2185/938, 7-8=-2185/939
BOT CHORD 1-17=-548/2898, 16-17=-174/3970, 15-16=-174/3970, 14-15=-174/3970, 13-14=0/3230, 12-13=0/3253
WEBS 5-19=-2686/88, 18-19=-2676/90, 18-20=-2990/197, 9-20=-3001/196, 4-16=0/2672, 10-14=0/2128, 7-18=-1360/598, 6-19=0/189, 8-20=0/206, 6-18=-718/1192, 8-18=-776/1585, 3-17=-1341/0, 11-13=-1674/109, 11-14=-438/1580, 2-17=-179/1744

[illegible]

JOINT STRESS INDEX
1 = 0.78, 1 = 0.00, 2 = 0.28, 3 = 0.26, 4 = 0.46, 5 = 0.51, 6 = 0.26, 7 = 0.16, 8 = 0.34, 9 = 0.57, 10 = 0.37, 11 = 0.38, 12 = 0.72, 12 = 0.00, 13 = 0.16, 14 = 0.22, 15 = 0.87, 16 = 0.43, 17 = 0.38, 18 = 0.41, 19 = 0.16 and 20 = 0.16

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NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
   Webs connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 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.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 18-19, 18-20, 9-20; Wall dead load (5.0psf) on member(s).4-16, 10-14
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
10) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1 and 67 lb uplift at joint 12.

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 Except:

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-108, 4-5=-128, 5-6=-108, 8-9=-108, 9-10=-128, 10-12=-108, 5-9=-20, 6-8=-108
   Drag: 4-16=-20, 10-14=-20
   Concentrated Loads (lb)
   Vert: 7=-1200(F)
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-60, 16-17=-100(F=-40), 12-16=-60, 1-4=-28, 4-5=-48, 5-6=-28, 8-9=-28, 9-10=-48, 10-12=-28, 5-9=-20, 6-8=-28
   Drag: 4-16=-20, 10-14=-20
   Concentrated Loads (lb)
   Vert: 7=-450(F)
9) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-28, 4-5=-48, 5-6=-28, 8-9=-28, 9-10=-48, 10-12=-28, 5-9=-20, 6-8=-28
   Drag: 4-16=-20, 10-14=-20
   Concentrated Loads (lb)
   Vert: 7=-450(F)
10) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-108, 4-5=-128, 5-6=-108, 8-9=-28, 9-10=-48, 10-12=-28, 5-9=-20, 6-8=-108
   Drag: 4-16=-20, 10-14=-20
   Concentrated Loads (lb)
   Vert: 7=-1200(F)
11) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-28, 4-5=-48, 5-6=-28, 8-9=-108, 9-10=-128, 10-12=-108, 5-9=-20, 6-8=-108
   Drag: 4-16=-20, 10-14=-20
   Concentrated Loads (lb)
   Vert: 7=-1200(F)

[illegible]

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T18	ATTIC	7	1	J1918009
					Job Reference (optional)

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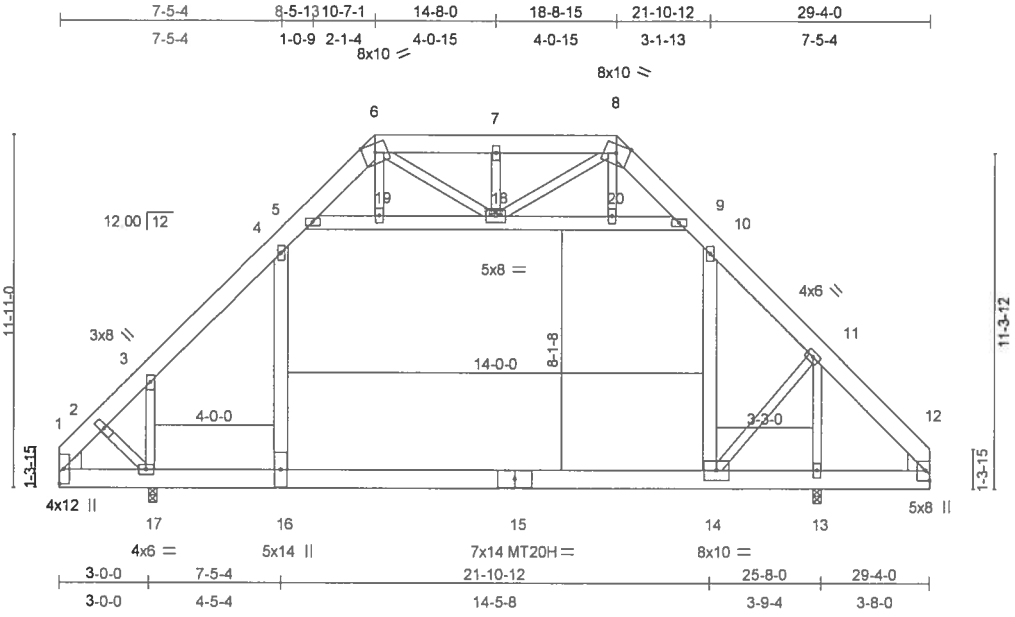

Plate Offsets (X,Y): [18:0-4-0,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.40	14-16	>678	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.67	Vert(TL)	-0.64	14-16	>419	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.01	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 323 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
5-9 2 X 6 SYP No.1D, 4-16 2 X 6 SYP No.1D
10-14 2 X 6 SYP No.1D
WEDGE
Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-9

REACTIONS (lb/size) 17=2149/0-3-8, 13=1917/0-3-8
Max Horz 17=-312(load case 4)
Max Uplift 17=-41(load case 6), 13=-59(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-633/3, 2-3=-482/10, 3-4=-1705/53, 4-5=-890/259, 5-6=-692/242, 8-9=-623/234, 9-10=-964/268, 10-11=-1333/78, 11-12=-131/226, 6-7=-625/289, 7-8=-625/289
BOT CHORD 1-17=0/95, 16-17=-33/849, 15-16=-33/849, 14-15=-33/849, 13-14=-120/173, 12-13=-83/169
WEBS 5-19=-377/82, 18-19=-375/83, 18-20=-546/122, 9-20=-549/121, 4-16=0/957, 10-14=0/468, 7-18=-119/134, 6-19=0/46, 8-20=0/55, 6-18=-214/66, 8-18=-235/299, 3-17=-1858/161, 11-13=-2403/215, 11-14=-128/1495, 2-17=-12/1148

JOINT STRESS INDEX
1 = 0.91, 1 = 0.00, 2 = 0.37, 3 = 0.72, 4 = 0.36, 5 = 0.15, 6 = 0.24, 7 = 0.16, 8 = 0.24, 9 = 0.21, 10 = 0.19, 11 = 0.75, 12 = 0.36, 12 = 0.00, 13 = 0.39, 14 = 0.28, 15 = 0.61, 16 = 0.19, 17 = 0.52, 18 = 0.31, 19 = 0.16 and 20 = 0.16

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

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NOTES

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; cantilever 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) 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 MT20 plates unless otherwise indicated.
6) All plates are 3x6 MT20 unless otherwise indicated.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 18-19, 18-20, 9-20; Wall dead load (5.0psf) on member(s).4-16, 10-14
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 17 and 59 lb uplift at joint 13.
11) 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 Except:

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54
   Drag: 4-16=-10, 10-14=-10
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-30, 16-17=-50(F=-20), 12-16=-30, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14
   Drag: 4-16=-10, 10-14=-10
10) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14
   Drag: 4-16=-10, 10-14=-10
11) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-54
   Drag: 4-16=-10, 10-14=-10
12) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54
   Drag: 4-16=-10, 10-14=-10

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December 19,2007

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T19	ATTIC	3	1	J1918010
					Job Reference (optional)

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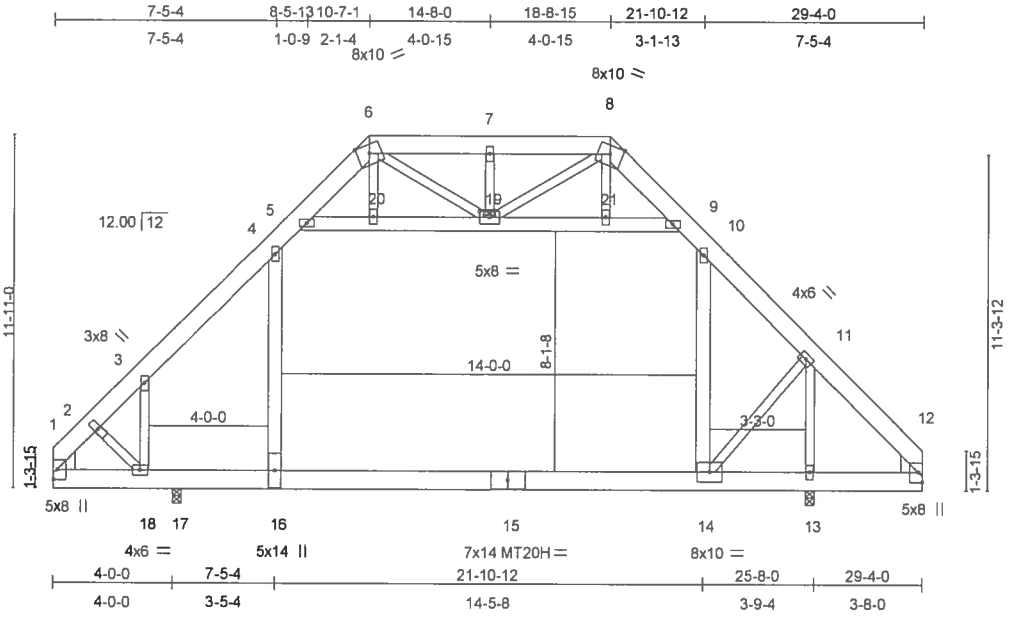

Plate Offsets (X,Y): [19:0-4-0,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.44	14-16	>581	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.85	Vert(TL)	-0.72	14-16	>356	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.01	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 323 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
5-9 2 X 6 SYP No.1D, 4-16 2 X 6 SYP No.1D
10-14 2 X 6 SYP No.1D
WEDGE
Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 5-8-13 oc bracing.
WEBS 1 Row at midpt 5-9

REACTIONS (lb/size) 13=1809/0-3-8, 17=2257/0-3-8
Max Horz 17=-312(load case 4)
Max Uplift 13=-63(load case 7), 17=-71(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-330/12, 2-3=-240/19, 3-4=-1427/3, 4-5=-821/247, 5-6=-690/241, 8-9=-706/248, 9-10=-804/239, 10-11=-1221/58, 11-12=-126/200, 6-7=-675/298, 7-8=-675/298
BOT CHORD 1-18=-15/94, 17-18=-7/686, 16-17=-40/686, 15-16=-40/686, 14-15=-40/686, 13-14=-80/166, 12-13=-46/163
WEBS 5-20=-309/85, 19-20=-307/86, 19-21=-286/113, 9-21=-289/112, 4-16=0/740, 10-14=0/516, 7-19=-103/131, 6-20=0/47, 8-21=0/45, 6-19=-210/182, 8-19=-242/135, 3-18=-1856/160, 11-13=-2166/172, 11-14=-142/1183, 2-18=-14/1043

JOINT STRESS INDEX
1 = 0.76, 1 = 0.00, 2 = 0.34, 3 = 0.72, 4 = 0.29, 5 = 0.15, 6 = 0.24, 7 = 0.16, 8 = 0.24, 9 = 0.15, 10 = 0.21, 11 = 0.67, 12 = 0.36, 12 = 0.00, 13 = 0.35, 14 = 0.22, 15 = 0.65, 16 = 0.14, 18 = 0.48, 19 = 0.31, 20 = 0.16 and 21 = 0.16

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NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever 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) 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 MT20 plates unless otherwise indicated.
6) All plates are 3x6 MT20 unless otherwise indicated.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-20, 19-20, 19-21, 9-21; Wall dead load (5.0psf) on member(s).4-16, 10-14
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 13 and 71 lb uplift at joint 17.
11) 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 Except:

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54
   Drag: 4-16=-10, 10-14=-10
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-18=-30, 16-18=-50(F=-20), 12-16=-30, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14
   Drag: 4-16=-10, 10-14=-10
10) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10 , 6-8=-14
   Drag: 4-16=-10, 10-14=-10
11) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-14 , 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-54
   Drag: 4-16=-10, 10-14=-10
12) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-54 , 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54
   Drag: 4-16=-10, 10-14=-10

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	T20	ATTIC	1	1	J1918011 Job Reference (optional)

+ Member must be laterally braced for horizontal wind loads.
Bracing and connections to be specified by the building designer.

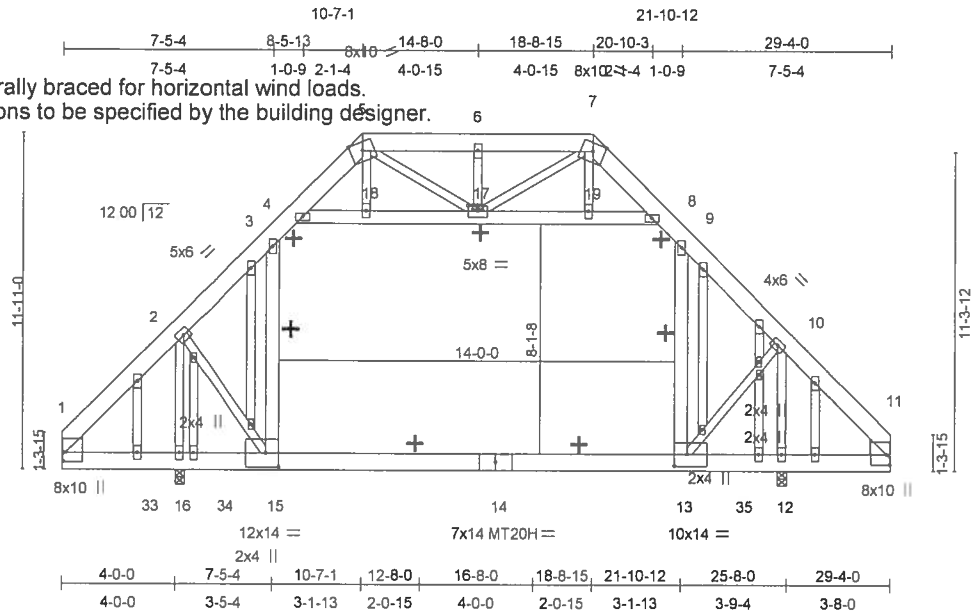

Plate Offsets (X,Y): [1:0-3-15,0-0-15], [11:0-4-7,0-1-5], [13:0-5-8,0-5-0], [15:0-5-8,0-6-0], [17:0-4-0,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	-0.35	13-15	>728	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.57	13-15	>445	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.98	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 367 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
4-8 2 X 6 SYP No.1D, 3-15 2 X 6 SYP No.1D
9-13 2 X 6 SYP No.1D
OTHERS 2 X 4 SYP No.3
WEDGE
Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 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, Except:
10-0-0 oc bracing: 13-15.
WEBS 1 Row at midpt 4-8

REACTIONS (lb/size) 16=2428/0-4-0, 12=2175/0-4-0
Max Horz 16=-391(load case 3)
Max Uplift 16=-624(load case 5), 12=-615(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-93/248, 2-3=-1431/278, 3-4=-1031/332, 4-5=-626/344, 7-8=-637/343, 8-9=-1019/325, 9-10=-1461/281, 10-11=-75/249, 5-6=-583/357, 6-7=-583/356
BOT CHORD 1-33=-89/158, 16-33=-89/158, 16-34=-332/435, 15-34=-332/435, 14-15=-261/915, 13-14=-261/915, 13-35=-126/141, 12-35=-126/141, 11-12=-85/135
WEBS 4-18=-576/241, 17-18=-573/241, 17-19=-563/219, 8-19=-566/218, 3-15=-76/470, 9-13=-77/478, 6-17=-209/186, 5-18=0/59, 7-19=0/57, 5-17=-330/265, 7-17=-312/232, 2-16=-2815/514, 10-12=-2657/483, 2-15=-527/1790, 10-13=-479/1627

JOINT STRESS INDEX
1 = 0.17, 1 = 0.00, 2 = 0.80, 3 = 0.19, 4 = 0.22, 5 = 0.24, 6 = 0.16, 7 = 0.24, 8 = 0.22, 9 = 0.19, 10 = 0.83, 11 = 0.13, 11 = 0.00, 12 = 0.43, 13 = 0.23, 14 = 0.60, 15 = 0.24, 16 = 0.46, 17 = 0.31, 18 = 0.16, 19 = 0.16, 20 = 0.34, 21 = 0.16, 22 = 0.16, 23 = 0.34, 24 = 0.16, 25 = 0.16, 26 = 0.34, 27 = 0.16, 28 = 0.16, 29 = 0.16, 30 = 0.34, 30 = 0.34, 31 = 0.16 and 32 = 0.16

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Continued on 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; cantilever left and right exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 3x6 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-18, 17-18, 17-19, 8-19; Wall dead load (5.0psf) on member(s).3-15, 9-13
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
11) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 624 lb uplift at joint 16 and 615 lb uplift at joint 12.
13) 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 Except:

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-85(F=-75), 13-15=-135(F=-25), 13-35=-35(F=-25), 11-35=-10, 1-3=-64(F=-10), 3-4=-74(F=-10), 4-5=-64(F=-10), 7-8=-64(F=-10), 8-9=-74(F=-10), 9-11=-64(F=-10), 4-8=-10, 5-7=-64(F=-10)
   Drag: 3-15=-10, 9-13=-10
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-33=-30, 33-34=-40(F=-10), 15-34=-49(F=-19), 15-35=-39(F=-9), 11-35=-30, 1-3=-14, 3-4=-24, 4-5=-14, 7-8=-14, 8-9=-24, 9-11=-14, 4-8=-10, 5-7=-14
   Drag: 3-15=-10, 9-13=-10
9) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-69(F=-59), 13-15=-119(F=-9), 13-35=-19(F=-9), 11-35=-10, 1-3=-18(F=-4), 3-4=-28(F=-4), 4-5=-18(F=-4), 7-8=-18(F=-4), 8-9=-28(F=-4), 9-11=-18(F=-4), 4-8=-10, 5-7=-18(F=-4)
   Drag: 3-15=-10, 9-13=-10
10) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-85(F=-75), 13-15=-135(F=-25), 13-35=-35(F=-25), 11-35=-10, 1-3=-64(F=-10), 3-4=-74(F=-10), 4-5=-64(F=-10), 7-8=-24(F=-10), 8-9=-34(F=-10), 9-11=-24(F=-10), 4-8=-10, 5-7=-64(F=-10)
   Drag: 3-15=-10, 9-13=-10
11) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-85(F=-75), 13-15=-135(F=-25), 13-35=-35(F=-25), 11-35=-10, 1-3=-24(F=-10), 3-4=-34(F=-10), 4-5=-24(F=-10), 7-8=-64(F=-10), 8-9=-74(F=-10), 9-11=-64(F=-10), 4-8=-10, 5-7=-64(F=-10)
   Drag: 3-15=-10, 9-13=-10

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	PB04_ALT	PIGGYBACK	19	1	J1917987A Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Dec 18 15:18:53 2007 Page 1

Note: A single ply Piggyback must be attached to a single ply of a multi ply supporting truss.
Engineer of Record to specify any additional required connections.

Scale = 1:24.9

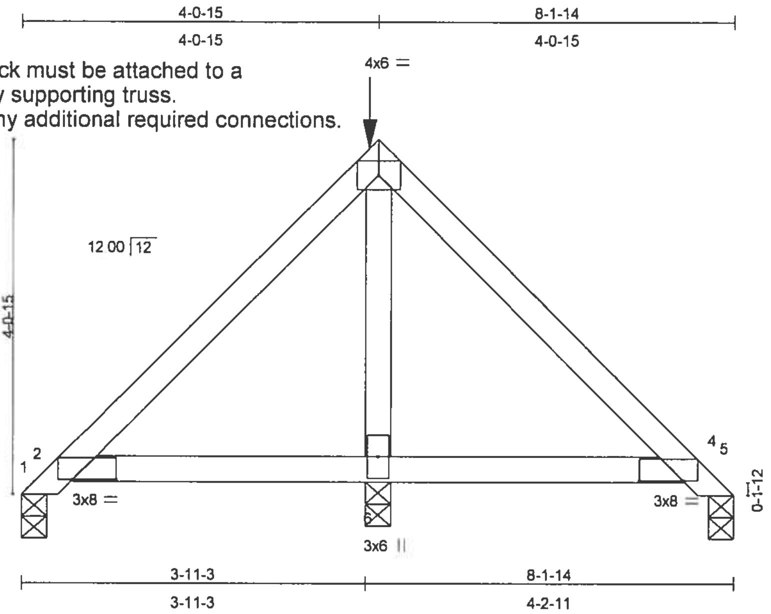

Plate Offsets (X,Y): [2:0-6-1,0-0-0], [4:0-6-1,0-0-0]

LOADING (psf)			SPACING	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.26	Vert(LL)	-0.02	4-6	>999	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.03	4-6	>999	240		
BCLL	10.0	*	Rep Stress Incr	NO	WB	0.41	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0		Code FBC2004/TPI2002		(Matrix)							Weight: 32 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 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 3

REACTIONS (lb/size) 1=201/0-3-8, 6=1809/0-3-8, 5=201/0-3-8
Max Horz 1=-218(load case 4)
Max Uplift 1=-57(load case 4), 6=-524(load case 6), 5=-57(load case 4)
Max Grav 1=252(load case 10), 6=1809(load case 1), 5=252(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-197/214, 2-3=-190/177, 3-4=-190/143, 4-5=-155/45
BOT CHORD 2-6=-38/217, 4-6=-38/217
WEBS 3-6=-1621/1015

JOINT STRESS INDEX
2 = 0.73, 3 = 0.56, 4 = 0.73 and 6 = 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; 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
5) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	PB04_ALT	PIGGYBACK	19	1	J1917987A Job Reference (optional)

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 1, 524 lb uplift at joint 6 and 57 lb uplift at joint 5.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

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: 1-2=-134, 2-3=-108, 3-4=-108, 4-5=-134, 2-4=-20
   Concentrated Loads (lb)
      Vert: 3=-1200(F)

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Job	Truss	Truss Type	Qty	Ply	METZGER RESIDENCE
L166201	PB04_GBL	PIGGYBACK	19	1	J1917987B Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Dec 19 10:13:43 2007 Page 1

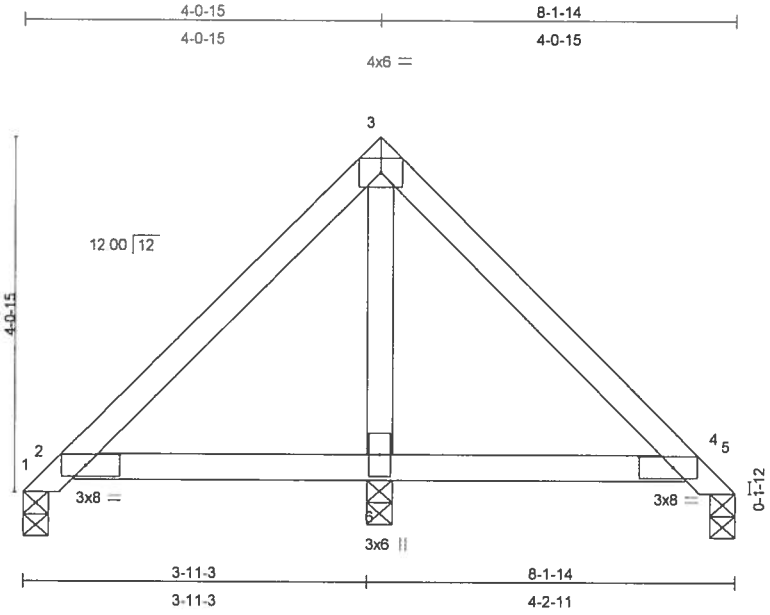

Plate Offsets (X,Y): [2:0-4-11,0-1-8], [4:0-4-11,0-1-8]

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)	-0.01	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.01	4-6	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.12	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 32 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=60/0-3-8, 5=60/0-3-8, 6=582/0-3-8
Max Horz 1=-109(load case 4)
Max Uplift 1=-21(load case 4), 5=-21(load case 4), 6=-173(load case 6)
Max Grav 1=85(load case 10), 5=85(load case 11), 6=582(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-104/101, 2-3=-101/234, 3-4=-101/234, 4-5=-51/16
BOT CHORD 2-6=-85/164, 4-6=-85/164
WEBS 3-6=-487/342

JOINT STRESS INDEX
2 = 0.39, 3 = 0.33, 4 = 0.39 and 6 = 0.11

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) *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) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

[illegible]

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Continued on page 2

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 21 lb uplift at joint 5 and 173 lb uplift at joint 6.

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

8) Truss designed for wind loads in plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail".

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-92(F=-25), 2-3=-79(F=-25), 3-4=-79(F=-25), 4-5=-92(F=-25), 2-4=-10

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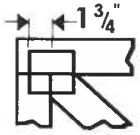
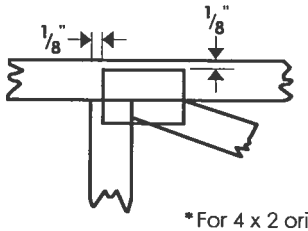
Symbols

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

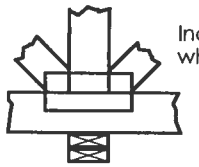
4 x 4

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

LATERAL BRACING

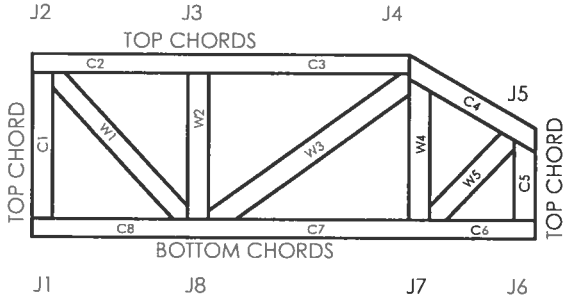
Indicates location of required continuous lateral bracing.

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®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-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 ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

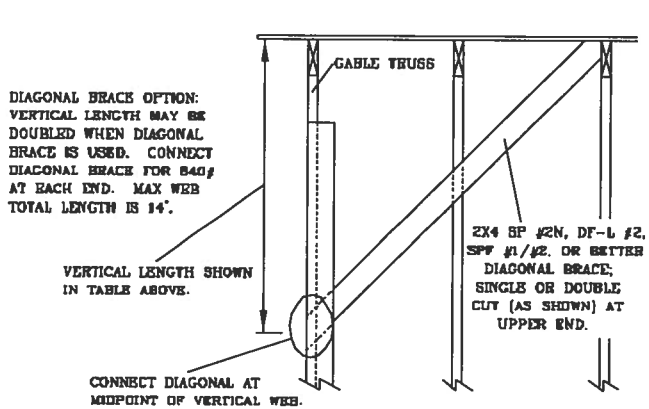
SOUTHERN PINE
#3
STUD
STANDARD

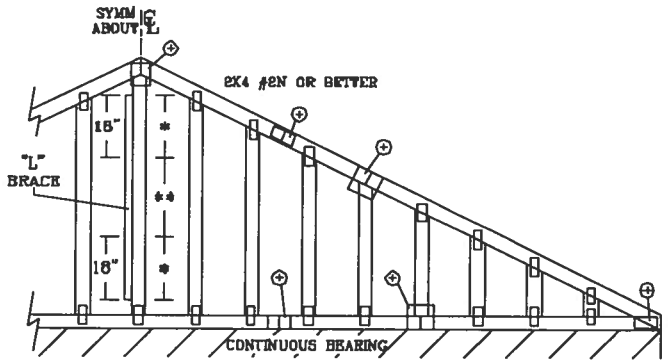
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB13015
DATE 11/26/03
DRWG MITEK STD GABLE 15 E HT
-ENG

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

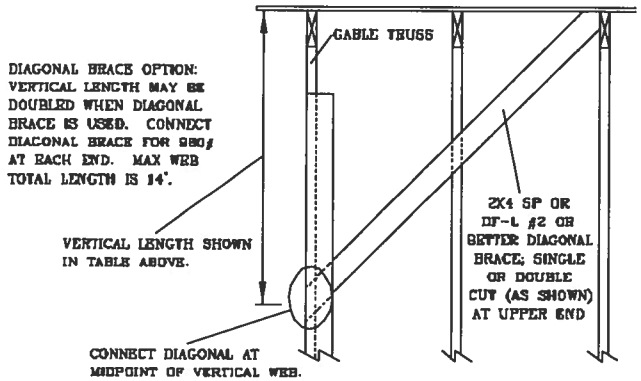
SOUTHERN PINE
#3
STUD
STANDARD

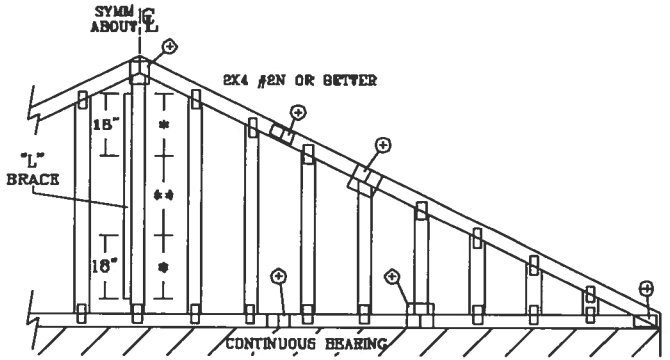
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

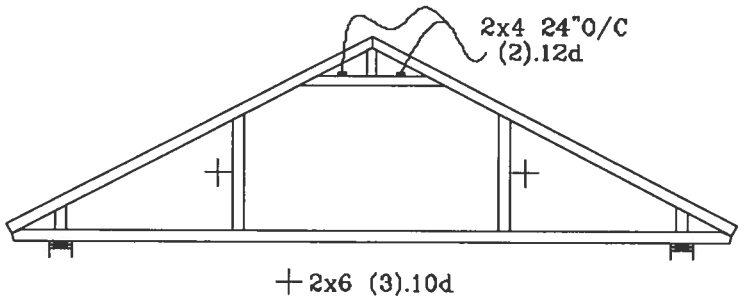
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

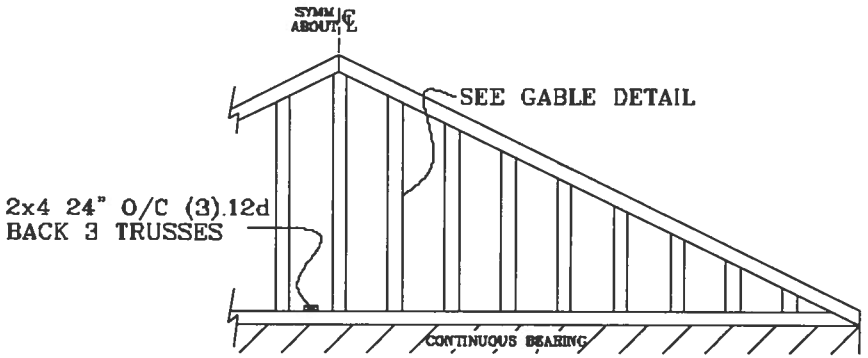
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MITEK STD GABLE 90' E H7
-ENG

TYPICAL ATTIC TRUSS BRACING

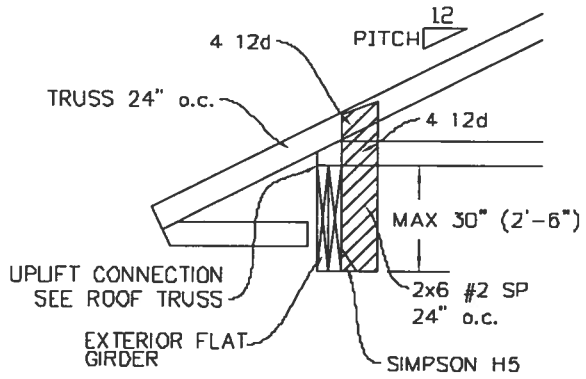


GABLE END TRUSS DETAIL

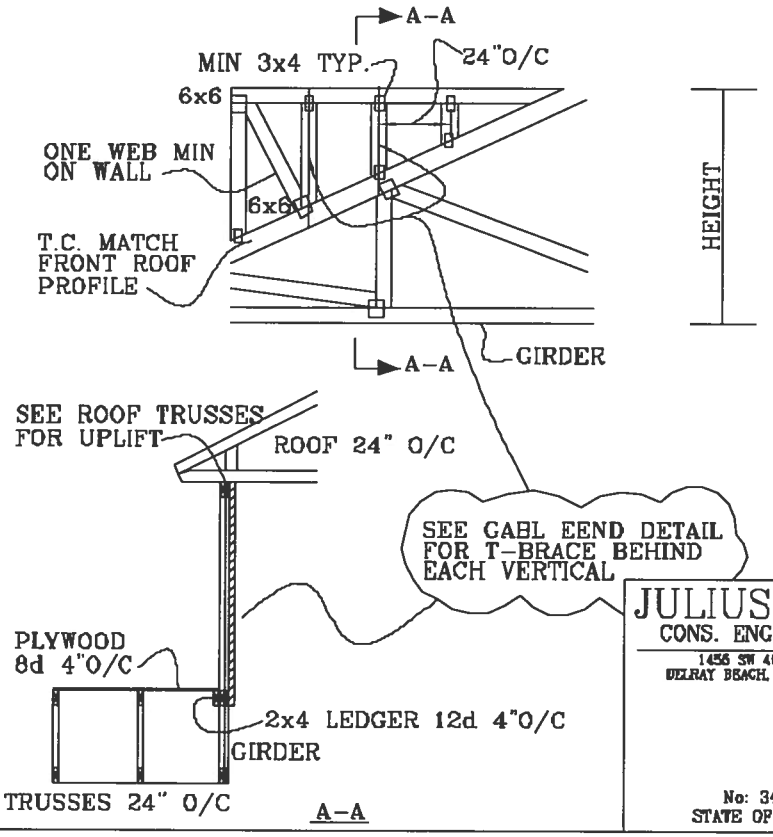


MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

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

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 I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

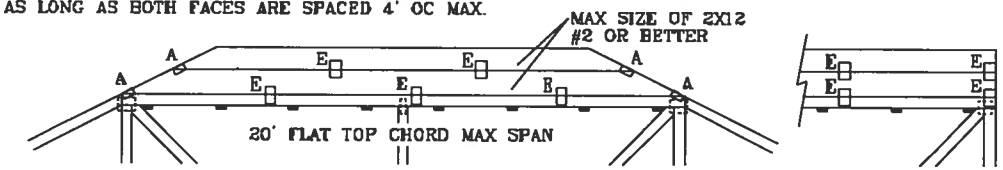
110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

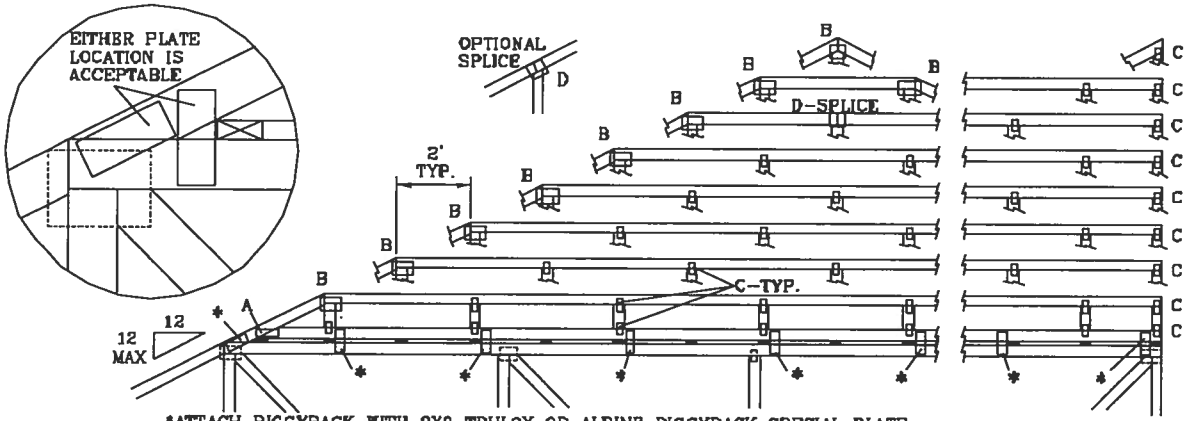
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
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 TRULOX AT 4' OC, ROTATED VERTICALLY			

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



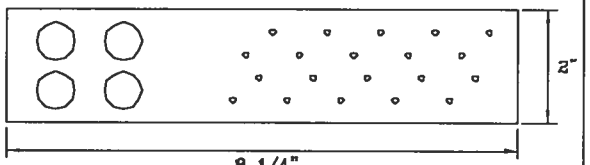


*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.

* 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.



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

xxWARNINGxx TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1488 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

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

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

VALLEY TRUSS DETAIL

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

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

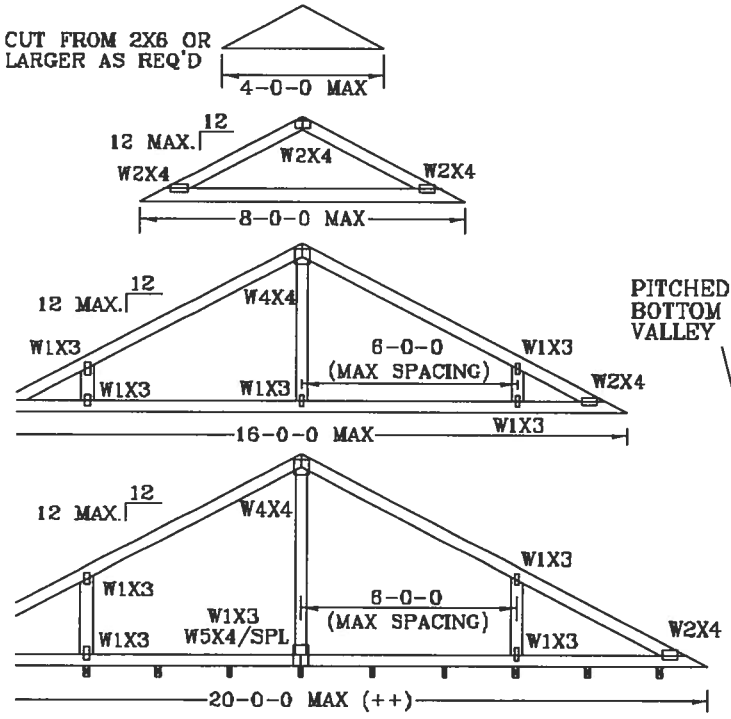
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

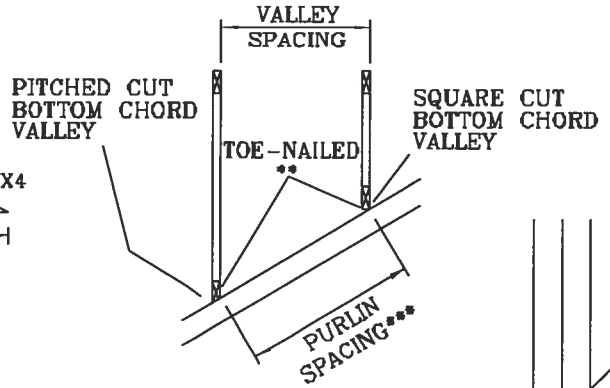
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

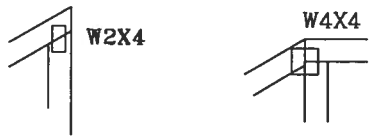
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

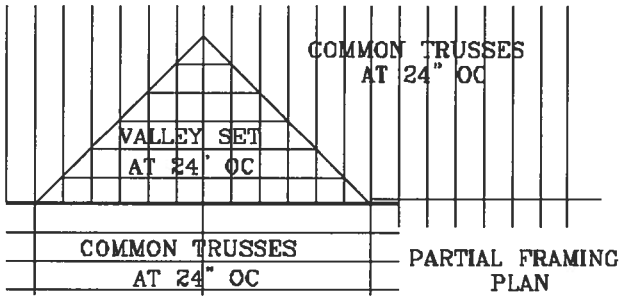
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

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No: 34869
STATE OF FLORIDA

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

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."

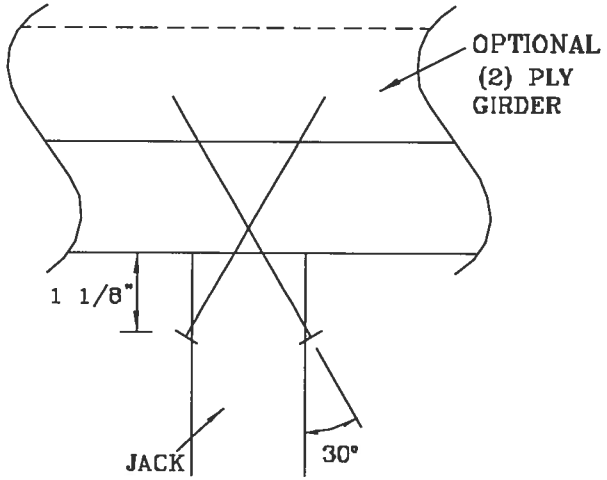
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

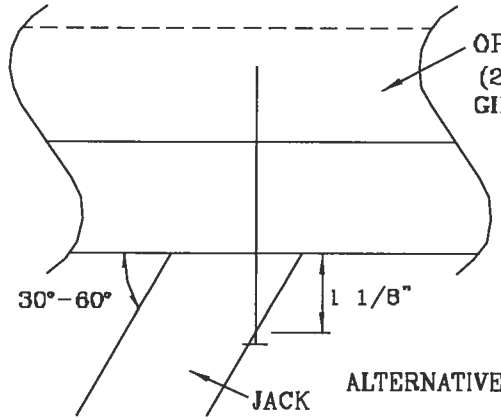
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

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 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

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





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

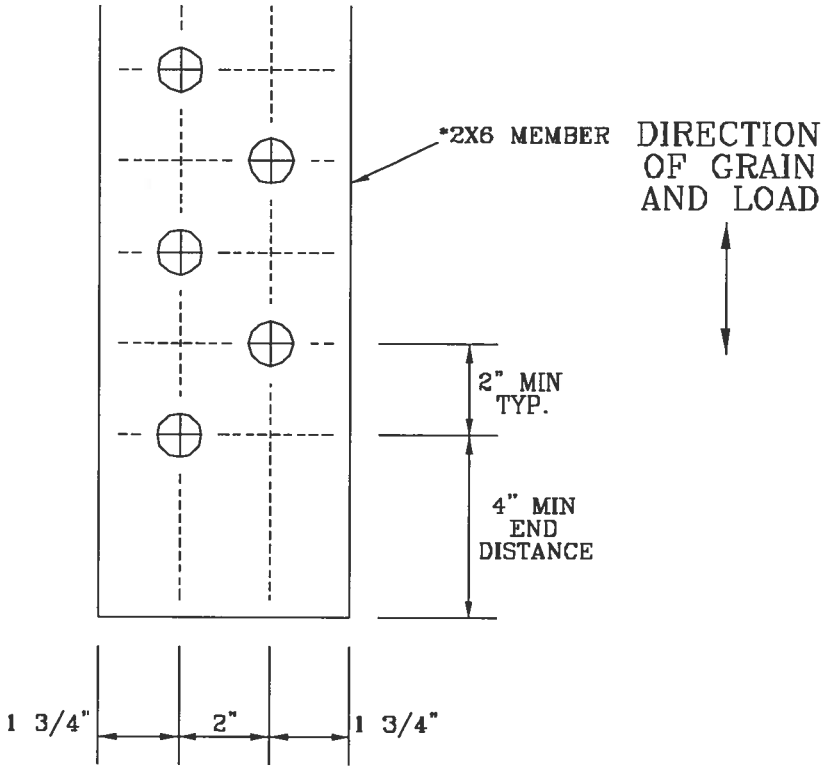
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

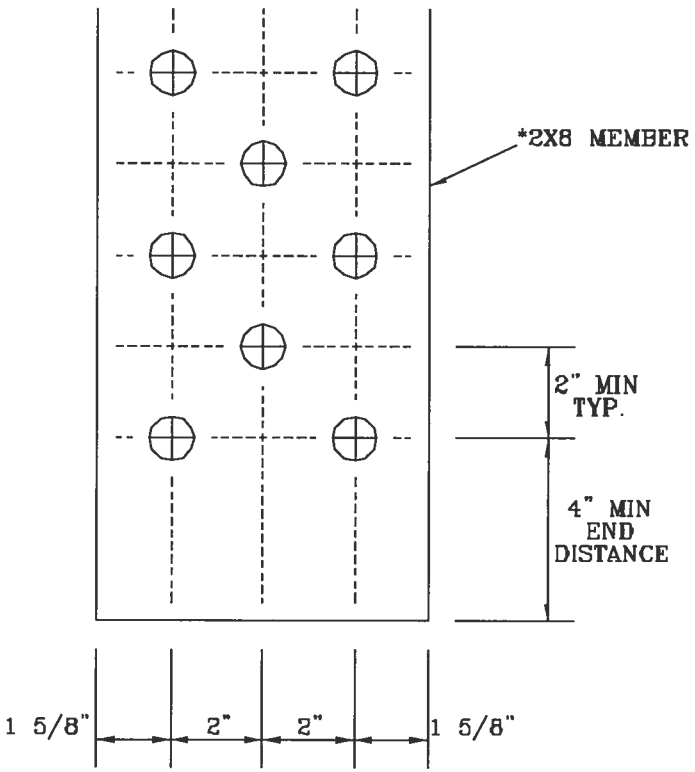
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

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 A628.016

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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No: 34669
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

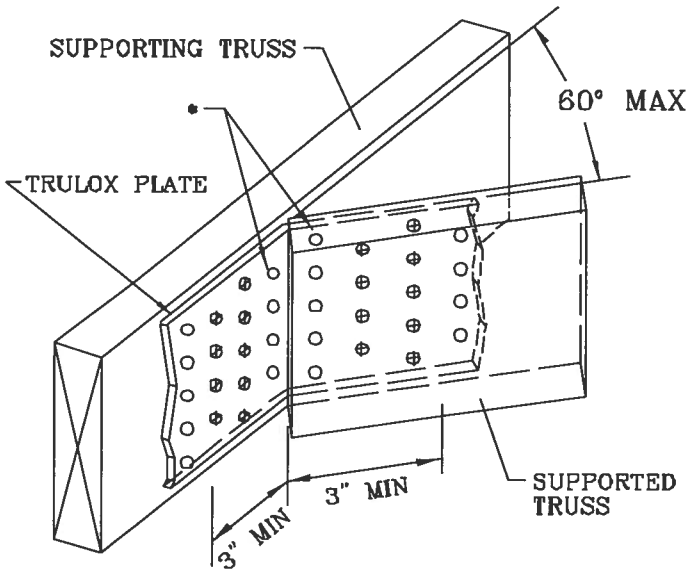
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

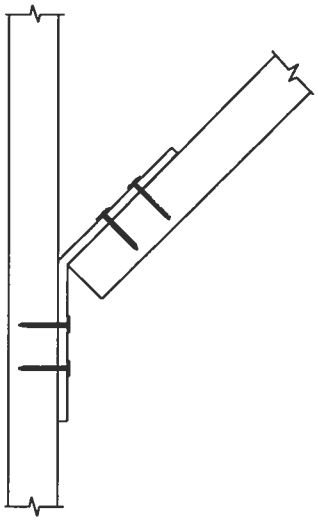
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

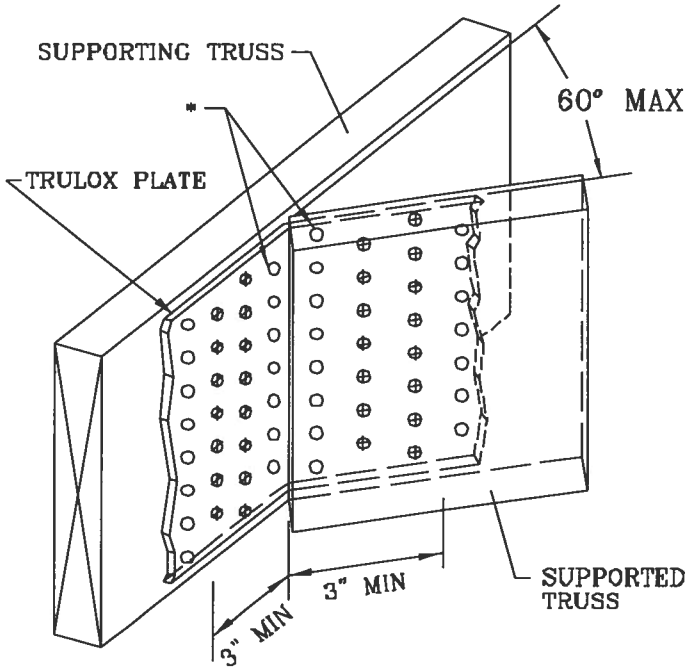
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	15	990#

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524

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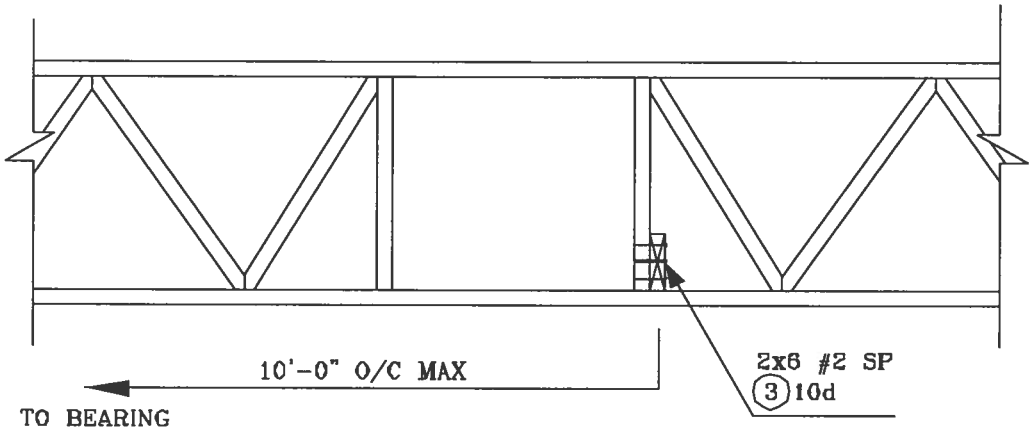
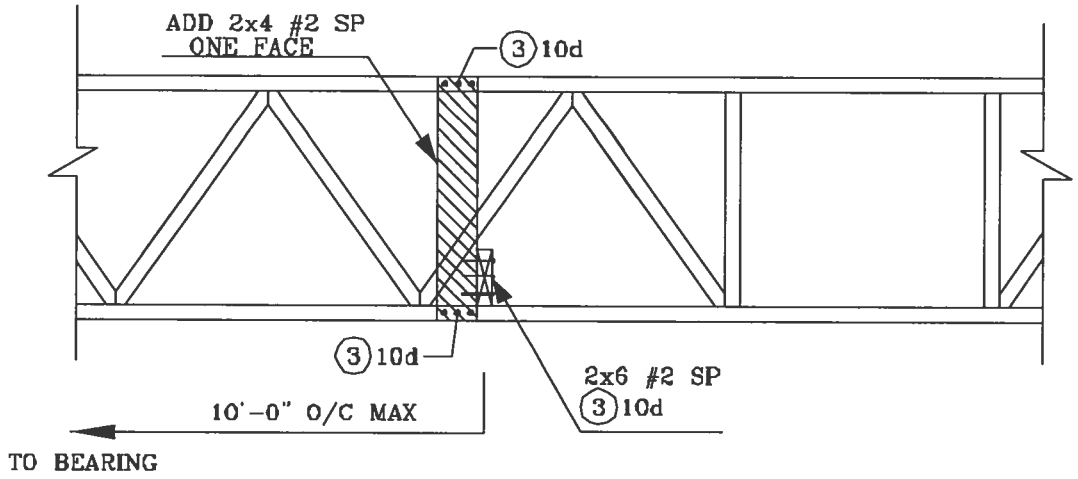
No: 34869
STATE OF FLORIDA

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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