Project Information for:	L210260		
Builder:	CADY HOMES	Date:	9/15/2006
Lot:	LOT 26 ROLLING OAKS	Start Number:	**1003**
Subdivision:	N/A	SEI Ref:	L210260
County or City:	COLUMBIA COUNTY		
Truss Page Count:	61		

Truss Design Load Information (UNO) Design Program: MiTek

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)

CADY, AARON M CGC1508421
Address: P.O. BOX 3356
LAKE CITY, FL 32056 Designer: **18**

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 Phone: 813-849-5769

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.
5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitablity and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0915061003	9/15/2006	41	T09	0915061043	9/15/2006
2	CJ1B	0915061004	9/15/2006	42	T10	0915061044	9/15/2006
3	CJ1T	0915061005	9/15/2006	43	T11	0915061045	9/15/2006
4	CJ2T	0915061006	9/15/2006	44	T12	0915061046	9/15/2006
5	CJ3	0915061007	9/15/2006	45	T13	0915061047	9/15/2006
6	CJ3B	0915061008	9/15/2006	46	T14	0915061048	9/15/2006
7	CJ3T	0915061009	9/15/2006	47	T15	0915061049	9/15/2006
8	CJ4T	0915061010	9/15/2006	48	T16	0915061050	9/15/2006
9	CJ5	0915061011	9/15/2006	49	T17	0915061051	9/15/2006
10	CJ5B	0915061012	9/15/2006	50	T18	0915061052	9/15/2006
11	CJ5T	0915061013	9/15/2006	51	T19	0915061053	9/15/2006
12	CJ6T	0915061014	9/15/2006	52	T20	0915061054	9/15/2006
13	EJ6B	0915061015	9/15/2006	53	T21	0915061055	9/15/2006
14	EJ7	0915061016	9/15/2006	54	T22	0915061056	9/15/2006
15	EJ7A	0915061017	9/15/2006	55	T23	0915061057	9/15/2006
16	EJ7B	0915061018	9/15/2006	56	T24	0915061058	9/15/2006
17	EJ7P	0915061019	9/15/2006	57	T25	0915061059	9/15/2006
18	EJ7T	0915061020	9/15/2006	58	T26	0915061060	9/15/2006
19	HJ9	0915061021	9/15/2006	59	T27	0915061061	9/15/2006
20	HJ9C	0915061022	9/15/2006	60	T28	0915061062	9/15/2006
21	HJ9T	0915061023	9/15/2006	61	T29	0915061063	9/15/2006
22	PB11	0915061024	9/15/2006				
23	PB12	0915061025	9/15/2006				
24	PB13	0915061026	9/15/2006				
25	PB14	0915061027	9/15/2006				
26	PB15	0915061028	9/15/2006				
27	PB16	0915061029	9/15/2006				
28	PB17	0915061030	9/15/2006				
29	PB18	0915061031	9/15/2006				
30	PB20	0915061032	9/15/2006				
31	PB21	0915061033	9/15/2006				
32	PB23	0915061034	9/15/2006				
33	T01	0915061035	9/15/2006				
34	T02	0915061036	9/15/2006				
35	T03	0915061037	9/15/2006				
36	T04	0915061038	9/15/2006				
37	T05	0915061039	9/15/2006				
38	T06	0915061040	9/15/2006				
39	T07	0915061041	9/15/2006				
40	T08	0915061042	9/15/2006				

SEP 15 2006

Dwg.#0915061002

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5:02:05 PM 3/24/200

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Name:	**CADY, AARON MATTHEW** (Primary Name) **CADY HOMES & ASSOCIATES INC** (DBA Name)
Main Address:	**PO BOX 3356** **LAKE CITY Florida 32056-3356**
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	**701 S W STONERIDGE DR** **LAKE CITY FL 32025**
County:	**COLUMBIA**

License Information

License Type:	**Certified General Contractor**
Rank:	**Cert General**
License Number:	**CGC1508421**
Status:	**Current,Active**
Licensure Date:	**01/27/2005**
Expires:	**08/31/2006**

Special Qualifications	Qualification Effective
Qualified Business License Required	01/27/2005

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SEPTEMBER 15, 2006 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.#0915061003

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ1	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:33:01 2006 Page 1

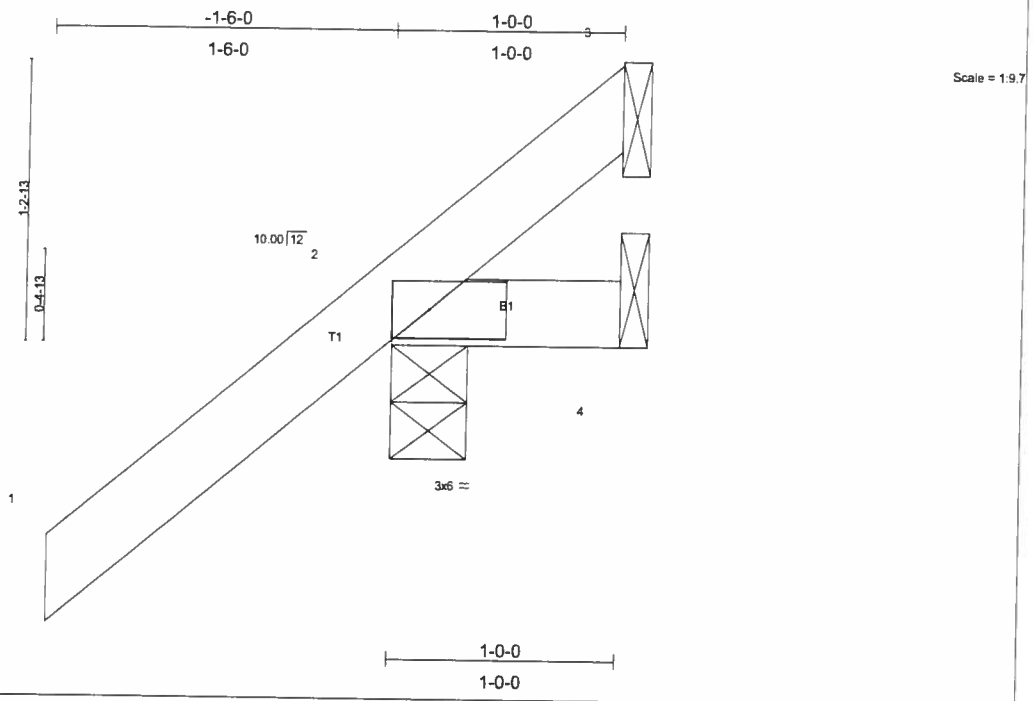


Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	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=189/0-4-0, 4=14/Mechanical, 3=-41/Mechanical
Max Horz 2=117(load case 5)
Max Uplift2=-211(load case 5), 4=-11(load case 3), 3=-41(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=80(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-63/63
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.17

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2, 11 lb uplift at joint 4 and 41 lb uplift at joint 3.

LOAD CASE(S) Standard

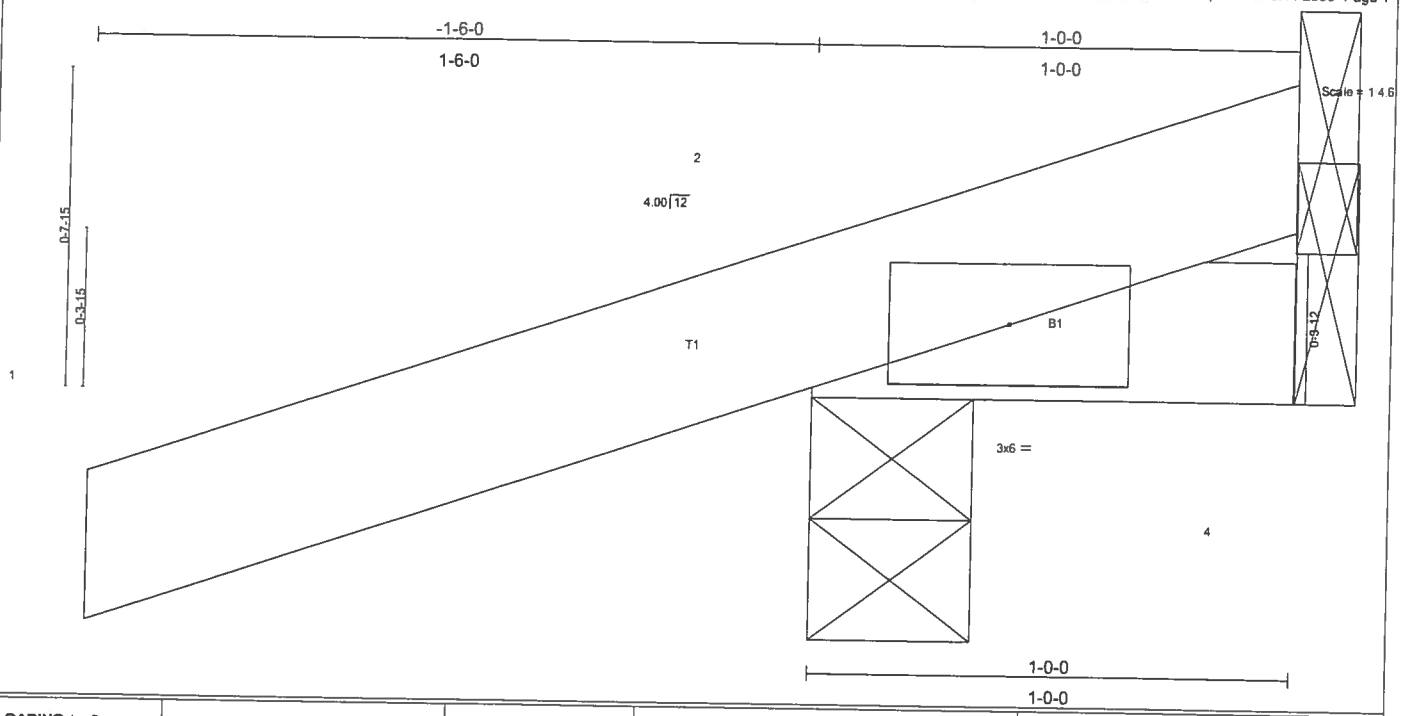
SEPTEMBER 15, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0915061004

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ1B	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:33:44 2006 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	0.14	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: 6 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=189/0-4-0, 3=-41/Mechanical, 4=14/Mechanical
Max Horz 2=47(load case 3)
Max Uplift2=-187(load case 3), 3=-41(load case 1), 4=-9(load case 3)
Max Grav 2=189(load case 1), 3=56(load case 3), 4=14(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-32/23
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.08

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2, 41 lb uplift at joint 3 and 9 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061005

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ1T	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:34:16 2006 Page 1

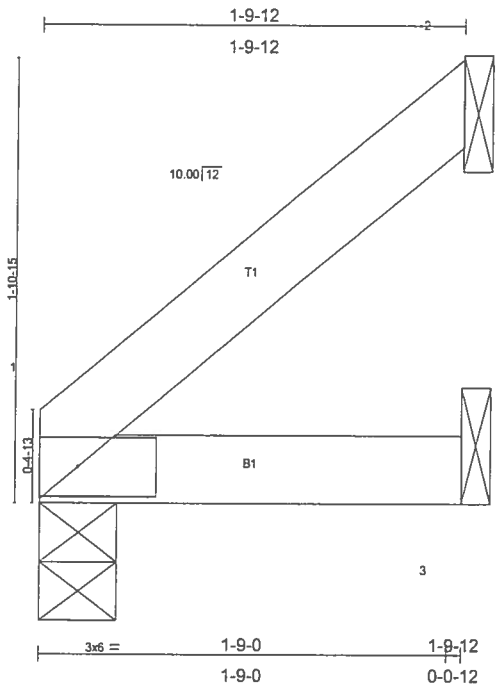


Plate Offsets (X,Y): [1:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.05	Vert(LL)	-0.00	1	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	1	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	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 1-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=74/0-4-0, 3=27/Mechanical, 2=48/Mechanical
Max Horz 1=72(load case 5)
Max Uplift2=-65(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-57/25
BOT CHORD 1-3=0/0

JOINT STRESS INDEX
1 = 0.04

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2.

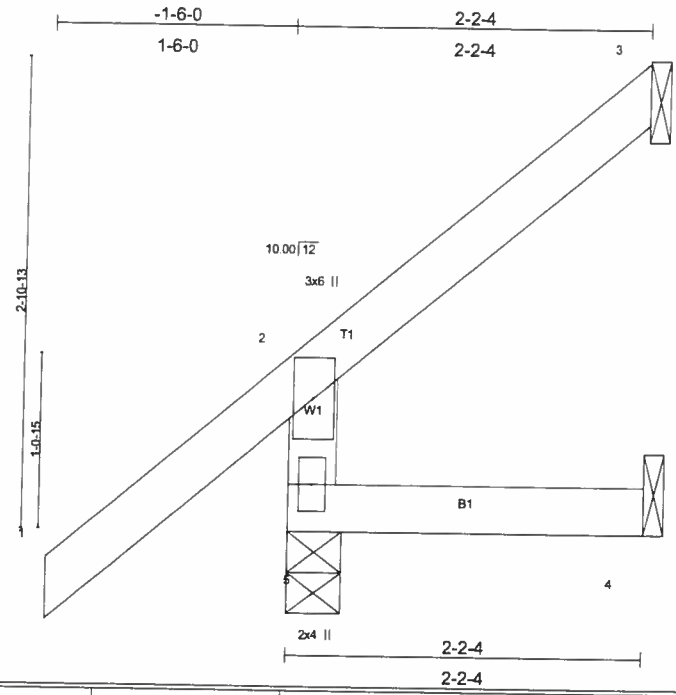
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061006

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ2T	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:34:50 2006 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	0.33	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.00	5	>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: 12 lb	

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

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

REACTIONS (lb/size) 5=209/0-4-0, 3=27/Mechanical, 4=19/Mechanical
Max Horz 5=165(load case 5)
Max Uplift5=-89(load case 5), 3=-50(load case 5), 4=-15(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-169/137, 1-2=0/57, 2-3=-51/12
BOT CHORD 4-5=0/0

JOINT STRESS INDEX
2 = 0.42 and 5 = 0.50

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 5, 50 lb uplift at joint 3 and 15 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061007

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ3	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:35:15 2006 Page 1

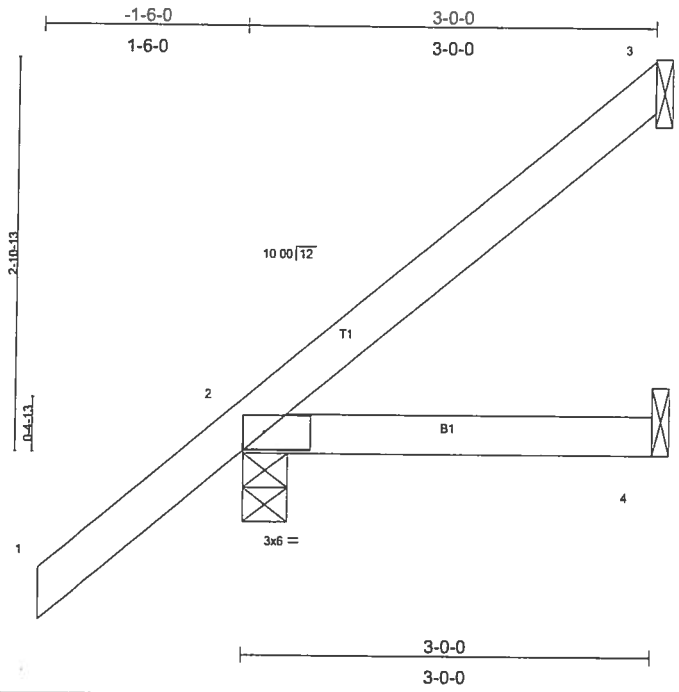


Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	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: 14 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=48/Mechanical, 2=233/0-4-0, 4=42/Mechanical
Max Horz 2=192(load case 5)
Max Uplift3=-60(load case 5), 2=-164(load case 5), 4=-33(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-68/22
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.17

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 3, 164 lb uplift at joint 2 and 33 lb uplift at joint 4.

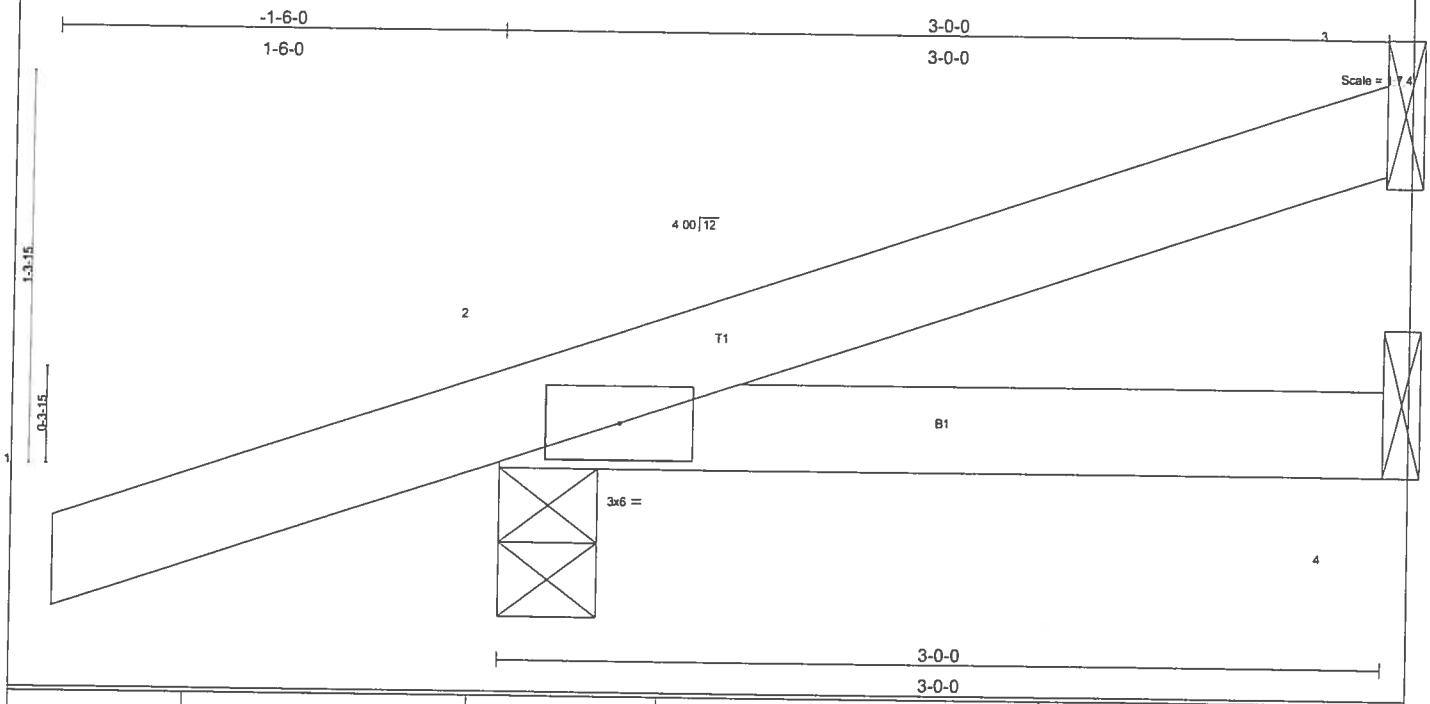
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061008

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ3B	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:35:43 2006 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	0.16	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	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: 12 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=48/Mechanical, 2=233/0-4-0, 4=42/Mechanical
Max Horz 2=77(load case 3)
Max Uplift3=-30(load case 3), 2=-195(load case 3), 4=-26(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-35/11
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.08

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3, 195 lb uplift at joint 2 and 26 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061009

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ3T	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:36:59 2006 Page 1

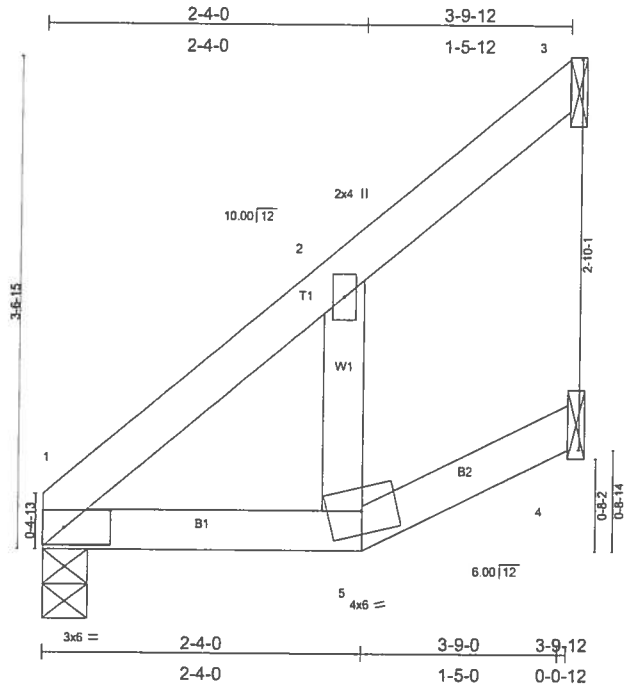


Plate Offsets (X,Y): [1:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.06	5	>744	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.06	5	>773	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.03	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 16 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=151/0-4-0, 3=129/Mechanical, 4=21/Mechanical
Max Horz 1=147(load case 5)
Max Uplift3=-127(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-117/7, 2-3=-99/77
BOT CHORD 1-5=-4/0, 4-5=-8/8
WEBS 2-5=0/54

JOINT STRESS INDEX
1 = 0.09, 2 = 0.04 and 5 = 0.03

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 3.

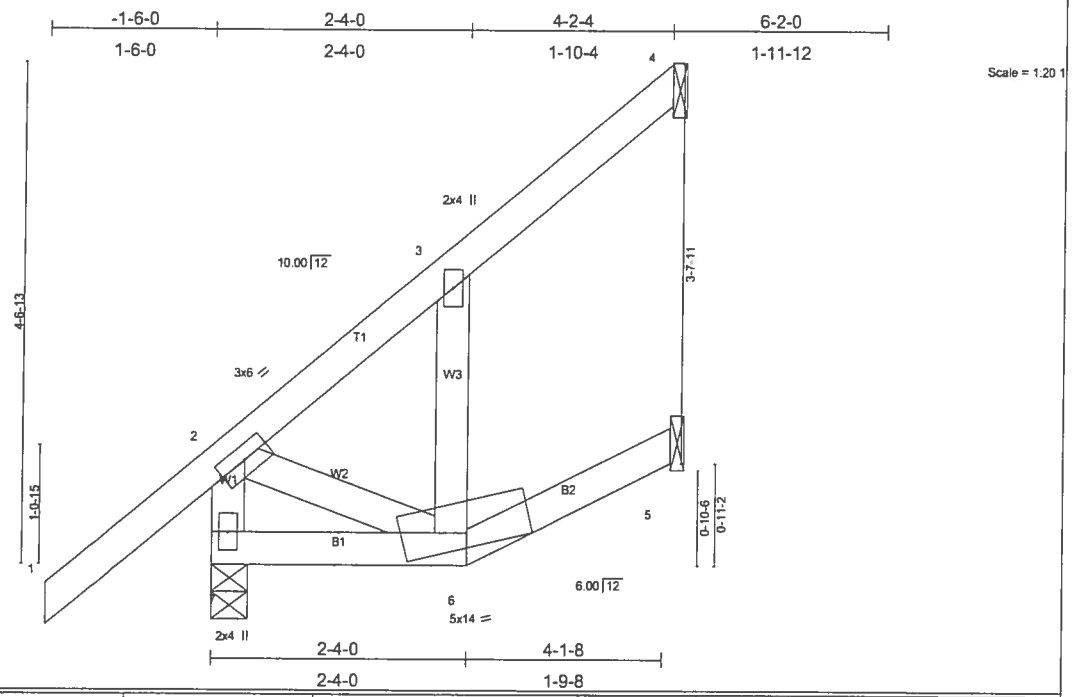
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061010

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ4T	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:37:41 2006 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	0.25	Vert(LL)	0.08	6	>635	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.06	6	>780	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.04	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 25 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 4-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=274/0-4-0, 4=122/Mechanical, 5=27/Mechanical
Max Horz 7=241(load case 5)
Max Uplift7=-74(load case 5), 4=-150(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-242/99, 1-2=0/57, 2-3=-96/10, 3-4=-117/71
BOT CHORD 6-7=-270/0, 5-6=-10/10
WEBS 2-6=-4/296, 3-6=-97/61

JOINT STRESS INDEX
2 = 0.14, 3 = 0.05, 6 = 0.07 and 7 = 0.09

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 7 and 150 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061011

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ5	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:38:00 2006 Page 1

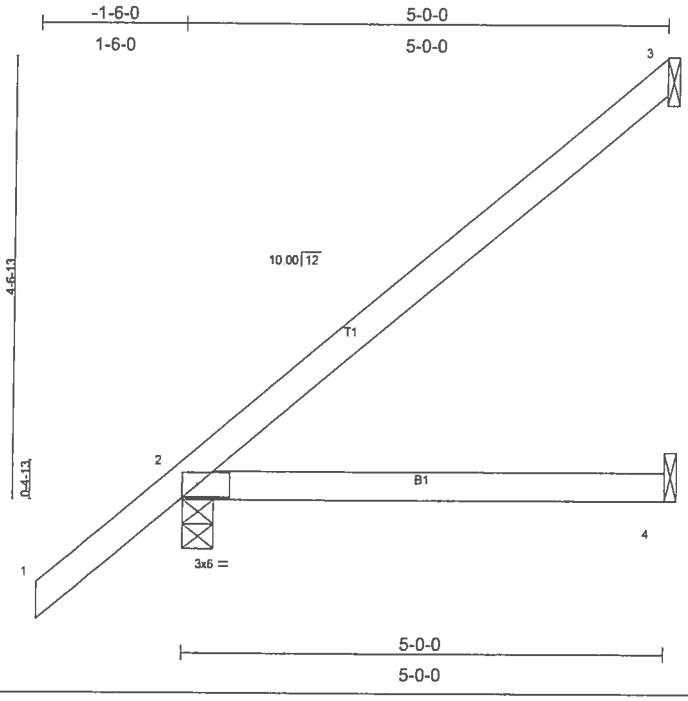


Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	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: 20 lb	

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

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

REACTIONS (lb/size) 3=113/Mechanical, 2=306/0-4-0, 4=72/Mechanical
Max Horz 2=269(load case 5)
Max Uplift3=-149(load case 5), 2=-111(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-124/58
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.20

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 3 and 111 lb uplift at joint 2.

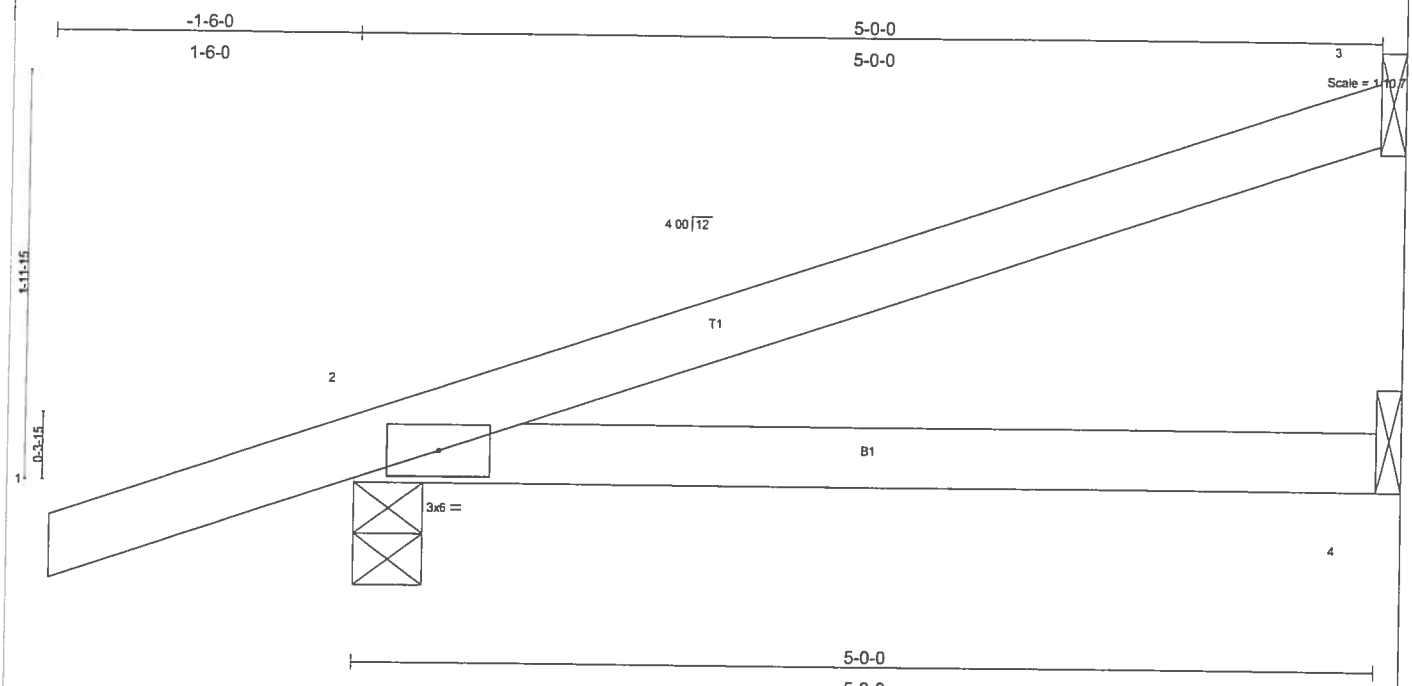
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061012

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ5B	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:38:28 2006 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	0.22	Vert(LL)	0.09	2-4	>671	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	0.07	2-4	>784	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: 18 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=113/Mechanical, 2=306/0-4-0, 4=72/Mechanical
Max Horz 2=108(load case 3)
Max Uplift3=-86(load case 3), 2=-233(load case 3), 4=-46(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-61/29
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.10

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 233 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061013

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ5T	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:39:23 2006 Page 1

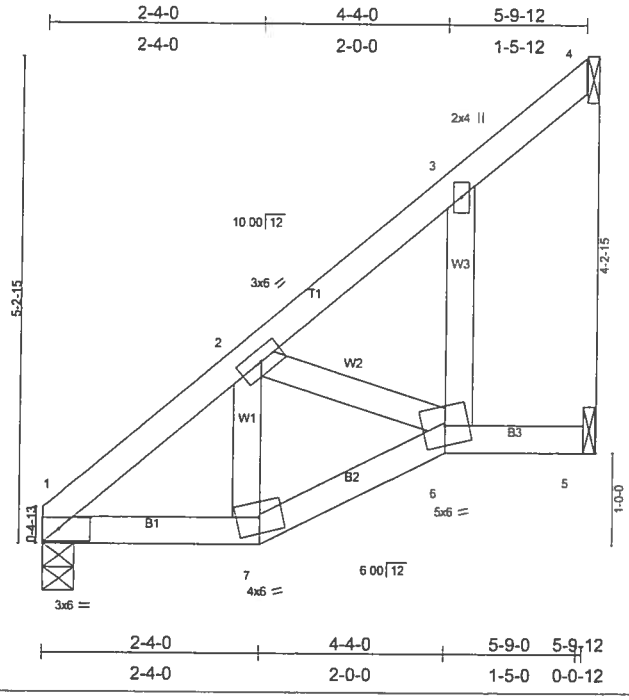


Plate Offsets (X,Y): [1:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.08	6	>876	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.08	6	>843	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.02	5	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 5-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=235/0-4-0, 4=213/Mechanical, 5=21/Mechanical
Max Horz 1=224(load case 5)
Max Uplift4=-190(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-280/0, 2-3=-143/0, 3-4=-142/132
BOT CHORD 1-7=-205/204, 6-7=-222/235, 5-6=-0/0
WEBS 2-7=-37/110, 2-6=-204/203, 3-6=-165/229

JOINT STRESS INDEX
1 = 0.18, 2 = 0.09, 3 = 0.15, 6 = 0.08 and 7 = 0.07

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 4.

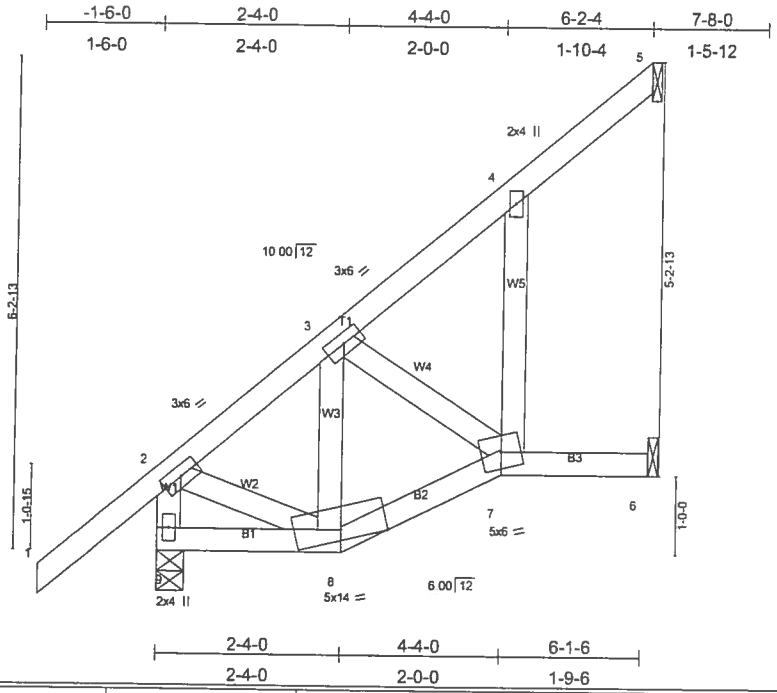
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061014

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	CJ6T	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:40:27 2006 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	0.51	Vert(LL)	0.14	7	>500	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.13	7	>552	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 41 lb	

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

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

REACTIONS (lb/size) 9=352/0-4-0, 5=212/Mechanical, 6=27/Mechanical
Max Horz 9=318(load case 5)
Max Uplift9=-68(load case 5), 5=-219(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-319/93, 1-2=0/57, 2-3=-224/0, 3-4=-152/0, 4-5=-163/130
BOT CHORD 8-9=-350/0, 7-8=-199/171, 6-7=-0/0
WEBS 2-8=0/185, 3-8=-67/38, 4-7=-198/226, 3-7=-165/207

JOINT STRESS INDEX
2 = 0.13, 3 = 0.11, 4 = 0.14, 7 = 0.08, 8 = 0.05 and 9 = 0.12

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 9 and 219 lb uplift at joint 5.

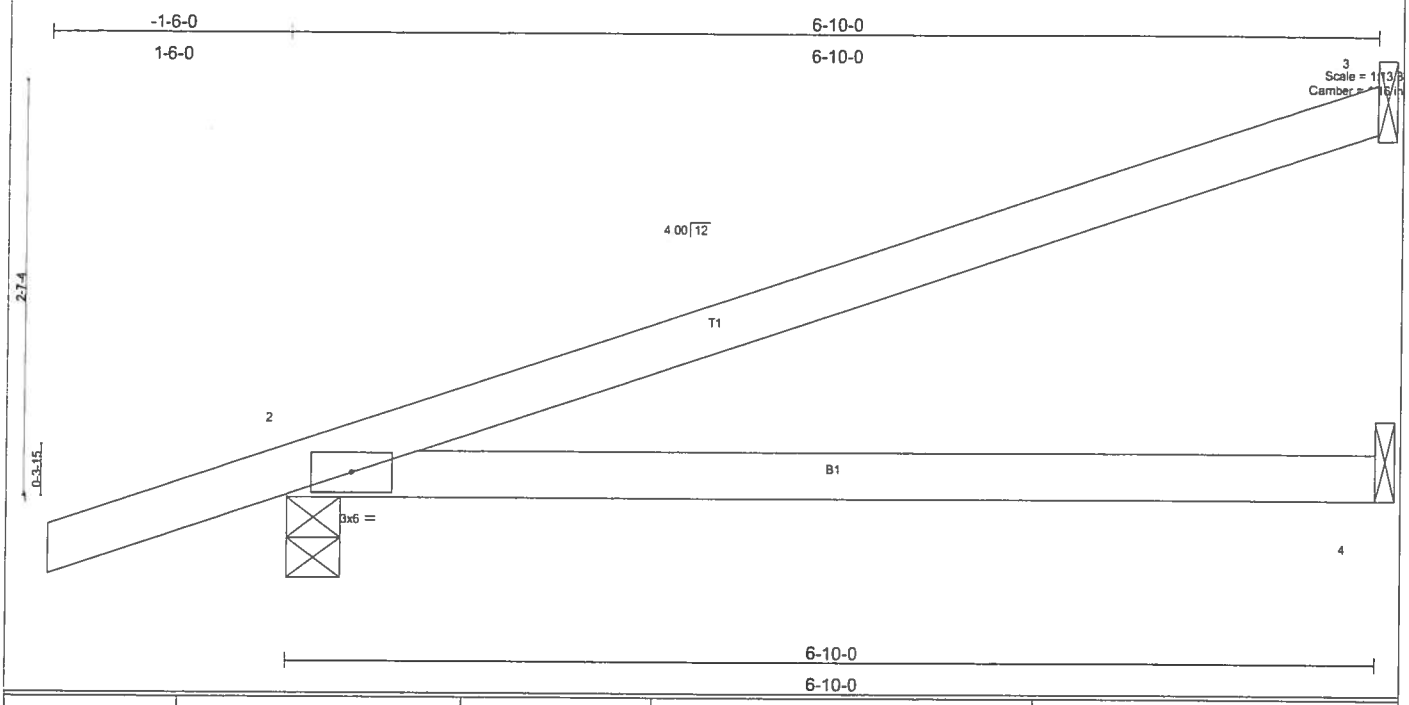
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061015

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	EJ6B	MONO TRUSS	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:41:04 2006 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	0.47	Vert(LL)	0.31	2-4	>256	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.45	Vert(TL)	0.26	2-4	>300	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: 23 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=167/Mechanical, 2=379/0-4-0, 4=99/Mechanical
Max Horz 2=136(load case 3)
Max Uplift3=-130(load case 3), 2=-276(load case 3), 4=-63(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-83/43
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.12

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 3, 276 lb uplift at joint 2 and 63 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061016

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	EJ7	MONO TRUSS	13	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:45:40 2006 Page 1

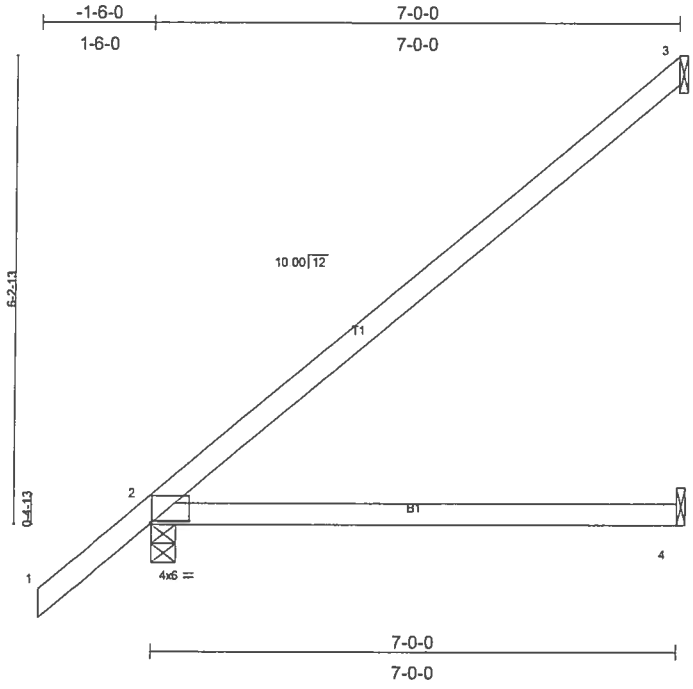


Plate Offsets (X,Y): [2:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.14	2-4	>585	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.23	2-4	>353	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: 27 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=163/Mechanical, 2=385/0-4-0, 4=110/Mechanical
Max Horz 2=346(load case 5)
Max Uplift3=-199(load case 5), 2=-103(load case 5), 4=-6(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-167/83
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.69

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 3, 103 lb uplift at joint 2 and 6 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061017

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	EJ7A	MONO TRUSS	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:44:31 2006 Page 1

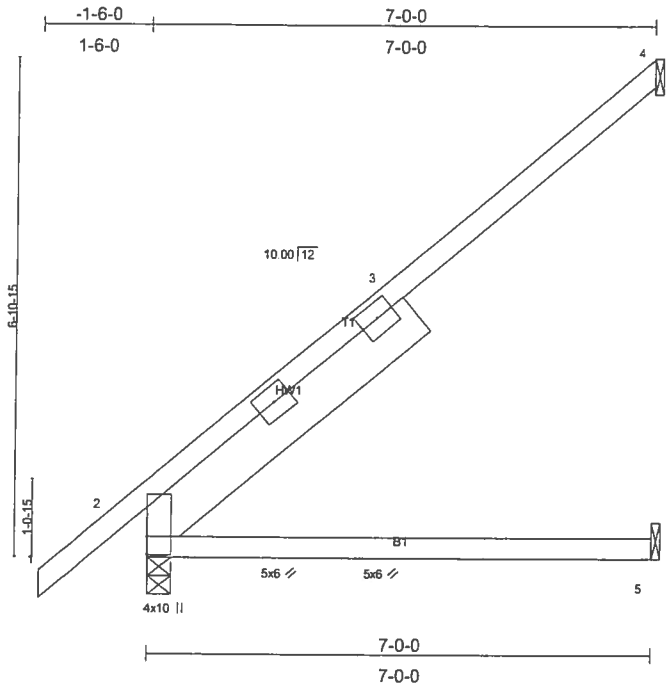


Plate Offsets (X,Y): [2:Edge,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	0.12	2-5	>671	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.19	2-5	>444	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.07	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 42 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
SLIDER Left 2 X 8 SYP No.1D 4-9-13

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=183/Mechanical, 2=381/0-4-0, 5=99/Mechanical
Max Horz 2=334(load case 5)
Max Uplift4=-232(load case 5), 2=-63(load case 5), 5=-10(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-186/16, 3-4=-166/92
BOT CHORD 2-5=0/0

JOINT STRESS INDEX
2 = 0.74, 2 = 0.04, 2 = 0.05 and 3 = 0.00

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 Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4, 63 lb uplift at joint 2 and 10 lb uplift at joint 5.

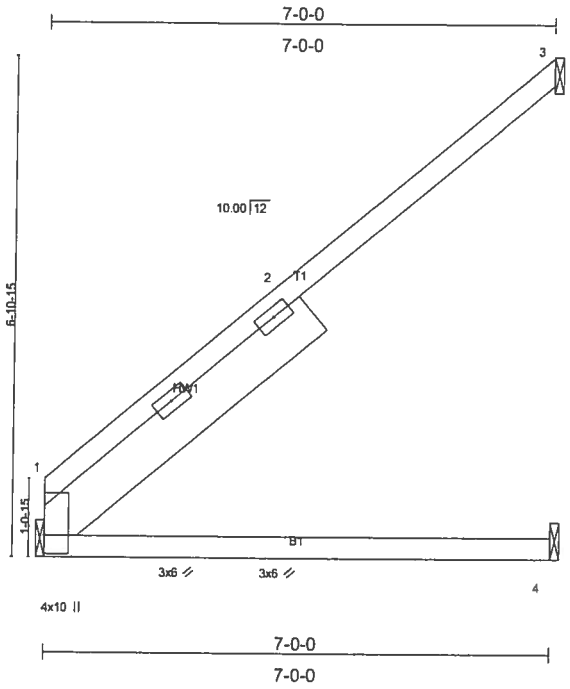
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061018

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	EJ7B	MONO TRUSS	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:47:09 2006 Page 1



Scale = 1:30.4
Camber = 1/16 in

Plate Offsets (X,Y): [1:Edge,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	0.61	Vert(LL)	0.13	1-4	>622	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.20	1-4	>426	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.07	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 39 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
SLIDER Left 2 X 8 SYP No.1D 4-9-13

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

REACTIONS (lb/size) 1=291/Mechanical, 3=190/Mechanical, 4=101/Mechanical
Max Horz 1=301(load case 5)
Max Uplift3=-240(load case 5), 4=-12(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-192/15, 2-3=-172/96
BOT CHORD 1-4=0/0

JOINT STRESS INDEX
1 = 0.76, 1 = 0.04, 1 = 0.05 and 2 = 0.00

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 Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 3 and 12 lb uplift at joint 4.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061019

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	EJ7P	MONO TRUSS	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:48:28 2006 Page 1

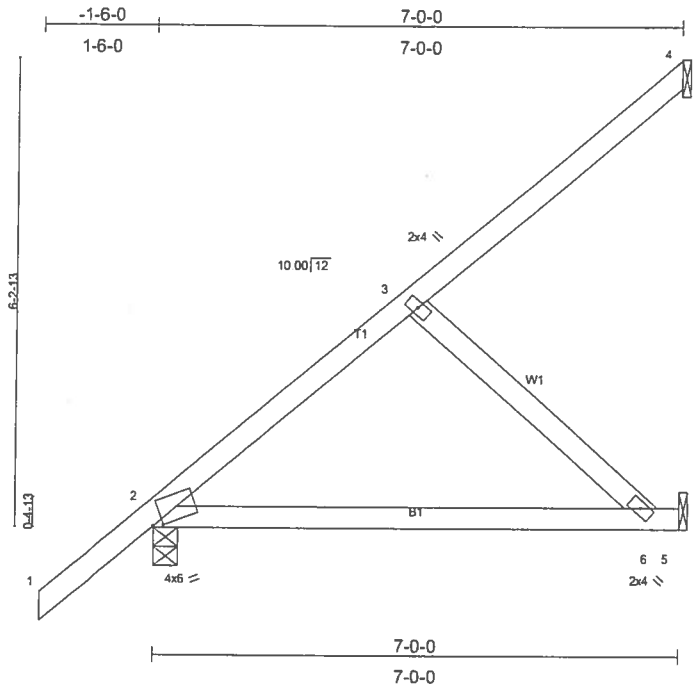


Plate Offsets (X,Y): [2:0-1-10,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	0.23	2-6	>360	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	0.19	2-6	>424	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 33 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=73/Mechanical, 2=385/0-4-0, 5=200/Mechanical
Max Horz 2=346(load case 5)
Max Uplift4=-98(load case 5), 2=-188(load case 5), 5=-192(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-205/0, 3-4=-83/35
BOT CHORD 2-6=-210/138, 5-6=0/0
WEBS 3-6=-185/280

JOINT STRESS INDEX
2 = 0.94, 3 = 0.16 and 6 = 0.13

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 4, 188 lb uplift at joint 2 and 192 lb uplift at joint 5.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061020

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	EJ7T	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:34:57 2006 Page 1

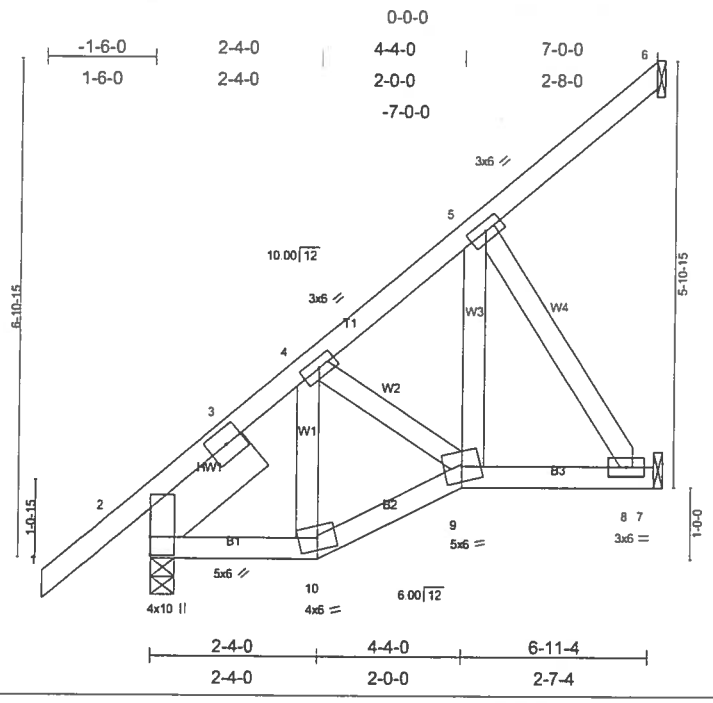


Plate Offsets (X,Y): [2:Edge,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.01	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 51 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
SLIDER Left 2 X 8 SYP No.1D 1-10-15

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) 6=53/Mechanical, 2=381/0-4-0, 7=230/Mechanical
Max Horz 2=334(load case 5)
Max Uplift6=-70(load case 5), 2=-63(load case 5), 7=-172(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-296/0, 3-4=-239/0, 4-5=-216/0, 5-6=-58/25
BOT CHORD 2-10=-177/153, 9-10=-195/188, 8-9=-127/141, 7-8=0/0
WEBS 4-10=-34/96, 4-9=-12/49, 5-9=-120/187, 5-8=-261/235

JOINT STRESS INDEX
2 = 0.23, 2 = 0.12, 3 = 0.00, 4 = 0.06, 5 = 0.15, 8 = 0.16, 9 = 0.16 and 10 = 0.05

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 Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 6, 63 lb uplift at joint 2 and 172 lb uplift at joint 7.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061021

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
TEMP	HJ9	MONO TRUSS	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:49:55 2006 Page 1

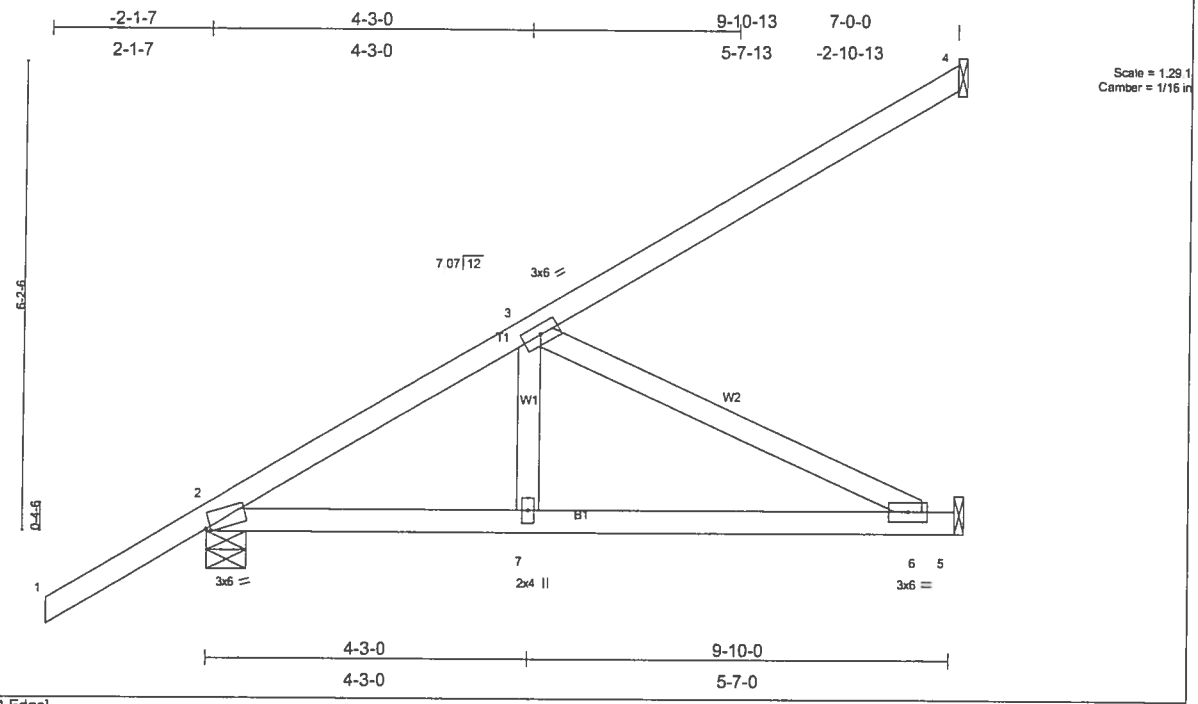


Plate Offsets (X,Y): [2:0-0-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.17	6-7	>695	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.36	Horz(TL)	0.01	5	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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-7 oc bracing.

REACTIONS (lb/size) 4=265/Mechanical, 2=488/0-6-7, 5=388/Mechanical
Max Horz 2=439(load case 4)
Max Uplift4=-323(load case 4), 2=-242(load case 4), 5=-243(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-630/108, 3-4=-206/98
BOT CHORD 2-7=-462/528, 6-7=-462/528, 5-6=0/0
WEBS 3-7=-104/211, 3-6=-588/514

JOINT STRESS INDEX
2 = 0.87, 3 = 0.24, 6 = 0.17 and 7 = 0.15

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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 4, 242 lb uplift at joint 2 and 243 lb uplift at joint 5.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

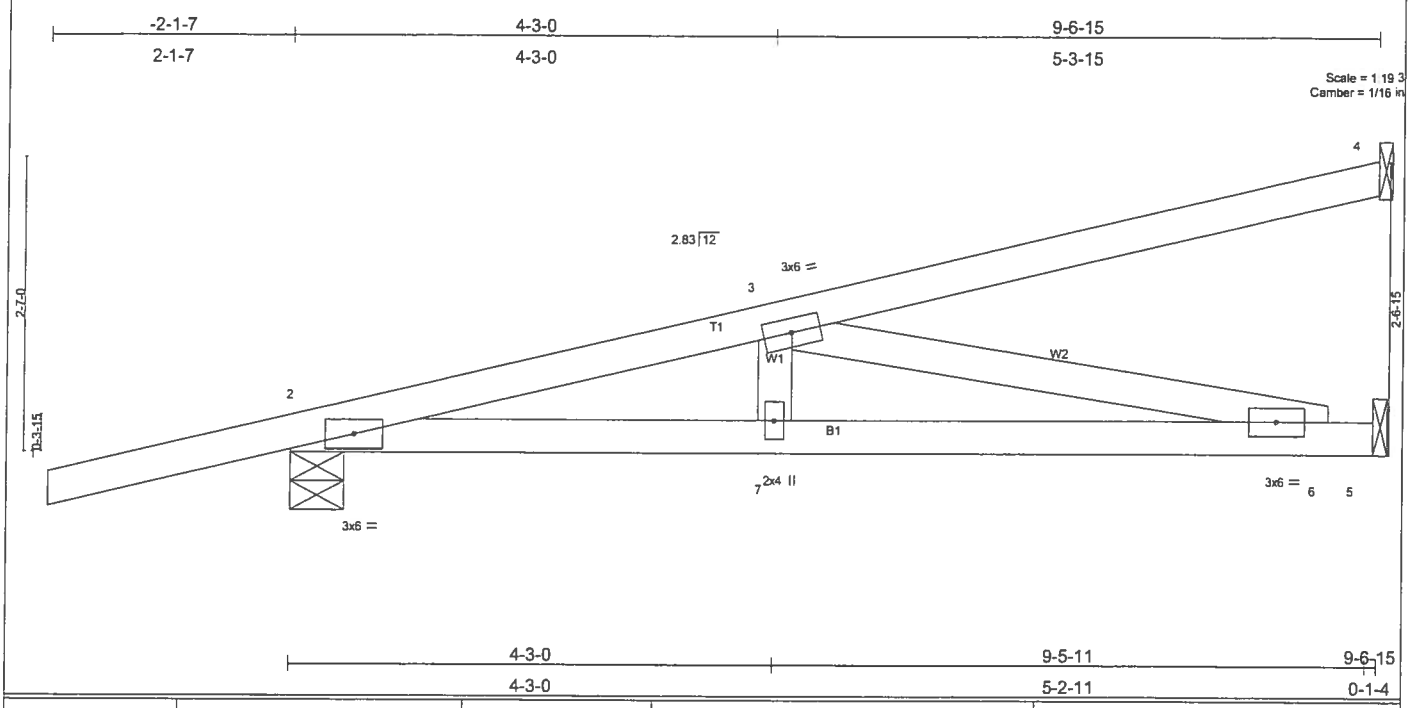
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=15, B=15)-to-5=-74(F=-22, B=-22)

SEPTEMBER 15, 2006 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.#0915061022

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	HJ9C	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:51:19 2006 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	0.55	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.17	6-7	>655	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.53	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 40 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-9 oc bracing.

REACTIONS (lb/size) 4=250/Mechanical, 2=462/0-5-10, 5=358/Mechanical
Max Horz 2=157(load case 2)
Max Uplift4=-191(load case 2), 2=-366(load case 2), 5=-173(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-1141/603, 3-4=-61/42
BOT CHORD 2-7=-703/1099, 6-7=-703/1099, 5-6=0/0
WEBS 3-7=-90/178, 3-6=-1124/718

JOINT STRESS INDEX
2 = 0.52, 3 = 0.31, 6 = 0.32 and 7 = 0.13

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 4, 366 lb uplift at joint 2 and 173 lb uplift at joint 5.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

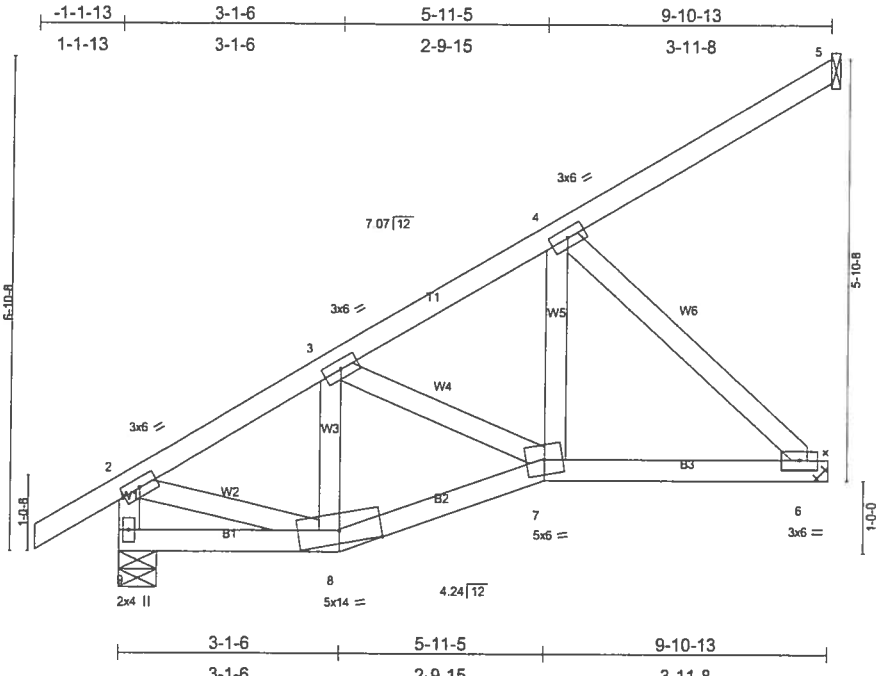
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-3(F=25, B=25)-to-4=-129(F=-37, B=-37), 2=0(F=15, B=15)-to-5=-72(F=-21, B=-21)

SEPTEMBER 15, 2006 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.#0915061023

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	HJ9T	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:35:19 2006 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 0.28	Vert(LL) -0.02 6-7 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.23	Vert(TL) -0.03 6-7 >999 180	
BCLL 10.0	Rep Stress Incr NO	WB 0.24	Horz(TL) -0.01 6 n/a n/a	
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)		Weight: 58 lb

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

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

REACTIONS (lb/size) 9=405/0-6-7, 5=184/Mechanical, 6=481/Mechanical
Max Horz 9=406(load case 4)
Max Uplift9=-9(load case 4), 5=-227(load case 4), 6=-270(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-389/19, 1-2=0/36, 2-3=-404/0, 3-4=-499/0, 4-5=-147/68
BOT CHORD 8-9=-316/7, 7-8=-293/368, 6-7=-307/406
WEBS 2-8=0/339, 3-8=-165/85, 3-7=-96/104, 4-7=-38/257, 4-6=-557/421

JOINT STRESS INDEX
2 = 0.69, 3 = 0.06, 4 = 0.24, 6 = 0.23, 7 = 0.37, 8 = 0.11 and 9 = 0.20

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 9, 227 lb uplift at joint 5 and 270 lb uplift at joint 6.
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: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-2(F=26, B=26)-to-5=-134(F=-40, B=-40), 9=0(F=15, B=15)-to-8=-23(F=4, B=4), 8=-23(F=4, B=4)-to-7=-44(F=-7, B=-7), 7=-44(F=-7, B=-7)-to-6=-72(F=-21, B=-21)

SEPTEMBER 15, 2006 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.#0915061024

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	PB11	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:55:17 2006 Page 1

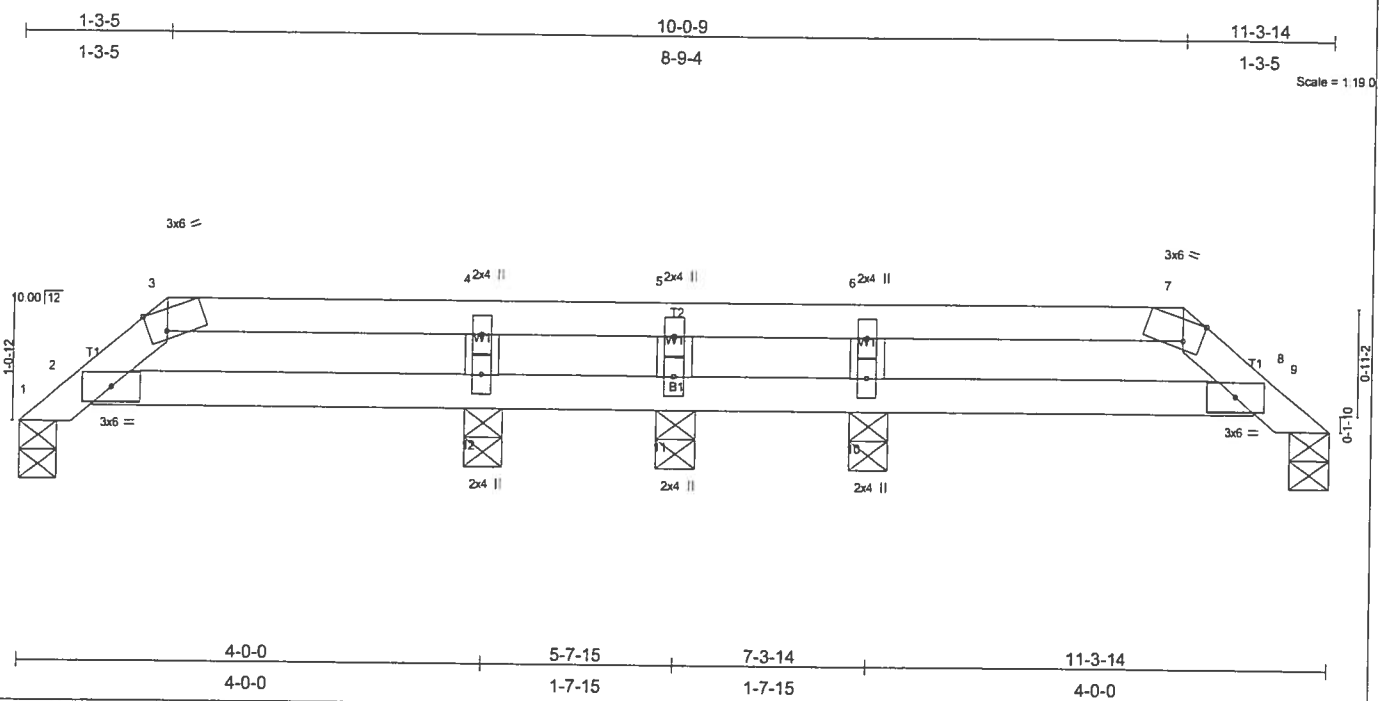


Plate Offsets (X,Y): [3:0-1-13,Edge], [7:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	8-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 34 lb	

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

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

REACTIONS (lb/size) 1=156/0-4-0, 9=157/0-4-0, 12=288/0-4-0, 11=15/0-4-0, 10=292/0-4-0
Max Horz 1=34(load case 4)
Max Uplift1=-52(load case 4), 9=-56(load case 3), 12=-133(load case 4), 11=-29(load case 3), 10=-127(load case 3)
Max Grav 1=156(load case 1), 9=157(load case 1), 12=290(load case 9), 11=20(load case 10), 10=293(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-87/49, 2-3=-177/98, 3-4=-159/80, 4-5=-159/80, 5-6=-159/80, 6-7=-159/80, 7-8=-177/97, 8-9=-88/37
BOT CHORD 2-12=-84/159, 11-12=-84/159, 10-11=-84/159, 8-10=-84/159
WEBS 4-12=-165/133, 5-11=-31/41, 6-10=-168/131

JOINT STRESS INDEX
2 = 0.15, 3 = 0.10, 4 = 0.08, 5 = 0.02, 6 = 0.07, 7 = 0.09, 8 = 0.16, 10 = 0.07, 11 = 0.02 and 12 = 0.08

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 9 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 52 lb uplift at joint 1, 56 lb uplift at joint 9, 133 lb uplift at joint 12, 29 lb uplift at joint 11 and 127 lb uplift at joint 10.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061025

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	PB12	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:56:14 2006 Page 1

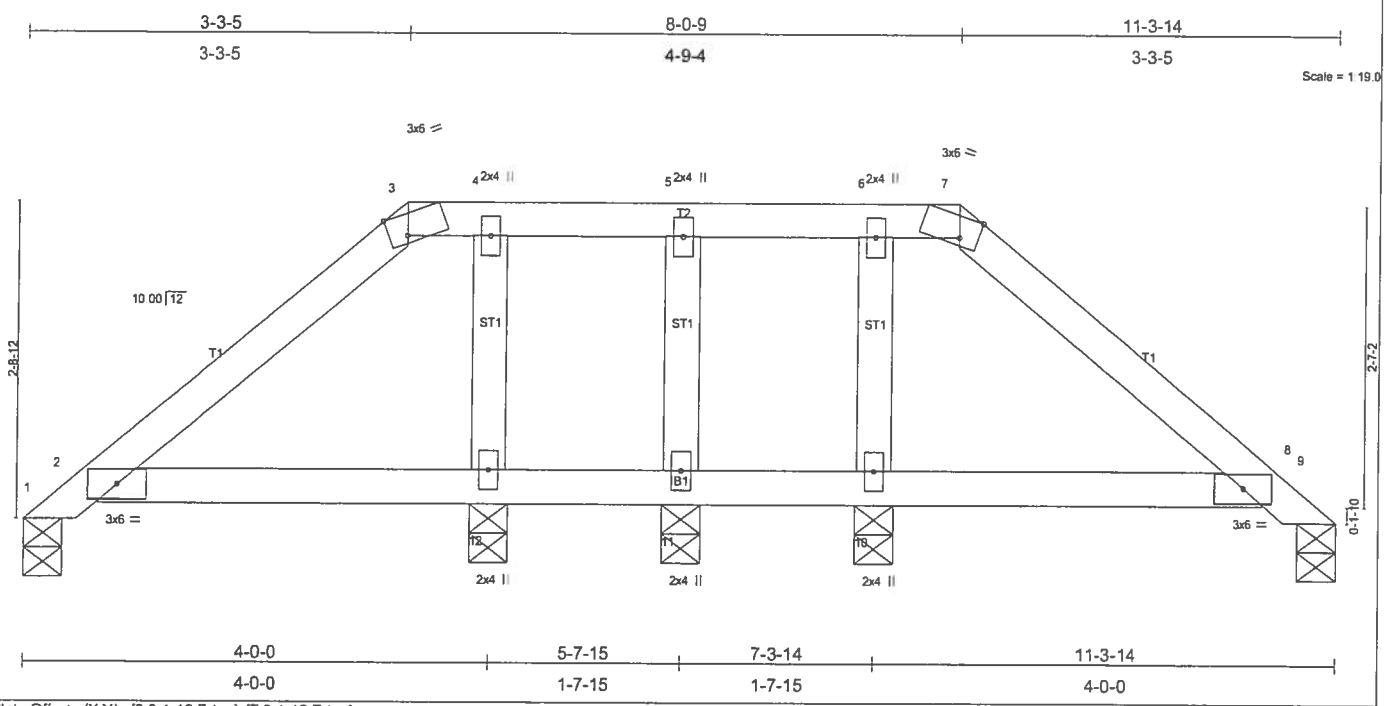


Plate Offsets (X,Y): [3:0-1-13,Edge], [7:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.02	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 44 lb	

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

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

REACTIONS (lb/size) 1=128/0-4-0, 9=128/0-4-0, 11=-44/0-4-0, 10=347/0-4-0, 12=347/0-4-0
Max Horz 1=-91(load case 3)
Max Uplift1=-57(load case 6), 9=-62(load case 6), 11=-81(load case 3), 10=-103(load case 6), 12=-142(load case 4)
Max Grav 1=128(load case 1), 9=128(load case 1), 11=46(load case 5), 10=347(load case 1), 12=347(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-75/88, 2-3=-50/68, 3-4=-12/81, 4-5=-12/81, 5-6=-12/81, 6-7=-12/81, 7-8=-50/51, 8-9=-71/40
BOT CHORD 2-12=-28/41, 11-12=-28/41, 10-11=-28/41, 8-10=-28/41
WEBS 5-11=-23/84, 6-10=-199/99, 4-12=-199/132

JOINT STRESS INDEX
2 = 0.32, 3 = 0.11, 4 = 0.08, 5 = 0.05, 6 = 0.08, 7 = 0.11, 8 = 0.32, 10 = 0.08, 11 = 0.05 and 12 = 0.08

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 9 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 57 lb uplift at joint 1, 62 lb uplift at joint 9, 81 lb uplift at joint 11, 103 lb uplift at joint 10 and 142 lb uplift at joint 12.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061026

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	PB13	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 14:57:16 2006 Page 1

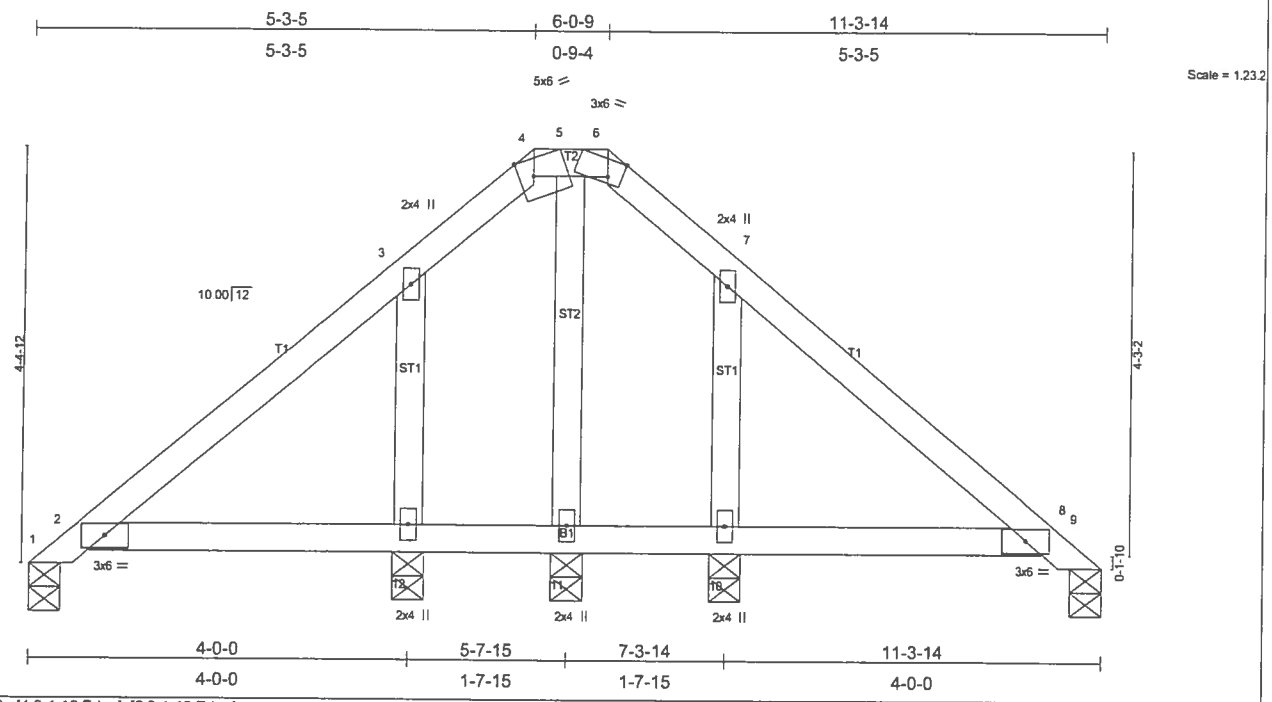


Plate Offsets (X,Y): [4:0-1-13,Edge], [6:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 50 lb	

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

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

REACTIONS (lb/size) 1=38/0-4-0, 9=38/0-4-0, 11=172/0-4-0, 10=329/0-4-0, 12=329/0-4-0
Max Horz 9=149(load case 4)
Max Uplift1=-6(load case 4), 9=-38(load case 4), 11=-26(load case 3), 10=-227(load case 6), 12=-217(load case 5)
Max Grav 1=59(load case 9), 9=59(load case 10), 11=172(load case 1), 10=329(load case 1), 12=329(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-32/9, 2-3=-110/222, 3-4=-12/139, 4-5=-4/118, 5-6=-4/118, 6-7=-10/139, 7-8=-144/222, 8-9=-154/148
BOT CHORD 2-12=-118/158, 11-12=-118/158, 10-11=-118/158, 8-10=-118/158
WEBS 5-11=-193/38, 7-10=-198/214, 3-12=-198/208

JOINT STRESS INDEX
2 = 0.25, 3 = 0.11, 4 = 0.12, 5 = 0.00, 6 = 0.15, 7 = 0.11, 8 = 0.25, 10 = 0.12, 11 = 0.07 and 12 = 0.12

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 9 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 6 lb uplift at joint 1, 38 lb uplift at joint 9, 26 lb uplift at joint 11 , 227 lb uplift at joint 10 and 217 lb uplift at joint 12.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

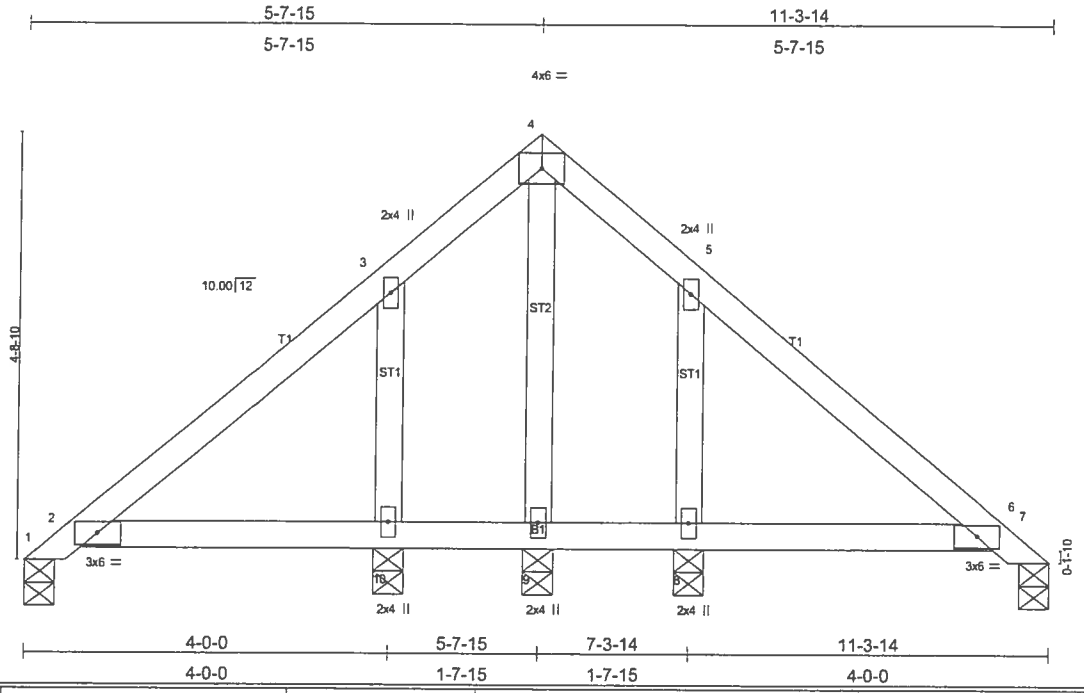
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061027

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	PB14	VALLEY	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:15:05 2006 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	0.12	Vert(LL)	-0.01	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 51 lb	

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

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

REACTIONS (lb/size) 1=40/0-4-0, 7=40/0-4-0, 9=176/0-4-0, 8=325/0-4-0, 10=325/0-4-0
Max Horz 1=-159(load case 3)
Max Uplift1=-41(load case 3), 7=-3(load case 9), 9=-6(load case 4), 8=-220(load case 6), 10=-229(load case 5)
Max Grav 1=65(load case 4), 7=60(load case 10), 9=176(load case 1), 8=326(load case 10), 10=326(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-167/158, 2-3=-146/219, 3-4=-24/150, 4-5=-14/150, 5-6=-109/219, 6-7=-32/9
BOT CHORD 2-10=-115/157, 9-10=-115/157, 8-9=-115/157, 6-8=-115/157
WEBS 4-9=-198/17, 5-8=-193/210, 3-10=-193/216

JOINT STRESS INDEX
2 = 0.25, 3 = 0.11, 4 = 0.06, 5 = 0.11, 6 = 0.25, 8 = 0.12, 9 = 0.07 and 10 = 0.12

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 3 lb uplift at joint 7, 6 lb uplift at joint 9, 220 lb uplift at joint 8 and 229 lb uplift at joint 10.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061028

Job	Truss	Truss Type	Qty	Ply	CADY HOMES LOT 26 ROLLING OAKS
L210260	PB15	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:17:02 2006 Page 1

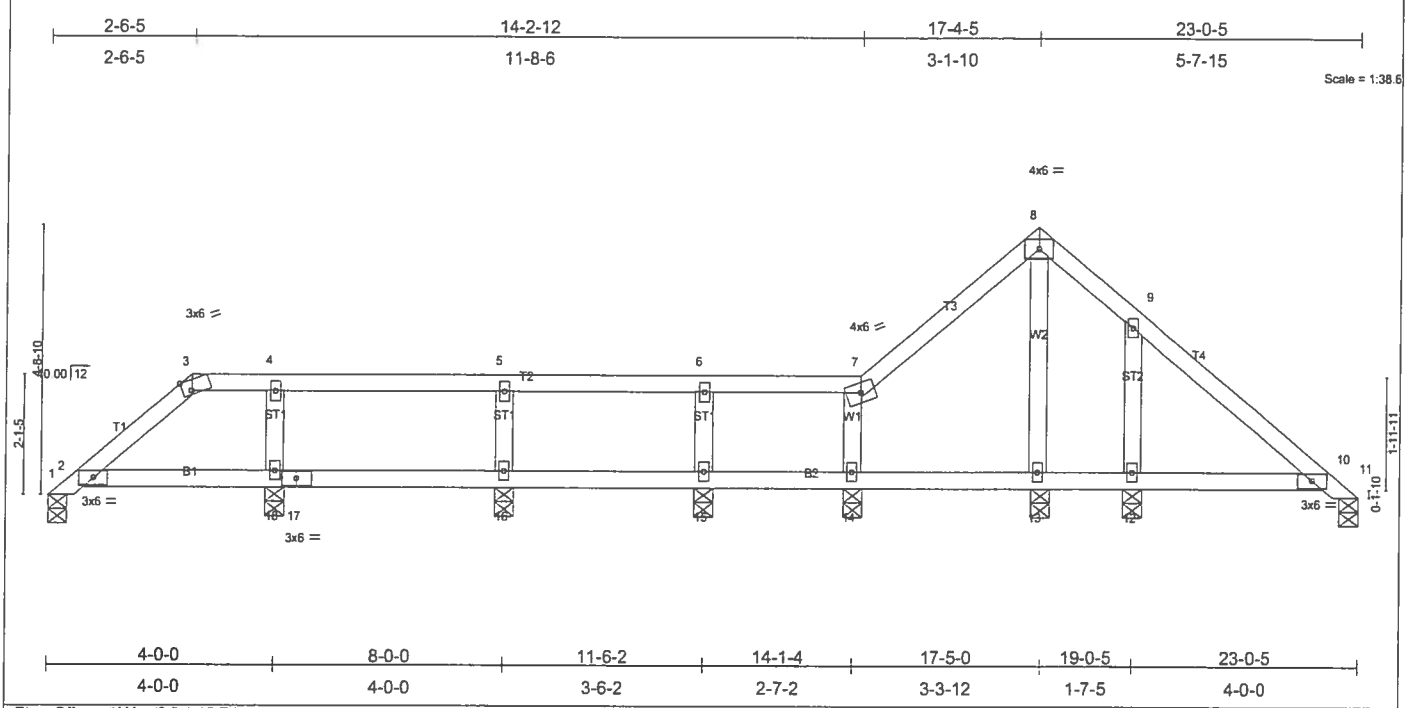


Plate Offsets (X,Y): [3:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.01	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.02	10-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 90 lb	

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

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

REACTIONS (lb/size) 1=111/0-4-0, 11=127/0-4-0, 15=249/0-4-0, 12=302/0-4-0, 18=381/0-4-0, 16=314/0-4-0, 14=259/0-4-0, 13=145/0-4-0
Max Horz 11=-160(load case 3)
Max Uplift1=-35(load case 5), 11=-79(load case 4), 15=-133(load case 3), 12=-224(load case 6), 18=-156(load case 5), 16=-160(load case 3), 14=-175(load case 5)
Max Grav 1=119(load case 9), 11=127(load case 1), 15=249(load case 9), 12=312(load case 10), 18=381(load case 1), 16=315(load case 9), 14=271(load case 9), 13=145(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-66/24, 2-3=-41/35, 3-4=-18/25, 4-5=-18/25, 5-6=-18/25, 6-7=-19/25, 7-8=-84/127, 8-9=-48/167, 9-10=-163/175, 10-11=-178/180
BOT CHORD 2-18=-25/77, 17-18=-25/77, 16-17=-25/77, 15-16=-25/77, 14-15=-25/77, 13-14=-23/60, 12-13=-23/60, 10-12=-23/60
WEBS 6-15=-162/151, 9-12=-187/199, 4-18=-236/162, 5-16=-205/182, 7-14=-181/193, 8-13=-99/22

JOINT STRESS INDEX
2 = 0.29, 3 = 0.23, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.42, 8 = 0.31, 9 = 0.34, 10 = 0.34, 12 = 0.34, 13 = 0.34, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.15 and 18 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 2x4 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 79 lb uplift at joint 11, 133 lb uplift at joint 15, 224 lb uplift at joint 12, 156 lb uplift at joint 18, 160 lb uplift at joint 16 and 175 lb uplift at joint 14.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061029

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	PB16	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:23:26 2006 Page 1

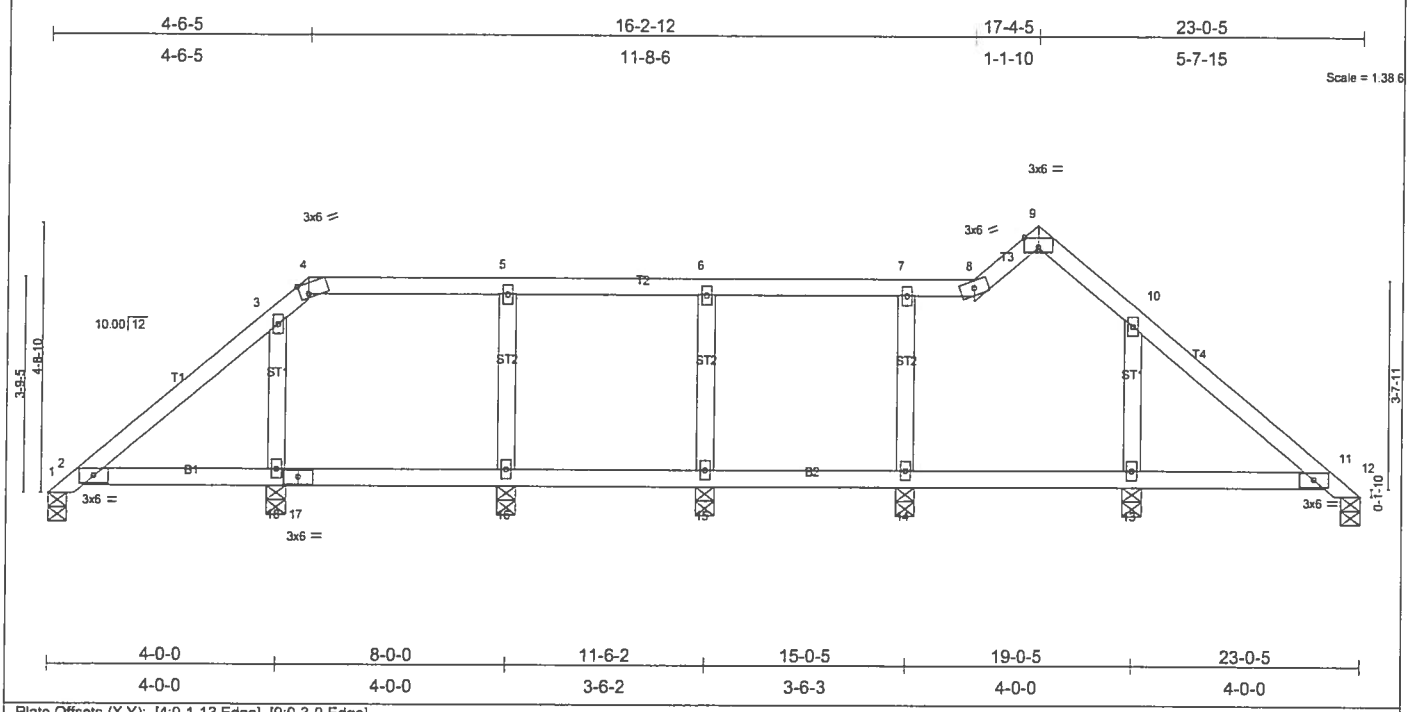


Plate Offsets (X,Y): [4:0-1-13,Edge], [9:0-3-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	2-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-18	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 93 lb	

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

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

REACTIONS (lb/size) 1=119/0-4-0, 12=119/0-4-0, 15=287/0-4-0, 13=373/0-4-0, 14=310/0-4-0, 18=372/0-4-0, 16=309/0-4-0
Max Horz 1=-159(load case 3)
Max Uplift1=-21(load case 3), 15=-144(load case 3), 13=-195(load case 6), 14=-107(load case 5), 18=-217(load case 5), 16=-164(load case 3)
Max Grav 1=123(load case 9), 12=119(load case 1), 15=288(load case 9), 13=373(load case 1), 14=310(load case 1), 18=372(load case 1), 16=309(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-159/147, 2-3=-118/76, 3-4=-80/74, 4-5=-15/44, 5-6=-15/44, 6-7=-15/44, 7-8=-15/44, 8-9=-23/38, 9-10=-73/52, 10-11=-108/92, 11-12=-66/1
BOT CHORD 2-18=-31/156, 17-18=-31/156, 16-17=-31/156, 15-16=-31/156, 14-15=-31/156, 13-14=-31/156, 11-13=-31/156
WEBS 6-15=-184/165, 10-13=-226/200, 7-14=-203/133, 3-18=-225/220, 5-16=-203/182

JOINT STRESS INDEX
2 = 0.31, 3 = 0.34, 4 = 0.22, 5 = 0.34, 6 = 0.34, 7 = 0.34, 8 = 0.18, 9 = 0.16, 10 = 0.34, 11 = 0.30, 13 = 0.34, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.15 and 18 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 2x4 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 1, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 144 lb uplift at joint 15, 195 lb uplift at joint 13, 107 lb uplift at joint 14, 217 lb uplift at joint 18 and 164 lb uplift at joint 16.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061030

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	PB17	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:24:25 2006 Page 1

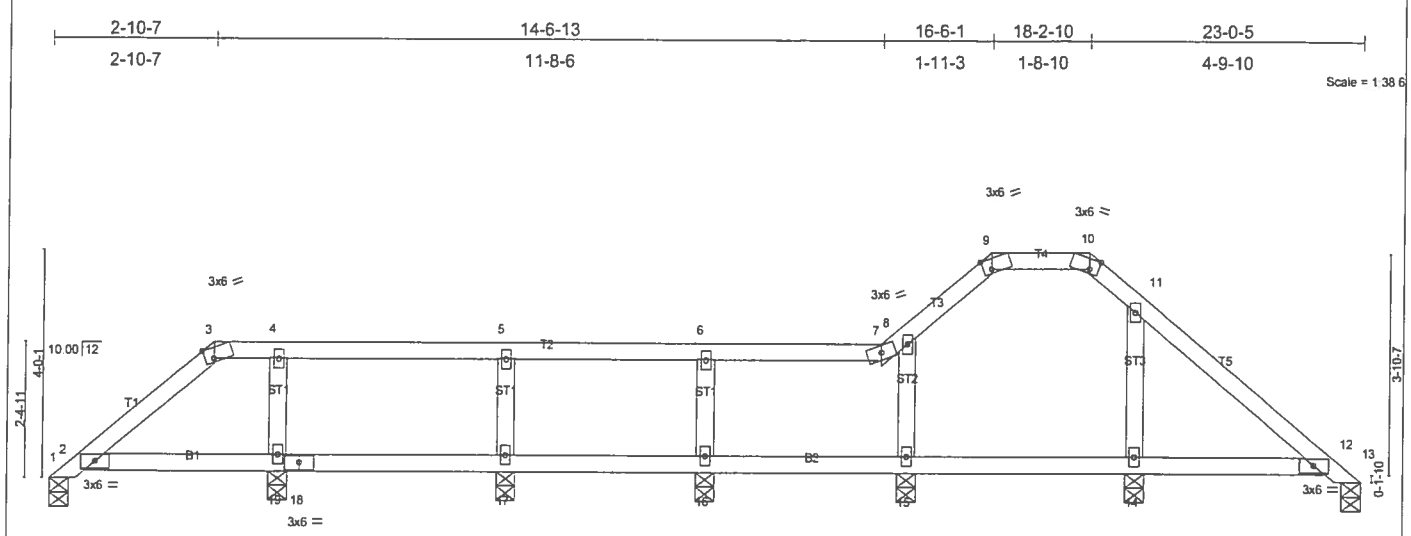


Plate Offsets (X,Y): [3:0-1-13,Edge], [9:0-1-13,Edge], [10:0-1-13,Edge]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.15	Vert(LL) -0.01 12-14 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.11	Vert(TL) -0.02 12-14 >999 180	
BCLL 10.0	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.01 13 n/a n/a	
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)		Weight: 86 lb

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

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

REACTIONS (lb/size) 1=125/0-4-0, 13=131/0-4-0, 16=295/0-4-0, 14=360/0-4-0, 15=305/0-4-0, 19=367/0-4-0, 17=306/0-4-0
Max Horz 1=136(load case 4)
Max Uplift1=-8(load case 6), 13=-22(load case 4), 16=-140(load case 3), 14=-171(load case 6), 15=-98(load case 5), 19=-194(load case 5), 17=-169(load case 3)
Max Grav 1=134(load case 9), 13=131(load case 1), 16=295(load case 9), 14=360(load case 10), 15=316(load case 9), 19=367(load case 1), 17=307(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-112/112, 2-3=-70/24, 3-4=-32/13, 4-5=-32/13, 5-6=-32/13, 6-7=-32/13, 7-8=-40/42, 8-9=-99/70, 9-10=-32/63, 10-11=-85/75, 11-12=-88/102, 12-13=-73/17
BOT CHORD 2-19=-78/137, 18-19=-78/137, 17-18=-78/137, 16-17=-78/137, 15-16=-78/137, 14-15=-78/137, 12-14=-78/137
WEBS 6-16=-192/161, 11-14=-211/174, 8-15=-206/126, 4-19=-222/195, 5-17=-200/187

JOINT STRESS INDEX
2 = 0.28, 3 = 0.22, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.18, 8 = 0.34, 9 = 0.22, 10 = 0.22, 11 = 0.34, 12 = 0.34, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.15 and 19 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 2x4 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 1, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 22 lb uplift at joint 13, 140 lb uplift at joint 16, 171 lb uplift at joint 14, 98 lb uplift at joint 15, 194 lb uplift at joint 19 and 169 lb uplift at joint 17.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061031

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	PB18	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:25:10 2006 Page 1

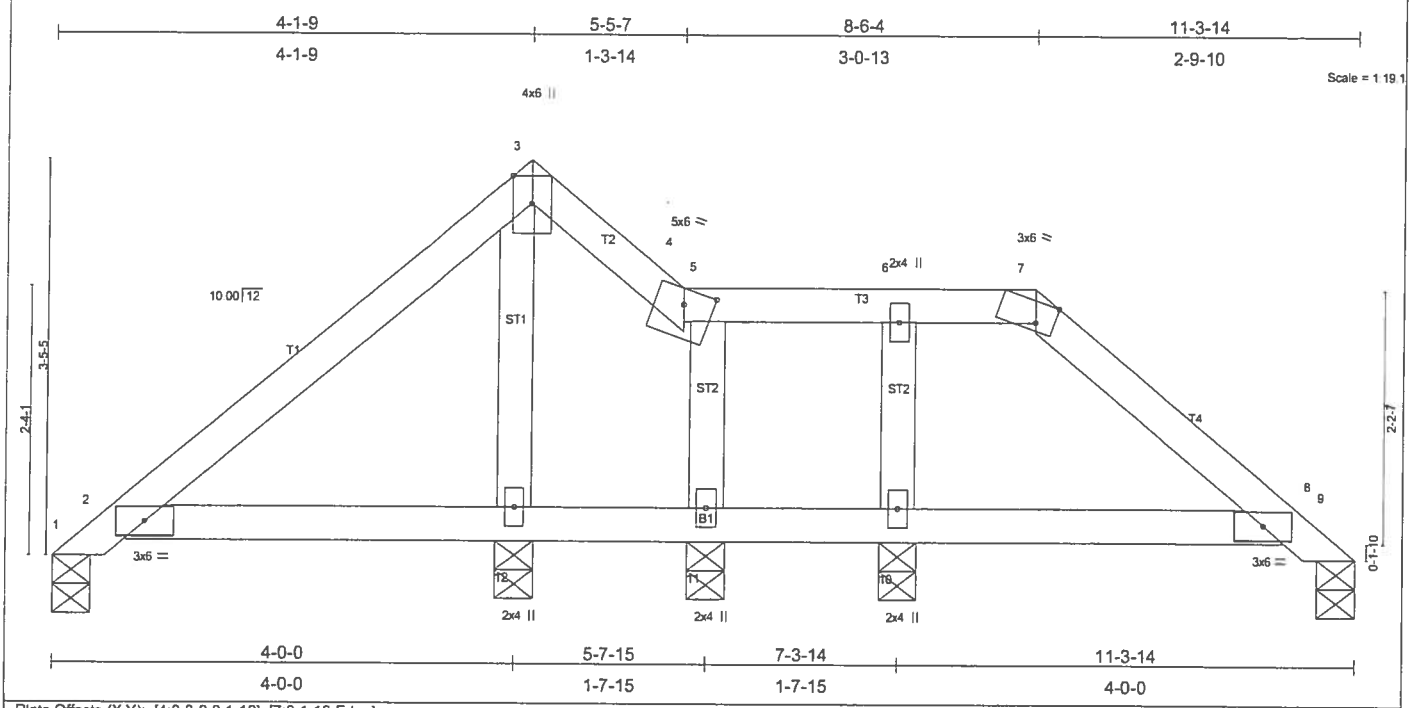


Plate Offsets (X,Y): [4:0-3-0,0-1-10], [7:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	-0.01	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.02	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	9	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
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 1=120/0-4-0, 9=122/0-4-0, 11=-53/0-4-0, 10=355/0-4-0, 12=362/0-4-0
Max Horz 1=115(load case 4)
Max Uplift1=-65(load case 6), 9=-53(load case 6), 11=-102(load case 9), 10=-132(load case 6), 12=-151(load case 5)
Max Grav 1=120(load case 1), 9=132(load case 10), 11=44(load case 5), 10=355(load case 1), 12=368(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-115/127, 2-3=-95/133, 3-4=-33/88, 4-5=-20/55, 5-6=-20/55, 6-7=-20/55, 7-8=-60/42, 8-9=-74/35
BOT CHORD 2-12=-37/50, 11-12=-27/48, 10-11=-27/48, 8-10=-27/48
WEBS 5-11=-39/88, 6-10=-205/118, 3-12=-220/124

JOINT STRESS INDEX
2 = 0.35, 3 = 0.33, 4 = 0.06, 5 = 0.00, 6 = 0.07, 7 = 0.16, 8 = 0.32, 10 = 0.07, 11 = 0.06 and 12 = 0.08

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 9 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 65 lb uplift at joint 1, 53 lb uplift at joint 9, 102 lb uplift at joint 11, 132 lb uplift at joint 10 and 151 lb uplift at joint 12.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061032

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	PB20	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:26:58 2006 Page 1

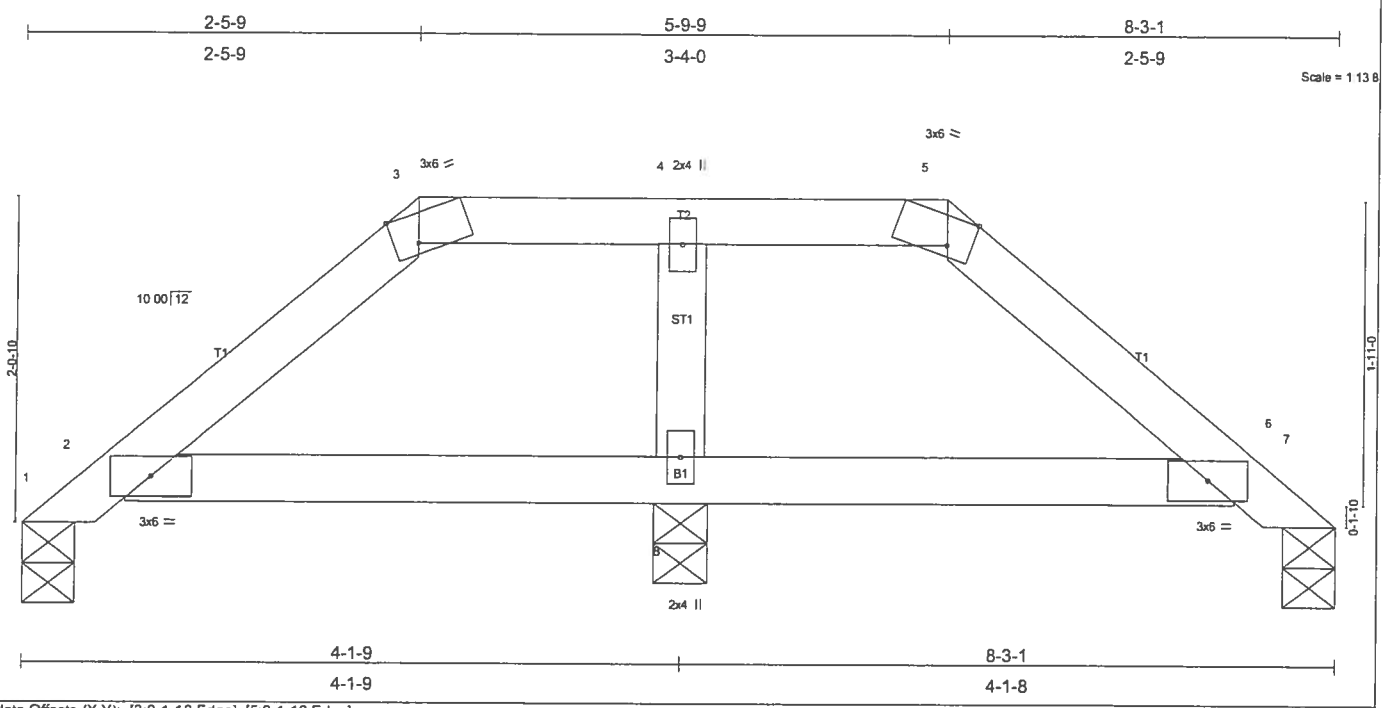


Plate Offsets (X,Y): [3:0-1-13,Edge], [5:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	-0.01	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.01	6-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

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

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

REACTIONS (lb/size) 1=165/0-4-0, 7=165/0-4-0, 8=319/0-4-0
Max Horz 1=-68(load case 3)
Max Uplift1=-66(load case 5), 7=-71(load case 6), 8=-91(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-92/66, 2-3=-138/83, 3-4=-93/94, 4-5=-93/94, 5-6=-138/83, 6-7=-92/45
BOT CHORD 2-8=-55/93, 6-8=-55/93
WEBS 4-8=-152/102

JOINT STRESS INDEX
2 = 0.30, 3 = 0.14, 4 = 0.06, 5 = 0.14, 6 = 0.30 and 8 = 0.06

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 1, 71 lb uplift at joint 7 and 91 lb uplift at joint 8.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

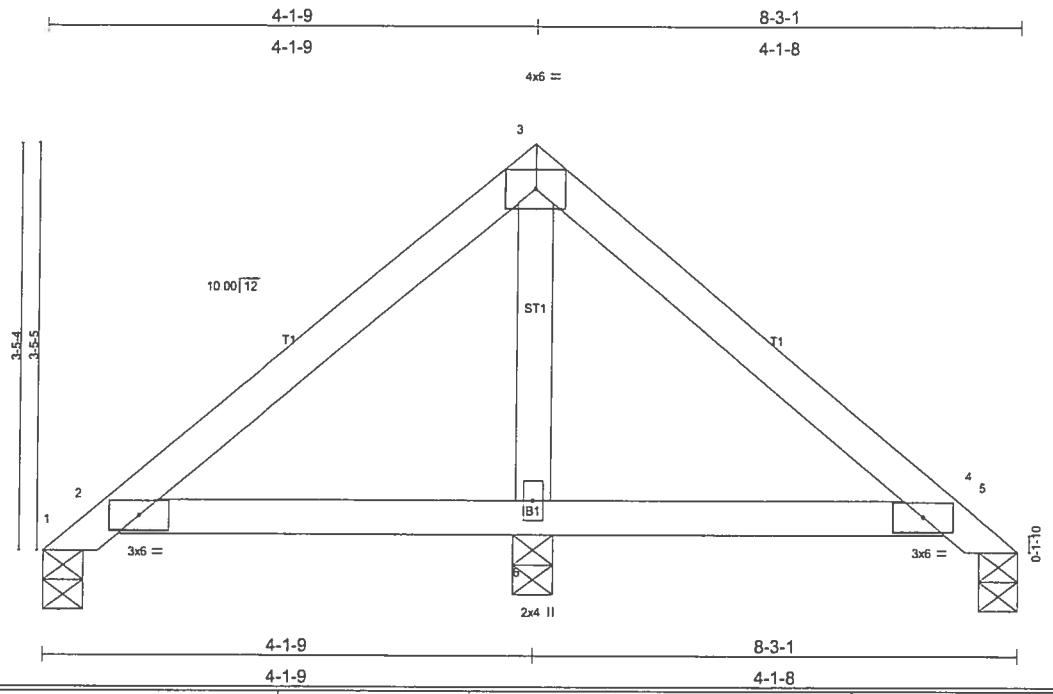
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061033

Job	Truss	Truss Type	Qty	Ply	CADY HOMES--LOT 26 ROLLING OAKS
L210260	PB21	VALLEY	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:29:01 2006 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	0.13	Vert(LL)	-0.01	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.01	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb	

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

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

REACTIONS (lb/size) 1=40/0-4-0, 5=40/0-4-0, 6=568/0-4-0
Max Horz 1=-115(load case 3)
Max Uplift1=-12(load case 10), 5=-31(load case 3), 6=-210(load case 5)
Max Grav 1=67(load case 9), 5=67(load case 10), 6=568(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-105/104, 2-3=-87/217, 3-4=-66/217, 4-5=-36/22
BOT CHORD 2-6=-111/118, 4-6=-111/118
WEBS 3-6=-411/202

JOINT STRESS INDEX
2 = 0.29, 3 = 0.30, 4 = 0.29 and 6 = 0.15

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 interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 31 lb uplift at joint 5 and 210 lb uplift at joint 6.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061034

Job	Truss	Truss Type	Qty	Ply	CADY HOMES--LOT 26 ROLLING OAKS
L210260	PB23	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:30:03 2006 Page 1

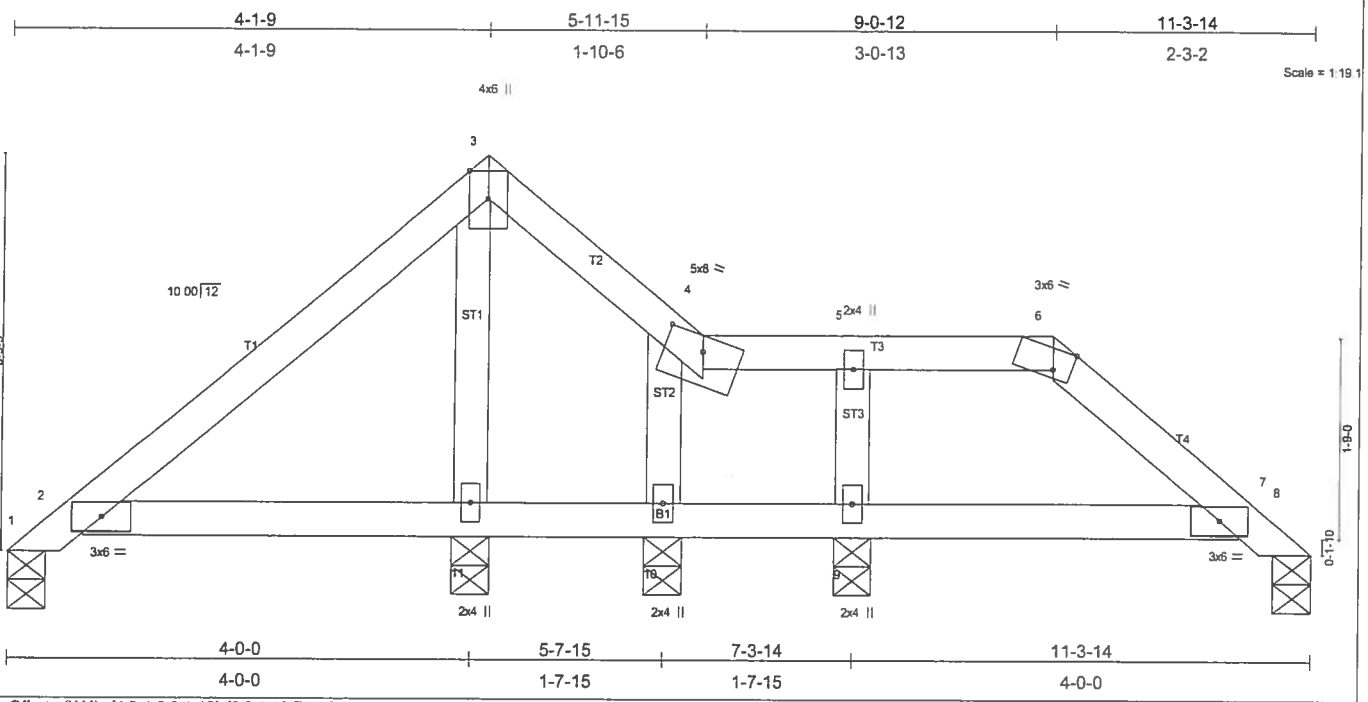


Plate Offsets (X,Y): [4:0-4-0,0-1-10], [6:0-1-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.01	2-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.02	2-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 44 lb	

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

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

REACTIONS (lb/size) 1=140/0-4-0, 8=138/0-4-0, 10=-12/0-4-0, 9=324/0-4-0, 11=316/0-4-0
Max Horz 1=116(load case 4)
Max Uplift1=-71(load case 6), 8=-61(load case 6), 10=-94(load case 3), 9=-108(load case 6), 11=-130(load case 5)
Max Grav 1=140(load case 1), 8=148(load case 10), 10=49(load case 4), 9=324(load case 1), 11=326(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-110/125, 2-3=-77/129, 3-4=-74/87, 4-5=-56/59, 5-6=-56/60, 6-7=-98/50, 7-8=-83/39
BOT CHORD 2-11=-12/41, 10-11=-14/41, 9-10=-16/56, 7-9=-16/56
WEBS 4-10=-75/97, 5-9=-176/111, 3-11=-174/100

JOINT STRESS INDEX
2 = 0.40, 3 = 0.33, 4 = 0.04, 5 = 0.06, 6 = 0.16, 7 = 0.30, 9 = 0.06, 10 = 0.05 and 11 = 0.06

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 1, 61 lb uplift at joint 8, 94 lb uplift at joint 10, 108 lb uplift at joint 9 and 130 lb uplift at joint 11.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061035

Job	Truss	Truss Type	Qty	Ply	CADY HOMES--LOT 26 ROLLING OAKS
L210260	T01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:32:53 2006 Page 1

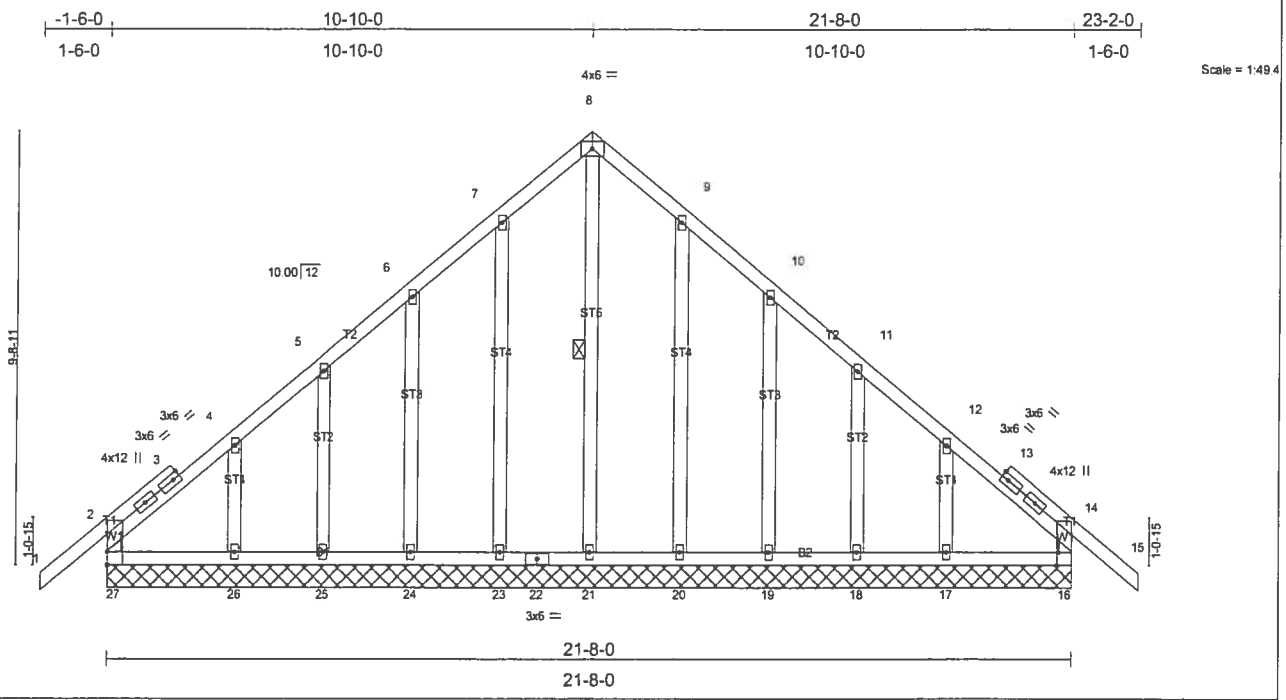


Plate Offsets (X,Y): [14:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.03	15	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.19	Horz(TL)	0.01	16	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 161 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-21

REACTIONS (lb/size) 27=288/21-8-0, 21=218/21-8-0, 23=234/21-8-0, 24=233/21-8-0, 25=242/21-8-0, 26=179/21-8-0, 20=234/21-8-0, 19=233/21-8-0, 18=242/21-8-0, 17=179/21-8-0, 16=288/21-8-0
Max Horz 27=310(load case 4)
Max Uplift27=-157(load case 3), 23=-131(load case 5), 24=-164(load case 5), 25=-137(load case 5), 26=-189(load case 5), 20=-128(load case 6), 19=-164(load case 6), 18=-140(load case 6), 17=-181(load case 6), 16=-102(load case 4)
Max Grav 27=289(load case 9), 21=236(load case 6), 23=238(load case 9), 24=233(load case 1), 25=242(load case 9), 26=179(load case 1), 20=238(load case 10), 19=233(load case 1), 18=242(load case 10), 17=179(load case 1), 16=289(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4/81, 2-3=-255/189, 3-4=-256/194, 4-5=-176/149, 5-6=-113/148, 6-7=-70/216, 7-8=-72/268, 8-9=-72/255, 9-10=-70/178, 10-11=-71/103, 11-12=-108/81, 12-13=-183/122, 13-14=-183/118, 14-15=-4/81, 2-27=-243/137, 14-16=-243/102
BOT CHORD 26-27=-73/224, 25-26=-73/224, 24-25=-73/224, 23-24=-73/224, 22-23=-73/224, 21-22=-73/224, 20-21=-73/224, 19-20=-73/224, 18-19=-73/224, 17-18=-73/224, 16-17=-73/224
WEBS 8-21=-224/0, 7-23=-178/144, 6-24=-172/173, 5-25=-184/159, 4-26=-112/174, 9-20=-178/141, 10-19=-172/174, 11-18=-184/160, 12-17=-112/170

JOINT STRESS INDEX
2 = 0.62, 3 = 0.00, 3 = 0.15, 3 = 0.15, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.34, 8 = 0.31, 9 = 0.34, 10 = 0.34, 11 = 0.34, 12 = 0.34, 13 = 0.00, 13 = 0.15, 13 = 0.15, 14 = 0.55, 16 = 0.00, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34, 22 = 0.15, 23 = 0.34, 24 = 0.34, 25 = 0.34, 26 = 0.34 and 27 = 0.00

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 Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 27, 131 lb uplift at joint 23, 164 lb uplift at joint 24, 137 lb uplift at joint 25, 189 lb uplift at joint 26, 128 lb uplift at joint 20, 164 lb uplift at joint 19, 140 lb uplift at joint 18, 181 lb uplift at joint 17 and 102 lb uplift at joint 16.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-87(F=-33), 2-4=-47(F=-33), 4-8=-87(F=-33), 8-12=-87(F=-33), 12-14=-47(F=-33), 14-15=-87(F=-33), 16-27=-30

SEPTEMBER 15, 2006 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.#0915061036

Job	Truss	Truss Type	Qty	Ply	CADY HOMES--LOT 26 ROLLING OAKS
L210260	T02	COMMON	11	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 13 15:44:29 2006 Page 1

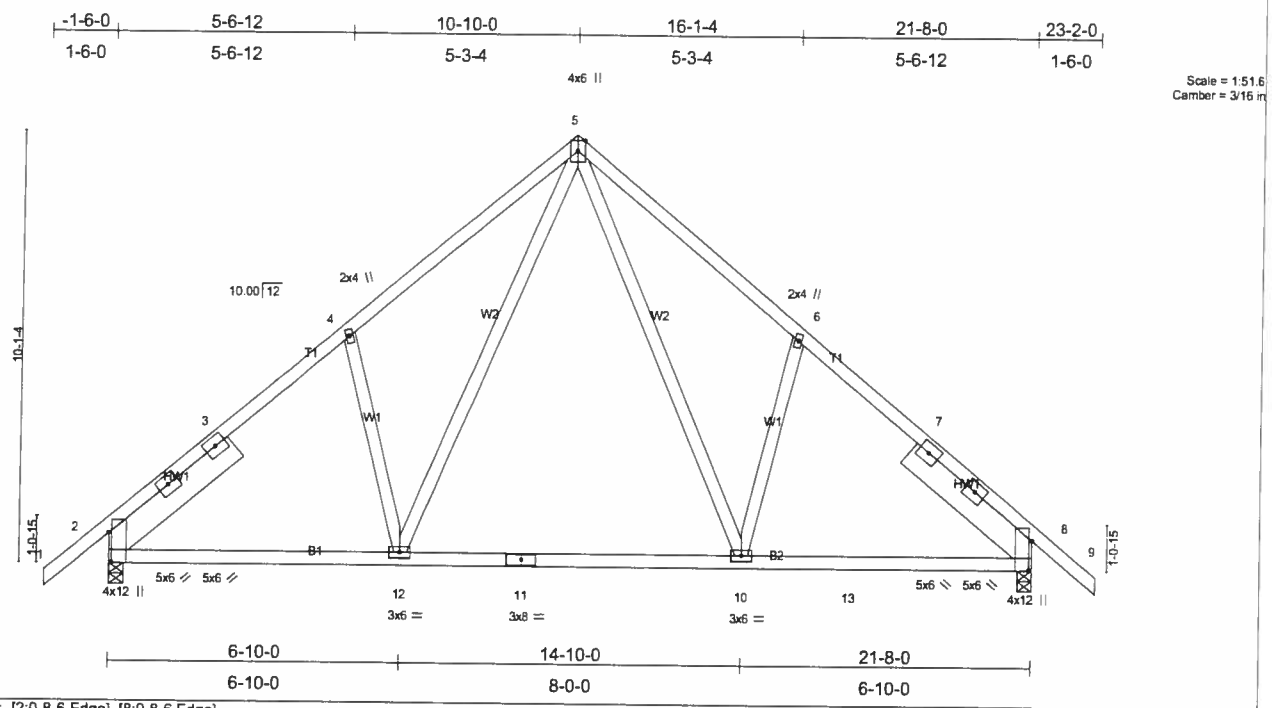


Plate Offsets (X,Y): [2:0-8-6,Edge], [8:0-8-6,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.28	10-12	>943	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.45	10-12	>578	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(TL)	0.03	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 150 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
SLIDER Left 2 X 8 SYP No.1D 3-9-10, Right 2 X 8 SYP No.1D 3-9-10

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1224/0-4-0, 8=1285/0-4-0
Max Horz 2=342(load case 4)
Max Uplift2=-449(load case 5), 8=-472(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-1421/445, 3-4=-1336/474, 4-5=-1267/614, 5-6=-1330/638, 6-7=-1398/498, 7-8=-1504/476, 8-9=0/26
BOT CHORD 2-12=-308/960, 11-12=-132/703, 10-11=-132/703, 10-13=-243/1009, 8-13=-243/1009
WEBS 4-12=-142/299, 5-12=-362/638, 5-10=-411/766, 6-10=-143/300

JOINT STRESS INDEX
2 = 0.73, 2 = 0.28, 2 = 0.28, 3 = 0.00, 4 = 0.34, 5 = 0.58, 6 = 0.34, 7 = 0.00, 8 = 0.73, 8 = 0.28, 8 = 0.28, 10 = 0.68, 11 = 0.80 and 12 = 0.68

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 2 and 472 lb uplift at joint 8.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-9=-54, 2-12=-30, 12-13=-80(F=-50), 8-13=-30

SEPTEMBER 15, 2006 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

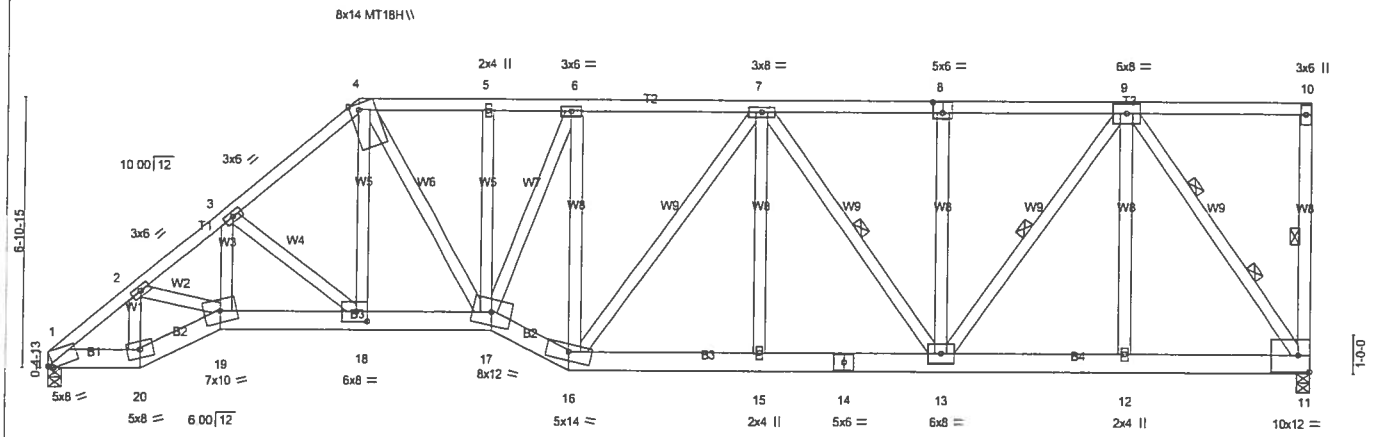
Dwg.#0915061037

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T03	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:50:33 2006 Page 1

2-4-0	4-4-0	7-9-12	11-4-0	13-4-0	18-1-14	22-10-0	27-6-2	32-4-0
2-4-0	2-0-0	3-5-12	3-6-4	2-0-0	4-9-14	4-8-2	4-8-2	4-9-14

Scale = 1:56.4
Camber = 1/8 in



2-4-0	4-4-0	7-9-12	11-4-0	13-4-0	18-1-14	22-10-0	27-6-2	32-4-0
2-4-0	2-0-0	3-5-12	3-6-4	2-0-0	4-9-14	4-8-2	4-8-2	4-9-14

Plate Offsets (X,Y): [1:0-1-8,Edge], [4:0-1-13,Edge], [8:0-3-0,0-3-4], [18:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.21	17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.34	17	>999	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(TL)	0.15	11	n/a	n/a		
BCDL	5.0	Code	FBC2004/TPI2002	(Matrix)							Weight: 268 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-2 oc bracing.
WEBS 1 Row at midpt 10-11, 7-13, 9-13
2 Rows at 1/3 pts 9-11

REACTIONS (lb/size) 1=2750/0-4-0, 11=2981/0-4-0
Max Horz 1=238(load case 4)
Max Uplift1=-1213(load case 3), 11=-1939(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4013/1802, 2-3=-5294/2487, 3-4=-4460/2202, 4-5=-4028/2161, 5-6=-4027/2161, 6-7=-3718/2093, 7-8=-3090/1931, 8-9=-3089/1929, 9-10=-31/28, 10-11=-247/296
BOT CHORD 1-20=-1506/2957, 19-20=-1597/3157, 18-19=-1980/3999, 17-18=-1676/3432, 16-17=-2236/4047, 15-16=-2233/3702, 14-15=-2233/3701, 13-14=-2233/3701, 12-13=-1206/1878, 11-12=-1206/1878
WEBS 2-20=-1267/668, 2-19=-620/1269, 3-19=-393/866, 3-18=-766/458, 4-18=-613/1418, 4-17=-885/1140, 5-17=-75/19, 6-17=-314/877, 6-16=-1205/669, 7-16=0/234, 7-15=0/256, 7-13=-1050/523, 8-13=-525/643, 9-13=-1243/2080, 9-12=0/302, 9-11=-3174/2024

JOINT STRESS INDEX
1 = 0.77, 2 = 0.70, 3 = 0.68, 4 = 0.82, 5 = 0.34, 6 = 0.79, 7 = 0.58, 8 = 0.75, 9 = 0.79, 10 = 0.36, 11 = 0.48, 12 = 0.34, 13 = 0.80, 14 = 0.81, 15 = 0.34, 16 = 0.94, 17 = 0.69, 18 = 0.39, 19 = 0.91 and 20 = 0.75

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1213 lb uplift at joint 1 and 1939 lb uplift at joint 11.
6) Girder carries tie-in span(s): 7-0-10 from 7-9-12 to 13-4-0; 2-3-3 from 7-9-12 to 13-4-0; 2-3-3 from 7-9-12 to 13-4-0
7) Girder carries hip end with 0-0-0 right side setback, 13-4-0 left side setback, and 7-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down and 88 lb up at 7-9-12 on top chord, and 485 lb down and 230 lb up at 7-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-10=-117(F=-63), 1-20=-30, 19-20=-30, 18-19=-30, 17-18=-129(F=-99), 16-17=-129(F=-99), 11-16=-65(F=-35)
Concentrated Loads (lb)
Vert: 4=-185(F) 18=-485(F)

SEPTEMBER 15, 2006 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

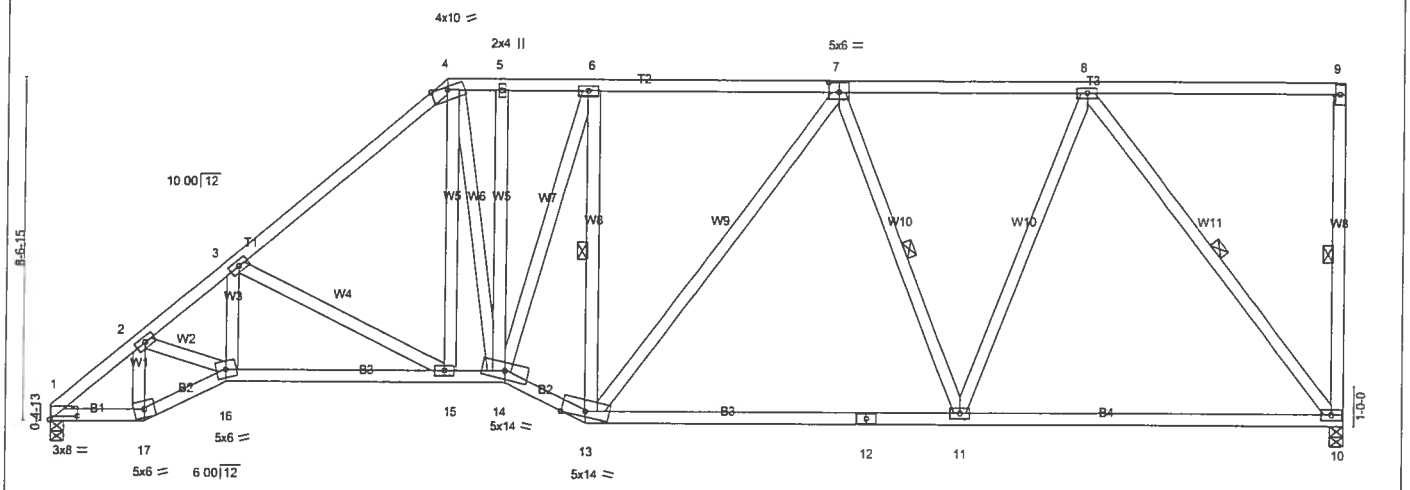
Dwg.#0915061038

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:50:57 2006 Page 1

2-4-0	4-4-0	9-9-12	11-4-0	13-4-0	19-6-13	25-9-11	32-4-0
2-4-0	2-0-0	5-5-12	1-6-4	2-0-0	6-2-13	6-2-13	6-6-5

Scale = 1:55 0
Camber = 1/8 in



2-4-0	4-4-0	9-9-12	11-4-0	13-4-0	22-8-4	32-4-0
2-4-0	2-0-0	5-5-12	1-6-4	2-0-0	9-4-4	9-7-12

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.17	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.29	10-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.09	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 241 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 3-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-8 oc bracing.
WEBS 1 Row at midpt 9-10, 6-13, 7-11, 8-10

REACTIONS (lb/size) 1=1345/0-4-0, 10=1345/0-4-0
Max Horz 1=382(load case 5)
Max Uplift1=-349(load case 5), 10=-550(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1875/480, 2-3=-2430/789, 3-4=-1742/556, 4-5=-1322/498, 5-6=-1319/497, 6-7=-1299/484, 7-8=-1105/398, 8-9=-31/7, 9-10=-160/128
BOT CHORD 1-17=-678/1336, 16-17=-727/1464, 15-16=-871/1836, 14-15=-497/1280, 13-14=-535/1391, 12-13=-483/1254, 11-12=-483/1254, 10-11=-349/842
WEBS 2-17=-600/309, 2-16=-246/621, 3-16=-195/539, 3-15=-636/424, 4-15=-156/515, 4-14=-313/210, 5-14=-138/128, 6-14=-183/107, 6-13=-382/310, 7-13=-85/106, 7-11=-423/249, 8-11=-179/745, 8-10=-1330/560

JOINT STRESS INDEX
1 = 0.81, 2 = 0.45, 3 = 0.45, 4 = 0.89, 5 = 0.34, 6 = 0.51, 7 = 0.46, 8 = 0.67, 9 = 0.34, 10 = 0.69, 11 = 0.67, 12 = 0.44, 13 = 0.67, 14 = 0.39, 15 = 0.35, 16 = 0.58 and 17 = 0.36

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All plates are 3x6 MT20 unless otherwise indicated.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 1 and 550 lb uplift at joint 10.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061039

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:52:46 2006 Page 1

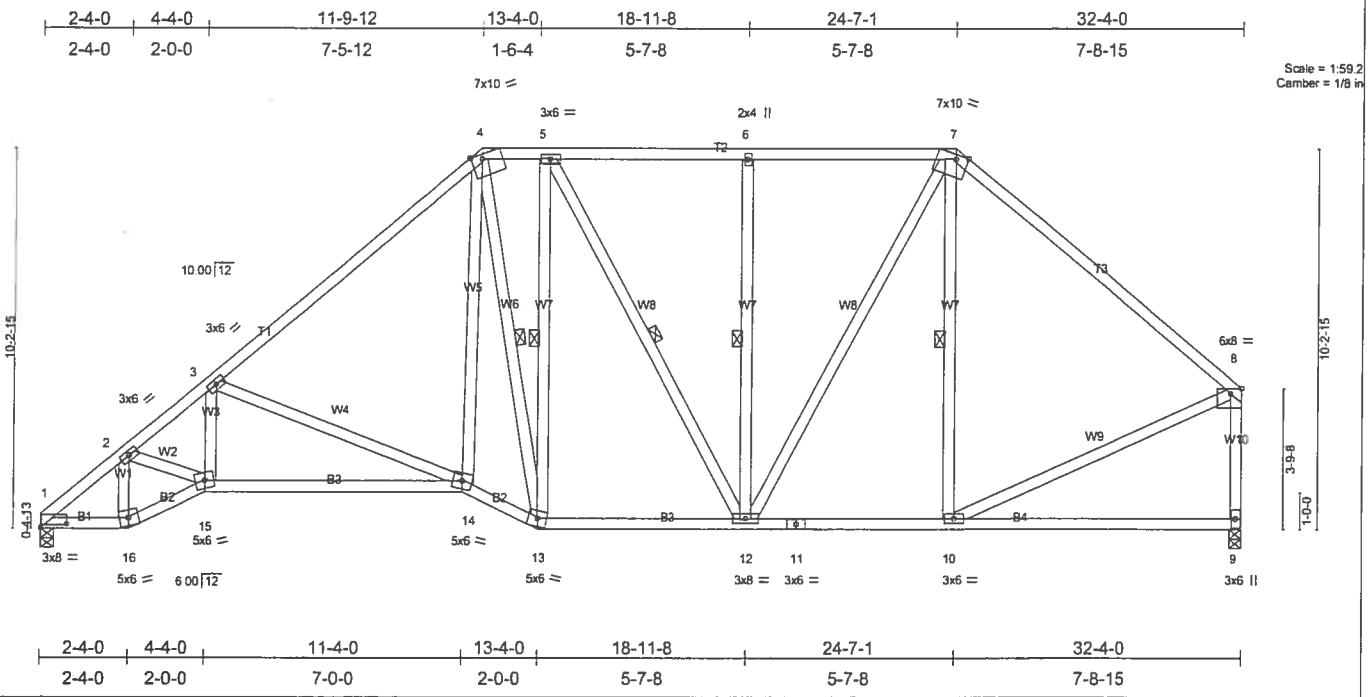


Plate Offsets (X,Y): [1:0-8-3,0-1-2], [4:0-3-13,Edge], [7:0-3-13,Edge], [8:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.96	Vert(LL)	-0.15	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.25	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(TL)	0.09	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 247 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-2 oc bracing.
WEBS 1 Row at midpt 4-13, 5-13, 5-12, 6-12, 7-10

REACTIONS (lb/size) 1=1345/0-4-0, 9=1345/0-4-0
Max Horz 1=331(load case 4)
Max Uplift1=-389(load case 5), 9=-365(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1857/531, 2-3=-2476/817, 3-4=-1633/531, 4-5=-1068/476, 5-6=-1067/471, 6-7=-1068/471, 7-8=-1204/396, 8-9=-1225/398
BOT CHORD 1-16=-604/1315, 15-16=-647/1454, 14-15=-841/1893, 13-14=-535/1269, 12-13=-449/1068, 11-12=-251/822, 10-11=-251/822, 9-10=-83/103
WEBS 2-16=-628/270, 2-15=-287/709, 3-15=-144/576, 3-14=-793/514, 4-14=-335/985, 4-13=-378/302, 5-13=-288/396, 5-12=-170/94, 6-12=-321/301, 7-12=-352/572, 7-10=-128/169, 8-10=-313/794

JOINT STRESS INDEX
1 = 0.80, 2 = 0.45, 3 = 0.45, 4 = 0.87, 5 = 0.45, 6 = 0.34, 7 = 0.70, 8 = 0.72, 9 = 0.49, 10 = 0.46, 11 = 0.29, 12 = 0.63, 13 = 0.45, 14 = 0.75, 15 = 0.80 and 16 = 0.36

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint 1 and 365 lb uplift at joint 9.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061040

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T06	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:53:11 2006 Page 1

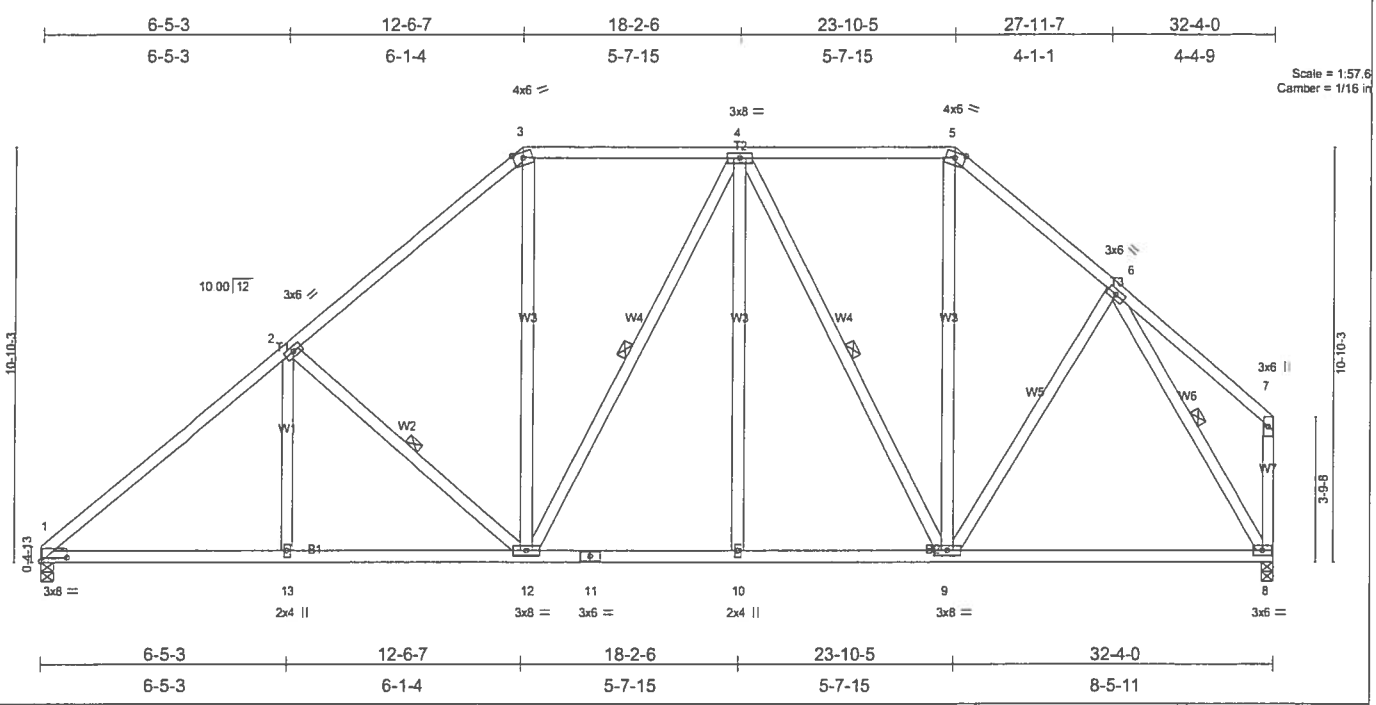


Plate Offsets (X,Y): [1:0-8-3,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.11	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.19	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.05	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 234 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 4-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.
WEBS 1 Row at midpt 2-12, 4-12, 4-9, 6-8

REACTIONS (lb/size) 1=1345/0-4-0, 8=1345/0-4-0
Max Horz 1=352(load case 4)
Max Uplift1=-393(load case 5), 8=-370(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1827/519, 2-3=-1397/506, 3-4=-994/484, 4-5=-820/408, 5-6=-1123/451, 6-7=-171/120, 7-8=-182/139
BOT CHORD 1-13=-562/1309, 12-13=-562/1309, 11-12=-394/1021, 10-11=-394/1021, 9-10=-394/1021, 8-9=-182/682
WEBS 2-13=0/224, 2-12=-428/355, 3-12=-137/509, 4-12=-185/251, 4-10=0/142, 4-9=-492/313, 5-9=-138/399, 6-9=-182/316, 6-8=-1202/343

JOINT STRESS INDEX
1 = 0.79, 2 = 0.45, 3 = 0.67, 4 = 0.62, 5 = 0.43, 6 = 0.37, 7 = 0.29, 8 = 0.76, 9 = 0.62, 10 = 0.34, 11 = 0.38, 12 = 0.62 and 13 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 393 lb uplift at joint 1 and 370 lb uplift at joint 8.

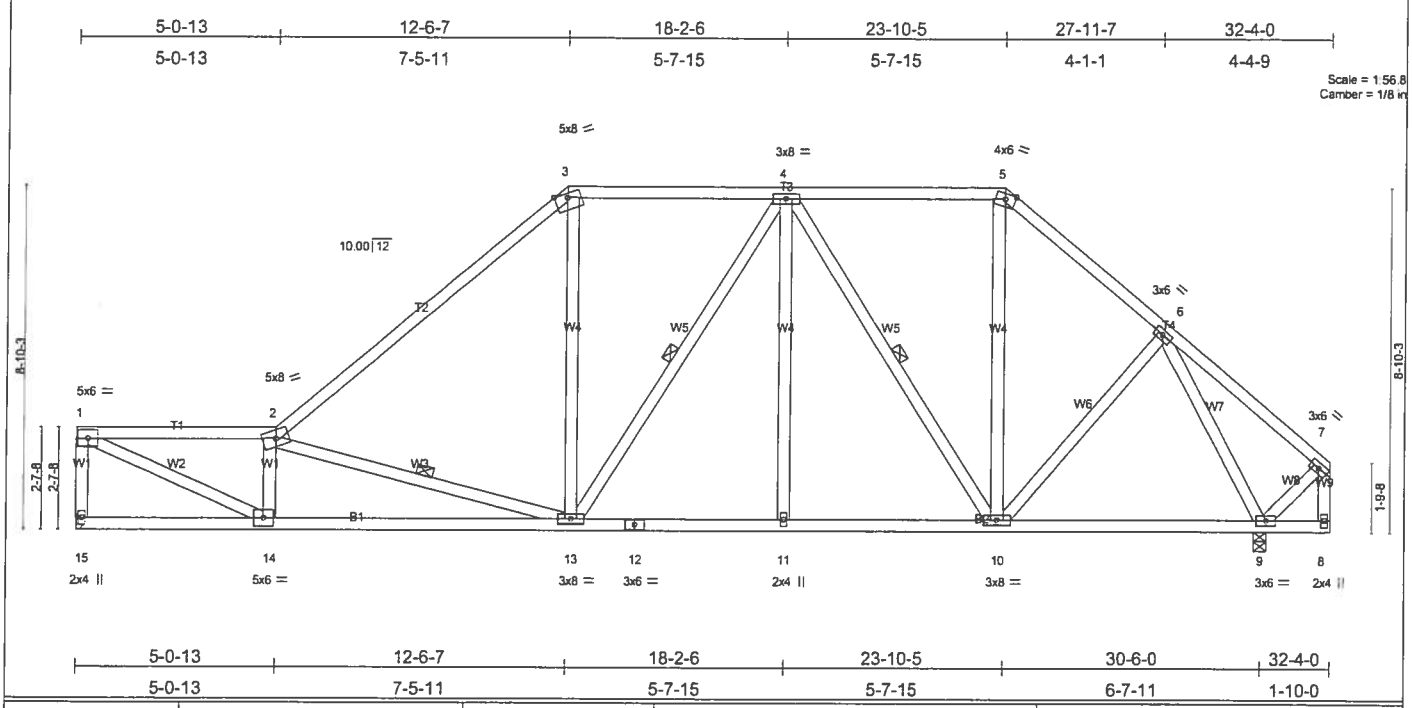
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061041

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T07	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:54:02 2006 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	0.45	Vert(LL)	-0.20	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.33	13-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(TL)	0.06	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 217 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-10 oc bracing.
WEBS 1 Row at midpt 2-13, 4-13, 4-10

REACTIONS (lb/size) 15=1275/Mechanical, 9=1417/0-4-0
Max Horz 15=-240(load case 3)
Max Uplift15=-317(load case 3), 9=-388(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1203/368, 1-2=-2316/688, 2-3=-1596/493, 3-4=-1142/479, 4-5=-811/379, 5-6=-1110/419, 6-7=-60/88, 7-8=-53/0
BOT CHORD 14-15=-221/180, 13-14=-808/2373, 12-13=-425/1108, 11-12=-425/1108, 10-11=-425/1108, 9-10=-137/582, 8-9=-67/49
WEBS 1-14=-757/2504, 2-14=-921/385, 2-13=-1297/481, 3-13=-180/552, 4-13=-96/212, 4-11=0/138, 4-10=-590/308, 5-10=-106/401, 6-10=-187/378, 6-9=-1300/389, 7-9=-86/168

JOINT STRESS INDEX
1 = 0.81, 2 = 0.78, 3 = 0.77, 4 = 0.59, 5 = 0.44, 6 = 0.47, 7 = 0.74, 8 = 0.34, 9 = 0.48, 10 = 0.59, 11 = 0.34, 12 = 0.41, 13 = 0.59, 14 = 0.81 and 15 = 0.81

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 15 and 388 lb uplift at joint 9.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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

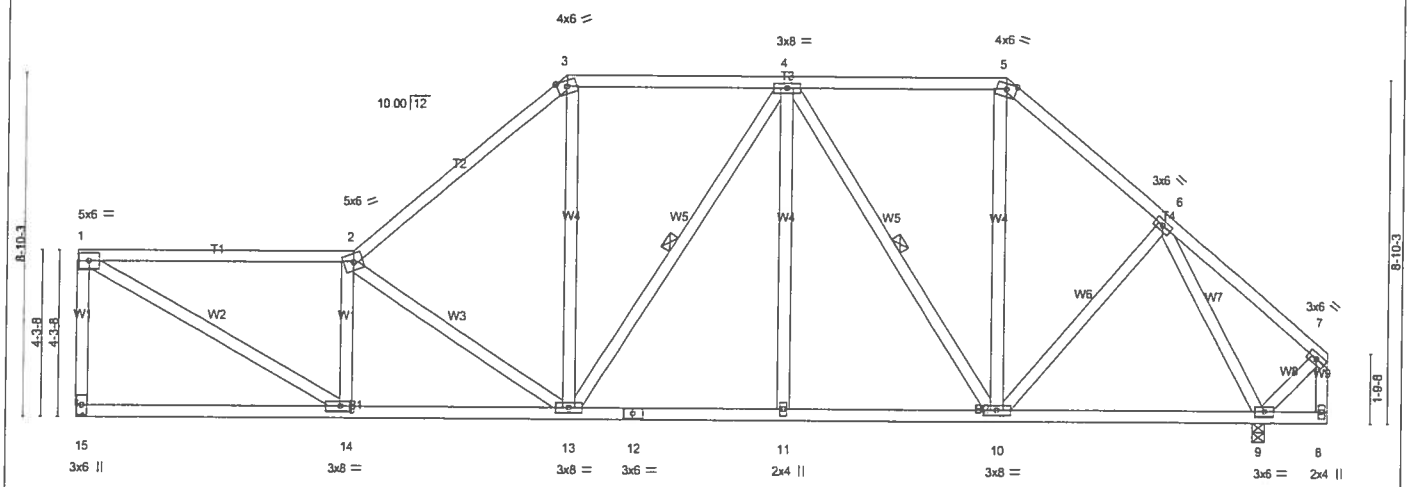
Dwg.#0915061042

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T08	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:54:21 2006 Page 1

7-0-13	12-6-7	18-2-6	23-10-5	27-11-7	32-4-0
7-0-13	5-5-11	5-7-15	5-7-15	4-1-1	4-4-9

Scale = 1:56.8
Camber = 1/16 in



7-0-13	12-6-7	18-2-6	23-10-5	30-6-0	32-4-0
7-0-13	5-5-11	5-7-15	5-7-15	6-7-11	1-10-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.94	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	-0.17	13-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 223 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 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing.
WEBS 1 Row at midpt 4-13, 4-10

REACTIONS (lb/size) 15=1275/Mechanical, 9=1417/0-4-0
Max Horz 15=-233(load case 3)
Max Uplift15=-411(load case 3), 9=-382(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1165/421, 1-2=-1740/518, 2-3=-1543/503, 3-4=-1122/458, 4-5=-809/374, 5-6=-1109/415, 6-7=-60/88, 7-8=-54/0
BOT CHORD 14-15=-181/188, 13-14=-607/1769, 12-13=-419/1114, 11-12=-419/1114, 10-11=-419/1114, 9-10=-135/582, 8-9=-66/48
WEBS 1-14=-577/1930, 2-14=-802/342, 2-13=-807/294, 3-13=-220/627, 4-13=-120/177, 4-11=0/156, 4-10=-603/306, 5-10=-110/409, 6-10=-183/375, 6-9=-1299/384, 7-9=-84/168

JOINT STRESS INDEX
1 = 0.62, 2 = 0.65, 3 = 0.53, 4 = 0.59, 5 = 0.42, 6 = 0.47, 7 = 0.73, 8 = 0.34, 9 = 0.48, 10 = 0.59, 11 = 0.34, 12 = 0.41, 13 = 0.59, 14 = 0.84 and 15 = 0.42

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 15 and 382 lb uplift at joint 9.

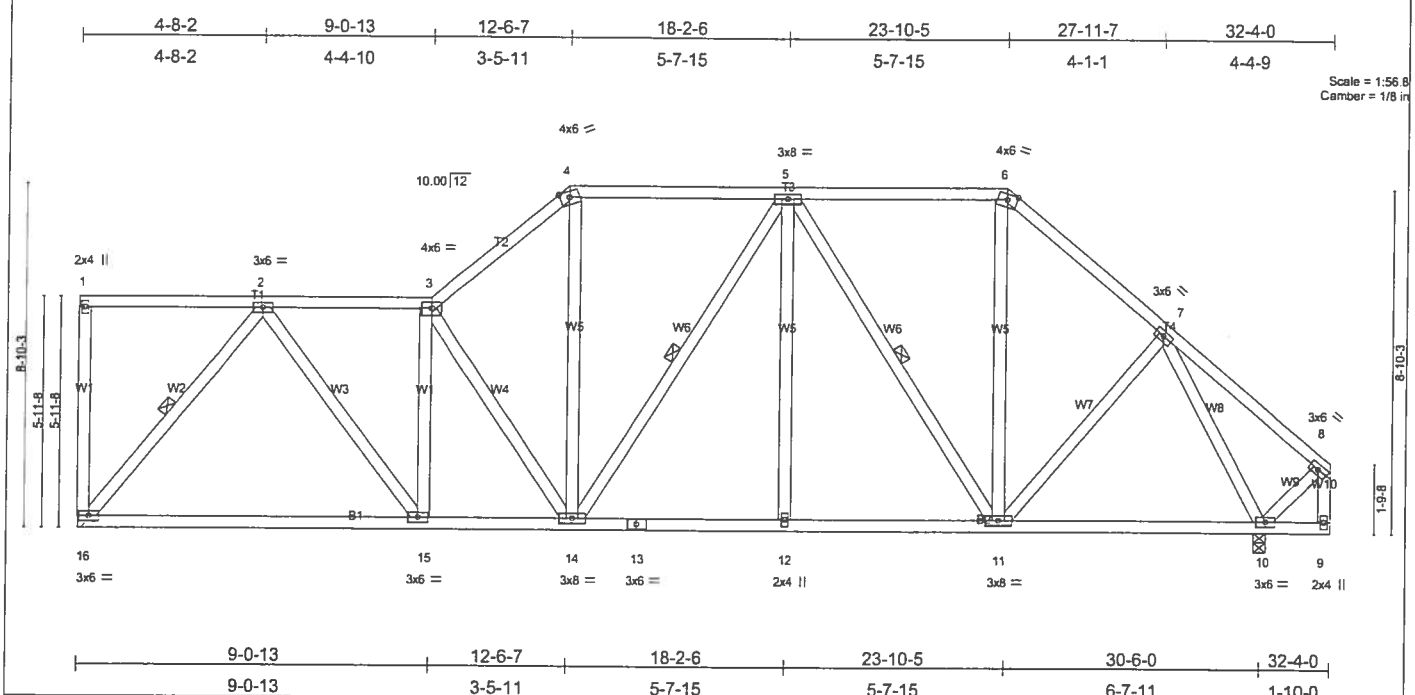
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061043

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T09	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:54:54 2006 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	0.54	Vert(LL)	-0.15	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.26	15-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.05	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 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 5-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-2 oc bracing.
WEBS 1 Row at midpt 2-16, 5-14, 5-11

REACTIONS (lb/size) 16=1275/Mechanical, 10=1417/0-4-0
Max Horz 16=-229(load case 6)
Max Uplift16=-496(load case 3), 10=-384(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-118/85, 1-2=-40/2, 2-3=-1439/488, 3-4=-1479/518, 4-5=-1114/439, 5-6=-809/373, 6-7=-1109/421, 7-8=-60/87, 8-9=-55/0
BOT CHORD 15-16=-345/861, 14-15=-484/1453, 13-14=-408/1116, 12-13=-408/1116, 11-12=-408/1116, 10-11=-145/582, 9-10=-66/47
WEBS 2-16=-1314/556, 2-15=-251/963, 3-15=-549/249, 3-14=-649/203, 4-14=-223/649, 5-14=-131/123, 5-12=0/170, 5-11=-607/298, 6-11=-108/410, 7-11=-179/375, 7-10=-1298/394, 8-10=-83/168

JOINT STRESS INDEX
1 = 0.84, 2 = 0.69, 3 = 0.47, 4 = 0.46, 5 = 0.59, 6 = 0.42, 7 = 0.47, 8 = 0.72, 9 = 0.34, 10 = 0.48, 11 = 0.59, 12 = 0.34, 13 = 0.48, 14 = 0.59, 15 = 0.69 and 16 = 0.69

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 496 lb uplift at joint 16 and 384 lb uplift at joint 10.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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

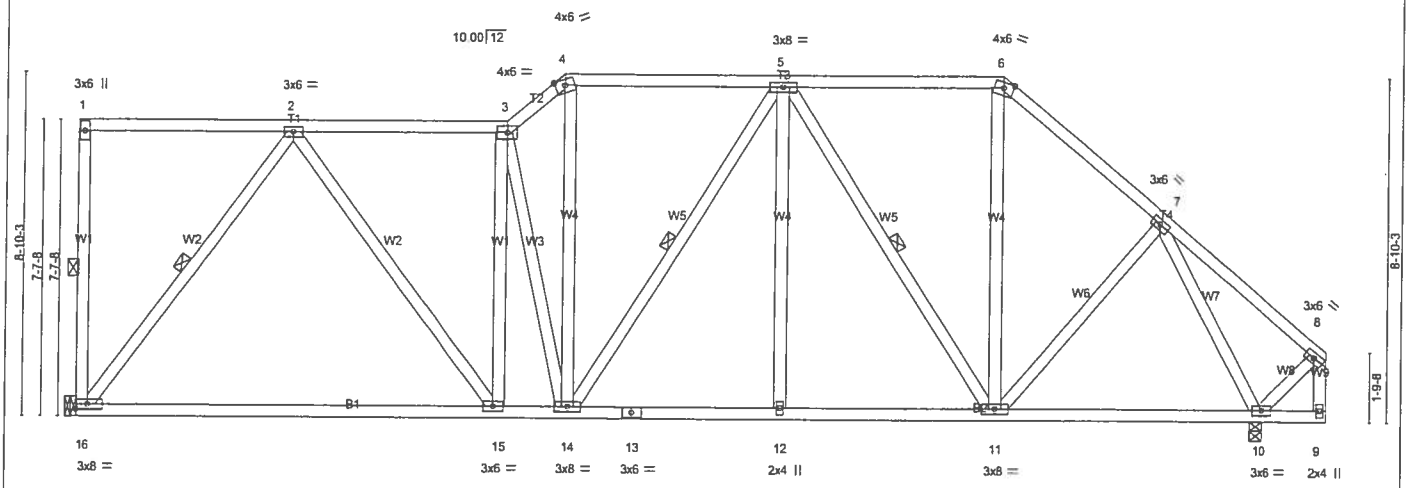
Dwg.#0915061044

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T10	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:56:57 2006 Page 1

5-6-6	11-0-13	12-6-7	18-2-6	23-10-5	27-11-7	32-4-0
5-6-6	5-6-6	1-5-11	5-7-15	5-7-15	4-1-1	4-4-9

Scale = 1:56.8
Camber = 3/16 in



5-6-6	10-9-5	12-6-7	18-2-6	23-10-5	30-6-0	32-4-0
5-6-6	5-2-14	1-9-3	5-7-15	5-7-15	6-7-11	1-10-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	-0.28	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.48	15-16	>754	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.04	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 247 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 4-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.
WEBS 1 Row at midpt 1-16, 2-16, 5-14, 5-11

REACTIONS (lb/size) 16=1275/Mechanical, 10=1417/0-4-0
Max Horz 16=-282(load case 6)
Max Uplift16=-573(load case 3), 10=-424(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-136/101, 1-2=-41/1, 2-3=-1254/522, 3-4=-1418/616, 4-5=-1115/486, 5-6=-809/405, 6-7=-1109/462, 7-8=-61/87, 8-9=-56/0
BOT CHORD 15-16=-282/765, 14-15=-401/1260, 13-14=-392/1115, 12-13=-392/1115, 11-12=-392/1115, 10-11=-165/582, 9-10=-66/47
WEBS 2-16=-1223/620, 2-15=-261/825, 3-15=-324/287, 3-14=-726/195, 4-14=-261/666, 5-14=-124/67, 5-12=0/172, 5-11=-607/285, 6-11=-115/409, 7-11=-174/375, 7-10=-1298/437, 8-10=-83/167

JOINT STRESS INDEX
1 = 0.31, 2 = 0.60, 3 = 0.52, 4 = 0.50, 5 = 0.59, 6 = 0.44, 7 = 0.47, 8 = 0.73, 9 = 0.34, 10 = 0.48, 11 = 0.59, 12 = 0.34, 13 = 0.48, 14 = 0.69, 15 = 0.60 and 16 = 0.62

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 573 lb uplift at joint 16 and 424 lb uplift at joint 10.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061045

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T11	HIP	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 07:59:15 2006 Page 1

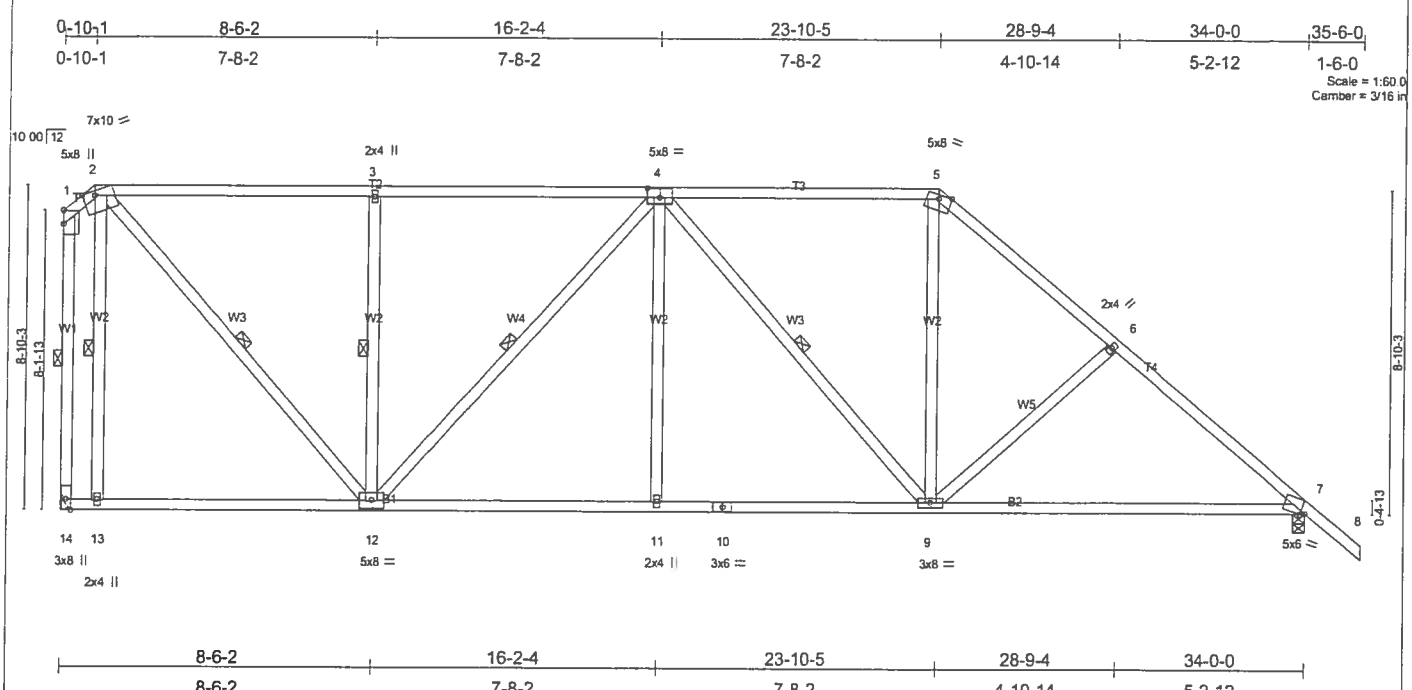


Plate Offsets (X,Y): [2:0-3-13,Edge], [4:0-4-0,0-3-0], [7:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.91	Vert(LL)	-0.27	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.46	7-9	>875	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 229 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 *Except*
W1 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-11 oc bracing.
WEBS 1 Row at midpt 2-12, 3-12, 4-12, 4-9, 1-14, 2-13

REACTIONS (lb/size) 14=1413/Mechanical, 7=1507/0-4-0
Max Horz 14=-451(load case 6)
Max Uplift14=-630(load case 3), 7=-469(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-589/200, 2-3=-1102/518, 3-4=-1102/519, 4-5=-1216/562, 5-6=-1646/647, 6-7=-1835/639, 7-8=0/52, 1-14=-779/243
BOT CHORD 13-14=-76/424, 12-13=-69/429, 11-12=-535/1427, 10-11=-535/1427, 9-10=-535/1427, 7-9=-372/1346
WEBS 2-12=-713/1505, 3-12=-470/380, 4-12=-487/236, 4-11=0/194, 4-9=-406/312, 5-9=-171/661, 6-9=-190/262, 2-13=-539/431

JOINT STRESS INDEX
1 = 0.62, 2 = 0.45, 3 = 0.34, 4 = 0.50, 5 = 0.61, 6 = 0.34, 7 = 0.81, 9 = 0.57, 10 = 0.52, 11 = 0.34, 12 = 0.73, 13 = 0.34 and 14 = 0.95

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 630 lb uplift at joint 14 and 469 lb uplift at joint 7.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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

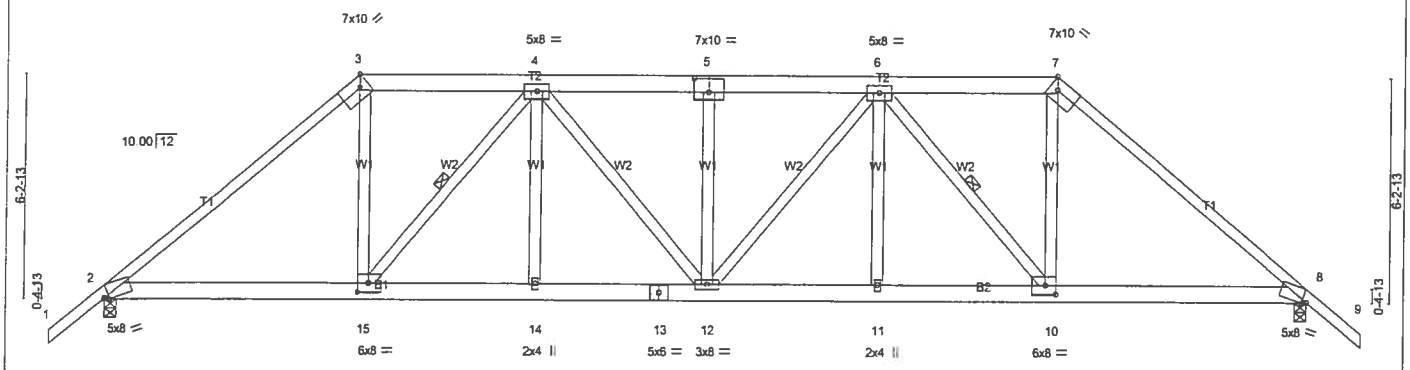
Dwg.#0915061046

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:01:31 2006 Page 1

-1-6-0	3-7-15	7-0-0	11-10-14	16-8-0	21-5-2	26-4-0	29-8-1	33-4-0	34-10-0
1-6-0	3-7-15	3-4-1	4-10-14	4-9-2	4-9-2	4-10-14	3-4-1	3-7-15	1-6-0

Scale = 1:60.8
Camber = 1/8 in



3-7-15	7-0-0	11-10-14	16-8-0	21-5-2	26-4-0	29-8-1	33-4-0
3-7-15	3-4-1	4-10-14	4-9-2	4-9-2	4-10-14	3-4-1	3-7-15

Plate Offsets (X,Y): [2:0-1-8,Edge], [3:0-2-15,Edge], [5:0-5-0,0-4-8], [8:0-1-8,Edge], [10:0-3-8,0-3-0], [15:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.77	Vert(LL)	0.25	12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.33	12-14	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(TL)	0.11	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 238 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T2 2 X 6 SYP No.1D, T2 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-11 oc bracing.
WEBS 1 Row at midpt 4-15, 6-10

REACTIONS (lb/size) 2=2957/0-4-0, 8=2957/0-4-0
Max Horz 2=-208(load case 2)
Max Uplift2=-1853(load case 3), 8=-1853(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/55, 2-3=-4160/2779, 3-4=-3143/2232, 4-5=-4572/3197, 5-6=-4572/3197, 6-7=-3143/2232, 7-8=-4160/2779, 8-9=0/55
BOT CHORD 2-15=-2199/3088, 14-15=-2992/4206, 13-14=-2992/4206, 12-13=-2992/4206, 11-12=-2934/4206, 10-11=-2934/4206, 8-10=-2013/3088
WEBS 3-15=-1476/2176, 4-15=-1762/1389, 4-14=0/297, 4-12=-418/595, 5-12=-563/643, 6-12=-419/595, 6-11=0/297, 6-10=-1762/1389, 7-10=-1476/2176

JOINT STRESS INDEX
2 = 0.81, 3 = 0.87, 4 = 0.53, 5 = 0.59, 6 = 0.53, 7 = 0.87, 8 = 0.81, 10 = 0.60, 11 = 0.34, 12 = 0.60, 13 = 0.87, 14 = 0.34 and 15 = 0.60

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1853 lb uplift at joint 2 and 1853 lb uplift at joint 8.
6) Girder carries hip end with 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 497 lb up at 26-4-0, and 539 lb down and 497 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: 1-3=-54, 3-7=-117(F=-63), 7-9=-54, 2-15=-30, 10-15=-65(F=-35), 8-10=-30
Concentrated Loads (lb)
Vert: 15=-539(F) 10=-539(F)

SEPTEMBER 15, 2006 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

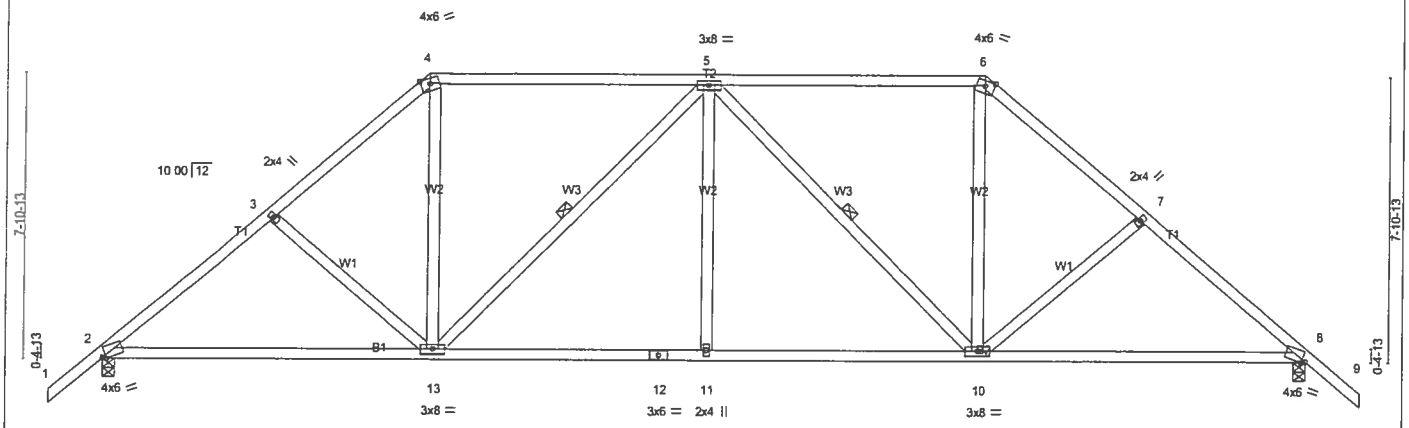
Dwg.#0915061047

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T13	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:01:42 2006 Page 1

-1-6-0 | 4-7-15 | 9-0-0 | 16-8-0 | 24-4-0 | 28-8-1 | 33-4-0 | 34-10-0
1-6-0 | 4-7-15 | 4-4-1 | 7-8-0 | 7-8-0 | 4-4-1 | 4-7-15 | 1-6-0

Scale = 1:60.9
Camber = 1/8 in



9-0-0 | 16-8-0 | 24-4-0 | 33-4-0
9-0-0 | 7-8-0 | 7-8-0 | 9-0-0

Plate Offsets (X,Y): [2:0-1-3,Edge], [8:0-1-3,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	0.40	Vert(LL)	-0.17	2-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.29	2-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.08	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 194 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 4-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS (lb/size) 2=1476/0-4-0, 8=1476/0-4-0
Max Horz 2=-270(load case 3)
Max Uplift2=-483(load case 5), 8=-483(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-1816/548, 3-4=-1652/553, 4-5=-1231/487, 5-6=-1231/487, 6-7=-1652/553, 7-8=-1816/548, 8-9=0/52
BOT CHORD 2-13=-581/1330, 12-13=-591/1546, 11-12=-591/1546, 10-11=-591/1546, 8-10=-311/1330
WEBS 3-13=-149/221, 4-13=-143/682, 5-13=-519/345, 5-11=0/200, 5-10=-519/344, 6-10=-143/682, 7-10=-149/222

JOINT STRESS INDEX
2 = 0.83, 3 = 0.34, 4 = 0.70, 5 = 0.57, 6 = 0.70, 7 = 0.34, 8 = 0.83, 10 = 0.57, 11 = 0.34, 12 = 0.51 and 13 = 0.57

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 483 lb uplift at joint 2 and 483 lb uplift at joint 8.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061048

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T14	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:02:14 2006 Page 1

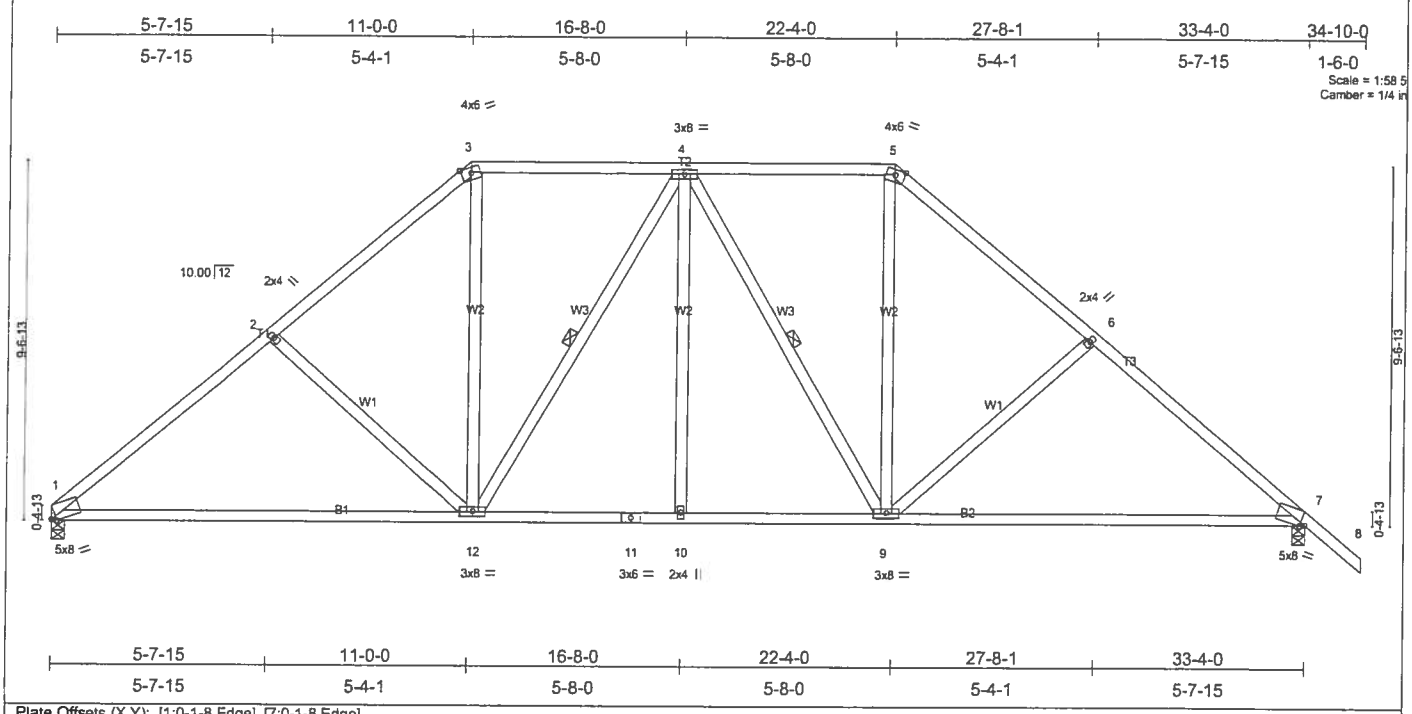


Plate Offsets (X,Y): [1:0-1-8,Edge], [7:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.37	1-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.63	1-12	>627	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 204 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.
WEBS 1 Row at midpt 4-12, 4-9

REACTIONS (lb/size) 1=1384/0-4-0, 7=1478/0-4-0
Max Horz 1=-349(load case 3)
Max Uplift1=-399(load case 5), 7=-498(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1781/540, 2-3=-1570/534, 3-4=-1137/489, 4-5=-1134/480, 5-6=-1564/523, 6-7=-1774/524, 7-8=0/52
BOT CHORD 1-12=-543/1314, 11-12=-418/1241, 10-11=-418/1241, 9-10=-418/1241, 7-9=-245/1303
WEBS 2-12=-254/311, 3-12=-167/662, 4-12=-303/287, 4-10=0/53, 4-9=-306/289, 5-9=-164/655, 6-9=-244/295

JOINT STRESS INDEX
1 = 0.69, 2 = 0.34, 3 = 0.55, 4 = 0.60, 5 = 0.55, 6 = 0.34, 7 = 0.69, 9 = 0.60, 10 = 0.34, 11 = 0.50 and 12 = 0.60

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 1 and 498 lb uplift at joint 7.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061049

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T15	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:03:39 2006 Page 1

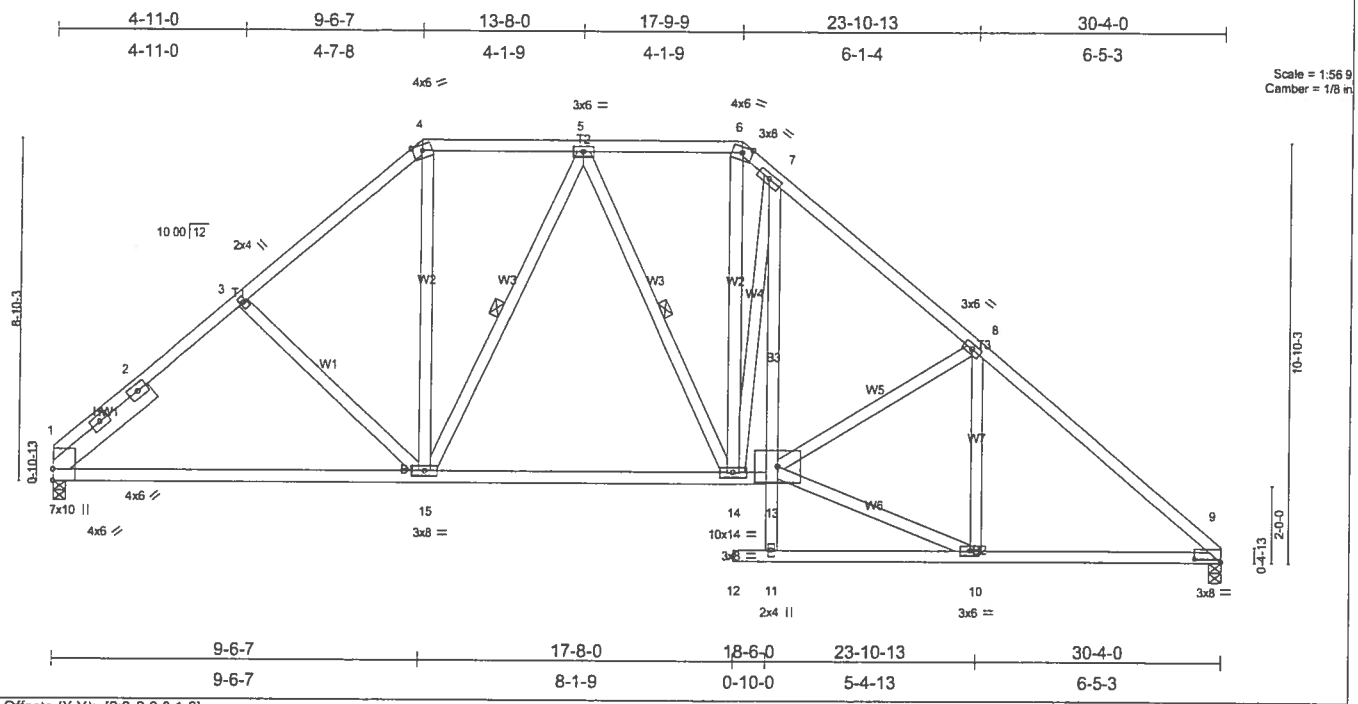


Plate Offsets (X,Y): [9:0-8-3,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.15	1-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.25	1-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.08	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 221 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 6 SYP No.1D 3-3-4

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-0 oc bracing.
WEBS 1 Row at midpt 5-15, 5-14
JOINTS 1 Brace at Jt(s): 13

REACTIONS (lb/size) 1=1267/0-4-0, 9=1267/0-4-0
Max Horz 1=-358(load case 3)
Max Uplift1=-360(load case 5), 9=-391(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1567/450, 2-3=-1481/469, 3-4=-1378/472, 4-5=-1011/438, 5-6=-1118/473, 6-7=-1363/588, 7-8=-1641/532, 8-9=-1706/515
BOT CHORD 1-15=-448/1101, 14-15=-336/1104, 13-14=-247/1127, 11-13=0/71, 7-13=-187/508, 11-12=0/0, 10-11=-5/83, 9-10=-258/1217
WEBS 3-15=-151/252, 4-15=-157/560, 5-15=-306/260, 5-14=-91/210, 10-13=-274/1230, 8-13=-156/265, 8-10=-264/117, 6-14=-296/620, 7-14=-448/330

JOINT STRESS INDEX
1 = 0.54, 1 = 0.29, 1 = 0.29, 2 = 0.00, 3 = 0.34, 4 = 0.46, 5 = 0.47, 6 = 0.48, 7 = 0.71, 8 = 0.45, 9 = 0.85, 10 = 0.70, 11 = 0.75, 13 = 0.78, 14 = 0.72 and 15 = 0.63

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 1 and 391 lb uplift at joint 9.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061050

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T16	HIP	3	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:03:50 2006 Page 1

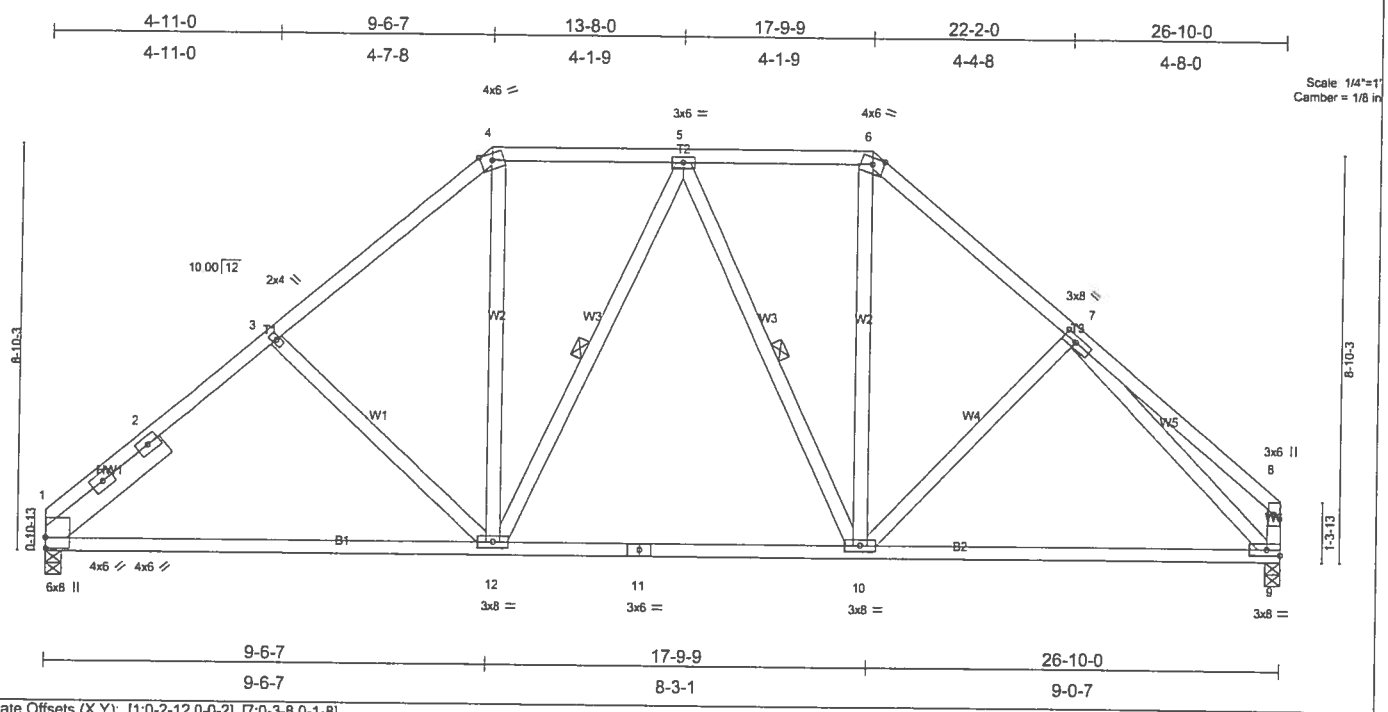


Plate Offsets (X,Y): [1:0-2-12,0-0-2], [7:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.14	1-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.24	1-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 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
SLIDER Left 2 X 6 SYP No.1D 3-3-4

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10

REACTIONS (lb/size) 1=1121/0-4-0, 9=1121/0-4-0
Max Horz 1=292(load case 4)
Max Uplift1=-326(load case 5), 9=-322(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1358/402, 2-3=-1203/421, 3-4=-1166/418, 4-5=-844/399, 5-6=-815/388, 6-7=-1127/413, 7-8=-460/183, 8-9=-370/187
BOT CHORD 1-12=-427/951, 11-12=-310/873, 10-11=-310/873, 9-10=-212/854
WEBS 3-12=-165/255, 4-12=-119/433, 5-12=-163/227, 5-10=-218/235, 6-10=-125/423, 7-10=-101/226, 7-9=-831/260

JOINT STRESS INDEX
1 = 0.85, 1 = 0.25, 1 = 0.25, 2 = 0.00, 3 = 0.34, 4 = 0.45, 5 = 0.47, 6 = 0.40, 7 = 0.35, 8 = 0.37, 9 = 0.72, 10 = 0.63, 11 = 0.39 and 12 = 0.63

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 326 lb uplift at joint 1 and 322 lb uplift at joint 9.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061051

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T17	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:03:59 2006 Page 1

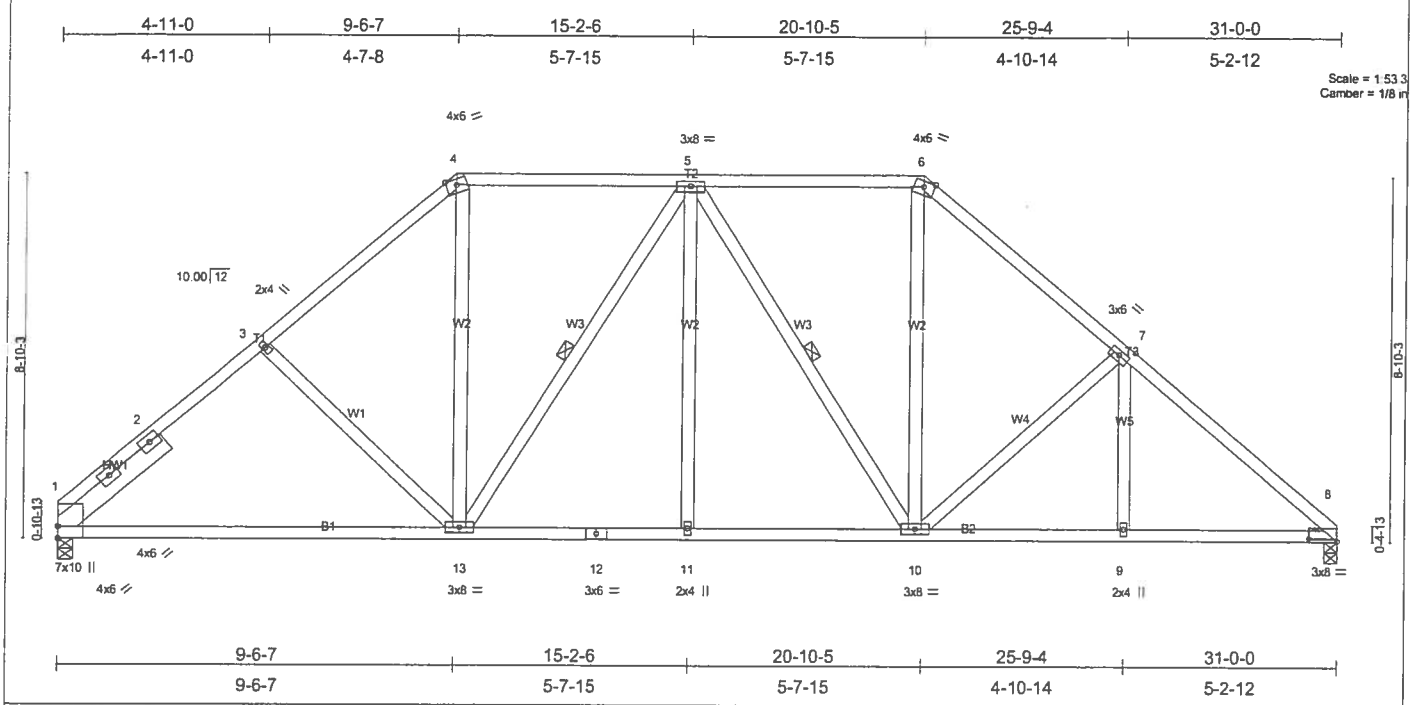


Plate Offsets (X,Y) [8:0-8-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.16	1-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.27	1-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.06	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 200 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
SLIDER Left 2 X 6 SYP No.1D 3-3-4

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS (lb/size) 1=1295/0-4-0, 8=1295/0-4-0
Max Horz 1=296(load case 4)
Max Uplift1=-369(load case 5), 8=-373(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1603/470, 2-3=-1517/489, 3-4=-1415/494, 4-5=-1042/449, 5-6=-1053/458, 6-7=-1443/508, 7-8=-1781/502
BOT CHORD 1-13=-508/1128, 12-13=-431/1188, 11-12=-431/1188, 10-11=-431/1188, 9-10=-292/1281, 8-9=-292/1281
WEBS 3-13=-140/249, 4-13=-145/558, 5-13=-353/276, 5-11=0/139, 5-10=-338/263, 6-10=-159/584, 7-10=-320/281, 7-9=0/173

JOINT STRESS INDEX
1 = 0.56, 1 = 0.29, 1 = 0.29, 2 = 0.00, 3 = 0.34, 4 = 0.51, 5 = 0.59, 6 = 0.48, 7 = 0.45, 8 = 0.90, 9 = 0.34, 10 = 0.59, 11 = 0.34, 12 = 0.42 and 13 = 0.59

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 1 and 373 lb uplift at joint 8.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061052

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T18	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:04:50 2006 Page 1

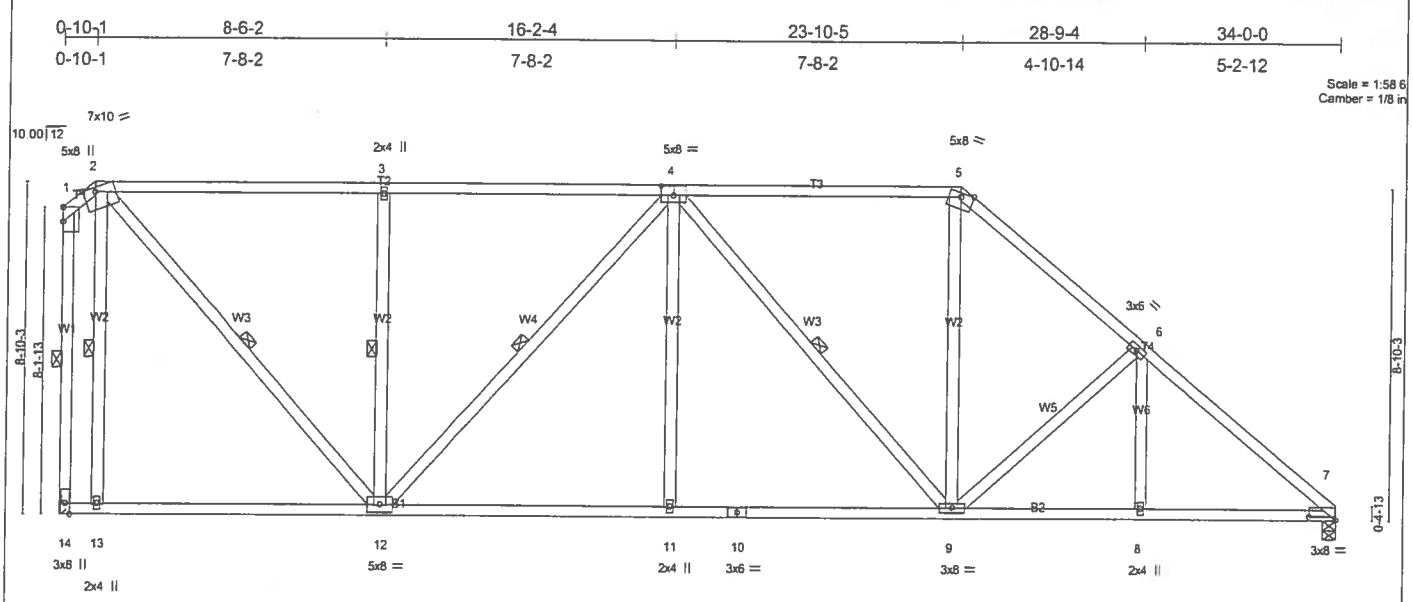


Plate Offsets (X,Y): [2:0-3-13,Edge], [4:0-4-0,0-3-0], [7:0-8-3,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	-0.22	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.36	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 232 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-5 oc bracing.
WEBS 1 Row at midpt 2-12, 3-12, 4-12, 4-9, 1-14, 2-13

REACTIONS (lb/size) 7=1415/0-4-0, 14=1415/Mechanical
Max Horz 14=-374(load case 6)
Max Uplift7=-438(load case 3), 14=-631(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-592/201, 2-3=-1103/520, 3-4=-1103/520, 4-5=-1207/567, 5-6=-1631/654, 6-7=-1957/638, 1-14=-783/243
BOT CHORD 13-14=-97/348, 12-13=-90/352, 11-12=-556/1435, 10-11=-556/1435, 9-10=-556/1435, 8-9=-403/1411, 7-8=-403/1411
WEBS 2-12=-715/1506, 3-12=-470/380, 4-12=-497/237, 4-11=0/221, 4-9=-432/305, 5-9=-177/644, 6-9=-287/277, 6-8=0/162, 2-13=-535/432

JOINT STRESS INDEX
1 = 0.62, 2 = 0.45, 3 = 0.34, 4 = 0.50, 5 = 0.63, 6 = 0.45, 7 = 0.85, 8 = 0.34, 9 = 0.57, 10 = 0.53, 11 = 0.34, 12 = 0.73, 13 = 0.34 and 14 = 0.95

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 Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 438 lb uplift at joint 7 and 631 lb uplift at joint 14.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061053

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T19	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:08:16 2006 Page 1

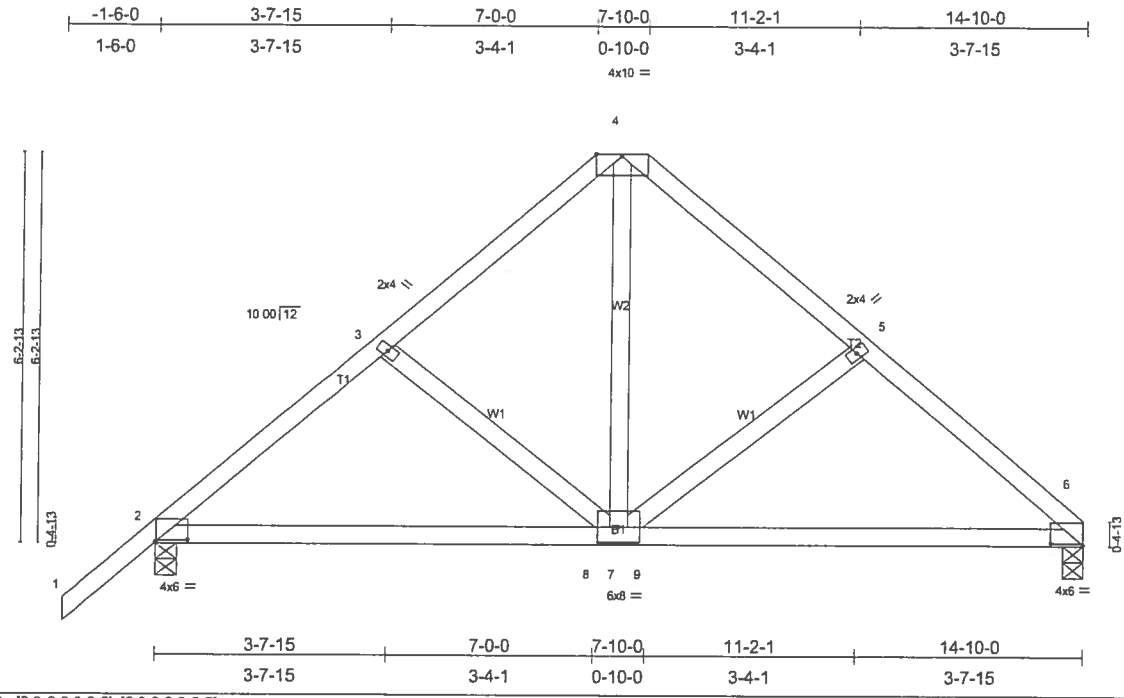


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [6:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.14	6-7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.64	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 76 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 4-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-12 oc bracing.

REACTIONS (lb/size) 6=1157/0-4-0, 2=1258/0-4-0
Max Horz 2=244(load case 3)
Max Uplift6=-602(load case 5), 2=-707(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-1525/860, 3-4=-1394/864, 4-5=-1396/855, 5-6=-1530/856
BOT CHORD 2-8=-628/1111, 7-8=-628/1111, 7-9=-582/1123, 6-9=-582/1123
WEBS 4-7=-951/1486, 3-7=-126/154, 5-7=-142/179

JOINT STRESS INDEX
2 = 0.69, 3 = 0.12, 4 = 0.53, 5 = 0.12, 6 = 0.70 and 7 = 0.37

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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 602 lb uplift at joint 6 and 707 lb uplift at joint 2.
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 422 lb up at 7-10-0, and 539 lb down and 422 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: 1-4=-54, 4-6=-54, 2-8=-30, 8-9=-65(F=-35), 6-9=-30
Concentrated Loads (lb)
Vert: 8=-539(F) 9=-539(F)

SEPTEMBER 15, 2006 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.#0915061054

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T20	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:08:32 2006 Page 1

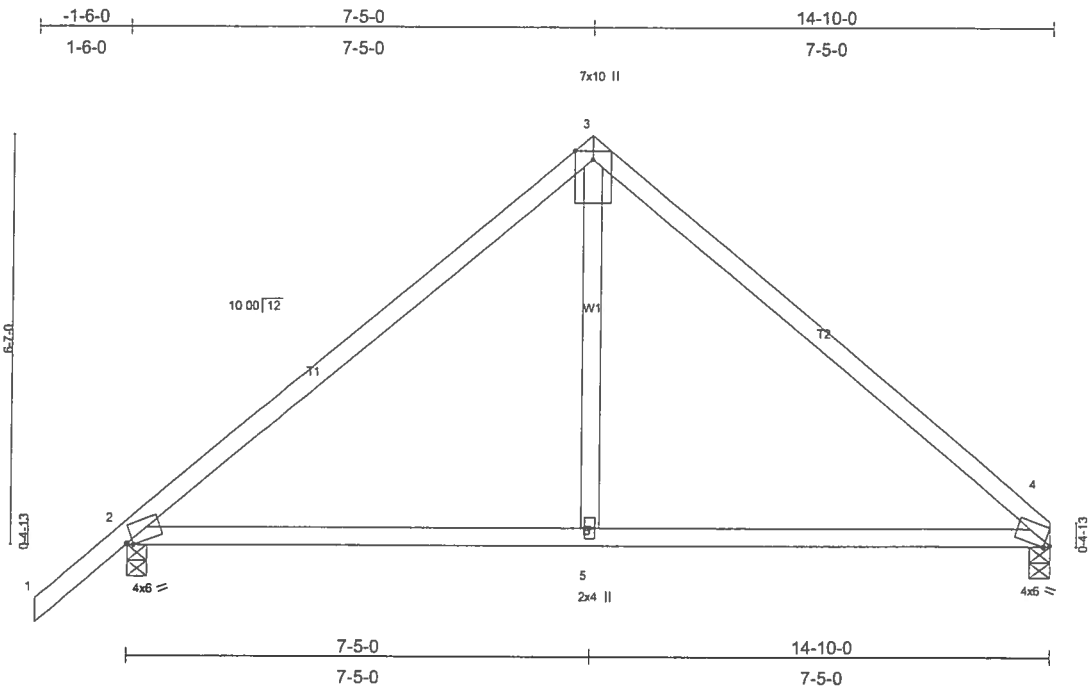


Plate Offsets (X,Y): [2:0-1-3,Edge], [4:0-1-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.12	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.18	4-5	>952	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	4	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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=604/0-4-0, 2=704/0-4-0
Max Horz 2=244(load case 4)
Max Uplift4=-183(load case 6), 2=-288(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-680/238, 3-4=-677/224
BOT CHORD 2-5=-68/432, 4-5=-68/432
WEBS 3-5=-7/293

JOINT STRESS INDEX
2 = 0.76, 3 = 0.92, 4 = 0.76 and 5 = 0.21

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 4 and 288 lb uplift at joint 2.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061055

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T21	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:08:44 2006 Page 1

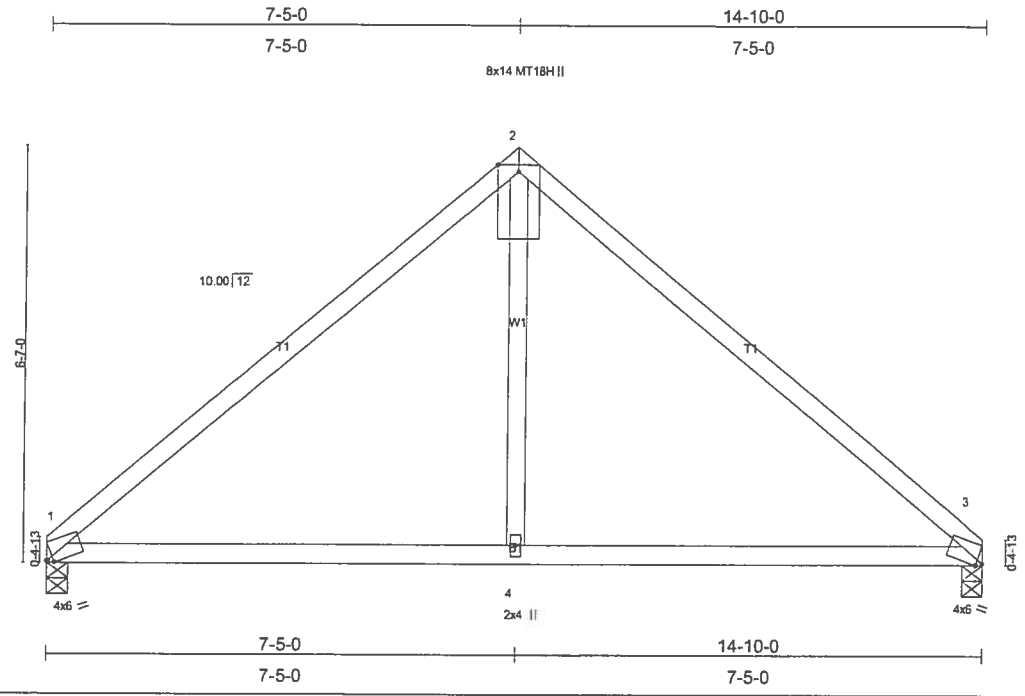


Plate Offsets (X,Y): [1:0-1-3,Edge], [3:0-1-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.12	1-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.18	1-4	>965	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 60 lb	

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

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

REACTIONS (lb/size) 1=609/0-4-0, 3=609/0-4-0
Max Horz 1=-217(load case 3)
Max Uplift1=-186(load case 5), 3=-186(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-688/242, 2-3=-688/242
BOT CHORD 1-4=-82/441, 3-4=-82/441
WEBS 2-4=-11/302

JOINT STRESS INDEX
1 = 0.76, 2 = 0.71, 3 = 0.76 and 4 = 0.22

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 Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 1 and 186 lb uplift at joint 3.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061056

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T22	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:15:59 2006 Page 1

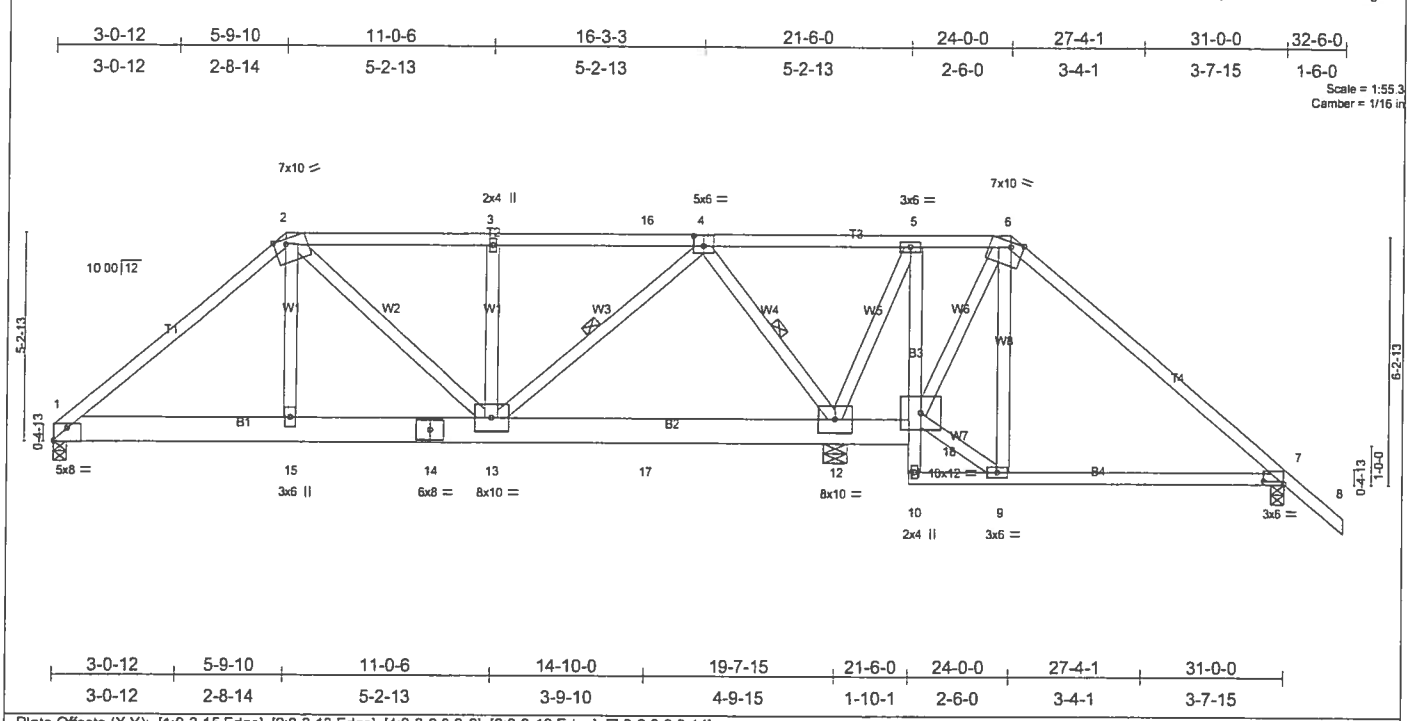


Plate Offsets (X,Y): [1:0-3-15,Edge], [2:0-3-13,Edge], [4:0-3-0,0-3-0], [6:0-3-13,Edge], [7:0-6-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	0.18	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.22	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 211 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E *Except*
B3 2 X 4 SYP No.1D, B4 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 4-12

REACTIONS (lb/size) 1=1627/0-4-0, 7=156/0-4-0, 12=3455/0-7-3
Max Horz 1=230(load case 3)
Max Uplift1=-1044(load case 3), 7=-155(load case 5), 12=-2553(load case 3)
Max Grav 1=1630(load case 8), 7=180(load case 3), 12=3455(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2254/1538, 2-3=-2180/1686, 3-16=-2179/1687, 4-16=-2179/1687, 4-5=-495/643, 5-6=-547/692, 6-7=-380/420, 7-8=0/52
BOT CHORD 1-15=-1333/1657, 14-15=-1338/1671, 13-14=-1338/1671, 13-17=-601/637, 12-17=-601/637, 11-12=-865/780, 10-18=-54/51, 11-18=-54/51, 5-11=-342/346, 9-10=-31/63, 7-9=-288/325
WEBS 2-15=-175/461, 2-13=-732/763, 3-13=-632/803, 4-13=-1580/2090, 9-11=-302/310, 6-11=-1006/856, 6-9=-364/400, 4-12=-2196/1758, 5-12=-308/156

JOINT STRESS INDEX
1 = 0.64, 2 = 0.74, 3 = 0.46, 4 = 0.87, 5 = 0.48, 6 = 0.68, 7 = 0.62, 9 = 0.35, 10 = 0.40, 11 = 0.38, 12 = 0.39, 13 = 0.45, 14 = 0.50 and 15 = 0.16

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; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1044 lb uplift at joint 1, 155 lb uplift at joint 7 and 2553 lb uplift at joint 12.
6) Girder carries hip end with 16-2-0 right side setback, 5-9-10 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) 1245 lb down and 1149 lb up at 14-10-0, and 447 lb down and 412 lb up at 5-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-16=-117(F=-63), 6-16=-54, 6-8=-54, 1-15=-30, 15-17=-65(F=-35), 11-17=-30, 7-10=-30
Concentrated Loads (lb)
Vert: 15=-447(F) 17=-1245(F)

SEPTEMBER 15, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0915061057

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T23	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:16:24 2006 Page 1

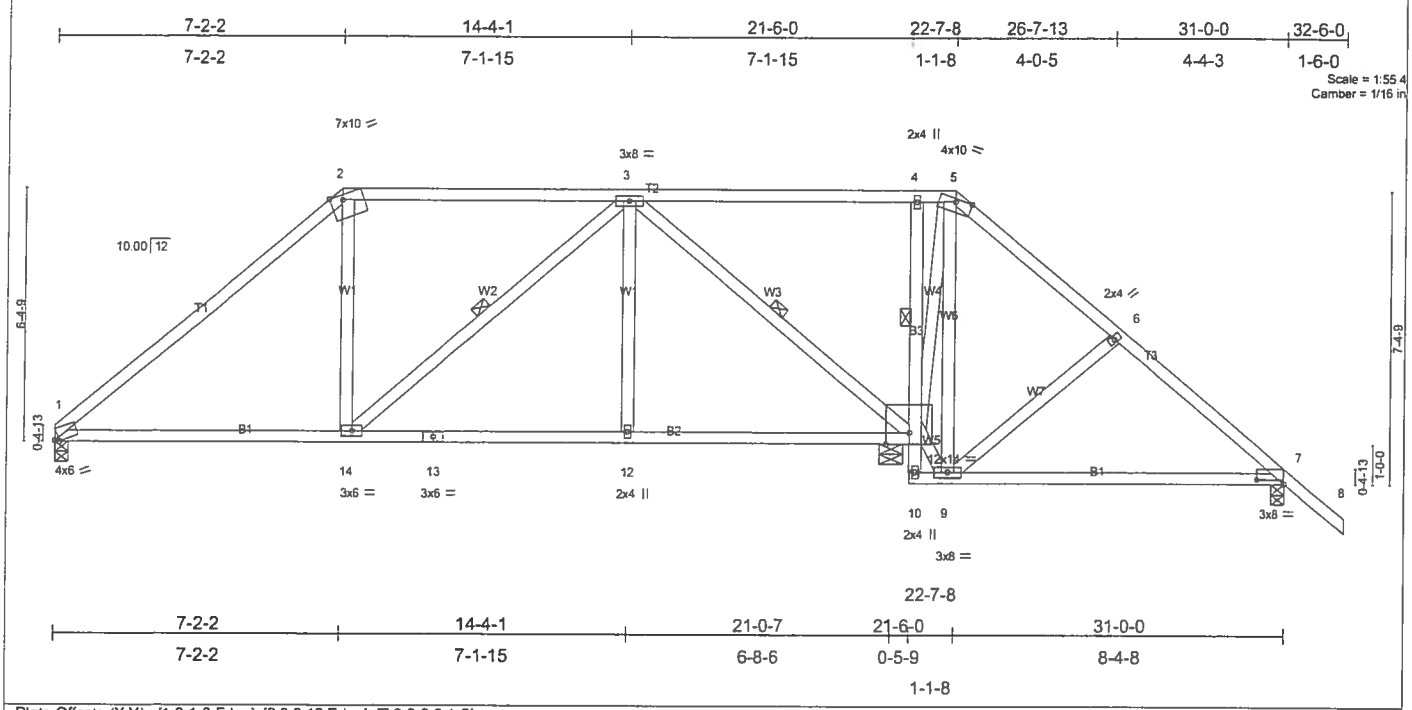


Plate Offsets (X,Y): [1:0-1-3,Edge], [2:0-3-13,Edge], [7:0-8-3,0-1-6]

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)	-0.11	1-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.18	1-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 185 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 4-11
WEBS 1 Row at midpt 3-14, 3-11

REACTIONS (lb/size) 1=846/0-4-0, 7=353/0-4-0, 11=1466/0-7-3
Max Horz 1=-269(load case 3)
Max Uplift1=-262(load case 5), 7=-302(load case 6), 11=-489(load case 4)
Max Grav 1=847(load case 9), 7=366(load case 10), 11=1466(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1040/339, 2-3=-713/357, 3-4=-81/214, 4-5=-94/213, 5-6=-138/219, 6-7=-167/232, 7-8=0/52
BOT CHORD 1-14=-337/707, 13-14=-299/639, 12-13=-299/639, 11-12=-299/639, 10-11=-279/0, 4-11=-424/353, 9-10=-209/0, 7-9=-38/140
WEBS 2-14=-69/244, 3-14=-89/197, 3-12=0/205, 3-11=-1005/489, 9-11=0/269, 5-11=-438/192, 5-9=-237/402, 6-9=-211/216

JOINT STRESS INDEX
1 = 0.74, 2 = 0.80, 3 = 0.57, 4 = 0.44, 5 = 0.89, 6 = 0.34, 7 = 0.77, 9 = 0.61, 10 = 0.73, 11 = 0.27, 12 = 0.34, 13 = 0.25 and 14 = 0.36

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 1, 302 lb uplift at joint 7 and 489 lb uplift at joint 11.

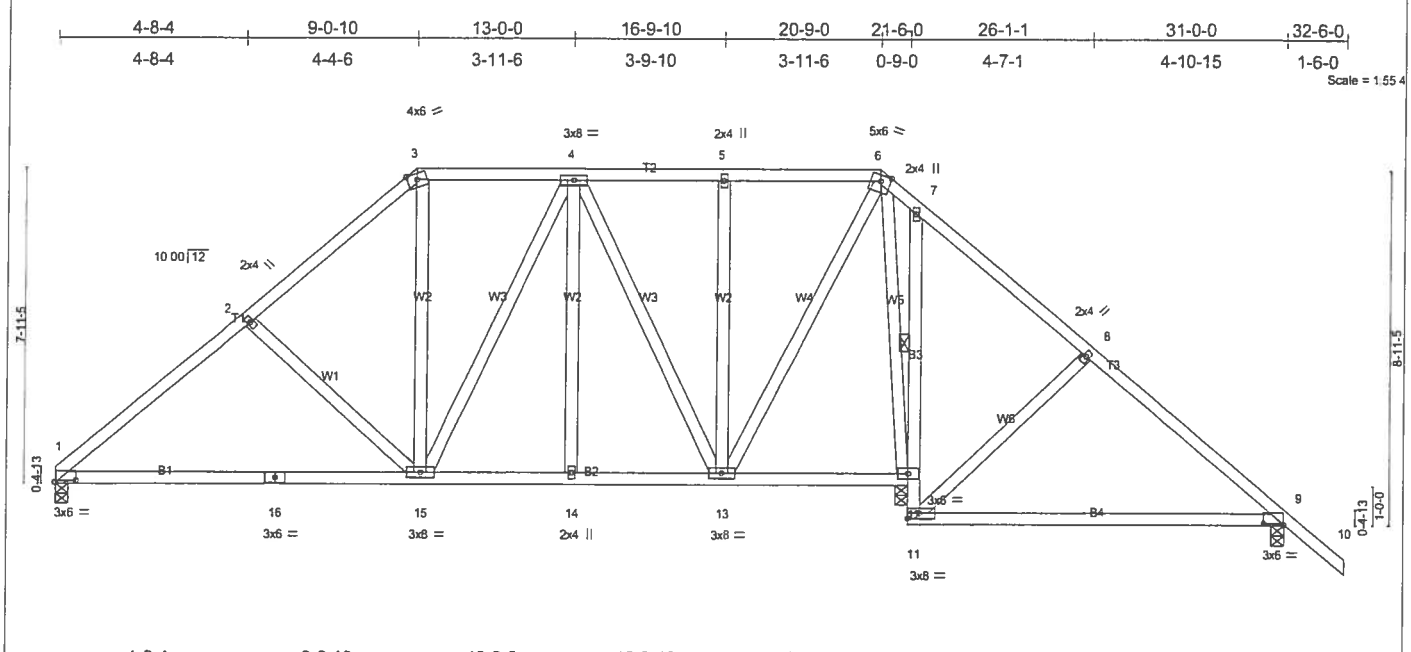
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061058

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T24	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industnes, Inc. Thu Sep 14 08:17:54 2006 Page 1



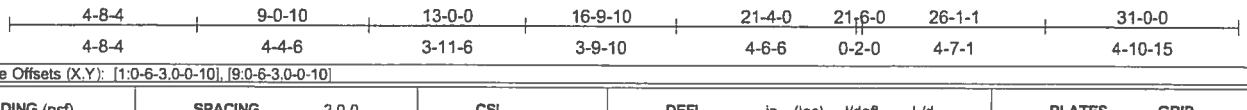


Plate Offsets (X,Y): [1:0-6-3,0-0-10], [9:0-6-3,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.08	1-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.14	1-15	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 426 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
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. Except:
1 Row at midpt 7-12

REACTIONS (lb/size) 1=926/0-4-0, 9=540/0-4-0, 12=1200/0-4-0
Max Horz 1=-322(load case 2)
Max Uplift1=-288(load case 4), 9=-348(load case 5), 12=-319(load case 3)
Max Grav 1=932(load case 8), 9=547(load case 9), 12=1200(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1145/380, 2-3=-972/370, 3-4=-687/353, 4-5=-522/337, 5-6=-522/337, 6-7=-178/408, 7-8=-227/292, 8-9=-403/294, 9-10=0/52
BOT CHORD 1-16=-403/836, 15-16=-403/836, 14-15=-283/666, 13-14=-283/666, 12-13=-26/189, 11-12=-139/301, 7-12=-169/186, 9-11=-36/271
WEBS 2-15=-210/256, 3-15=-119/356, 4-15=-49/215, 4-14=0/49, 4-13=-330/194, 5-13=-220/188, 6-13=-372/731, 6-12=-654/458, 8-11=-225/249

JOINT STRESS INDEX
1 = 0.68, 2 = 0.34, 3 = 0.25, 4 = 0.63, 5 = 0.34, 6 = 0.39, 7 = 0.34, 8 = 0.34, 9 = 0.70, 11 = 0.68, 12 = 0.77, 13 = 0.63, 14 = 0.34, 15 = 0.63 and 16 = 0.29

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 1, 348 lb uplift at joint 9 and 319 lb uplift at joint 12.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061059

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T25	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:43:05 2006 Page 1

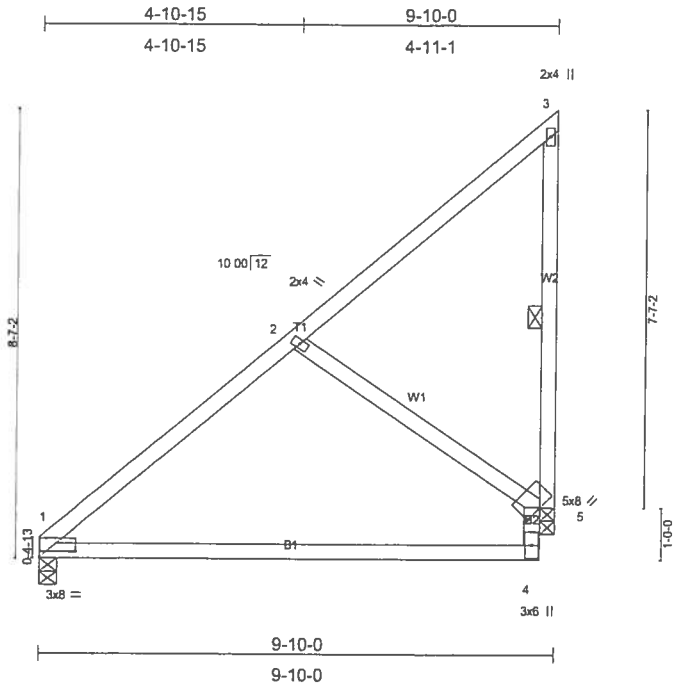


Plate Offsets (X,Y): [1:0-8-3,0-1-6], [5:0-4-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.15	1-4	>748	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.27	1-4	>421	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	-0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 54 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS (lb/size) 1=394/0-4-0, 5=397/0-3-8
Max Horz 1=375(load case 5)
Max Uplift5=-318(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-333/0, 2-3=-138/55, 3-5=-98/158
BOT CHORD 1-4=-230/230, 4-5=-35/187
WEBS 2-5=-265/293

JOINT STRESS INDEX
1 = 0.71, 2 = 0.16, 3 = 0.48, 4 = 0.79 and 5 = 0.84

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 Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 5.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061060

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T26	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:43:56 2006 Page 1

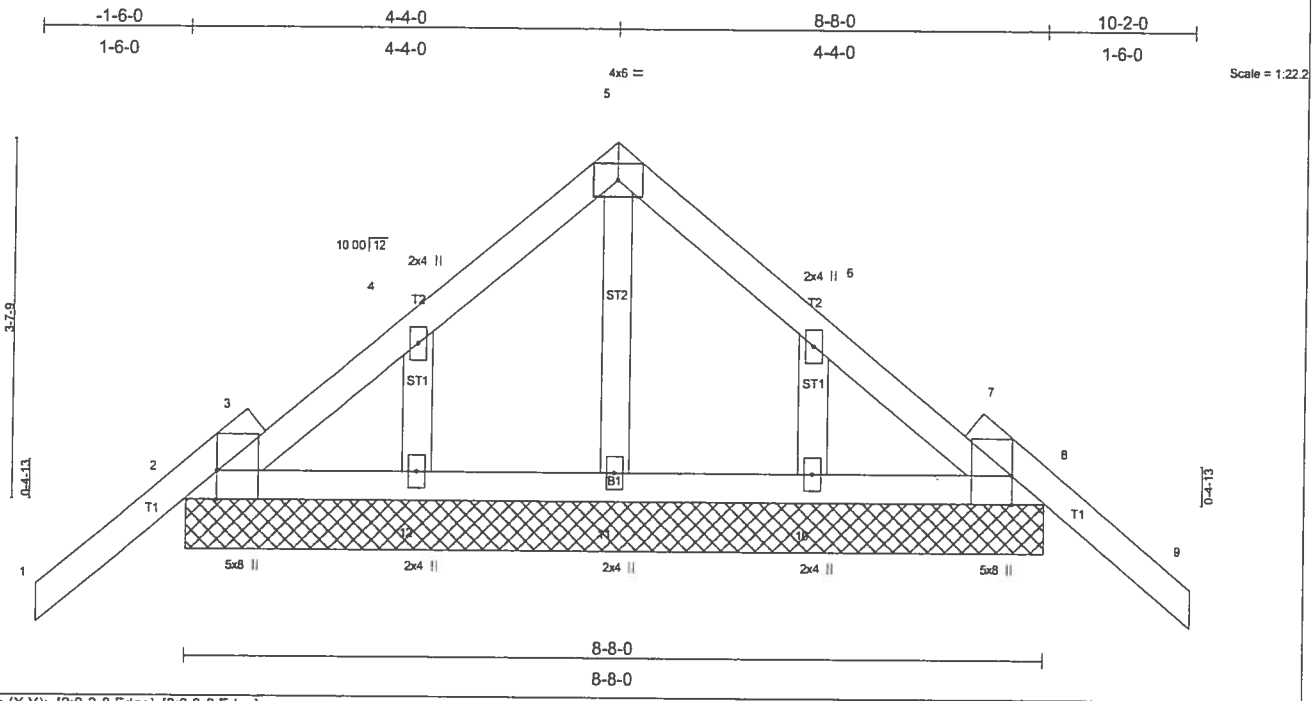


Plate Offsets (X,Y): [2:0-3-8,Edge], [8:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.01	9	n/r	90		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 lb	

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

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

REACTIONS (lb/size) 2=201/8-8-0, 8=201/8-8-0, 11=144/8-8-0, 12=172/8-8-0, 10=172/8-8-0
Max Horz 2=121(load case 4)
Max Uplift2=-151(load case 5), 8=-165(load case 6), 12=-71(load case 5), 10=-75(load case 6)
Max Grav 2=201(load case 1), 8=201(load case 1), 11=144(load case 1), 12=175(load case 9), 10=175(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-70/77, 3-4=-63/89, 4-5=-51/127, 5-6=-51/127, 6-7=-30/57, 7-8=-48/45, 8-9=0/50
BOT CHORD 2-12=-17/116, 11-12=-17/116, 10-11=-17/116, 8-10=-17/116
WEBS 5-11=-87/0, 4-12=-110/102, 6-10=-110/102

JOINT STRESS INDEX
2 = 0.74, 3 = 0.00, 4 = 0.06, 5 = 0.11, 6 = 0.06, 7 = 0.00, 8 = 0.74, 10 = 0.06, 11 = 0.03 and 12 = 0.06

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 left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2, 165 lb uplift at joint 8, 71 lb uplift at joint 12 and 75 lb uplift at joint 10.

LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061061

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T27	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:44:23 2006 Page 1

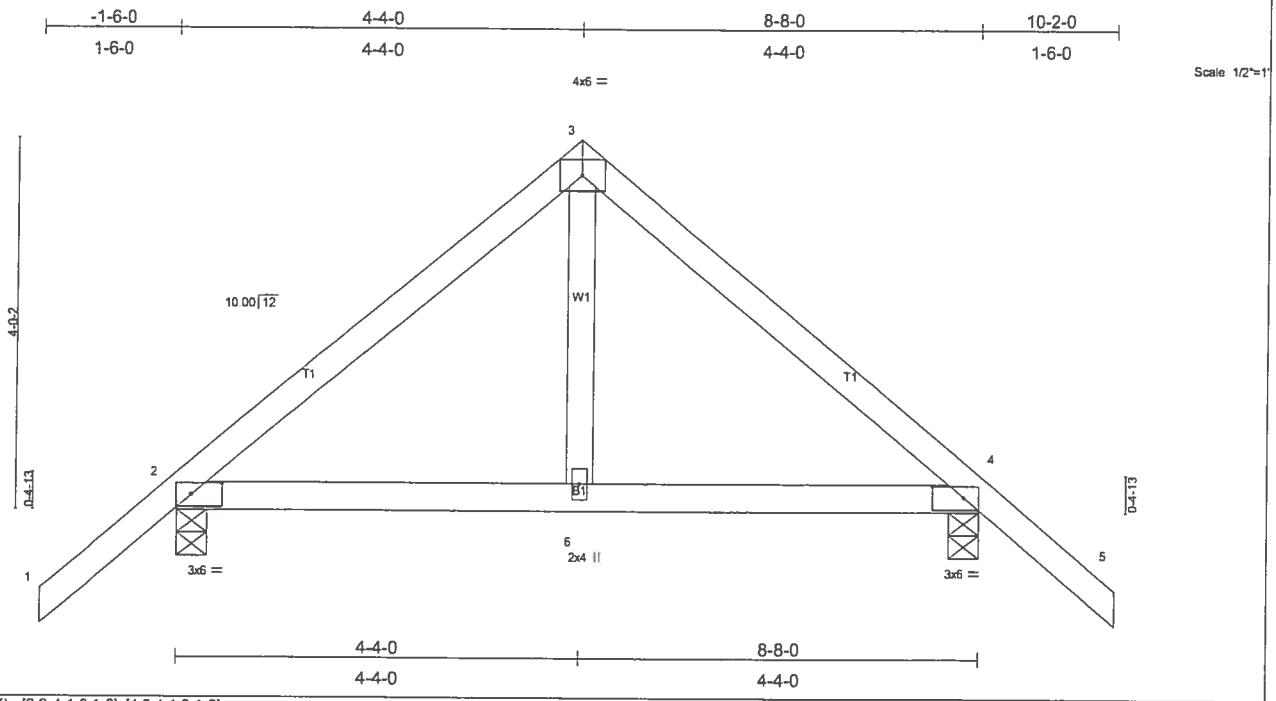


Plate Offsets (X,Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	0.02	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	4-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 41 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=440/0-4-0, 4=440/0-4-0
Max Horz 2=134(load case 4)
Max Uplift2=-314(load case 5), 4=-314(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-357/332, 3-4=-357/332, 4-5=0/52
BOT CHORD 2-6=-95/215, 4-6=-95/215
WEBS 3-6=-249/141

JOINT STRESS INDEX
2 = 0.70, 3 = 0.36, 4 = 0.70 and 6 = 0.10

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 left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 2 and 314 lb uplift at joint 4.

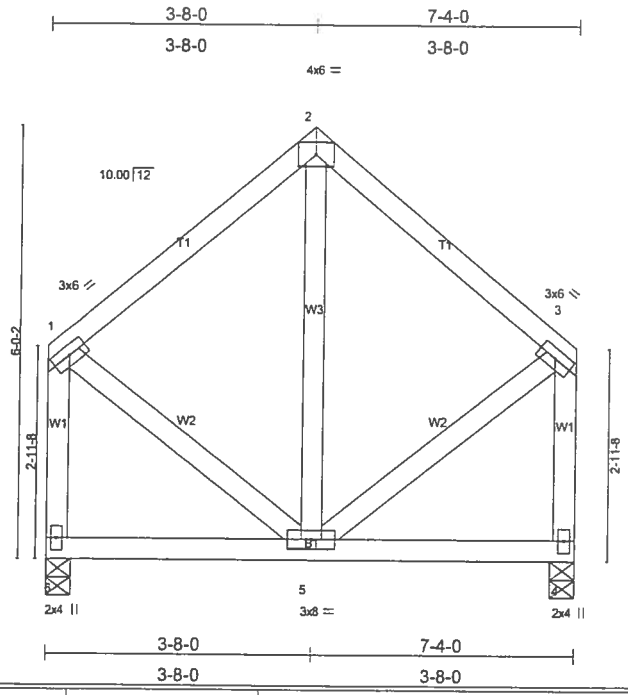
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061062

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T28	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:44:38 2006 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	0.18	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.01	5-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 53 lb	

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

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

REACTIONS (lb/size) 6=296/0-4-0, 4=296/0-4-0
Max Horz 6=102(load case 4)
Max Uplift6=-188(load case 6), 4=-188(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-197/200, 2-3=-197/200, 1-6=-244/222, 3-4=-244/222
BOT CHORD 5-6=-123/104, 4-5=-30/26
WEBS 2-5=-116/9, 1-5=-104/108, 3-5=-105/108

JOINT STRESS INDEX
1 = 0.66, 2 = 0.22, 3 = 0.66, 4 = 0.44, 5 = 0.11 and 6 = 0.44

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 Interior(1) 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.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 6 and 188 lb uplift at joint 4.

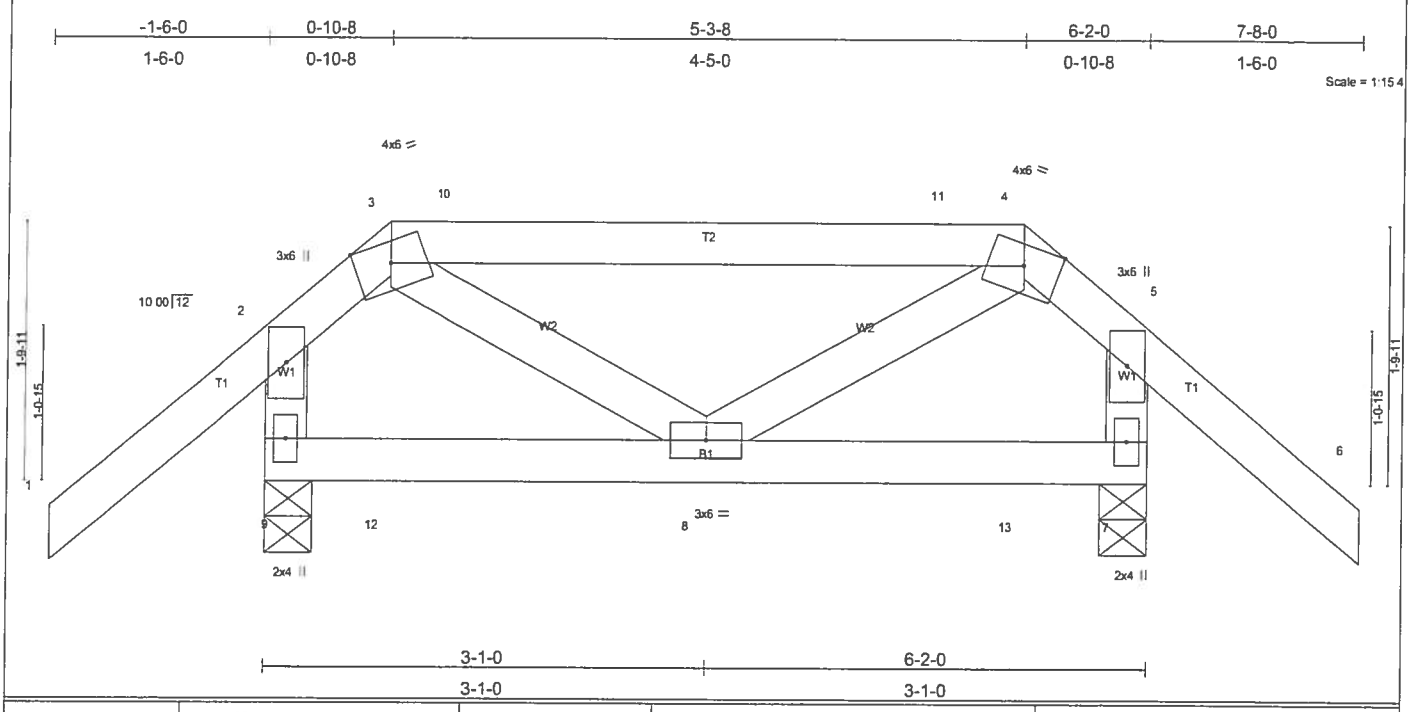
LOAD CASE(S) Standard

SEPTEMBER 15, 2006 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.#0915061063

Job	Truss	Truss Type	Qty	Ply	0 0
L210260	T29	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 14 08:46:23 2006 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	0.25	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 35 lb	

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

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

REACTIONS (lb/size) 9=322/0-4-0, 7=322/0-4-0
Max Horz 9=62(load case 4)
Max Uplift9=-158(load case 4), 7=-158(load case 5)
Max Grav 9=330(load case 8), 7=330(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/57, 2-3=-192/107, 3-10=-142/47, 10-11=-142/47, 4-11=-142/47, 4-5=-192/107, 5-6=0/57, 2-9=-271/168, 5-7=-271/168
BOT CHORD 9-12=-61/122, 8-12=-61/122, 8-13=-47/122, 7-13=-47/122
WEBS 3-8=-1/55, 4-8=-0/55

JOINT STRESS INDEX
2 = 0.27, 3 = 0.22, 4 = 0.22, 5 = 0.27, 7 = 0.53, 8 = 0.03 and 9 = 0.53

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 9 and 158 lb uplift at joint 7.
6) Girder carries hip end with 0-10-8 right side setback, 0-10-8 left side setback, and 2-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4 lb down and 6 lb up at 5-3-8, and 4 lb down and 6 lb up at 0-10-8 on top 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: 1-2=-54, 2-3=-54, 3-4=-50(F=5), 4-5=-54, 5-6=-54, 7-9=-28(F=2)
Concentrated Loads (lb)
Vert: 3=-4(F) 4=-4(F)

SEPTEMBER 15, 2006 TRUSS DESIGN ENGINEER:
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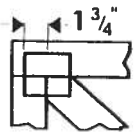
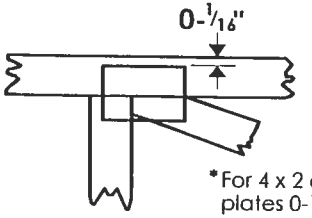
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

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

***Plate location details available in MiTek 20/20 software or upon request.**

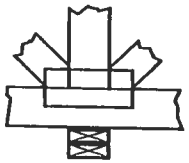
PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

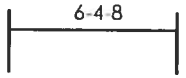


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

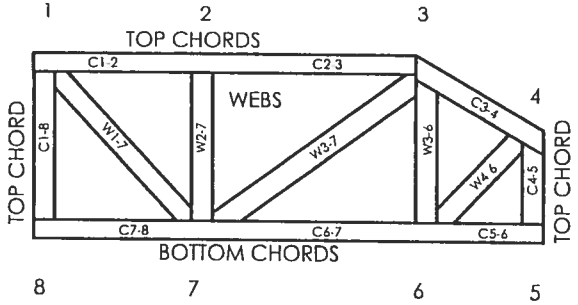
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 755-[illegible]4
FAX (904) 755-70[illegible]
[illegible]
LAKE CITY, FLORIDA [illegible]
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. # 25103

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB100476 Company Phone No. 386-755-3011
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Tudy Homes Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 676 N.W Brinkley Terrace Lake City, FL 32

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 0 Inside 0 Type of Fill 0

Section 4: Treatment Information

Date(s) of Treatment(s) 12-11-06
Brand Name of Product(s) Used Bora-Care
EPA Registration No. 64405-1
Approximate Final Mix Solution % 0.2375
Approximate Size of Treatment Area: Sq. ft. 2874 Linear ft. 294 Linear ft. of Masonry Voids 0
Approximate Total Gallons of Solution Applied 6
Was treatment completed on exterior? ☒ Yes ☐ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments Treated all walls

Name of Applicator(s) Tim Brannan Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Date

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 09-3S-16-02049-226 **Building permit No.** 000025103

Use Classification SFD/UTILITY **Fire:** 22.32

Permit Holder AARON CADY **Waste:** 67.00

Owner of Building ROBERT T. & JAMIE MELGAARD **Total:** 89.32

Location: 676 NW BRINKLEY TERR, LAKE CITY, FL

Date: 06/06/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)