Project Information for:	L141046		
Builder:	BRYAN ZECHER	Date:	11/17/2005
Lot:	LOT 14 COUNTRYSIDE EST/	Start Number:	1485
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	37		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6.2

Gravity		Wind		Building Code:	FBC2004
Roof (psf):	42	Wind Standard:	ASCE 7-02		
Floor (psf):	55	Wind Speed (mph):	110		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

ZECHER, BRYAN C. CBC 054575
Address: PO BOX 815
ALACHUA,FL 32615 Designer: 136

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	1117051485	11/17/2005				
2	CJ3	1117051486	11/17/2005				
3	CJ3T	1117051487	11/17/2005				
4	CJ5	1117051488	11/17/2005				
5	CJ5T	1117051489	11/17/2005				
6	EJ5	1117051490	11/17/2005				
7	EJ7	1117051491	11/17/2005				
8	EJ7A	1117051492	11/17/2005				
9	EJ7T	1117051493	11/17/2005				
10	HJ5	1117051494	11/17/2005				
11	HJ7	1117051495	11/17/2005				
12	HJ7T	1117051496	11/17/2005				
13	T01	1117051497	11/17/2005				
14	T01H	1117051498	11/17/2005				
15	T02H	1117051499	11/17/2005				
16	T03H	1117051500	11/17/2005				
17	T04	1117051501	11/17/2005				
18	T05H	1117051502	11/17/2005				
19	T06H	1117051503	11/17/2005				
20	T07	1117051504	11/17/2005				
21	T08	1117051505	11/17/2005				
22	T09	1117051506	11/17/2005				
23	T10	1117051507	11/17/2005				
24	T11H	1117051508	11/17/2005				
25	T12H	1117051509	11/17/2005				
26	T13H	1117051510	11/17/2005				
27	T14H	1117051511	11/17/2005				
28	T15H	1117051512	11/17/2005				
29	T16H	1117051513	11/17/2005				
30	T17H	1117051514	11/17/2005				
31	T18H	1117051515	11/17/2005				
32	T19H	1117051516	11/17/2005				
33	T20H	1117051517	11/17/2005				
34	T21H	1117051518	11/17/2005				
35	T22H	1117051519	11/17/2005				
36	T23	1117051520	11/17/2005				
37	T24	1117051521	11/17/2005				

NOV 17 2005

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Name:	**ZECHER, BRYAN CHRISTIAN** (Primary Name) **BRYAN ZECHER CONSTRUCTION INC** (DBA
Main Address:	**P O BOX 815** **LAKE CITY, Florida 32056**
Lic. Location:	**465 NW ORANGE ST** **LAKE CITY, FL 32055 United States** **Columbia**

License Information

License Type:	**Certified Building Contractor**
Rank:	**Cert Building**
License Number:	**CBC054575**
Status:	**Current, Active**
Licensure Date:	**12/05/1991**
Expires:	**08/31/2006**

Special Qualifications	Effective Date
Bldg Code Core Course Credit	
Qualified Business License Required	04/13/2004

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NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC EB 9196
16105 N FLORIDA AVE, STE B LUTZ, FL 33549

Dwg.#1117051485

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	CJ1	MONO TRUSS	16	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:06 2005 Page 1

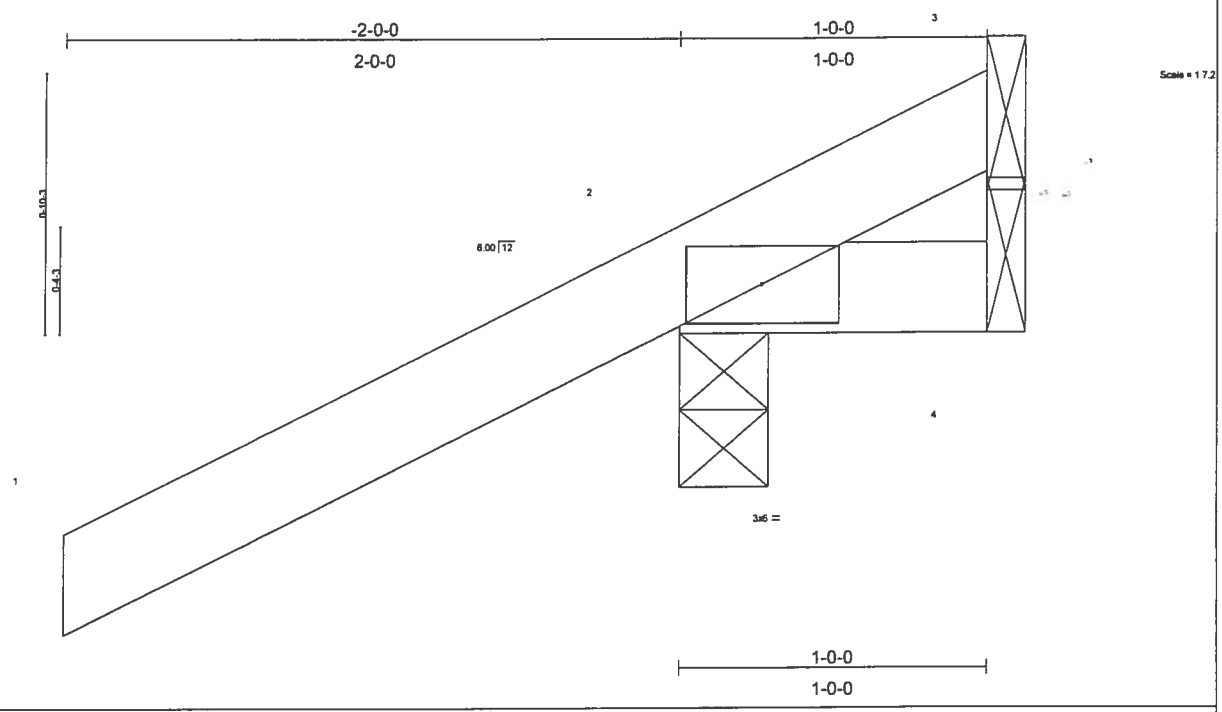

Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

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

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

REACTIONS (lb/size) 2=266/0-3-8, 4=14/Mechanical, 3=-90/Mechanical
Max Horz 2=87(load case 5)
Max Uplift2=-274(load case 5), 3=-90(load case 1)
Max Grav 2=266(load case 1), 4=14(load case 1), 3=127(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-69/75
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2 and 90 lb uplift at joint 3.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B LUTZ, FL 33549

Dwg.#1117051486

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	CJ3	MONO TRUSS	14	1	Job Reference (optional)

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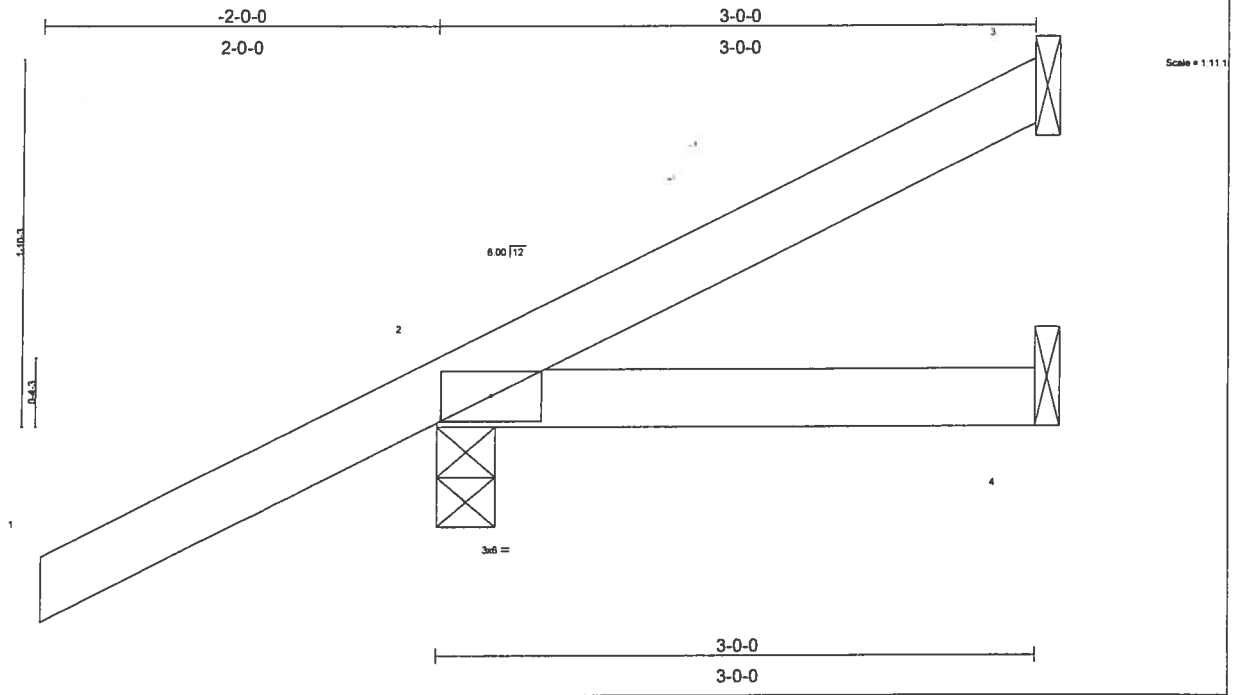


Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

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

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

REACTIONS (lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical
Max Horz 2=132(load case 5)
Max Uplift3=-28(load case 6), 2=-203(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-57/7
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3 and 203 lb uplift at joint 2.

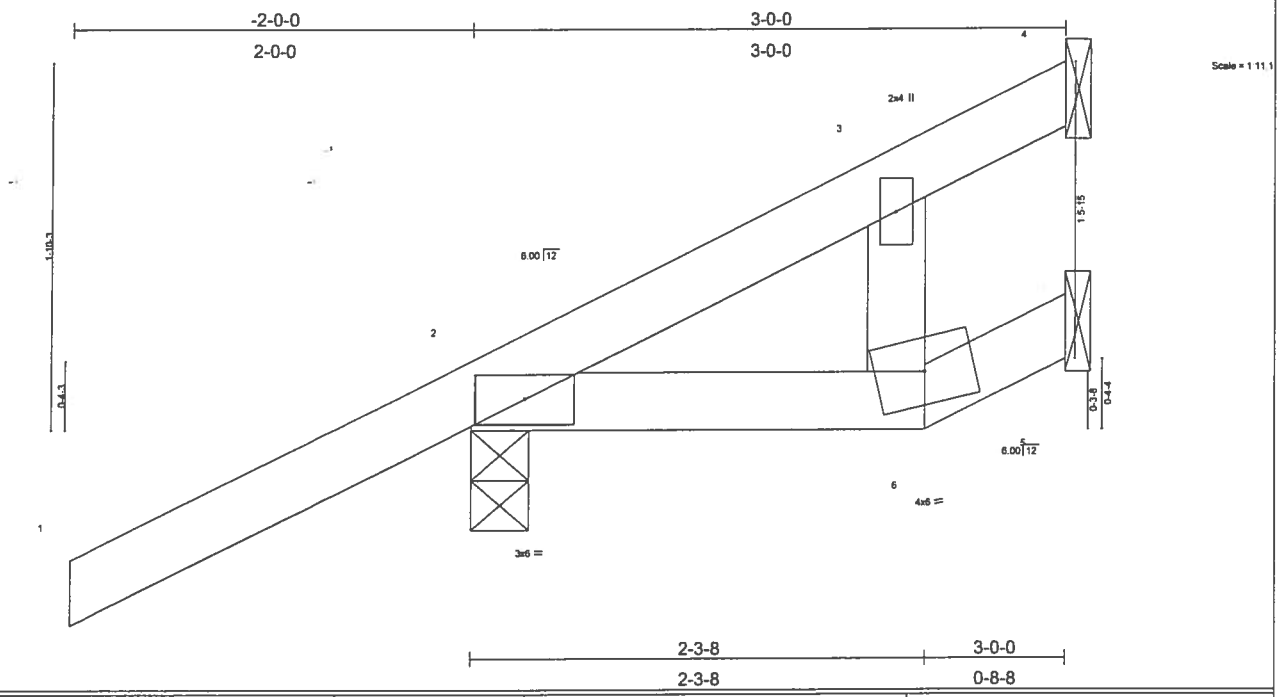
LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051487

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	CJ3T	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:08 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.01	6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.01	6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(TL)	-0.00	5	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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 4=63/Mechanical, 2=278/0-3-8, 5=10/Mechanical
Max Horz 2=132(load case 5)
Max Uplift4=-21(load case 6), 2=-203(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-58/2, 3-4=-18/26
BOT CHORD 2-6=-6/0, 5-6=-4/4
WEBS 3-6=0/42

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 4 and 203 lb uplift at joint 2.

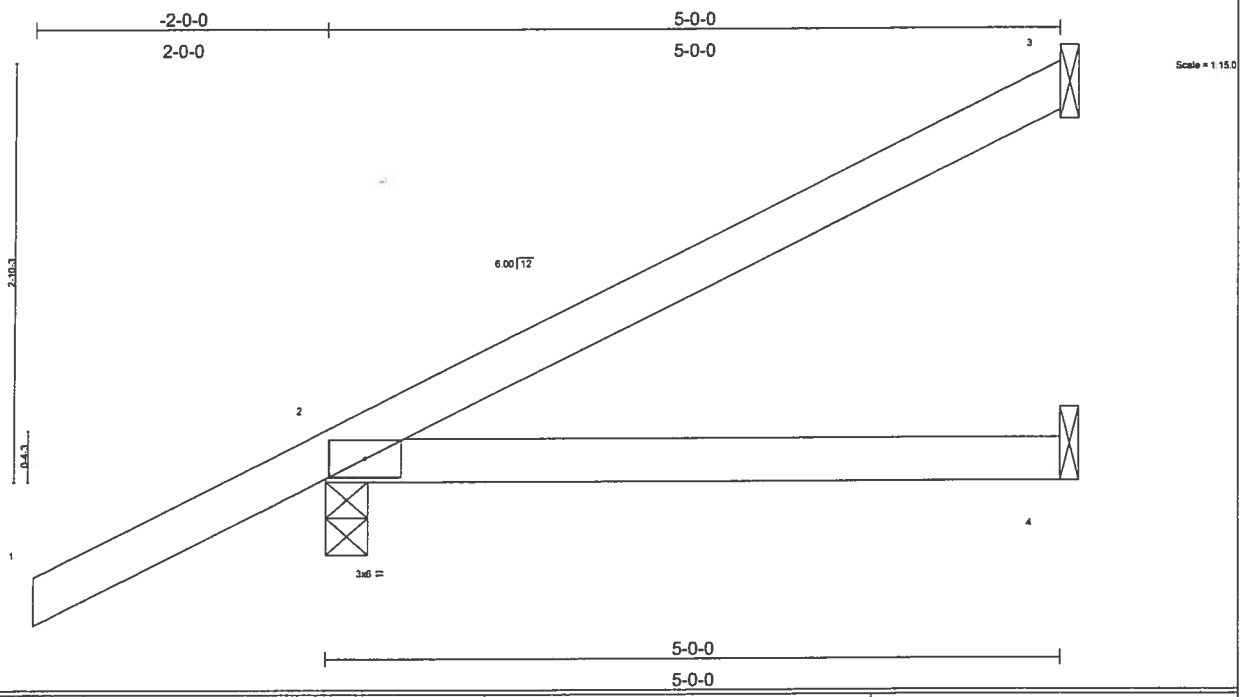
LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B LUTZ, FL 33549

Dwg.#1117051488

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	CJ5	MONO TRUSS	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:08 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

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

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift3=-87(load case 5), 2=-199(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-88/36
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051489

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481289
L141046	CJ5T	SPECIAL	2	1	Job Reference (optional)	

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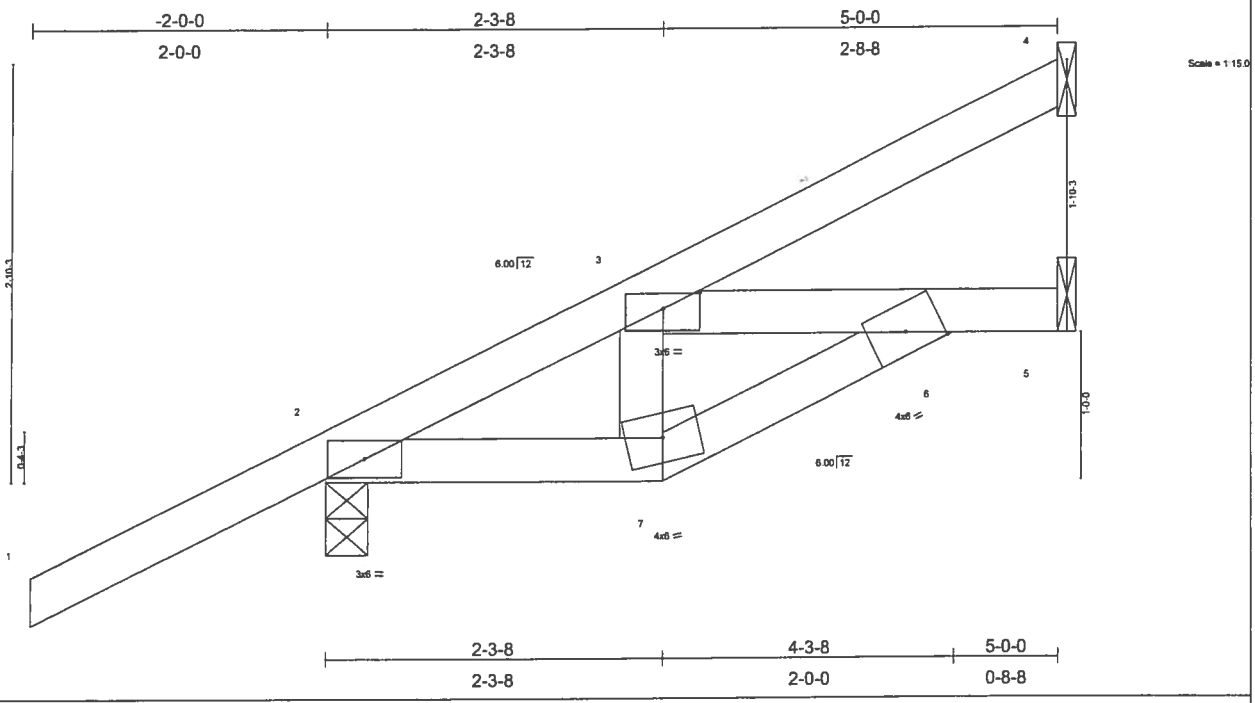

Plate Offsets (X,Y): [3:0-3-0,0-1-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.01	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.02	3-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=77/Mechanical, 2=366/0-3-8, 5=139/Mechanical
Max Horz 2=178(load case 5)
Max Uplift4=-67(load case 5), 2=-195(load case 5), 5=-5(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-265/0, 3-4=-56/27
BOT CHORD 2-7=-90/181, 6-7=-95/210, 3-6=-177/83, 5-6=0/0
WEBS 3-7=-27/54

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 4, 195 lb uplift at joint 2 and 5 lb uplift at joint 5.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051490

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	EJ5	MONO TRUSS	11	1	Job Reference (optional)

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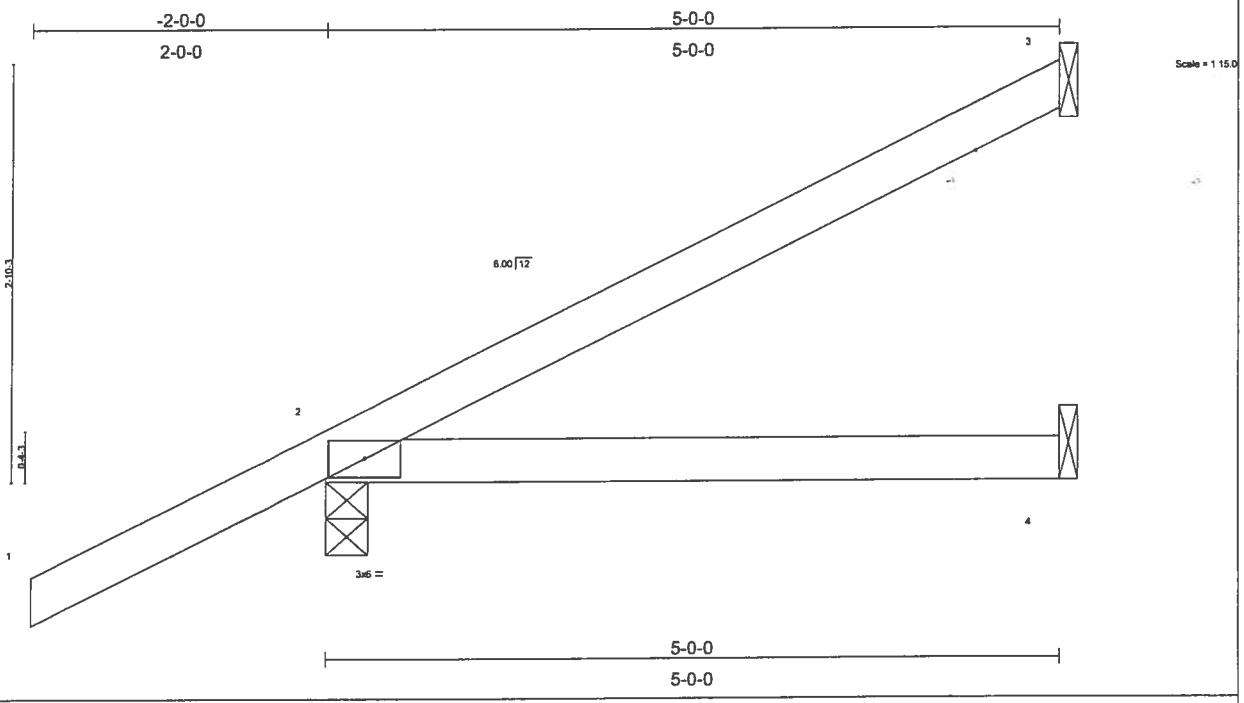


Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

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

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift3=-87(load case 5), 2=-199(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-88/36
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051491

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	EJ7	MONO TRUSS	15	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:10 2005 Page 1

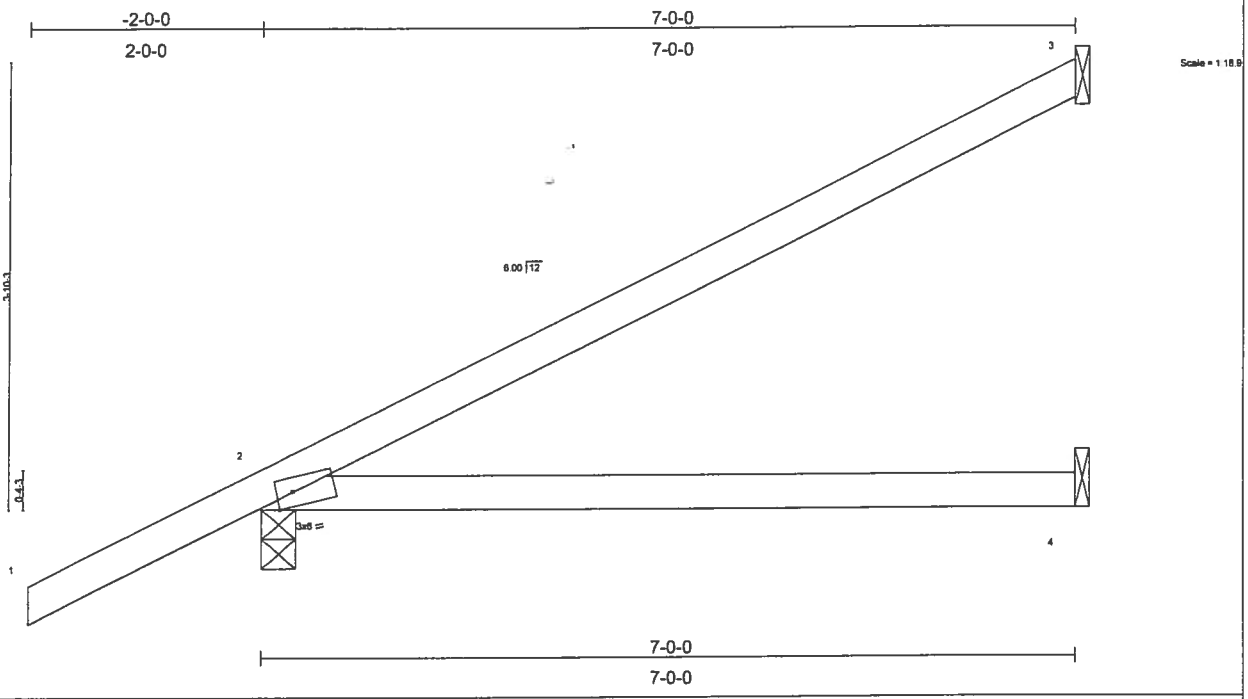


Plate Offsets (X,Y): [2:0-1-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.12	2-4	>664	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.21	2-4	>397	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

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

REACTIONS (lb/size) 3=162/Mechanical, 2=419/0-3-8, 4=104/Mechanical
Max Horz 2=224(load case 5)
Max Uplift3=-134(load case 5), 2=-210(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-119/58
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3 and 210 lb uplift at joint 2.

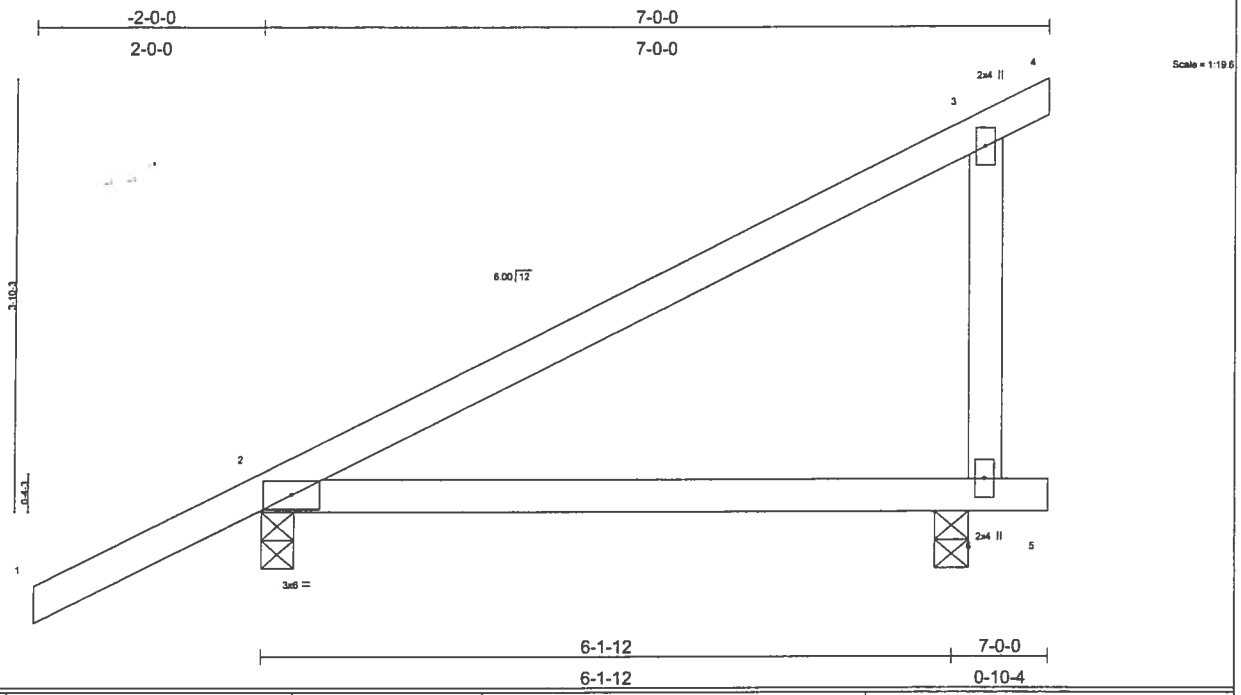
LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051492

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481260
L141046	EJ7A	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:11 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	0.23	2-6	>328	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	0.20	2-6	>386	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb	

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

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

REACTIONS (lb/size) 2=398/0-3-8, 6=294/0-3-8
Max Horz 2=223(load case 5)
Max Uplift2=-279(load case 5), 6=-213(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-147/54, 3-4=-14/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-181/265

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 2 and 213 lb uplift at joint 6.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051493

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481292
L141046	EJ7T	SPECIAL	5	1	Job Reference (optional)	

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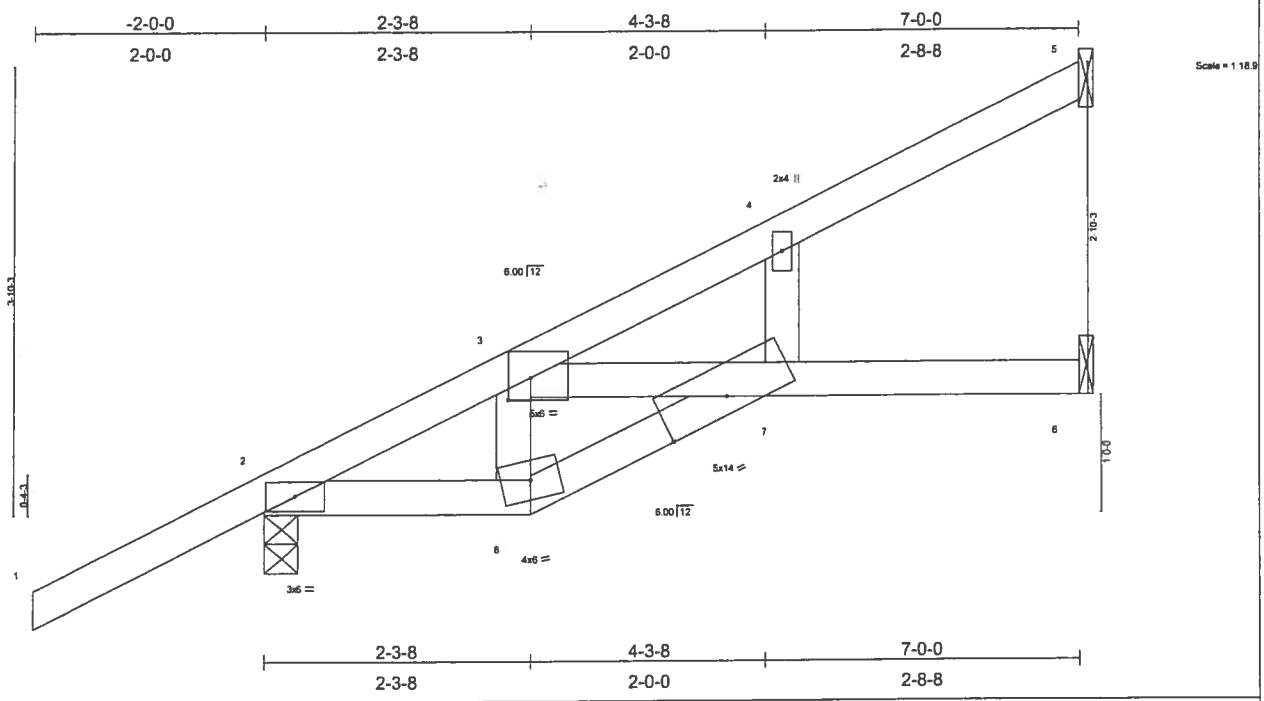

Plate Offsets (X,Y): [3:0-2-4,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.20	3-7	>415	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.26	3-7	>310	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.12	6	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 10-0-0 oc bracing.

REACTIONS (lb/size) 5=140/Mechanical, 2=419/0-3-8, 6=127/Mechanical
Max Horz 2=224(load case 5)
Max Uplift5=-88(load case 5), 2=-210(load case 5), 6=-38(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-139/0, 3-4=-130/15, 4-5=-70/57
BOT CHORD 2-8=0/0, 3-7=-2/2, 6-7=0/0
WEBS 3-8=0/42, 4-7=-40/115

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5, 210 lb uplift at joint 2 and 38 lb uplift at joint 6.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051494

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	HJ5	MONO TRUSS	4	1	Job Reference (optional)

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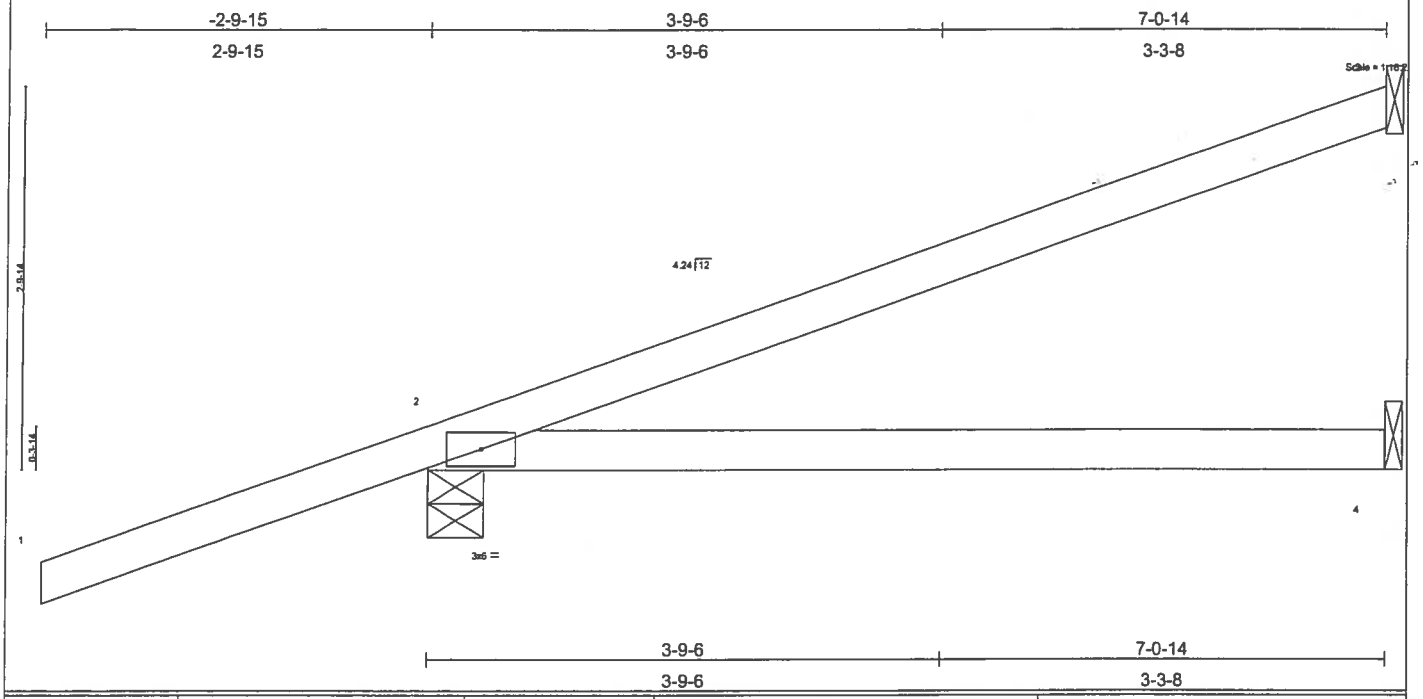

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.08	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.13	2-4	>609	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

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

REACTIONS (lb/size) 3=192/Mechanical, 2=375/0-4-15, 4=111/Mechanical
Max Horz 2=167(load case 2)
Max Uplift3=-145(load case 2), 2=-248(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-68/45
BOT CHORD 2-4=0/0

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 3 and 248 lb uplift at joint 2.
4) 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=-3(F=26, B=26)-to-3=-95(F=-21, B=-21), 2=-0(F=15, B=15)-to-4=-53(F=-12, B=-12)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051495

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	HJ7	MONO TRUSS	3	1	Job Reference (optional)

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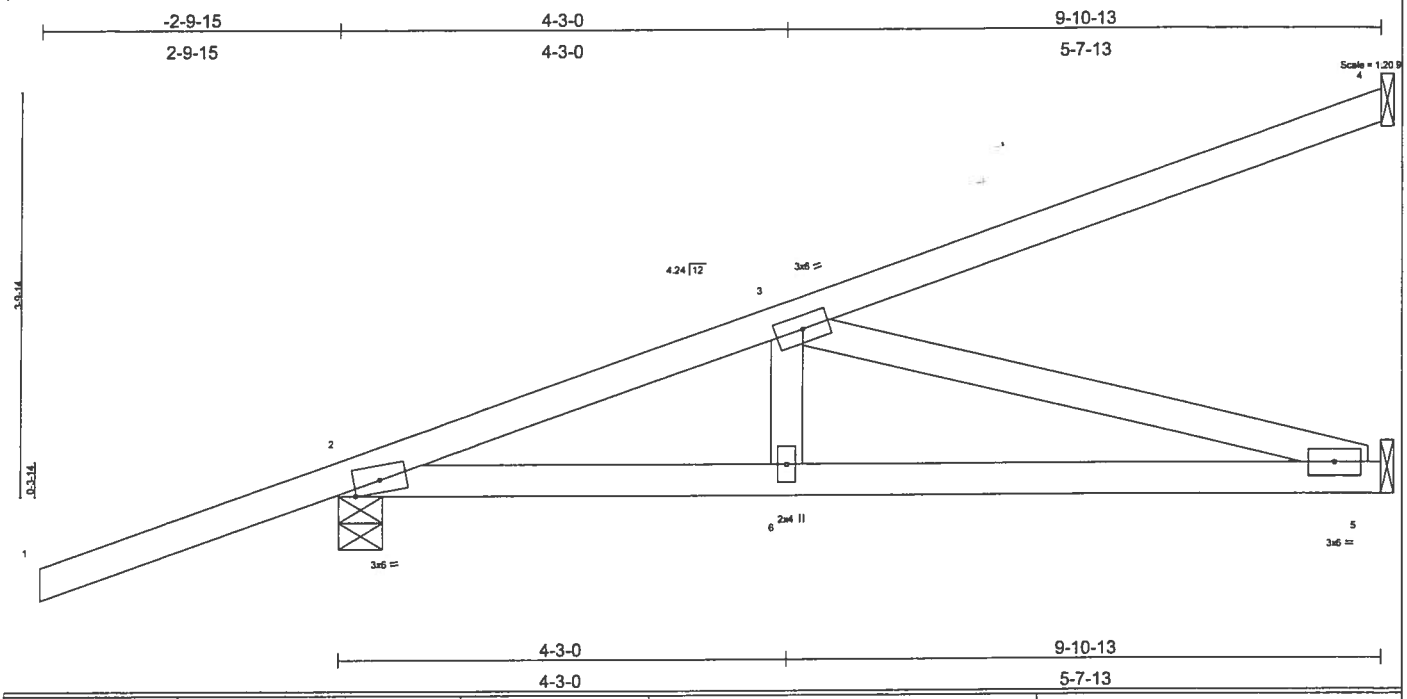

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.14	5-6	>818	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

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

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

REACTIONS (lb/size) 4=268/Mechanical, 2=531/0-4-15, 5=377/Mechanical
Max Horz 2=269(load case 2)
Max Uplift4=-231(load case 2), 2=-278(load case 2), 5=-64(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-876/115, 3-4=-105/65
BOT CHORD 2-6=-304/813, 5-6=-304/813
WEBS 3-6=0/163, 3-5=-843/316

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 278 lb uplift at joint 2 and 64 lb uplift at joint 5.
4) 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=-3(F=26, B=26)-to-4=-134(F=-40, B=-40), 2=-0(F=15, B=15)-to-5=-74(F=-22, B=-22)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051496

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	HJ7T	SPECIAL	1	1	J1481294
					Job Reference (optional)

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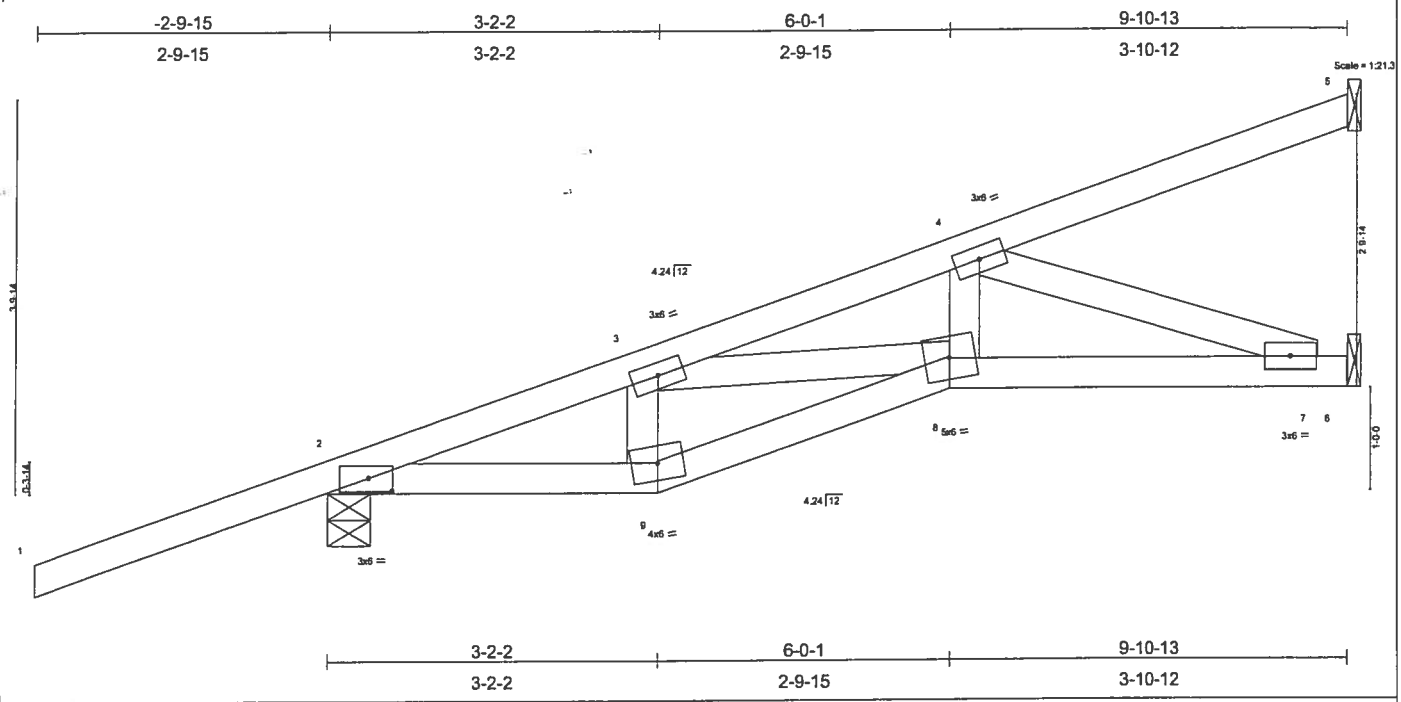

Plate Offsets (X,Y): [2:0-2-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.08	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.32	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 47 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-1 oc bracing.

REACTIONS (lb/size) 5=189/Mechanical, 2=532/0-4-15, 6=457/Mechanical
Max Horz 2=268(load case 2)
Max Uplift5=-159(load case 2), 2=-278(load case 2), 6=-135(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-668/14, 3-4=-1207/332, 4-5=-74/47
BOT CHORD 2-9=-163/598, 8-9=-163/632, 7-8=-480/1076, 6-7=0/0
WEBS 3-9=-223/127, 3-8=-349/558, 4-8=-19/417, 4-7=-1139/508

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 5, 278 lb uplift at joint 2 and 135 lb uplift at joint 6.
4) 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=-3(F=26, B=26)-to-5=-134(F=-40, B=-40), 2=-0(F=15, B=15)-to-9=-23(F=4, B=4), 9=-23(F=4, B=4)-to-8=-45(F=-7, B=-7), 8=-45(F=-7, B=-7)-to-6=-74(F=-22, B=-22)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

Dwg.#1117051497

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T01	COMMON	6	1	Job Reference (optional)

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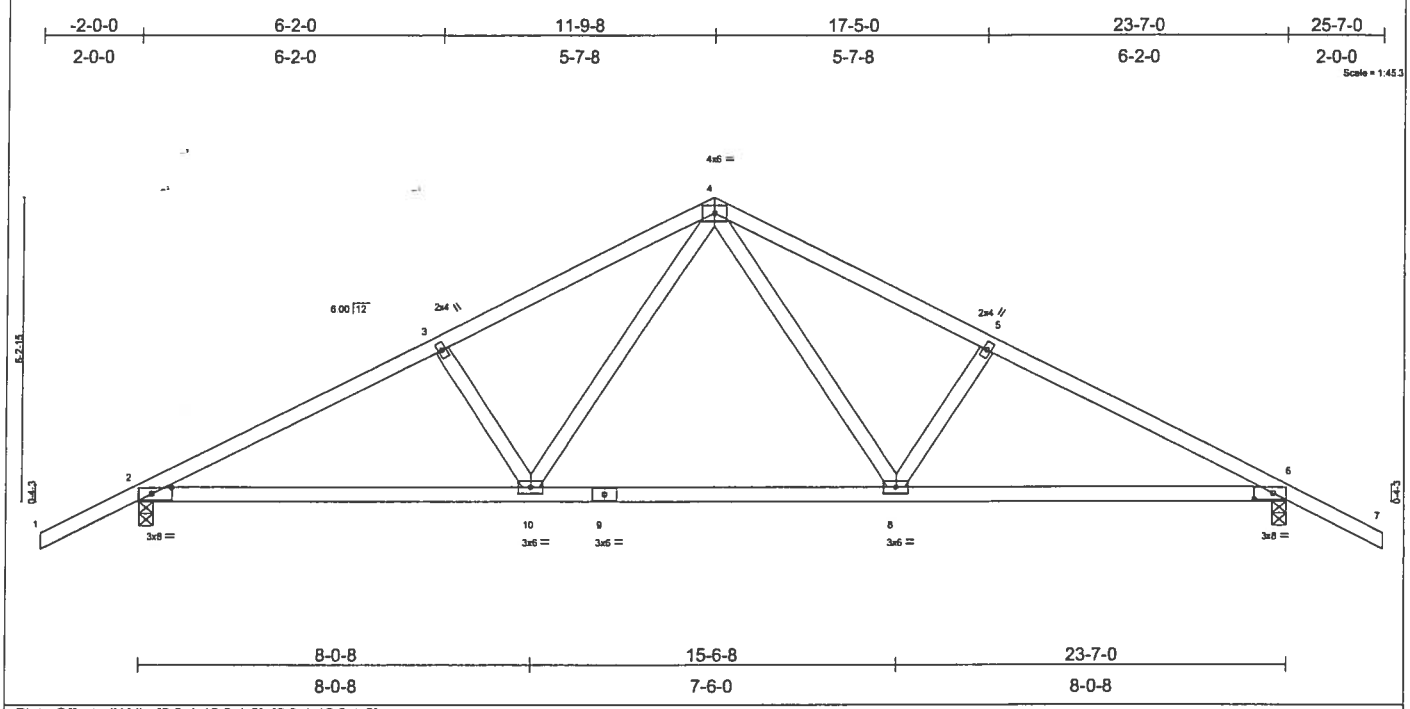

Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.27	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.43	8-10	>646	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(TL)	0.06	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 4-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-2 oc bracing.

REACTIONS (lb/size) 2=1282/0-3-8, 6=1282/0-3-8
Max Horz 2=-121(load case 6)
Max Uplift2=-514(load case 5), 6=-514(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-2089/912, 3-4=-1916/910, 4-5=-1916/910, 5-6=-2089/912, 6-7=0/47
BOT CHORD 2-10=-636/1792, 9-10=-324/1228, 8-9=-324/1228, 6-8=-636/1792
WEBS 3-10=-277/256, 4-10=-327/812, 4-8=-327/812, 5-8=-277/256

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 514 lb uplift at joint 2 and 514 lb uplift at joint 6.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=-50), 6-8=-30

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051498

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T01H	HIP	1	1	Job Reference (optional)

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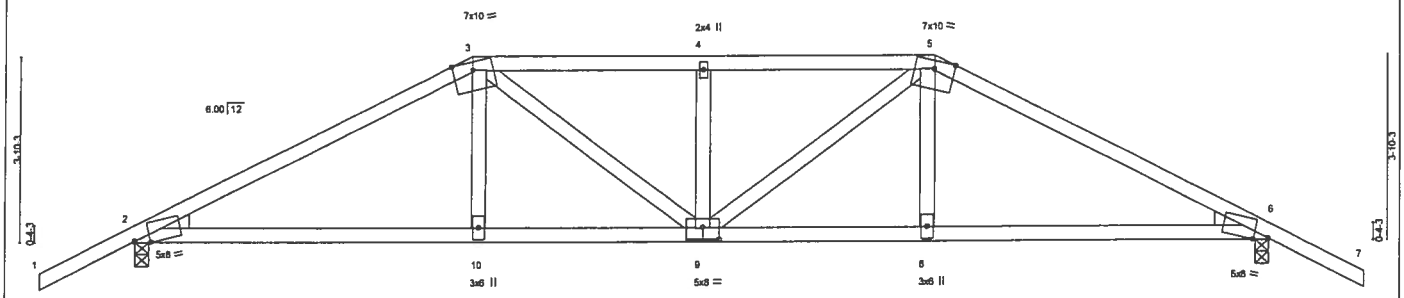
-2-0-0	7-0-0	11-9-8	16-7-0	23-7-0	25-7-0
2-0-0	7-0-0	4-9-8	4-9-8	7-0-0	2-0-0

Scale = 1:45.7



7-0-0	11-9-8	16-7-0	23-7-0
7-0-0	4-9-8	4-9-8	7-0-0

Plate Offsets (X,Y): [2:0-3-13,Edge], [6:0-3-13,Edge], [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	0.60	Vert(LL)	-0.22	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.80	Vert(TL)	-0.35	8-9	>805	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(TL)	0.13	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
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-8 oc bracing.

REACTIONS (lb/size) 2=2102/0-3-8, 6=2102/0-3-8
Max Horz 2=-87(load case 5)
Max Uplift2=-932(load case 4), 6=-932(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-3838/1556, 3-4=-3930/1694, 4-5=-3930/1694, 5-6=-3838/1556, 6-7=0/47
BOT CHORD 2-10=-1344/3340, 9-10=-1353/3374, 8-9=-1312/3374, 6-8=-1303/3340
WEBS 3-10=-229/818, 3-9=-417/804, 4-9=-568/496, 5-9=-418/804, 5-8=-229/818

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; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 932 lb uplift at joint 2 and 932 lb uplift at joint 6.
5) Girder carries hip end with 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 16-7-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-118(F=-64), 5-7=-54, 2-10=-30, 8-10=-65(F=-35), 6-8=-30
Concentrated Loads (lb)
Vert: 10=-539(F) 8=-539(F)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
10125 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051499

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481297
L141046	T02T	SPECIAL	1	1	Job Reference (optional)	

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-2-0-0	2-3-8	4-3-8	7-0-0	10-2-12	13-5-8	15-5-8	19-9-9	23-11-15	28-4-0
2-0-0	2-3-8	2-0-0	2-8-8	3-2-12	3-2-12	2-0-0	4-4-1	4-2-5	4-4-1

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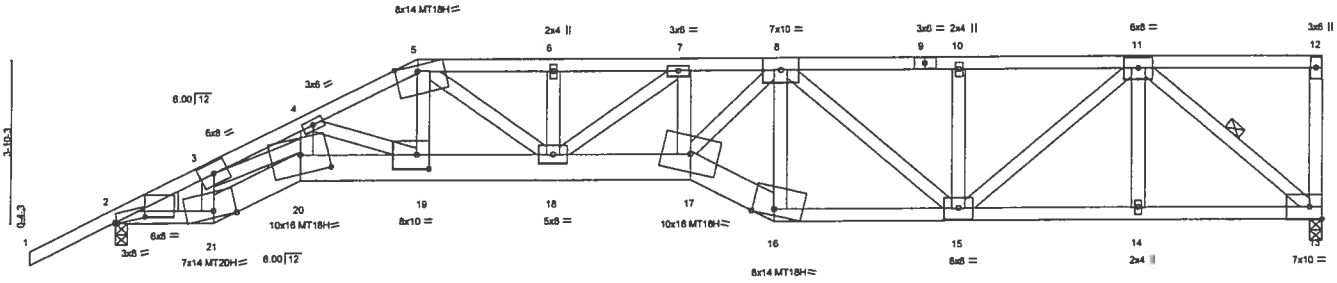


2-3-8	4-3-8	7-0-0	10-2-12	13-5-8	15-5-8	19-9-9	23-11-15	28-4-0
2-3-8	2-0-0	2-8-8	3-2-12	3-2-12	2-0-0	4-4-1	4-2-5	4-4-1

Plate Offsets (X,Y): [2:0-8-7,0-1-12], [2:0-0-10,Edge], [5:0-6-3,Edge], [16:0-6-3,Edge], [19:0-3-8,0-4-0], [20:0-7-12,0-5-4], [21:0-6-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.80	Vert(LL)	-0.49	17-18	>682	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.79	17-18	>426	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(TL)	0.31	13	n/a	n/a	MT18H	244/190
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 190 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E *Except*
B1 2 X 4 SYP No.2, B4 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.
WEBS 1 Row at midpt 11-13

REACTIONS (lb/size) 13=2582/0-3-8, 2=2448/0-3-8
Max Horz 2=193(load case 4)
Max Uplift13=-1097(load case 3), 2=-920(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-4803/1692, 3-4=-7539/2753, 4-5=-6555/2470, 5-6=-6925/2692, 6-7=-6924/2692, 7-8=-7276/2879, 8-9=-4339/1796, 9-10=-4339/1796, 10-11=-4339/1796, 11-12=-68/30, 12-13=-239/185
BOT CHORD 2-21=-1521/4154, 20-21=-1506/4135, 19-20=-2447/6620, 18-19=-2241/5976, 17-18=-2842/7270, 16-17=-2274/5697, 15-16=-2126/5275, 14-15=-1121/2662, 13-14=-1121/2662
WEBS 3-21=-1093/437, 3-20=-1016/2716, 4-20=-210/699, 4-19=-822/329, 5-19=-654/1918, 5-18=-560/1180, 6-18=-254/163, 7-18=-438/257, 7-17=-110/101, 8-17=-1183/3120, 8-16=-1929/897, 8-15=-1221/431, 10-15=-498/407, 11-15=-885/2199, 11-14=0/273, 11-13=-3401/1430

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1097 lb uplift at joint 13 and 920 lb uplift at joint 2.
5) Girder carries tie-in span(s): 3-11-8 from 7-0-0 to 15-5-8; 4-11-12 from 7-0-0 to 15-5-8
6) Girder carries hip end with 0-0-0 right side setback, 15-5-8 left side setback, and 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 204 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-8=-89(F=-35), 8-12=-118(F=-64), 2-21=-30, 20-21=-30, 19-20=-30, 17-19=-86(F=-56), 16-17=-86(F=-56), 13-16=-65(F=-35)
Concentrated Loads (lb)
Vert: 19=-539(F)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

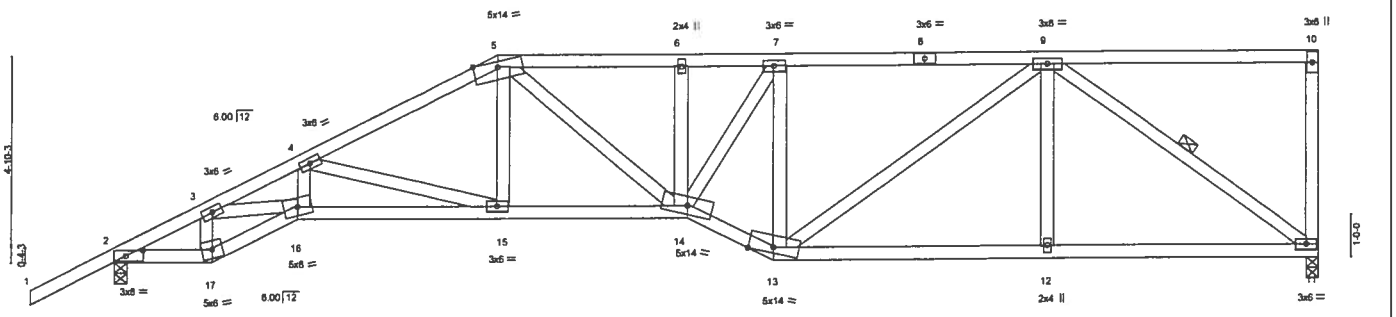
Dwg.#1117051500

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T03T	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:16 2005 Page 1

-2-0-0	2-3-8	4-3-8	9-0-0	13-5-8	15-5-8	21-10-12	28-4-0
2-0-0	2-3-8	2-0-0	4-8-8	4-5-8	2-0-0	6-5-4	6-5-4

Scale = 1:51.8



2-3-8	4-3-8	9-0-0	13-5-8	15-5-8	21-10-12	28-4-0
2-3-8	2-0-0	4-8-8	4-5-8	2-0-0	6-5-4	6-5-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.21	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.33	15-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.16	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 167 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-6 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS (lb/size) 11=1173/0-3-8, 2=1298/0-3-8
Max Horz 2=272(load case 5)
Max Uplift11=-429(load case 4), 2=-462(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-2150/700, 3-4=-3793/1553, 4-5=-2304/943, 5-6=-2289/970, 6-7=-2289/970, 7-8=-1838/771, 8-9=-1838/771, 9-10=-45/18, 10-11=-157/109
BOT CHORD 2-17=-782/1835, 16-17=-809/1933, 15-16=-1509/3277, 14-15=-906/2055, 13-14=-830/1980, 12-13=-541/1321, 11-12=-541/1321
WEBS 3-17=-812/412, 3-16=-815/1648, 4-16=-282/846, 4-15=-1287/631, 5-15=-150/522, 5-14=-204/303, 6-14=-95/94, 7-14=-398/892, 7-13=-1018/525, 9-13=-281/633, 9-12=0/193, 9-11=-1575/646

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) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 11 and 462 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

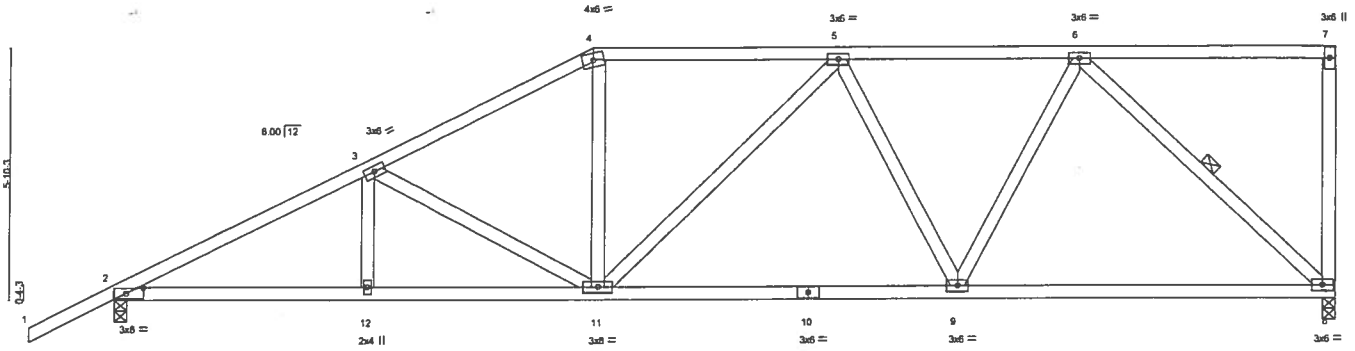
Dwg.#1117051501

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T04	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:17 2005 Page 1

-2-0-0	5-9-4	11-0-0	16-8-3	22-4-5	28-4-0
2-0-0	5-9-4	5-2-12	5-8-3	5-8-3	5-11-11

Scale = 1:51.2



5-9-4	11-0-0	19-6-4	28-4-0
5-9-4	5-2-12	8-6-4	8-9-12

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.15	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.25	9-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.07	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 158 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-15 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS (lb/size) 8=1173/0-3-8, 2=1298/0-3-8
Max Horz 2=318(load case 5)
Max Uplift8=-421(load case 4), 2=-472(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-2136/771, 3-4=-1671/667, 4-5=-1449/656, 5-6=-1286/522, 6-7=-44/8, 7-8=-150/101
BOT CHORD 2-12=-878/1835, 11-12=-878/1835, 10-11=-639/1443, 9-10=-639/1443, 8-9=-437/989
WEBS 3-12=0/154, 3-11=-453/254, 4-11=-68/422, 5-11=-63/121, 5-9=-345/256, 6-9=-189/652, 6-8=-1306/592

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) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 421 lb uplift at joint 8 and 472 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051502

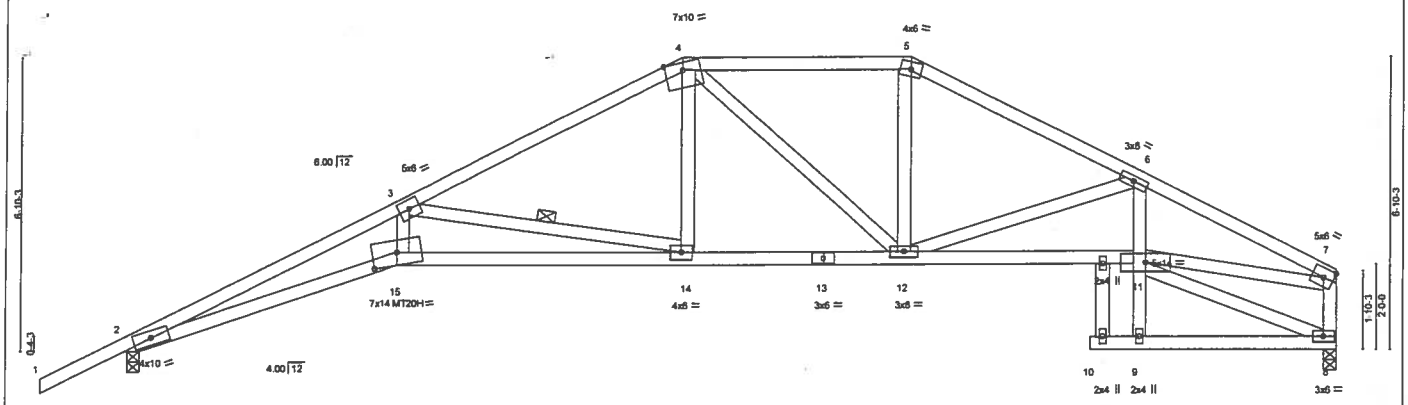
Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481268
L141046	T05H	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:18 2005 Page 1

-2-0-0 | 6-3-8 | 13-0-0 | 18-4-0 | 23-6-8 | 28-4-0

2-0-0 | 6-3-8 | 6-8-8 | 5-4-0 | 5-2-8 | 4-9-8

Scale = 1:51.5



6-3-8 | 13-0-0 | 18-4-0 | 22-6-8 | 23-6-8 | 28-4-0

6-3-8 | 6-8-8 | 5-4-0 | 4-2-8 | 1-0-0 | 4-9-8

Plate Offsets (X,Y): [15:0-7-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	-0.58	14-15	>579	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.87	Vert(TL)	-0.94	14-15	>360	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.57	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D, B2 2 X 4 SYP No.1D, B5 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-13 oc bracing.
WEBS 1 Row at midpt 3-14

REACTIONS (lb/size) 2=1304/0-3-8, 8=1201/0-3-8
Max Horz 2=205(load case 5)
Max Uplift2=-499(load case 5), 8=-346(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-5416/2158, 3-4=-2153/908, 4-5=-1718/815, 5-6=-1963/841, 6-7=-2774/1118, 7-8=-1155/513
BOT CHORD 2-15=-1998/4997, 14-15=-1832/4524, 13-14=-641/1886, 12-13=-641/1886, 11-12=-965/2512, 9-11=0/97, 6-11=-45/395, 9-10=0/0, 8-9=-26/58
WEBS 3-15=-560/1735, 3-14=-2707/1218, 4-14=-209/721, 4-12=-345/147, 5-12=-174/575, 6-12=-858/430, 7-11=-884/2312, 8-11=-32/71

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 499 lb uplift at joint 2 and 346 lb uplift at joint 8.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

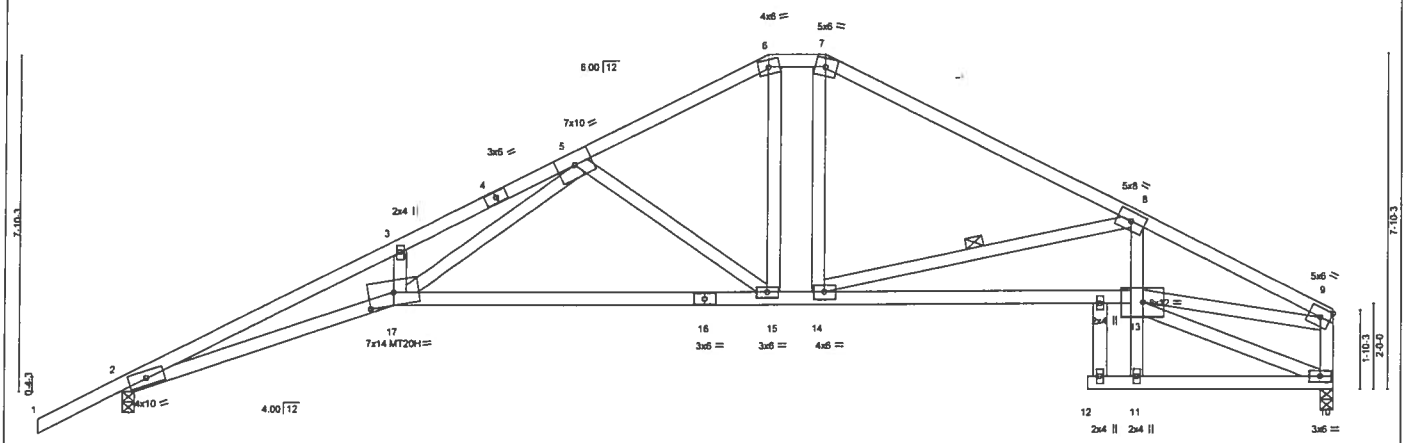
Dwg.#1117051503

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T06H	SPECIAL	1	1	J1481269
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:19 2005 Page 1

-2-0-0 | 6-3-8 | 10-7-12 | 15-0-0 | 16-4-0 | 23-6-8 | 28-4-0
2-0-0 | 6-3-8 | 4-4-4 | 4-4-4 | 1-4-0 | 7-2-8 | 4-9-8

Scale = 1:51.5



6-3-8 | 15-0-0 | 16-4-0 | 22-6-8 | 23-6-8 | 28-4-0
6-3-8 | 8-8-8 | 1-4-0 | 6-2-8 | 1-0-0 | 4-9-8

Plate Offsets (X,Y): [17:0-7-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.96	Vert(LL)	-0.67	15-17	>504	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.83	Vert(TL)	-1.09	15-17	>310	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.58	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 162 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D, B5 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS 1 Row at midpt 8-14

REACTIONS (lb/size) 2=1304/0-3-8, 10=1201/0-3-8
Max Horz 2=219(load case 5)
Max Uplift2=-510(load case 5), 10=-360(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-5404/2126, 3-4=-5289/2256, 4-5=-5210/2265, 5-6=-1760/811, 6-7=-1535/781, 7-8=-1791/782, 8-9=-2789/1142, 9-10=-1154/513
BOT CHORD 2-17=-1962/4982, 16-17=-906/2321, 15-16=-906/2321, 14-15=-479/1535, 13-14=-1039/2590, 11-13=0/97, 8-13=-37/421, 11-12=0/0, 10-11=-38/55
WEBS 3-17=-107/222, 5-17=-1244/3035, 5-15=-990/534, 6-15=-340/801, 7-14=-70/373, 8-14=-1111/578, 9-13=-919/2335, 10-13=-10/73

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 510 lb uplift at joint 2 and 360 lb uplift at joint 10.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

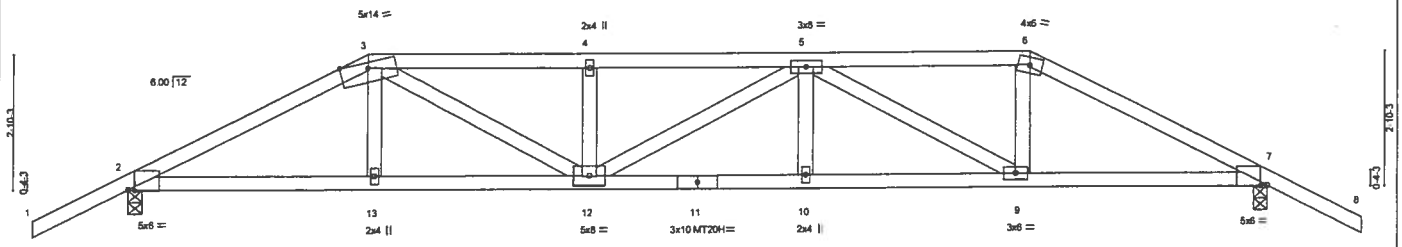
Dwg.#1117051504

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T07	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:19 2005 Page 1

-2-0-0	5-0-0	9-8-7	14-3-1	18-11-8	23-11-8	25-11-8
2-0-0	5-0-0	4-8-7	4-6-11	4-8-7	5-0-0	2-0-0

Scale = 1:46.4



5-0-0	9-8-7	14-3-1	18-11-8	23-11-8
5-0-0	4-8-7	4-6-11	4-8-7	5-0-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.26	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.42	10-12	>670	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.12	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 2-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-0-8 oc bracing.

REACTIONS (lb/size) 2=1749/0-3-8, 7=1749/0-3-8
Max Horz 2=73(load case 4)
Max Uplift2=-725(load case 4), 7=-725(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-3150/1254, 3-4=-3957/1655, 4-5=-3957/1656, 5-6=-2802/1162, 6-7=-3150/1253, 7-8=0/47
BOT CHORD 2-13=-1076/2740, 12-13=-1081/2765, 11-12=-1577/3957, 10-11=-1577/3957, 9-10=-1577/3957, 7-9=-1048/2740
WEBS 3-13=-86/434, 3-12=-644/1411, 4-12=-427/342, 5-12=-27/27, 5-10=0/231, 5-9=-1378/633, 6-9=-380/1109

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; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 725 lb uplift at joint 2 and 725 lb uplift at joint 7.
6) Girder carries hip end with 5-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 126 lb up at 18-11-8, and 245 lb down and 126 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-91(F=-37), 6-8=-54, 2-13=-30, 9-13=-50(F=-20), 7-9=-30
Concentrated Loads (lb)
Vert: 13=-245(F) 9=-245(F)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051505

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T08	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:20 2005 Page 1

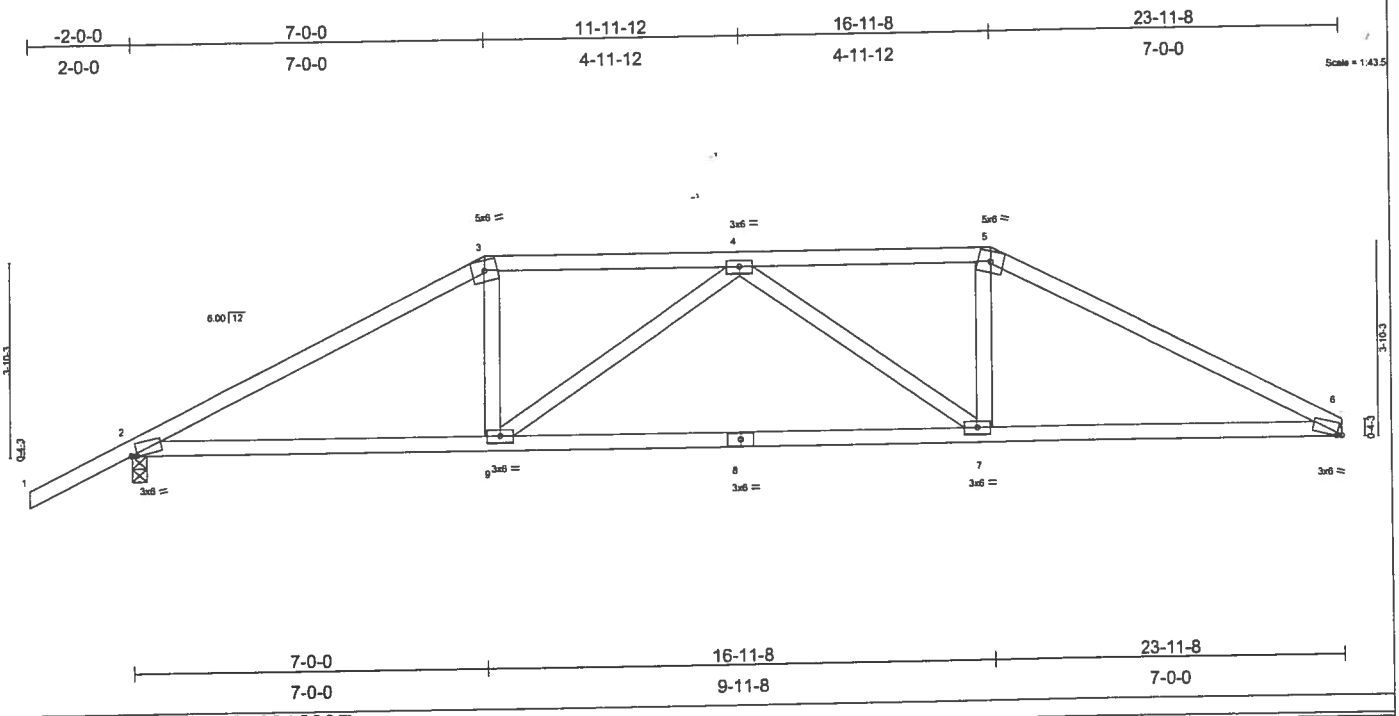


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [6:0-1-5,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.21	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.35	7-9	>812	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 104 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.

REACTIONS (lb/size) 6=991/Mechanical, 2=1118/0-3-8
Max Horz 2=112(load case 5)
Max Uplift6=-287(load case 6), 2=-416(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1715/640, 3-4=-1468/644, 4-5=-1501/688, 5-6=-1745/680
BOT CHORD 2-9=-463/1452, 8-9=-572/1621, 7-8=-572/1621, 6-7=-507/1485
WEBS 3-9=-61/445, 4-9=-298/208, 4-7=-275/192, 5-7=-60/439

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 6 and 416 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

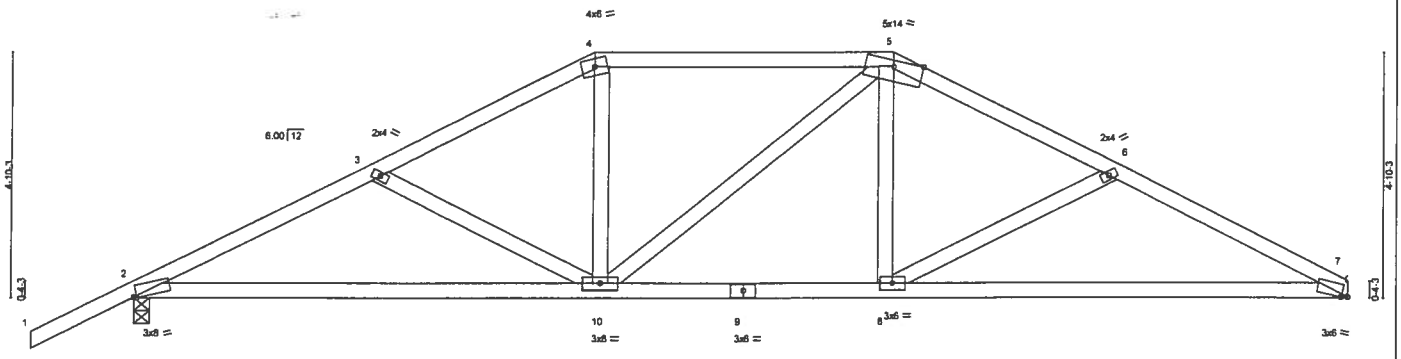
Dwg.#1117051506

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T09	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:21 2005 Page 1

-2-0-0	4-9-4	9-0-0	14-11-8	19-2-4	23-11-8
2-0-0	4-9-4	4-2-12	5-11-8	4-2-12	4-9-4

Scale = 1:43.5



9-0-0	14-11-8	23-11-8
9-0-0	5-11-8	9-0-0

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

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.21	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.36	7-8	>801	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.06	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 4-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-12 oc bracing.

REACTIONS (lb/size) 7=991/Mechanical, 2=1118/0-3-8
Max Horz 2=126(load case 5)
Max Uplift7=-303(load case 6), 2=-432(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1691/720, 3-4=-1450/618, 4-5=-1263/609, 5-6=-1466/640, 6-7=-1735/775
BOT CHORD 2-10=-556/1468, 9-10=-394/1276, 8-9=-394/1276, 7-8=-622/1520
WEBS 3-10=-244/203, 4-10=-51/337, 5-10=-126/104, 5-8=-86/363, 6-8=-288/260

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 7 and 432 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

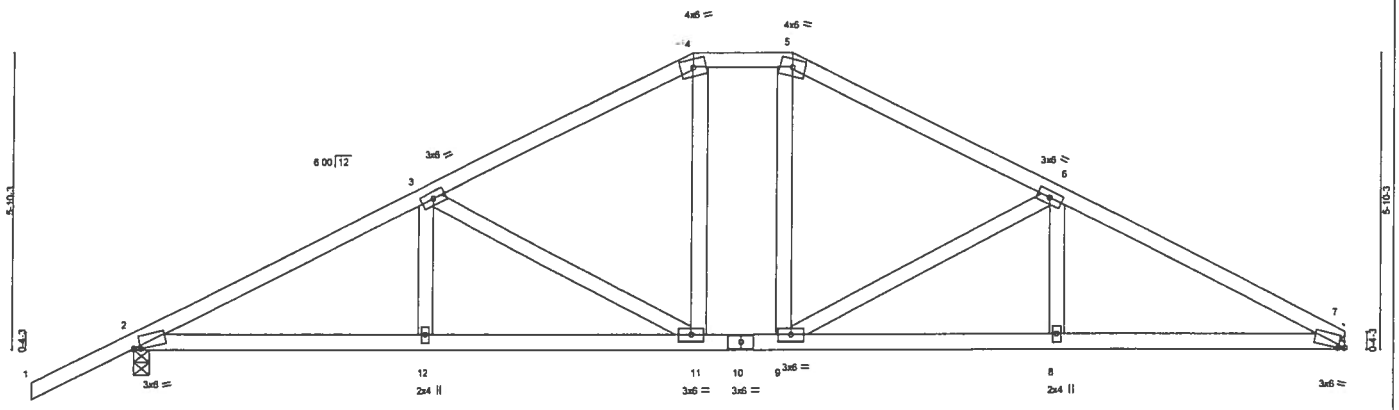
Dwg.#1117051507

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T10	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:22 2005 Page 1

-2-0-0	5-9-4	11-0-0	12-11-8	18-2-4	23-11-8
2-0-0	5-9-4	5-2-12	1-11-8	5-2-12	5-9-4

Scale = 1:43.5



5-9-4	11-0-0	12-11-8	18-2-4	23-11-8
5-9-4	5-2-12	1-11-8	5-2-12	5-9-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.16	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 120 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.

REACTIONS (lb/size) 7=991/Mechanical, 2=1118/0-3-8
Max Horz 2=140(load case 5)
Max Uplift7=-317(load case 6), 2=-445(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1759/700, 3-4=-1255/594, 4-5=-1071/589, 5-6=-1257/597, 6-7=-1801/757
BOT CHORD 2-12=-533/1502, 11-12=-533/1502, 10-11=-306/1071, 9-10=-306/1071, 8-9=-594/1548, 7-8=-594/1548
WEBS 3-12=0/197, 3-11=-540/262, 4-11=-115/345, 5-9=-131/357, 6-9=-591/332, 6-8=0/218

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 7 and 445 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

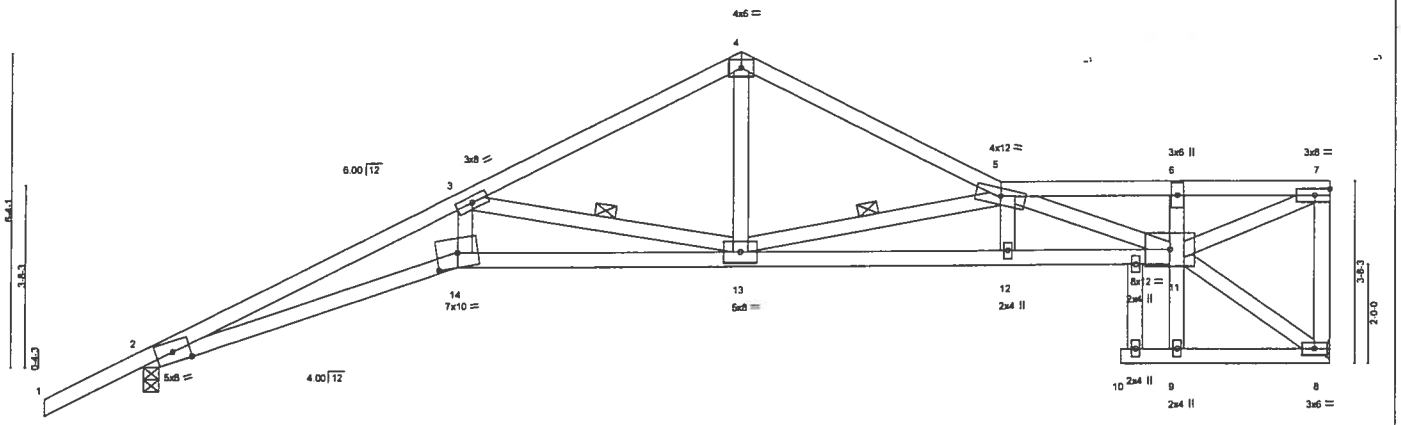
Dwg.#1117051508

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T11H	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:22 2005 Page 1

-2-0-0	6-3-8	11-11-12	17-3-8	20-8-8	23-11-8
2-0-0	6-3-8	5-8-4	5-3-12	3-5-0	3-3-0

Scale = 1:44.5



6-3-8	17-3-8	19-8-8	20-8-8	23-11-8
6-3-8	11-0-0	2-5-0	1-0-0	3-3-0

Plate Offsets (X,Y): [14:0-5-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.46	13-14	>616	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.96	Vert(TL)	-0.74	13-14	>384	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.55	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-13, 5-13

REACTIONS (lb/size) 8=1018/Mechanical, 2=1120/0-3-8
Max Horz 2=255(load case 5)
Max Uplift8=-257(load case 5), 2=-441(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4336/1830, 3-4=-1780/787, 4-5=-1758/785, 5-6=-2002/800, 6-7=-1859/752, 7-8=-963/412
BOT CHORD 2-14=-1786/3989, 13-14=-1636/3605, 12-13=-1439/3393, 11-12=-1433/3401, 9-11=0/82, 6-11=-174/139, 9-10=0/0, 8-9=-14/39
WEBS 3-14=-499/1398, 3-13=-2114/1026, 5-13=-1912/831, 5-12=0/92, 5-11=-1500/678, 8-11=-22/7, 7-11=-822/2030, 4-13=-434/1181

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 8 and 441 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051509

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T12H	SPECIAL	1	1	Job Reference (optional)

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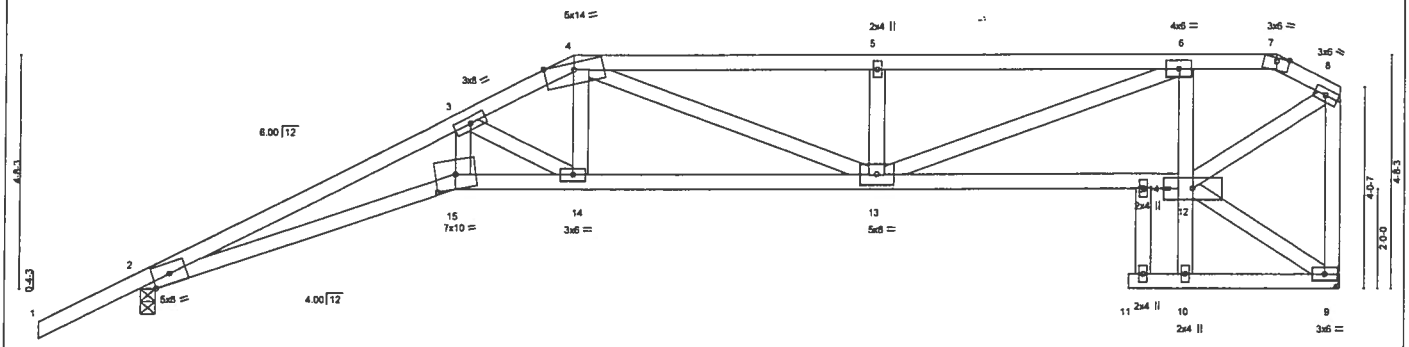
-2-0-0	6-3-8	8-8-0	14-8-4	20-8-8	22-8-0	23-11-8
2-0-0	6-3-8	2-4-8	6-0-4	6-0-4	1-11-8	1-3-8

Scale = 1:44.0



6-3-8	8-8-0	14-8-4	19-8-8	20-8-8	23-11-8
6-3-8	2-4-8	6-0-4	5-0-4	1-0-0	3-3-0

Plate Offsets (X,Y): [15:0-5-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.37	15	>765	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.60	15	>477	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.41	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 132 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 2=1120/0-3-8, 9=1018/Mechanical
Max Horz 2=245(load case 5)
Max Uplift2=-418(load case 5), 9=-314(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4302/1751, 3-4=-2572/1096, 4-5=-2439/1018, 5-6=-2439/1018, 6-7=-1030/426, 7-8=-1047/416, 8-9=-954/389
BOT CHORD 2-15=-1732/3955, 14-15=-1586/3582, 13-14=-996/2343, 12-13=-449/1173, 10-12=0/97, 6-12=-524/311, 10-11=0/0, 9-10=-28/33
WEBS 3-15=-483/1323, 3-14=-1461/691, 4-14=-334/856, 4-13=-160/259, 5-13=-341/249, 6-13=-578/1362, 8-12=-482/1249, 9-12=-71/47

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 418 lb uplift at joint 2 and 314 lb uplift at joint 9.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

Dwg.#1117051510

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T13H	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:24 2005 Page 1

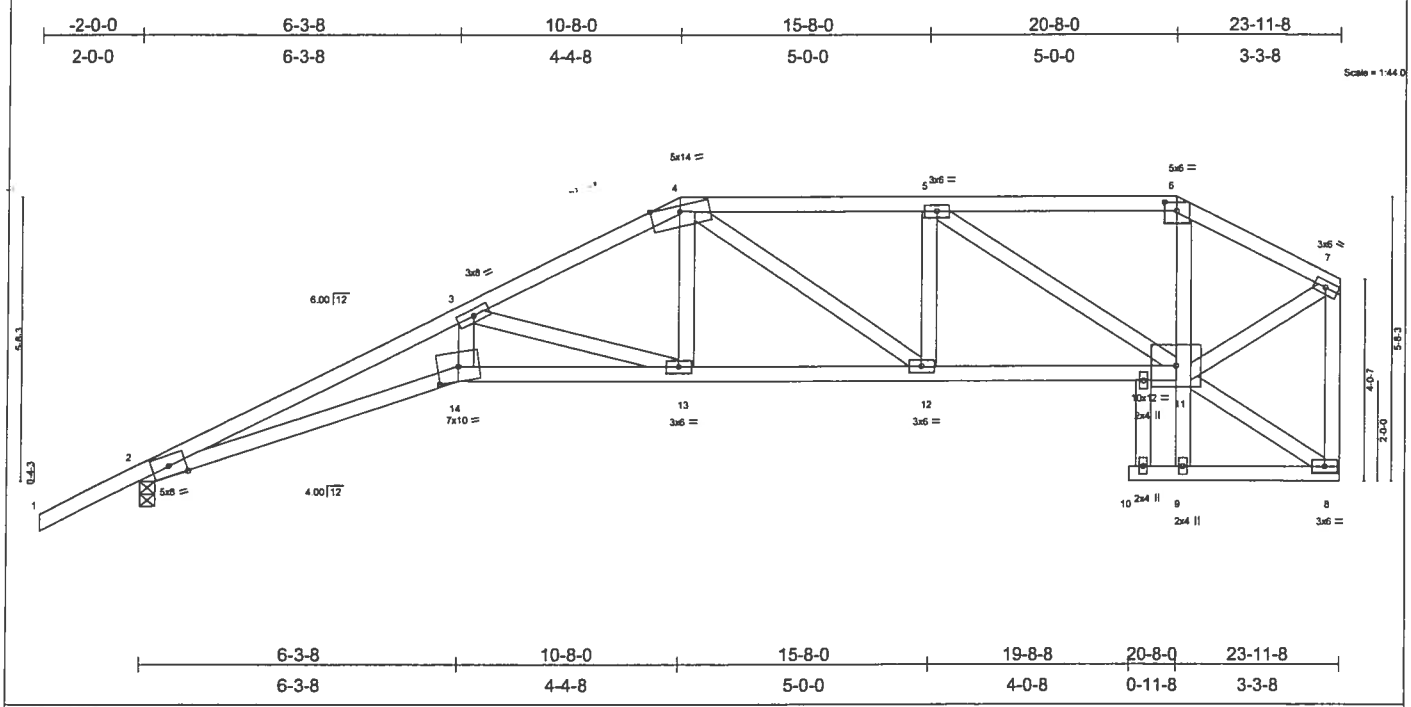


Plate Offsets (X,Y): [6:0-3-0,0-2-0], [14:0-5-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	-0.37	13-14	>760	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.97	Vert(TL)	-0.60	13-14	>474	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.39	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 138 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 2=1120/0-3-8, 8=1017/Mechanical
Max Horz 2=259(load case 5)
Max Uplift2=-432(load case 5), 8=-249(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4321/1790, 3-4=-1990/853, 4-5=-1621/727, 5-6=-853/401, 6-7=-963/396, 7-8=-981/415
BOT CHORD 2-14=-1769/3974, 13-14=-1620/3592, 12-13=-740/1771, 11-12=-646/1621, 9-11=0/80, 6-11=-6/218, 9-10=0/0, 8-9=-9/0
WEBS 3-14=-498/1382, 3-13=-1926/927, 4-13=-253/703, 4-12=-195/134, 5-12=-38/251, 5-11=-939/390, 7-11=-360/958, 8-11=-2/19

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 432 lb uplift at joint 2 and 249 lb uplift at joint 8.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051511

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481277
L141046	T14H	SPECIAL	1	1	Job Reference (optional)	

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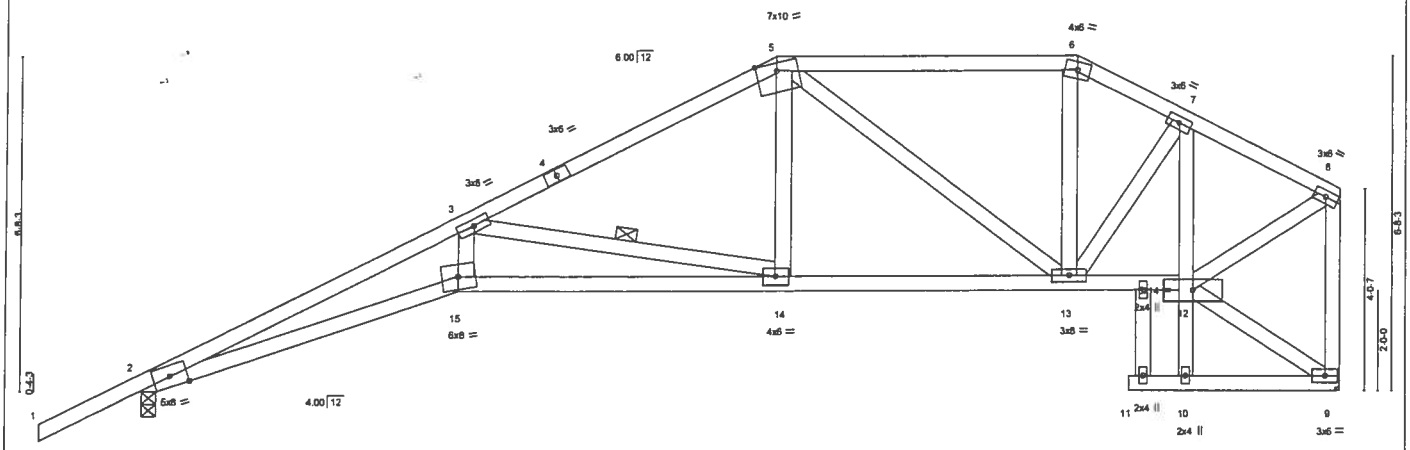
-2-0-0 | 6-3-8 | 12-8-0 | 18-8-0 | 20-8-8 | 23-11-8

2-0-0 | 6-3-8 | 6-4-8 | 6-0-0 | 2-0-8 | 3-3-0

Scale = 1:44.0



20-8-8

6-3-8 | 12-8-0 | 18-8-0 | 19-8-8 | 23-11-8

6-3-8 | 6-4-8 | 6-0-0 | 1-0-8 | 1-0-0 | 3-3-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	-0.43	14-15	>663	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.69	14-15	>413	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.41	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 144 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-14

REACTIONS (lb/size) 2=1120/0-3-8, 9=1018/Mechanical
Max Horz 2=273(load case 5)
Max Uplift2=-442(load case 5), 9=-268(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4371/1846, 3-4=-1630/687, 4-5=-1566/703, 5-6=-977/493, 6-7=-1085/511, 7-8=-926/396, 8-9=-976/429
BOT CHORD 2-15=-1824/4024, 14-15=-1672/3634, 13-14=-576/1422, 12-13=-309/793, 10-12=0/81, 7-12=-424/216, 10-11=0/0, 9-10=0/10
WEBS 3-15=-512/1431, 3-14=-2277/1123, 5-14=-198/664, 5-13=-593/268, 6-13=-67/234, 7-13=-130/347, 8-12=-360/922, 9-12=-11/6

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 442 lb uplift at joint 2 and 268 lb uplift at joint 9.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

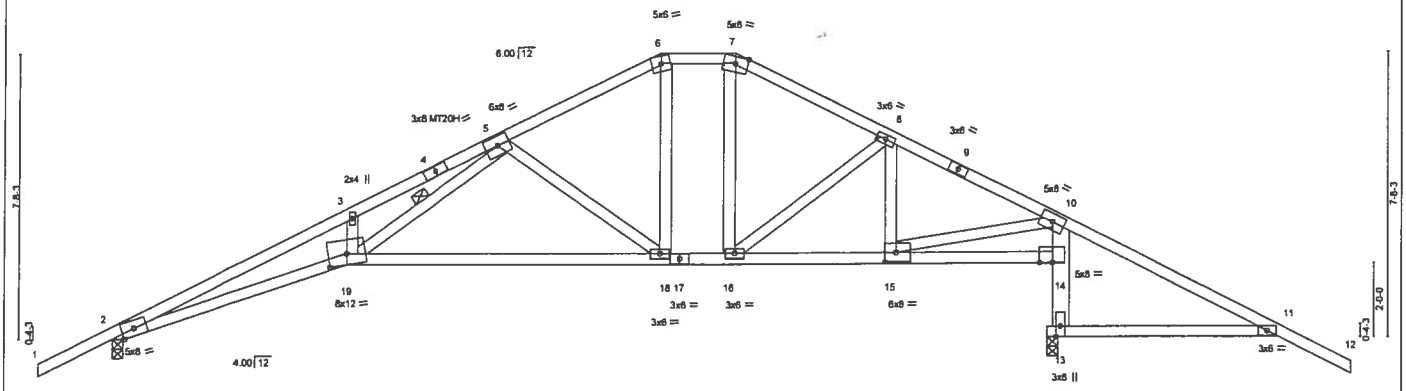
Dwg.#1117051512

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T15H	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 14:23:26 2005 Page 1

-2-0-0	6-3-8	10-5-12	14-8-0	16-8-0	20-10-4	25-0-8	31-4-0	33-4-0
2-0-0	6-3-8	4-2-4	4-2-4	2-0-0	4-2-4	4-2-4	6-3-8	2-0-0

Scale = 1:59.2



6-3-8	14-8-0	16-8-0	25-0-8	31-4-0
6-3-8	8-4-8	2-0-0	8-4-8	6-3-8

Plate Offsets (X,Y): [15:0-3-8,0-3-0], [19:0-6-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.94	Vert(LL)	1.01	18-19	>299	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.94	18-19	>322	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.26	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 163 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B5 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-8-14 oc bracing.
WEBS 1 Row at midpt 5-19

REACTIONS (lb/size) 2=1094/0-3-8, 13=1749/0-3-8
Max Horz 2=149(load case 4)
Max Uplift2=-560(load case 6), 13=-981(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4256/4540, 3-4=-4154/4618, 4-5=-4079/4628, 5-6=-1132/1216, 6-7=-952/1125, 7-8=-1077/1175, 8-9=-737/835, 9-10=-779/821, 10-11=-595/799, 11-12=0/47
BOT CHORD 2-19=-4150/3922, 18-19=-1504/1698, 17-18=-671/952, 16-17=-671/952, 15-16=-434/656, 14-15=-1788/1683, 13-14=-1671/1533, 10-14=-1531/1374, 11-13=-629/665
WEBS 3-19=-116/212, 5-19=-3003/2555, 5-18=-937/1049, 6-18=-677/570, 7-16=-140/111, 8-16=-292/403, 10-15=-2167/2437, 8-15=-535/431

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; porch 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) All plates are MT20 plates unless otherwise indicated.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 560 lb uplift at joint 2 and 981 lb uplift at joint 13.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

Dwg.#1117051513

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T16H	SPECIAL	2	1	Job Reference (optional)

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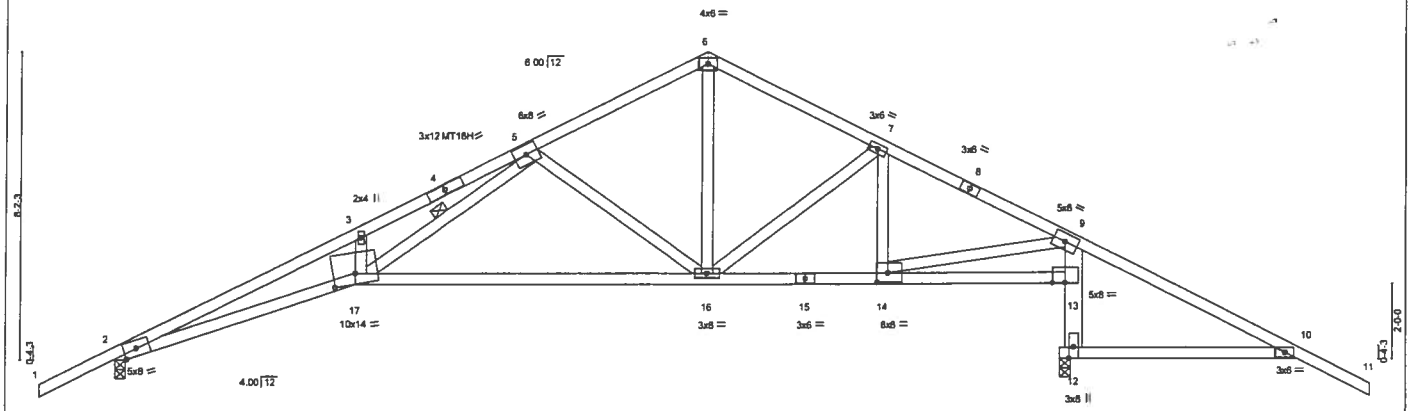
-2-0-0	6-3-8	10-11-12	15-8-0	20-4-4	25-0-8	31-4-0	33-4-0
2-0-0	6-3-8	4-8-4	4-8-4	4-8-4	4-8-4	6-3-8	2-0-0

Scale = 1:58.6



6-3-8	15-8-0	25-0-8	31-4-0
6-3-8	9-4-8	9-4-8	6-3-8

Plate Offsets (X,Y): [14:0-3-8,0-3-0], [17:0-7-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.94	Vert(LL)	0.98	16-17	>310	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.90	16-17	>339	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(TL)	0.26	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B5 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-8-12 oc bracing.
WEBS 1 Row at midpt 5-17

REACTIONS (lb/size) 2=1094/0-3-8, 12=1749/0-3-8
Max Horz 2=156(load case 4)
Max Uplift2=-567(load case 6), 12=-987(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4253/4555, 3-4=-4171/4655, 4-5=-4128/4666, 5-6=-1066/1163, 6-7=-1058/1159, 7-8=-798/925, 8-9=-872/907, 9-10=-595/799, 10-11=0/47
BOT CHORD 2-17=-4164/3919, 16-17=-1382/1584, 15-16=-513/714, 14-15=-513/714, 13-14=-1768/1670, 12-13=-1671/1537, 9-13=-1534/1377, 10-12=-629/665
WEBS 3-17=-156/231, 5-17=-3133/2663, 5-16=-843/947, 6-16=-825/658, 7-16=-126/232, 9-14=-2225/2507, 7-14=-458/360

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; porch 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) All plates are MT20 plates unless otherwise indicated.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 567 lb uplift at joint 2 and 987 lb uplift at joint 12.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051514

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T17H	SPECIAL	3	1	J1481280
					Job Reference (optional)

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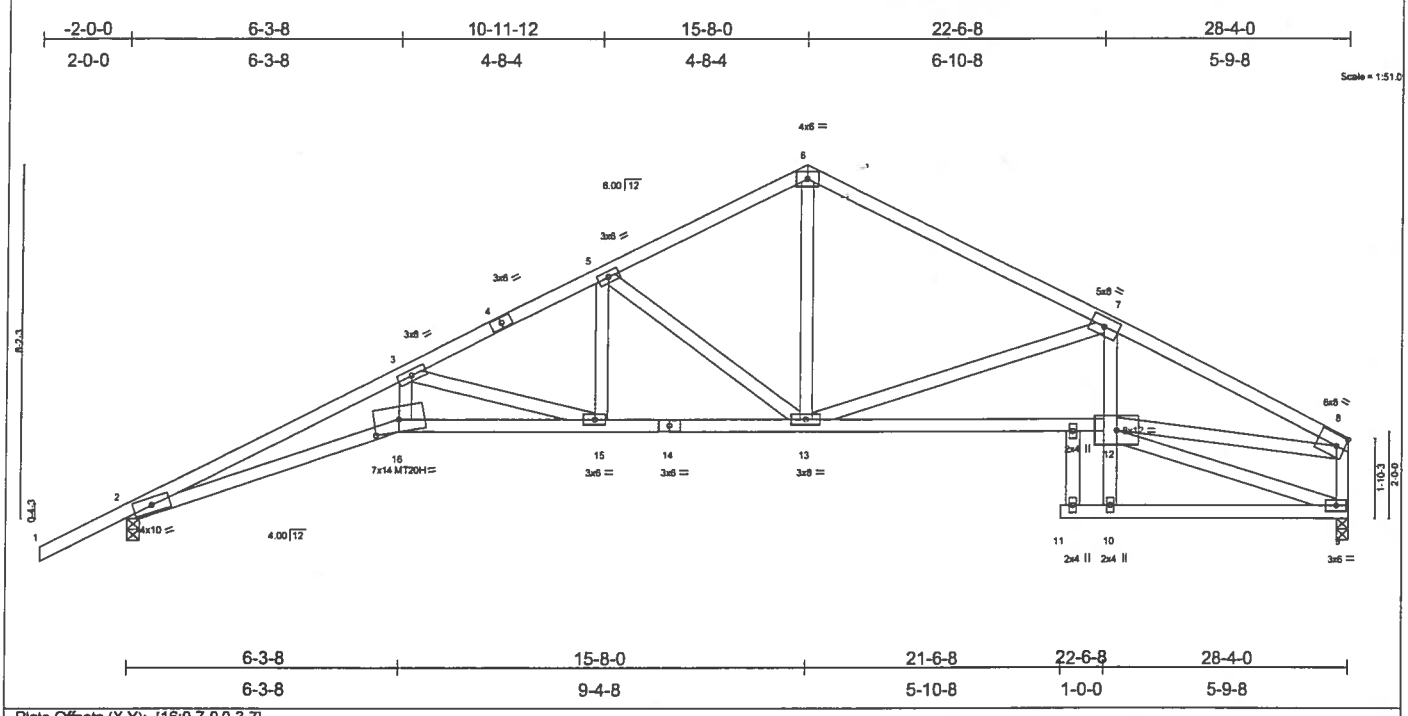

Plate Offsets (X,Y): [16:0-7-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.90	Vert(LL)	-0.52	15-16	>653	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.97	Vert(TL)	-0.83	15-16	>407	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.54	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 162 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D, B5 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 2=1306/0-3-8, 9=1200/0-3-8
Max Horz 2=223(load case 5)
Max Uplift2=-513(load case 5), 9=-364(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-5369/2175, 3-4=-2565/1108, 4-5=-2522/1117, 5-6=-1668/789, 6-7=-1707/773, 7-8=-2625/1085, 8-9=-1148/531
BOT CHORD 2-16=-2010/4949, 15-16=-1841/4484, 14-15=-849/2260, 13-14=-849/2260, 12-13=-927/2377, 10-12=0/111, 7-12=-24/398, 10-11=0/0, 9-10=-25/48
WEBS 3-16=-570/1685, 3-15=-2308/1030, 5-13=-1013/501, 6-13=-424/1112, 7-13=-977/505, 8-12=-825/2136, 9-12=-49/114, 5-15=-273/774

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are MT20 plates unless otherwise indicated.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 513 lb uplift at joint 2 and 364 lb uplift at joint 9.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051515

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14	J1481281
L141046	T18H	SPECIAL	1	1	Job Reference (optional)	

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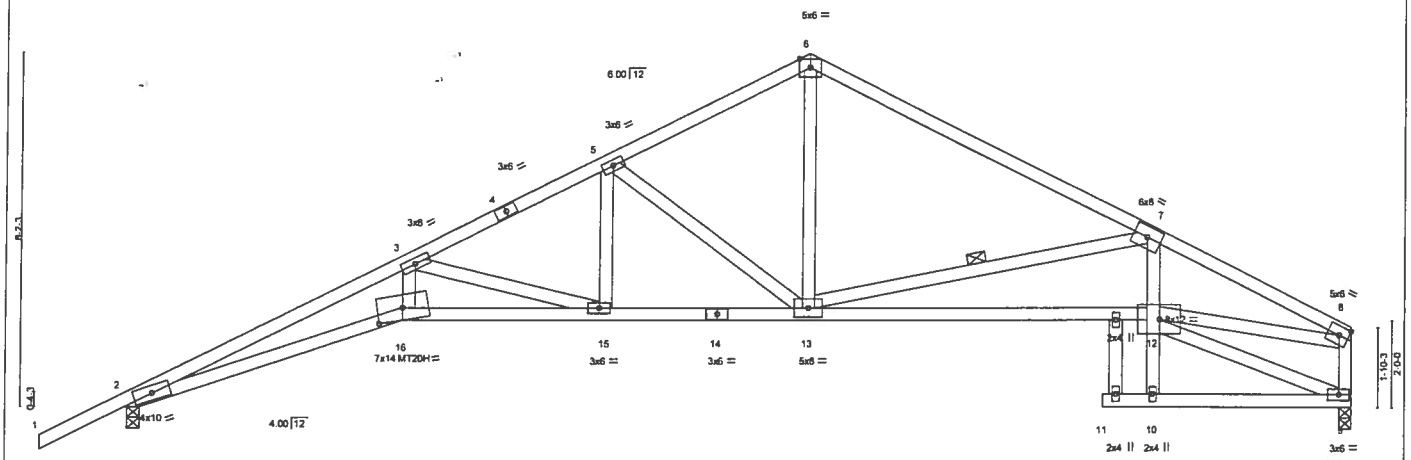
-2-0-0 | 6-3-8 | 10-11-12 | 15-8-0 | 23-6-8 | 28-4-0
2-0-0 | 6-3-8 | 4-8-4 | 4-8-4 | 7-10-8 | 4-9-8

Scale = 1:51.0



6-3-8 | 10-11-12 | 15-8-0 | 22-6-8 | 23-6-8 | 28-4-0
6-3-8 | 4-8-4 | 4-8-4 | 6-10-8 | 1-0-0 | 4-9-8

Plate Offsets (X,Y): [16:0-7-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.89	Vert(LL)	-0.52	15-16	>648	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.97	Vert(TL)	-0.83	15-16	>404	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.57	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D, B5 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS (lb/size) 2=1304/0-3-8, 9=1201/0-3-8
Max Horz 2=223(load case 5)
Max Uplift2=-513(load case 5), 9=-364(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-5365/2178, 3-4=-2555/1107, 4-5=-2512/1116, 5-6=-1674/793, 6-7=-1732/771, 7-8=-2801/1149, 8-9=-1154/512
BOT CHORD 2-16=-2013/4947, 15-16=-1845/4482, 14-15=-846/2250, 13-14=-846/2250, 12-13=-1065/2645, 10-12=0/96, 7-12=-29/440, 10-11=0/0, 9-10=-46/50
WEBS 3-16=-570/1686, 3-15=-2315/1036, 5-15=-276/766, 5-13=-987/486, 6-13=-392/1081, 7-13=-1215/623, 8-12=-931/2351, 9-12=0/67

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are MT20 plates unless otherwise indicated.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 513 lb uplift at joint 2 and 364 lb uplift at joint 9.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#1117051516

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T19H	MONO HIP	1	1	Job Reference (optional)

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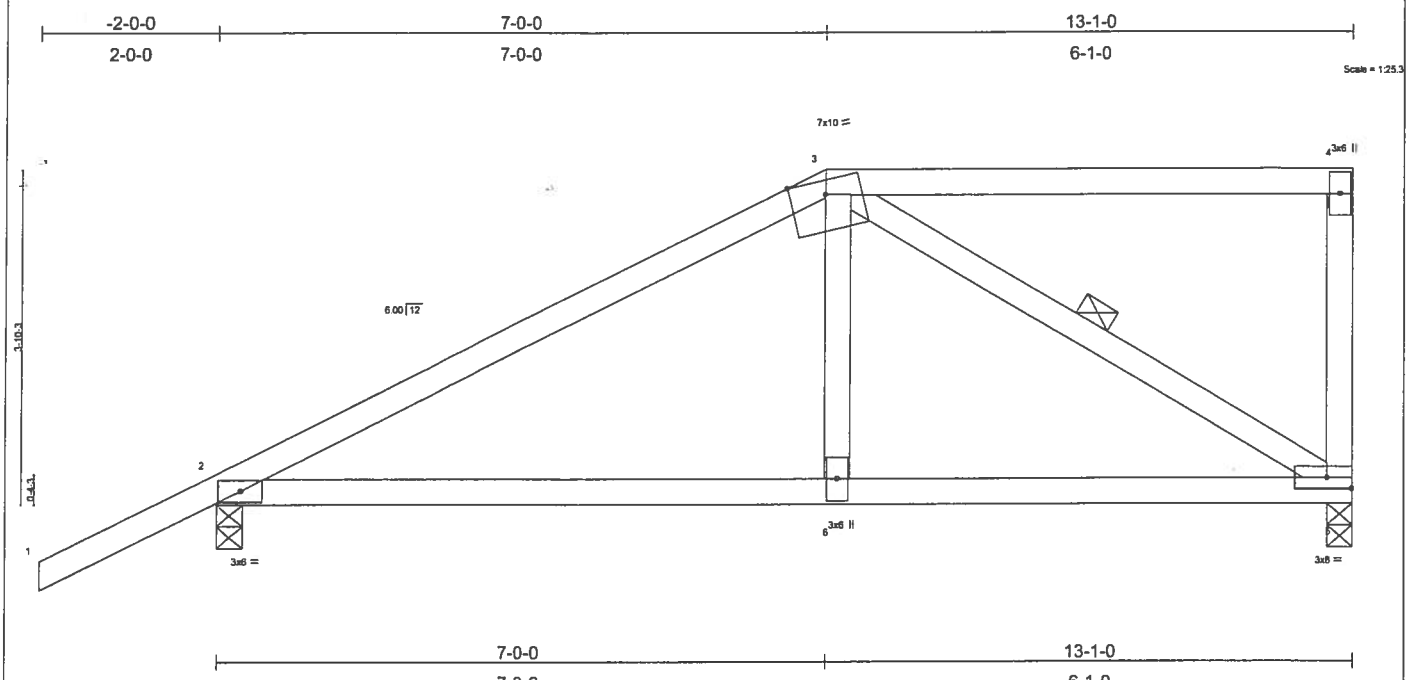

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates increase	1.25	TC	0.98	Vert(LL)	-0.07	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber increase	1.25	BC	0.52	Vert(TL)	-0.12	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.36	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS (lb/size) 5=1271/0-3-8, 2=1041/0-3-8
Max Horz 2=227(load case 4)
Max Uplift5=-565(load case 3), 2=-490(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1557/586, 3-4=-124/70, 4-5=-341/294
BOT CHORD 2-6=-593/1320, 5-6=-601/1355
WEBS 3-6=-203/847, 3-5=-1434/645

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 5 and 490 lb uplift at joint 2.
4) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-118(F=-64), 2-6=-30, 5-6=-65(F=-35)
Concentrated Loads (lb)
Vert: 6=-539(F)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549

Dwg.#1117051517

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T20H	MONO HIP	1	1	Job Reference (optional)

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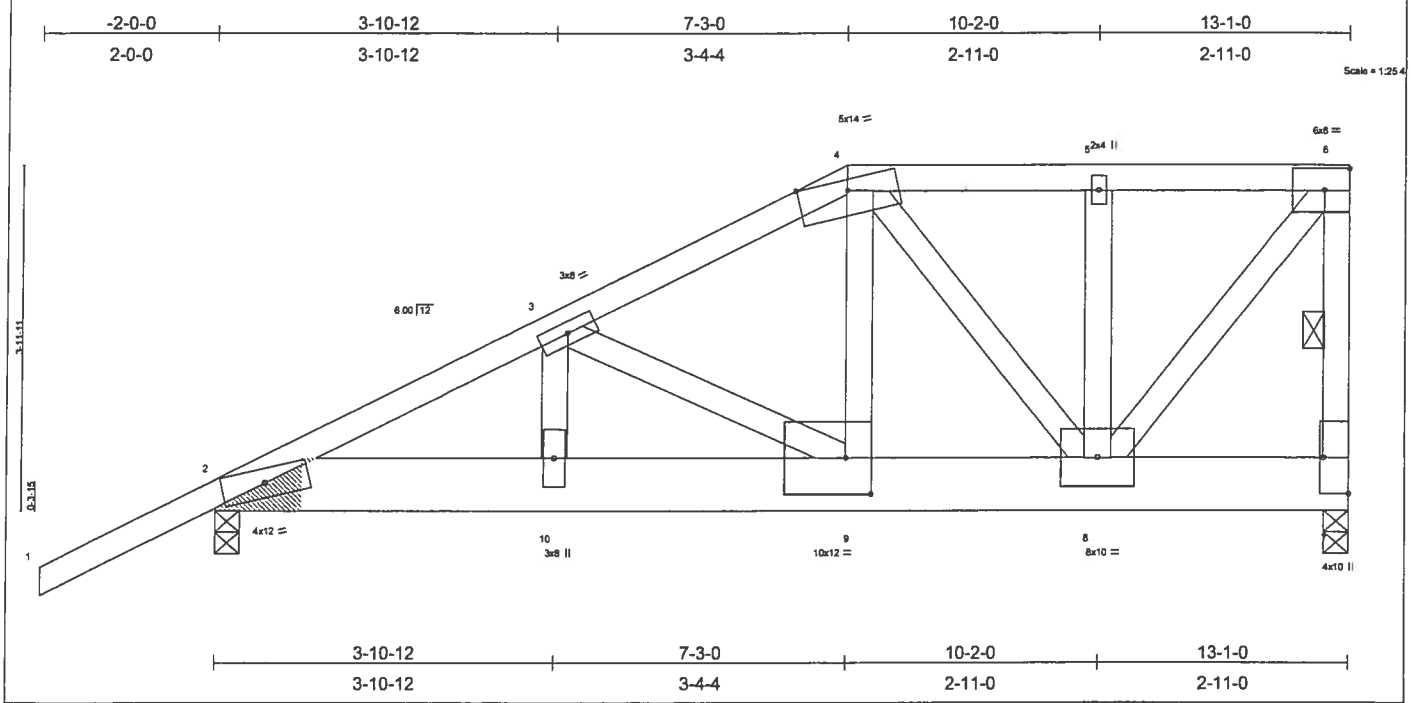

Plate Offsets (X,Y): [7:Edge,0-3-8], [9:0-3-8,0-5-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.80	Vert(TL)	-0.18	9-10	>870	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 101 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W4 2 X 4 SYP No.2, W4 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-11 oc bracing.
WEBS 1 Row at midpt 6-7

REACTIONS (lb/size) 7=3438/0-3-8, 2=3573/0-3-10 (0-3-8 + bearing block)
Max Horz 2=235(load case 4)
Max Uplift7=-1277(load case 3), 2=-1395(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-5438/1903, 3-4=-3499/1259, 4-5=-2141/791, 5-6=-2141/791, 6-7=-2758/1038
BOT CHORD 2-10=-1822/4853, 9-10=-1822/4853, 8-9=-1200/3215, 7-8=-23/56
WEBS 3-10=-543/1557, 3-9=-1972/747, 4-9=-948/2634, 4-8=-1682/654, 5-8=-90/94, 6-8=-1242/3373

NOTES
1) 2 X 8 SYP No.1D bearing block 12" long at jt. 2 attached to front face with 4 rows of 0.131"x3" Nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SYP.
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; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1277 lb uplift at joint 7 and 1395 lb uplift at joint 2.
5) Girder carries tie-in span(s): 23-11-8 from 0-0-0 to 13-1-0
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-7=-485(F=-455)

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1117051518

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T21H	HIP	1	1	Job Reference (optional)

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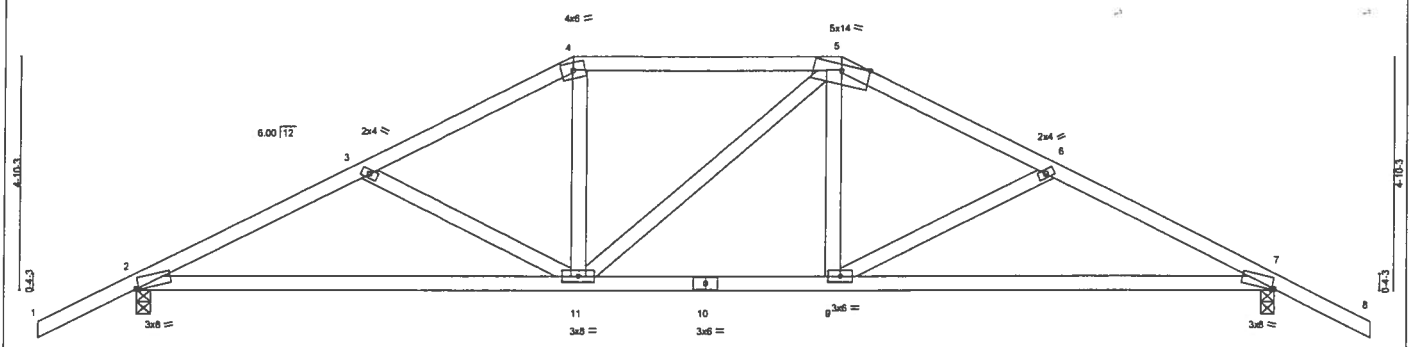
-2-0-0 | 4-9-4 | 9-0-0 | 14-7-0 | 18-9-12 | 23-7-0 | 25-7-0

2-0-0 | 4-9-4 | 4-2-12 | 5-7-0 | 4-2-12 | 4-9-4 | 2-0-0

Scale = 1:45.7



9-0-0 | 14-7-0 | 23-7-0

9-0-0 | 5-7-0 | 9-0-0

Plate Offsets (X,Y): [2:0-0-10,Edge], [7:0-0-10,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	0.29	Vert(LL)	-0.18	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.31	7-9	>904	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 117 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.

REACTIONS (lb/size) 2=1094/0-3-8, 7=1094/0-3-8
Max Horz 2=101(load case 5)
Max Uplift2=-426(load case 5), 7=-426(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1643/688, 3-4=-1397/583, 4-5=-1214/576, 5-6=-1396/584, 6-7=-1642/688, 7-8=0/47
BOT CHORD 2-11=-450/1426, 10-11=-267/1213, 9-10=-267/1213, 7-9=-450/1426
WEBS 3-11=-252/209, 4-11=-48/328, 5-11=-107/109, 5-9=-47/328, 6-9=-252/208

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 426 lb uplift at joint 2 and 426 lb uplift at joint 7.

LOAD CASE(S) Standard

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Dwg.#1117051519

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T22H	HIP	1	1	Job Reference (optional)

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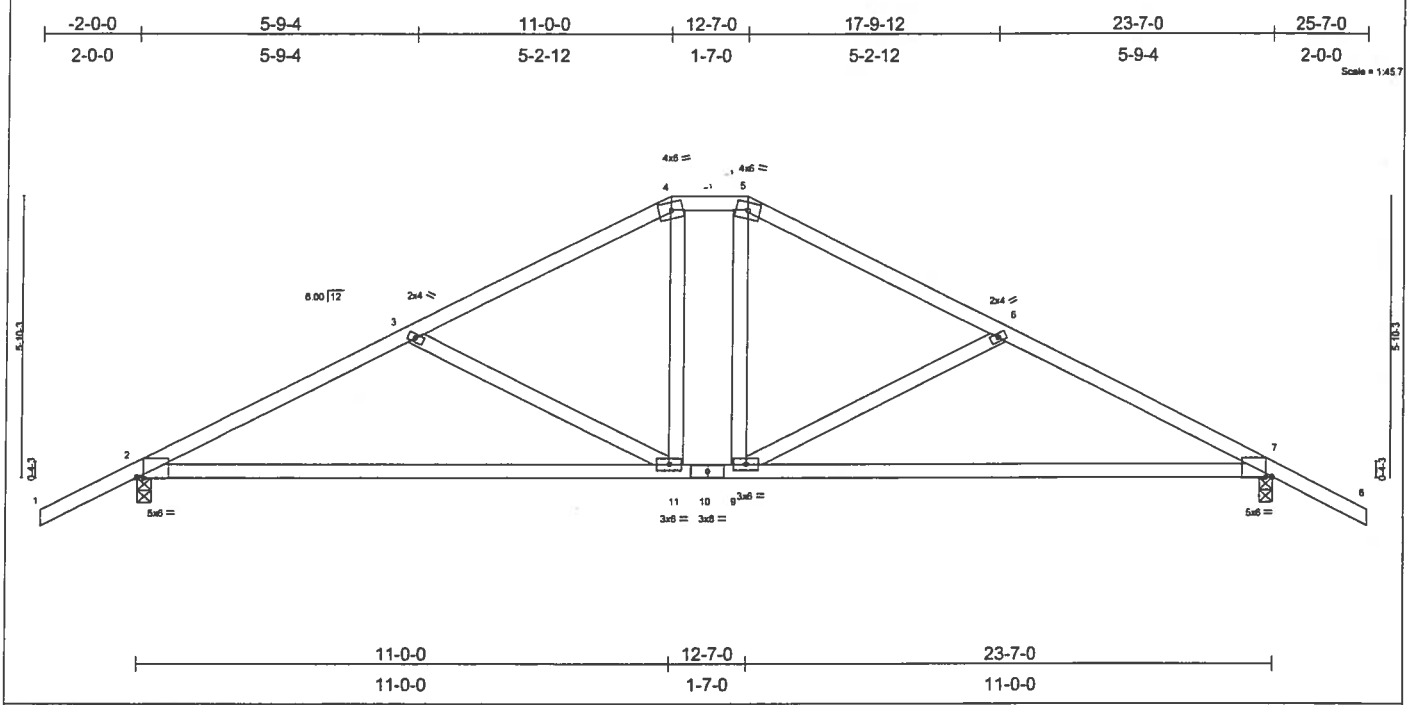

Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.35	2-11	>801	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.57	2-11	>488	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.05	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 4-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-4 oc bracing.

REACTIONS (lb/size) 2=1094/0-3-8, 7=1094/0-3-8
Max Horz 2=-115(load case 6)
Max Uplift2=-439(load case 5), 7=-439(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1594/701, 3-4=-1257/545, 4-5=-1067/548, 5-6=-1257/545, 6-7=-1594/701, 7-8=0/47
BOT CHORD 2-11=-454/1385, 10-11=-188/1067, 9-10=-188/1067, 7-9=-454/1385
WEBS 3-11=-395/302, 4-11=-96/361, 5-9=-96/361, 6-9=-395/302

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 2 and 439 lb uplift at joint 7.

LOAD CASE(S) Standard

NOVEMBER 17,2005 TRUSS DESIGN ENGINEER:
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Dwg.#1117051520

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T23	HIP	1	1	Job Reference (optional)

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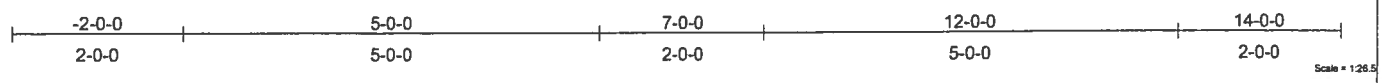

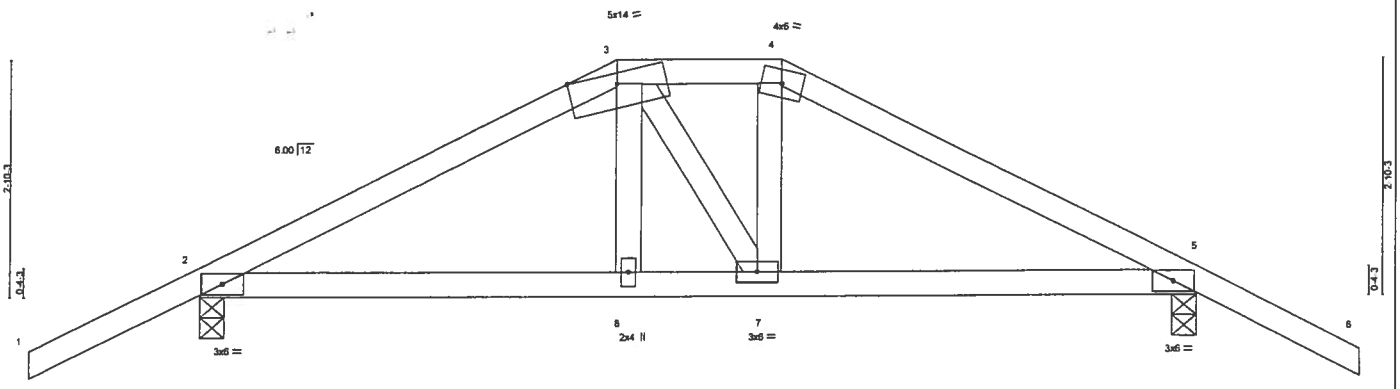

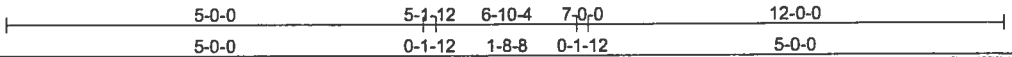

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.04	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.06	2-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 55 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 5-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-3 oc bracing.

REACTIONS (lb/size) 2=906/0-3-8, 5=906/0-3-8
Max Horz 2=-73(load case 6)
Max Uplift2=-505(load case 5), 5=-505(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1310/734, 3-4=-1129/714, 4-5=-1313/735, 5-6=0/47
BOT CHORD 2-8=-487/1105, 7-8=-495/1126, 5-7=-483/1108
WEBS 3-8=-166/363, 4-7=-188/425, 3-7=-69/80

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 505 lb uplift at joint 2 and 505 lb uplift at joint 5.
5) Girder carries hip end with 5-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 180 lb up at 7-0-0, and 245 lb down and 180 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-90(F=-36), 4-6=-54, 2-8=-30, 7-8=-50(F=-20), 5-7=-30
Concentrated Loads (lb)
Vert: 8=-245(F) 7=-245(F)

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Dwg.#1117051521

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER-MATTHEW LOT 14
L141046	T24	KINGPOST	3	1	Job Reference (optional)

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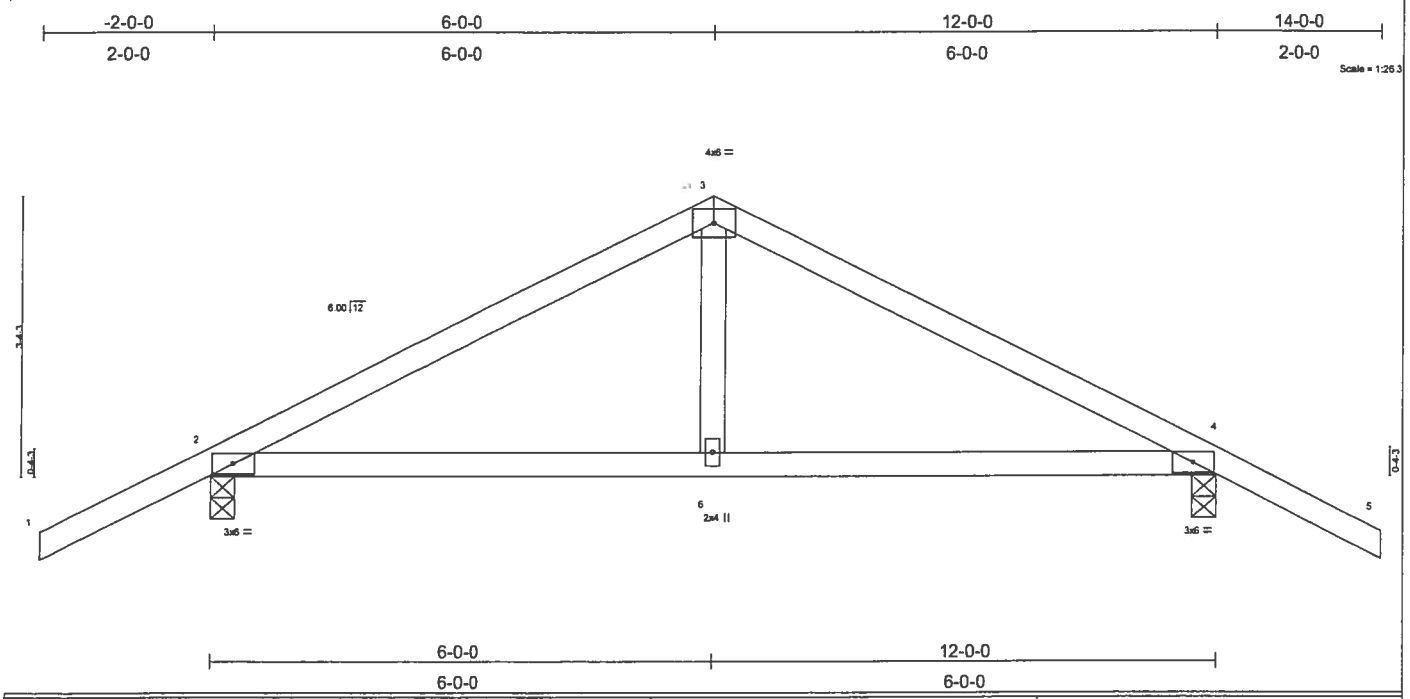

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.04	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	-0.06	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 49 lb	

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

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

REACTIONS (lb/size) 2=608/0-3-8, 4=608/0-3-8
Max Horz 2=80(load case 5)
Max Uplift2=-289(load case 5), 4=-289(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-659/259, 3-4=-659/259, 4-5=0/47
BOT CHORD 2-6=-73/526, 4-6=-73/526
WEBS 3-6=0/203

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 2 and 289 lb uplift at joint 4.

LOAD CASE(S) Standard

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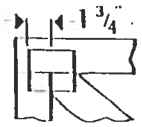
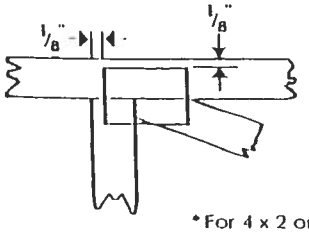
Symbols

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 seal.



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

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

PLATE SIZE

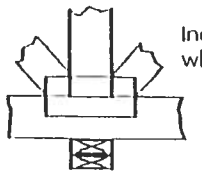
4 X 4

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

LATERAL BRACING

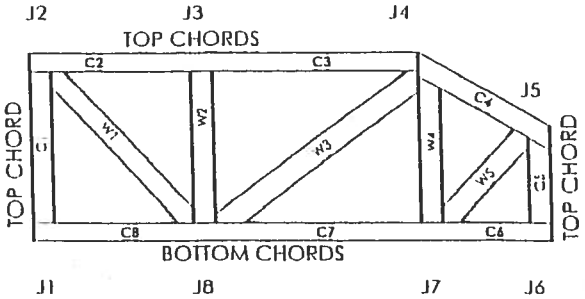
Indicates location of required continuous lateral bracing.

BEARING



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

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

MiTek Engineering Reference Sheet: 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.