DATE 08/29/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000026185

APPLICANT LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CTY FL 32024

OWNER ADAM'S FRAMING & CONSTRUCTION,LLC PHONE 386.623.2383

ADDRESS 2441 SW BIRLEY AVENUE LAKE CITY FL 32025

CONTRACTOR ADAM PAPKA PHONE 386.623.2383

LOCATION OF PROPERTY 90-W TO PINEMOUNT ROAD,TL TO BIRLEY AVENUE,TL AND IT'S 1 MILE DOWN ON THE R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 71050.00

HEATED FLOOR AREA 1421.00 TOTAL AREA 2022.00 HEIGHT 19.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 08-4S-16-02814-004 SUBDIVISION GERALD RIGGLE DEVELOPMENT

LOT 2 BLOCK PHASE UNIT TOTAL ACRES 0.55

000001442 — CBC1253409 — Applicant/Owner/Contractor

Culvert Permit No. | Culvert Waiver | Contractor's License Number

18"X32'MITERED | 06-0558-N | BLK | JTH | N

Driveway Connection | Septic Tank Number | LU & Zoning checked by | Approved for Issuance | New Resident

COMMENTS: PLAT REQUIRES FINISH FLOOR @ 113.5

ELEVATION CONFIRMATION LETTER REQUIRED. NOC ON FILE.

Check # or Cash 1417

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power (date/app. by) Foundation (date/app. by) Monolithic (footer/Slab) (date/app. by)

Under slab rough-in plumbing (date/app. by) Slab (date/app. by) Sheathing/Nailing (date/app. by)

Framing (date/app. by) Rough-in plumbing above slab and below wood floor (date/app. by)

Electrical rough-in (date/app. by) Heat & Air Duct (date/app. by) Peri. beam (Lintel) (date/app. by)

Permanent power (date/app. by) C.O. Final (date/app. by) Culvert (date/app. by)

M/H tie downs, blocking, electricity and plumbing (date/app. by) Pool (date/app. by)

Reconnection (date/app. by) Pump pole (date/app. by) Utility Pole (date/app. by)

M/H Pole (date/app. by) Travel Trailer (date/app. by) Re-roof (date/app. by)

BUILDING PERMIT FEE $ 360.00 CERTIFICATION FEE $ 10.11 SURCHARGE FEE $ 10.11

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 480.22

INSPECTORS OFFICE CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Lot 2 Gerald Riggle

CR # 1417

Columbia County Building Permit Application

For Office Use Only Application # 0708-50 Date Received 8/28/07 By GF Permit # 1442/26195

Application Approved by - Zoning Official BLK Date 27.08.07 Plans Examiner OKTH Date 8-23-07

Flood Zone X Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res Low Den.

Comments Plat Requires Finish Floor at 113.5ft Elevation Conformation Letter Required

NOC EH Deed or PA Site Plan State Road Info Parent Parcel # Development Permit

Name Authorized Person Signing Permit Linda or Melanie Roder Phone 752-2281 Fax 752-2282

Address 387 SW Kempt Ct Lake City FL 32024

Owners Name Adams Framing + Construction Phone 623-2383

911 Address 2441 SW Birley Ave Lake City FL 32025

Contractors Name Adam Papke Phone 623-2383

Address POB 1921 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers/Marlc Disosway

Mortgage Lenders Name & Address

Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progressive Energy (FL POWER & LIGHT FOR LINDA)

Property ID Number 08-4S-16-02814-004 Estimated Cost of Construction 90K

Subdivision Name Gerald Riggle ~~Subdivision~~ Development Lot 2 Block ____ Unit ____ Phase ____

Driving Directions 90 W, Turn L on Pinemount Rd, Turn L on Birley Ave, Lots are 1 mile down on R

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage ____ Lot Size .550 Do you need a ~~Culvert Permit~~ or Culvert Waiver or ~~Have~~ an Existing ~~Drive~~

Actual Distance of Structure from Property Lines - Front ~~54'~~ Side ~~24'-3"~~ Side ~~39'-2"~~ Rear ~~105'-4"~~

Total Building Height 19' Number of Stories 1 Heated Floor Area 1420 Roof Pitch 6-12

TOTAL 2022

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standard of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number CBC 1253409

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Sworn to (or affirmed) and subscribed before me this ____ day of ____ 20____.

Personally known ____ or Produced Identification ____

Notary Signature

JW ADVISED LINDA 8.28.07

OL-0558

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001442

DATE 08/29/2007 PARCEL ID # 08-4S-16-02814-004

APPLICANT LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CTY FL 32024

OWNER ADAM'S FRAMING & CONSTRUCTION,LLC PHONE 386.623.2383

ADDRESS 2441 SW BIRLEY AVENUE LAKE CITY FL 32025

CONTRACTOR ADAM PAPKA PHONE 386.623.2383

LOCATION OF PROPERTY 90-W TO PINEMOUNT ROAD,TL TO BIRLEY AVENUE,TL AND IT'S 1 MILE DOWN ON TH R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT GERALD RIGGLE DEV. 2

SIGNATURE

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

Prepared by:
Elaine R. Davis / Megan Marable
American Title Services of Lake City, Inc.
321 SW Main Boulevard, Suite 105
Lake City, Florida 32025

File Number: 07-220

Inst:200712012877 Date:6/12/2007 Time:1:11 PM
Doc Stamp-Deed:234.50
DC,P.DeWitt Cason ,Columbia County Page 1 of 1

Warranty Deed

Made this June 8, 2007 A.D.

By **Aaron Simque and Mark A. Cook**, Post Office Box 2695, Lake City, Florida 32056, hereinafter called the grantor,

to **Adam's Framing and Construction, LLC**, whose post office address is: 691 SW Sisters Welcome Road, Lake City, Florida 32025, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

LOT 2 of GERALD RIGGLE DEVELOPMENT, a subdivision according to the Plat thereof as recorded in Plat Book 8 Page 67, Public Records of Columbia County, Florida.

SUBJECT TO A NON EXCLUSIVE PERPETUAL EASEMENT FOR INGRESS AND EGRESS OVER AND ACROSS THE SOUTH 15 FEET.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: **02814-001**

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2006.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Myan Marble _______________ (Seal)
Aaron Simque
Witness Printed Name Megan Marable
Address: Post Office Box 2695, Lake City, Florida 32056

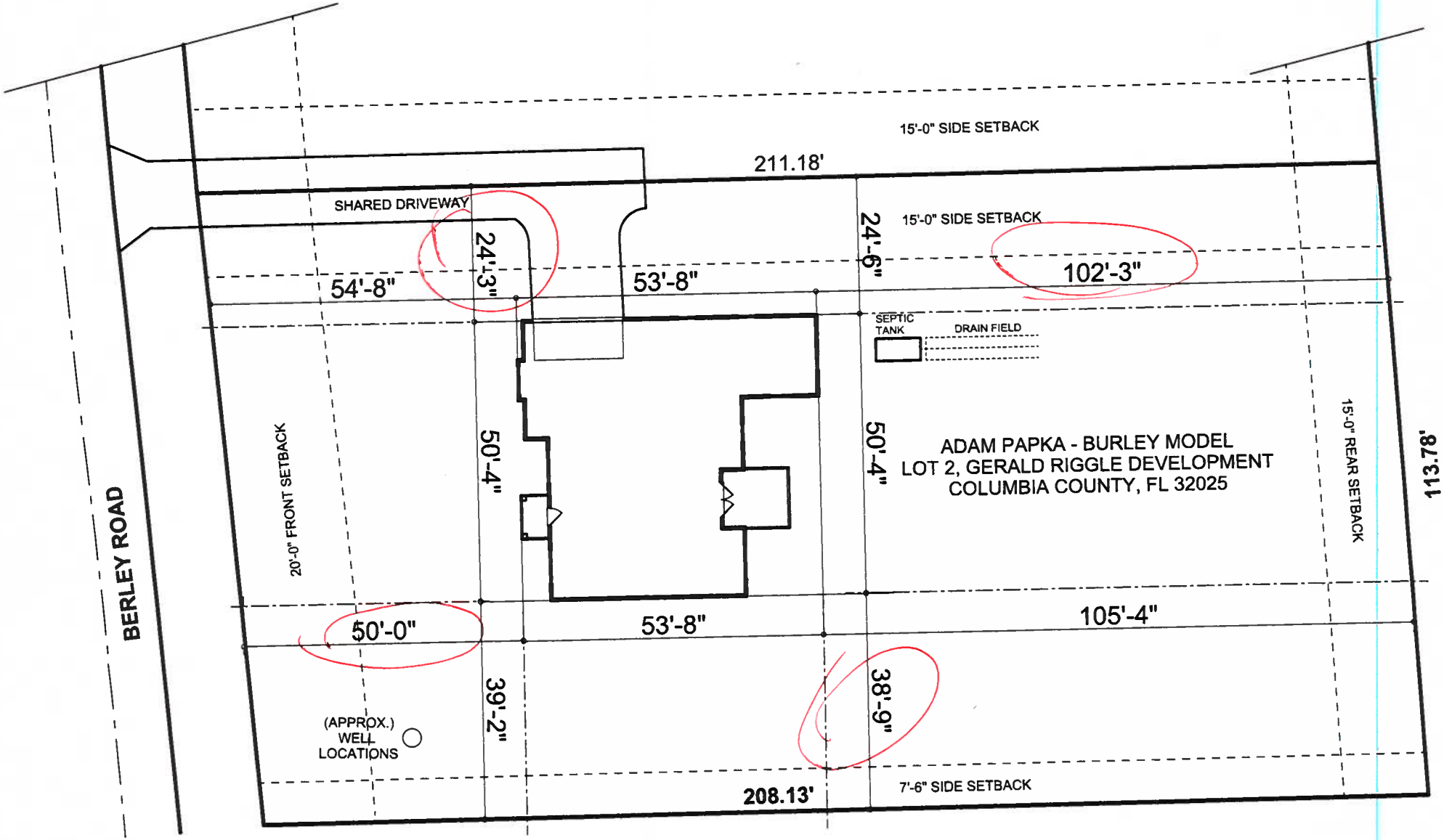
Johnny M. Hamm _______________ (Seal)
Mark A. Cook
Witness Printed Name Johnny M. Hamm
Address:

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 8th day of June, 2007, by Aaron Simque and Mark A. Cook, who is/are ~~personally known to me~~ or who has produced drivers license as identification.

Megan M. Marable
Notary Public
Print Name: _______________

MEGAN M MARABLE
MY COMMISSION # DD412865
(407) 398-0153 Florida Notary Service.com


15'-0" SIDE SETBACK
211.18'
SHARED DRIVEWAY
24'-3"
24'-6"
15'-0" SIDE SETBACK
102'-3"
54'-8"
53'-8"
SEPTIC TANK
DRAIN FIELD
BERLEY ROAD
20'-0" FRONT SETBACK
50'-4"
50'-4"
ADAM PAPKA - BURLEY MODEL
LOT 2, GERALD RIGGLE DEVELOPMENT
COLUMBIA COUNTY, FL 32025
15'-0" REAR SETBACK
113.78'
50'-0"
53'-8"
105'-4"
39'-2"
38'-9"
(APPROX.)
WELL
LOCATIONS
208.13'
7'-6" SIDE SETBACK

SCALE: 1" = 20'

FROM : FAX NO. :386-755-7822 Sep. 17 2002 01:52 PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS

[redacted]

DONALD AND MARY HALL
OWNERS

PHONE (3[illegible]
FAX ([illegible]
[redacted]
LAKE CITY, [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

Lot 2 Gerald Riggle 0708-50

Inst. Number: 200712018454 Book: 1128 Page: 563 Date: 8/14/2007 Time: 3:38:13 PM

10.00
2.50
12.50

Return To:
Eddie Anderson

THIS INSTRUMENT PREPARED BY
& RETURN TO:
Columbia Bank
173 NW Hillsboro Street
Lake City, FL 32055

Inst:200712018454 Date:8/14/2007 Time:3:38 PM
Doc:DC,P.DeWitt Cason ,Columbia County Page 1 of 1

NOTICE OF COMMENCEMENT

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement:

1. Description of Property: Lot 2 of Gerald Riggle Development a subdivision according to the Plat thereof as recorded in PB 8 Page 67, Tax Parcel # 08 4S-16-02814-004 of the Public Records of Columbia County, Florida.

2. General Description of Improvements: Construction of a single family dwelling.

3. Owner Information: Adam's Framing and construction, LLC
P O Box 1921
Lake City, Fl 32056
Phone: 386-752-4202

Owner's Interest in Property: Fee Simple

4. Contractor: Adam's Framing and construction, LLC
429 SW Meadow Terrace
Lake City, Fl 32024
Phone: 386-752-4202

5. Lender: Columbia Bank
173 NW Hillsboro Street
Lake City, FL 32055

6. Additional persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:

7. Expiration date of Notice of Commencement is one (1) year from the date of recording.

Adam's Framing and Construction, LLC

Adam Papka, Manager

STATE OF FLORIDA
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 8th day of June, 2007 by Adam Papka, Manager of Adam's Framing and Construction, LLC

NOTARY PUBLIC
Janice Elaine Gonzalez
Name:
State of Florida at Large (SEAL)
Personally Known:
Produced Identification:
Type:
My Commission Expires:

JANICE ELAINE GONZALEZ
MY COMMISSION # DD 539112
EXPIRES: April 11, 2010

(NOC)

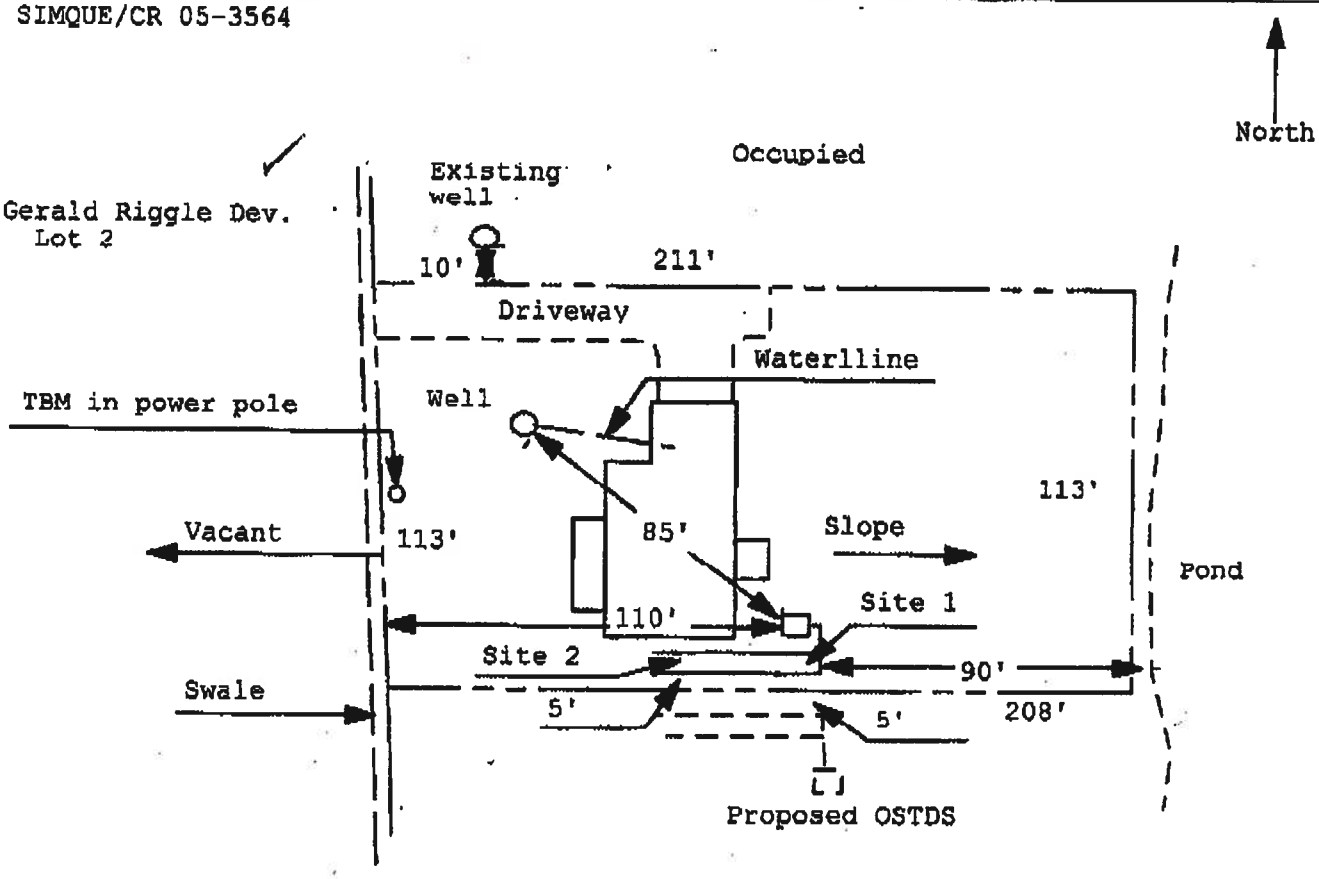
Lot 2 Gerald Riggle 0708-50

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0558N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SIMQUE/CR 05-3564



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd **Date** 6/8/06

Plan Approved____ **Not Approved**____ **Date**____

By Sallie Gradely ES II **CPHU**

Notes:____

Columbia CHD

FORM 600A-2004R Tested sealed ducts must be certified in this house. EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Adam Papka**	Builder:	**Adam's Framing & Const.**
Address:	**Burley Road**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32024-**	Permit Number:	22185
Owner:	**Burley Road Spec**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 32.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	1421 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 249.0 ft²	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
b. SHGC:			HSPF: 7.70
(or Clear or Tint DEFAULT)	7b. (Clear) 249.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=5.0, 178.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 80.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1090.0 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 223.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	PT,
a. Under Attic	R=30.0, 1500.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft		
b. N/A			

Glass/Floor Area: 0.18 Total as-built points: 19834 Total base points: 21360 **PASS**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 8-20-08

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: 8-20-08

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Burley Road, Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1421.0	18.59	4755.0	1.Double, Clear	W	1.5	9.0	90.0	38.52	0.97	3364.0	
				2.Double, Clear	W	1.5	9.0	40.0	38.52	0.97	1495.0	
				3.Double, Clear	N	1.5	9.0	36.0	19.20	0.98	674.0	
				4.Double, Clear	N	1.5	9.0	9.0	19.20	0.98	168.0	
				5.Double, Clear	N	1.5	9.0	4.0	19.20	0.98	74.0	
				6.Double, Clear	E	1.5	9.0	36.0	42.06	0.97	1468.0	
				7.Double, Clear	E	1.5	9.0	18.0	42.06	0.97	734.0	
				8.Double, Clear	S	1.5	9.0	16.0	35.87	0.94	541.0	
				As-Built Total:				**249.0**			**8518.0**	
WALL TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Adjacent	223.0	0.70	156.1	1. Frame, Wood, Exterior			13.0	1090.0	1.50		1635.0	
Exterior	1090.0	1.70	1853.0	2. Frame, Wood, Adjacent			13.0	223.0	0.60		133.8	
Base Total:	**1313.0**		**2009.1**	**As-Built Total:**				**1313.0**			**1768.8**	
DOOR TYPES	Area X	BSPM	= Points	Type				Area X	SPM	=	Points	
Adjacent	20.0	2.40	48.0	1.Exterior Insulated				20.0	4.10		82.0	
Exterior	20.0	6.10	122.0	2.Adjacent Insulated				20.0	1.60		32.0	
Base Total:	**40.0**		**170.0**	**As-Built Total:**				**40.0**			**114.0**	
CEILING TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM X SCM	=	Points	
Under Attic	1421.0	1.73	2458.3	1. Under Attic			30.0	1500.0	1.73 X 1.00		2595.0	
Base Total:	**1421.0**		**2458.3**	**As-Built Total:**				**1500.0**			**2595.0**	
FLOOR TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Slab	178.0(p)	-37.0	-6586.0	1. Slab-On-Grade Edge Insulation			5.0	178.0(p	-36.20		-6443.6	
Raised	0.0	0.00	0.0									
Base Total:			**-6586.0**	**As-Built Total:**				**178.0**			**-6443.6**	
INFILTRATION	Area X	BSPM	= Points					Area X	SPM	=	Points	
	1421.0	10.21	14508.4					1421.0	10.21		14508.4	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Burley Road, Lake City, FL, 32024-**	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 17314.8			**Summer As-Built Points:**					**21060.6**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 32000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			21061	1.00	(1.09 x 1.000 x 1.00)	0.260	0.950	5670.1
17314.8	**0.3250**	**5627.3**	**21060.6**	**1.00**	**1.090**	**0.260**	**0.950**	**5670.1**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Burley Road, Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1421.0	20.17	5159.0	1.Double, Clear	W	1.5	9.0	90.0	20.73	1.01	1880.0	
				2.Double, Clear	W	1.5	9.0	40.0	20.73	1.01	835.0	
				3.Double, Clear	N	1.5	9.0	36.0	24.58	1.00	885.0	
				4.Double, Clear	N	1.5	9.0	9.0	24.58	1.00	221.0	
				5.Double, Clear	N	1.5	9.0	4.0	24.58	1.00	98.0	
				6.Double, Clear	E	1.5	9.0	36.0	18.79	1.02	687.0	
				7.Double, Clear	E	1.5	9.0	18.0	18.79	1.02	343.0	
				8.Double, Clear	S	1.5	9.0	16.0	13.30	1.02	217.0	
				As-Built Total:				**249.0**			**5166.0**	
WALL TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	223.0	3.60	802.8	1. Frame, Wood, Exterior			13.0	1090.0	3.40		3706.0	
Exterior	1090.0	3.70	4033.0	2. Frame, Wood, Adjacent			13.0	223.0	3.30		735.9	
Base Total:	**1313.0**		**4835.8**	**As-Built Total:**				**1313.0**			**4441.9**	
DOOR TYPES	Area X	BWPM	= Points	Type				Area X	WPM	=	Points	
Adjacent	20.0	11.50	230.0	1.Exterior Insulated				20.0	8.40		168.0	
Exterior	20.0	12.30	246.0	2.Adjacent Insulated				20.0	8.00		160.0	
Base Total:	**40.0**		**476.0**	**As-Built Total:**				**40.0**			**328.0**	
CEILING TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1421.0	2.05	2913.1	1. Under Attic			30.0	1500.0	2.05 X	1.00	3075.0	
Base Total:	**1421.0**		**2913.1**	**As-Built Total:**				**1500.0**			**3075.0**	
FLOOR TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Slab	178.0(p)	8.9	1584.2	1. Slab-On-Grade Edge Insulation			5.0	178.0(p	7.60		1352.8	
Raised	0.0	0.00	0.0									
Base Total:			**1584.2**	**As-Built Total:**				**178.0**			**1352.8**	
INFILTRATION	Area X	BWPM	= Points					Area X	WPM	=	Points	
	1421.0	-0.59	-838.4					1421.0	-0.59		-838.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Burley Road, Lake City, FL, 32024-**	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**14129.7**	**Winter As-Built Points:**					**13525.3**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 32000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			13525.3	1.000	(1.069 x 1.000 x 1.00)	0.443	0.950	6082.9
14129.7	**0.5540**	**7827.8**	**13525.3**	**1.00**	**1.069**	**0.443**	**0.950**	**6082.9**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Burley Road, Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	80.0	0.90	3	1.00	2693.56	1.00	8080.7	
				As-Built Total:						**8080.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
5627	**7828**	**7905**	**21360**	**5670**	**6083**	**8081**	**19834**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Burley Road, Lake City, FL, 32024-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.6

The higher the score, the more efficient the home.

Burley Road Spec, Burley Road, Lake City, FL, 32024-

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family			a. Central Unit	Cap: 32.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 13.00
4.	Number of Bedrooms	3			b. N/A	
5.	Is this a worst case?	No				
6.	Conditioned floor area (ft²)	1421 ft²			c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					
	a. U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default) 249.0 ft²			a. Electric Heat Pump	Cap: 32.0 kBtu/hr
	b. SHGC:					HSPF: 7.70
	(or Clear or Tint DEFAULT)	7b. (Clear) 249.0 ft²			b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=5.0, 178.0(p) ft			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 80.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1090.0 ft²				EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 223.0 ft²			b. N/A	
	c. N/A					
	d. N/A				c. Conservation credits	
	e. N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1500.0 ft²		15.	HVAC credits	PT,
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts(Leak Free)				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Energy Code Compliance

Duct System Performance Report

Project Name:	Adam Papka	Builder:	Adam's Framing & Const.
Address:	Burley Road	Permitting Office:	
City, State:	Lake City, FL 32024-	Permit Number:	
Owner:	Burley Road Spec	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	**Total House Duct System Leakage**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,tot) ☐ Receive credit if Q_n,tot≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,out) ☐ Receive credit if Q_n,out≤ 0.03 AND Q_n,tot≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

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 08-4S-16-02814-004 **Building permit No.** 000026185

Use Classification SFD/UTILITY **Fire:** 57.78

Permit Holder ADAM PAPKA **Waste:** 150.75

Owner of Building ADAM'S FRAMING & CONSTRUCTION,LLC **Total:** 208.53

Location: 2441 SW BIRLEY AVE, LAKE CITY, FL

Date: 01/29/2008

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Project Information for:		L244941			
Builder:		ADAM'S FRAMING	Date:	7/31/2007	
Lot:		N/A	Start Number:	1003	
Subdivision:		441 SW BURLEY AVE.	SEI Ref:	L244941	
County or City:		COLUMBIA COUNTY			
Truss Page Count:		37			
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)					
		PAPKA, ADAM R. CBC1253409			
Address:		P.O. BOX 1921			
		LAKE CITY, FL 32056	Designer:	146	
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.

JUL 31 2007

THOMAS E. MILLER LICENSE No. 56877 STATE OF FLORIDA PROFESSIONAL ENGINEER

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0731071003	7/31/2007				
2	CJ3	0731071004	7/31/2007				
3	CJ5	0731071005	7/31/2007				
4	EJ2	0731071006	7/31/2007				
5	EJ7	0731071007	7/31/2007				
6	EJ7A	0731071008	7/31/2007				
7	EJ7B	0731071009	7/31/2007				
8	HJ3	0731071010	7/31/2007				
9	HJ9	0731071011	7/31/2007				
10	T01	0731071012	7/31/2007				
11	T02	0731071013	7/31/2007				
12	T03	0731071014	7/31/2007				
13	T04	0731071015	7/31/2007				
14	T05	0731071016	7/31/2007				
15	T06	0731071017	7/31/2007				
16	T07	0731071018	7/31/2007				
17	T08	0731071019	7/31/2007				
18	T10	0731071020	7/31/2007				
19	T11	0731071021	7/31/2007				
20	T12	0731071022	7/31/2007				
21	T13	0731071023	7/31/2007				
22	T14	0731071024	7/31/2007				
23	T15	0731071025	7/31/2007				
24	T16	0731071026	7/31/2007				
25	T17	0731071027	7/31/2007				
26	T18	0731071028	7/31/2007				
27	T18G	0731071029	7/31/2007				
28	T19	0731071030	7/31/2007				
29	T20	0731071031	7/31/2007				
30	T21	0731071032	7/31/2007				
31	T22	0731071033	7/31/2007				
32	T23	0731071034	7/31/2007				
33	T24	0731071035	7/31/2007				
34	T25	0731071036	7/31/2007				
35	T25G	0731071037	7/31/2007				
36	T26	0731071038	7/31/2007				
37	T27	0731071039	7/31/2007				

LATERAL TOE-NAIL DETAIL

ST-TOENAIL

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

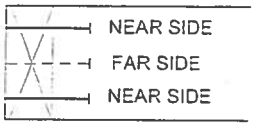
TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SYP
3.5" LONG	.131	83.3
	.135	89.6
	.162	118.3
3.25" LONG	.128	80.5
	.131	83.3
	.148	102.1
3.0" LONG	.120	70.5
	.128	80.5
	.131	83.3
	.148	102.1

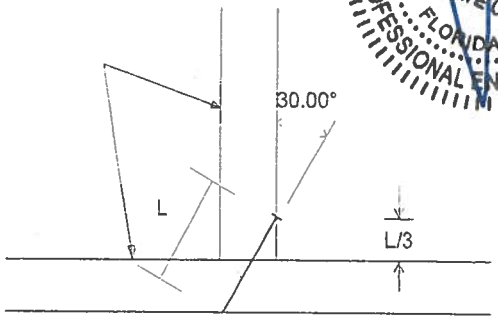
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

SQUARE CUT

SIDE VIEW
(2x4, 2x6)
3 NAILS



SIDE VIEW
(2x3)
2 NAILS

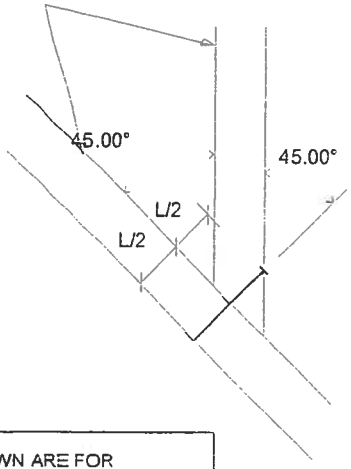


JUL 31 2007

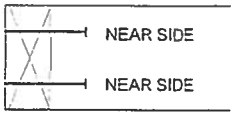
THOMAS E. MILLER LICENSE No. 56877 STATE OF FLORIDA PROFESSIONAL ENGINEER

45 DEGREE ANGLE BEVEL CUT

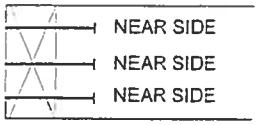
This detail may only be applied to Pre-engineered truss drawings signed and sealed by Structural Engineering and Inspections Inc.



SIDE VIEW
(2x3, 2x4)
2 NAILS

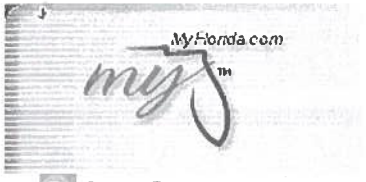


SIDE VIEW
(2x6)
3 NAILS



VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

Dwg.#0731071002



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Online Help

Licensee Details

Licensee Information

Name:	**PAPKA, ADAM RUSSELL (Primary Name)**
	ADAM S FRAMING AND CONSTRUCTION LLC (DBA Name)
Main Address:	**PO BOX 1921**
	LAKE CITY Florida 32056
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	

License Information

License Type:	**Certified Building Contractor**
Rank:	**Cert Building**
License Number:	**CBC1253409**
Status:	**Current,Active**
Licensure Date:	**09/26/2005**
Expires:	**08/31/2008**

Special Qualifications	**Qualification Effective**
Qualified Business License Required	**09/26/2005**

View Related License Information

View License Complaint

JULY 31, 2007,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.#0731071003

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	CJ1	JACK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:09 2007 Page 1

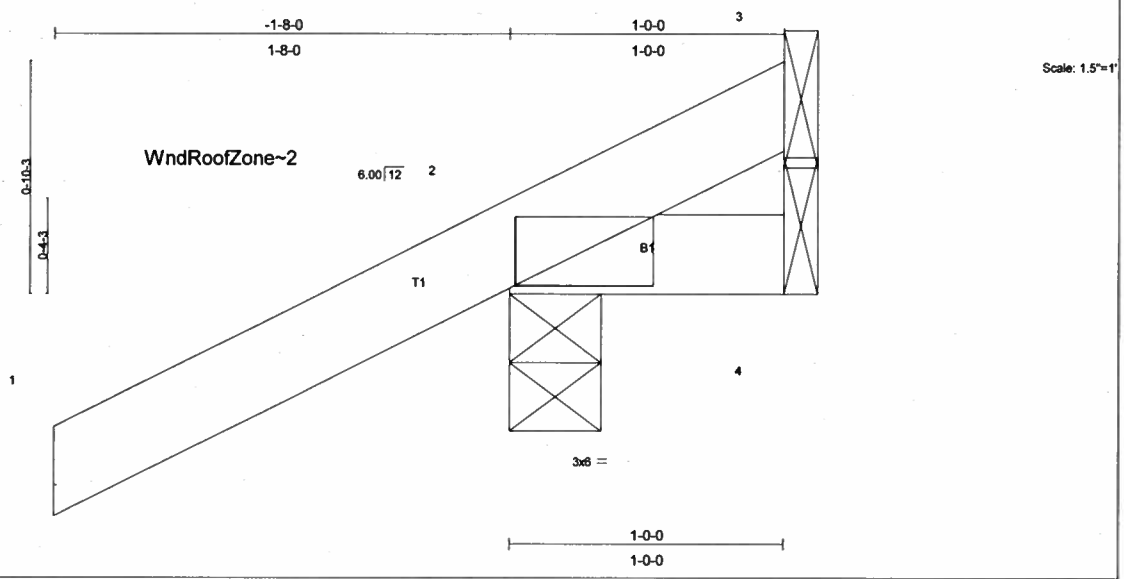


Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	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: 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=214/0-4-0, 4=14/Mechanical, 3=-56/Mechanical
Max Horz 2=76(load case 5)
Max Uplift2=-210(load case 5), 3=-56(load case 1)
Max Grav 2=214(load case 1), 4=14(load case 1), 3=81(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-53/47
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 2 and 56 lb uplift at joint 3.

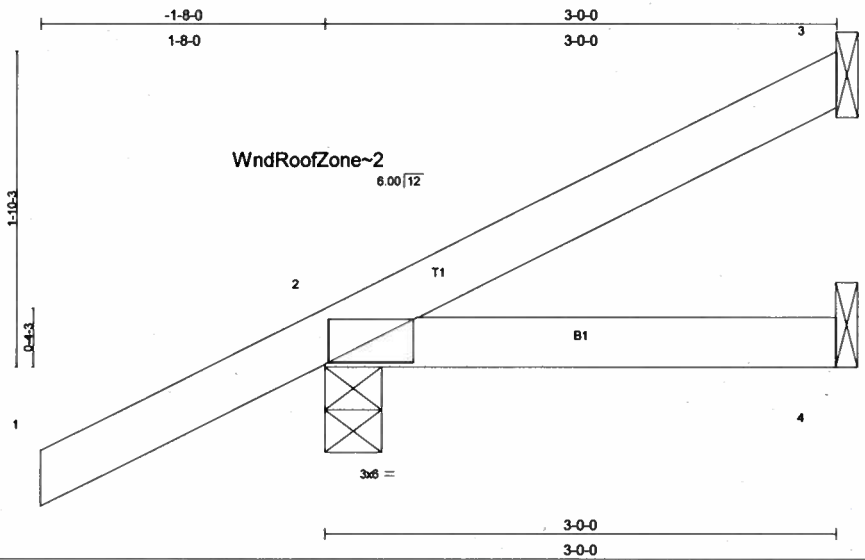
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071004

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	CJ3	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:12 2007 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	0.21	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	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=42/Mechanical, 2=248/0-4-0, 4=42/Mechanical
Max Horz 2=121(load case 5)
Max Uplift3=-33(load case 6), 2=-169(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-51/13
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 169 lb uplift at joint 2.

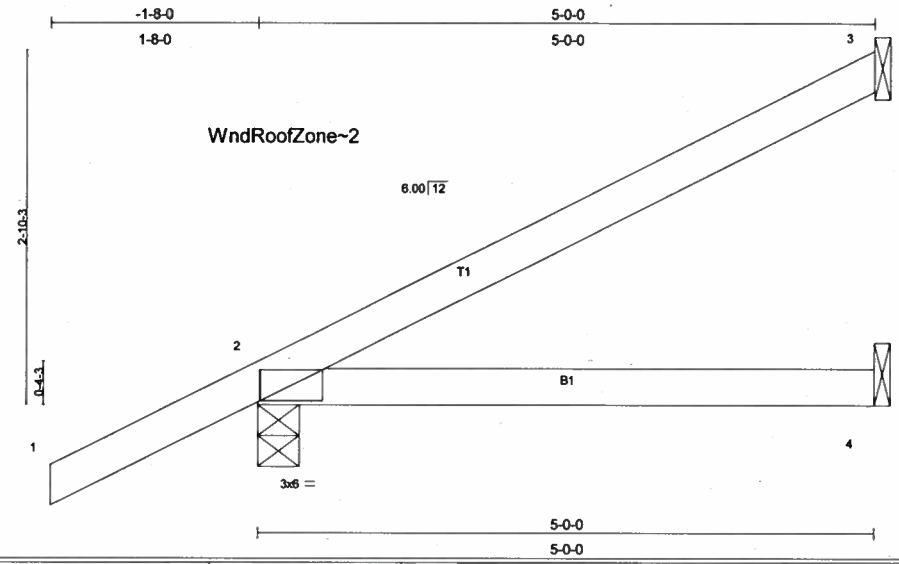
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071005

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	CJ5	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:15 2007 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	0.23	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

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

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

REACTIONS (lb/size) 3=110/Mechanical, 2=318/0-4-0, 4=72/Mechanical
Max Horz 2=167(load case 5)
Max Uplift3=-96(load case 5), 2=-172(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-93/39
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.14

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 3 and 172 lb uplift at joint 2.

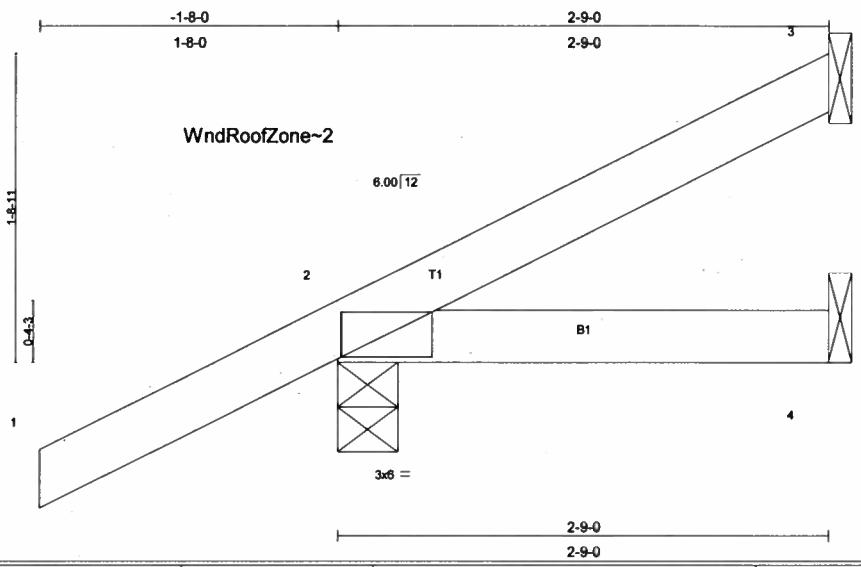
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071006

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	EJ2	JACK	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:17 2007 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	0.21	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.00	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 2-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=32/Mechanical, 2=241/0-4-0, 4=38/Mechanical
Max Horz 2=115(load case 5)
Max Uplift3=-27(load case 6), 2=-171(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-50/9
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3 and 171 lb uplift at joint 2.

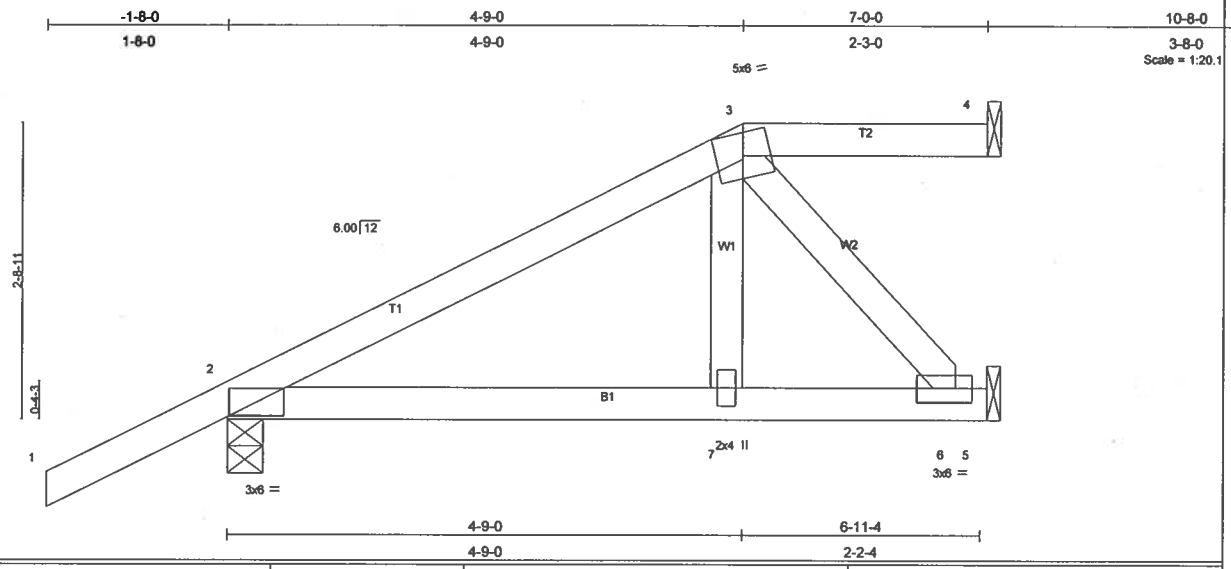
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071007

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	EJ7	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:20 2007 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	0.21	Vert(LL)	-0.01	2-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.02	2-7	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 32 lb	

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

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

REACTIONS (lb/size) 4=24/Mechanical, 2=397/0-4-0, 5=247/Mechanical
Max Horz 2=163(load case 5)
Max Uplift4=-37(load case 3), 2=-202(load case 5), 5=-84(load case 5)
Max Grav 4=45(load case 10), 2=397(load case 1), 5=247(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-306/41, 3-4=-0/0
BOT CHORD 2-7=-77/219, 6-7=-78/210, 5-6=0/0
WEBS 3-7=0/158, 3-6=-334/124

JOINT STRESS INDEX
2 = 0.21, 3 = 0.16, 6 = 0.16 and 7 = 0.11

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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 37 lb uplift at joint 4, 202 lb uplift at joint 2 and 84 lb uplift at joint 5.

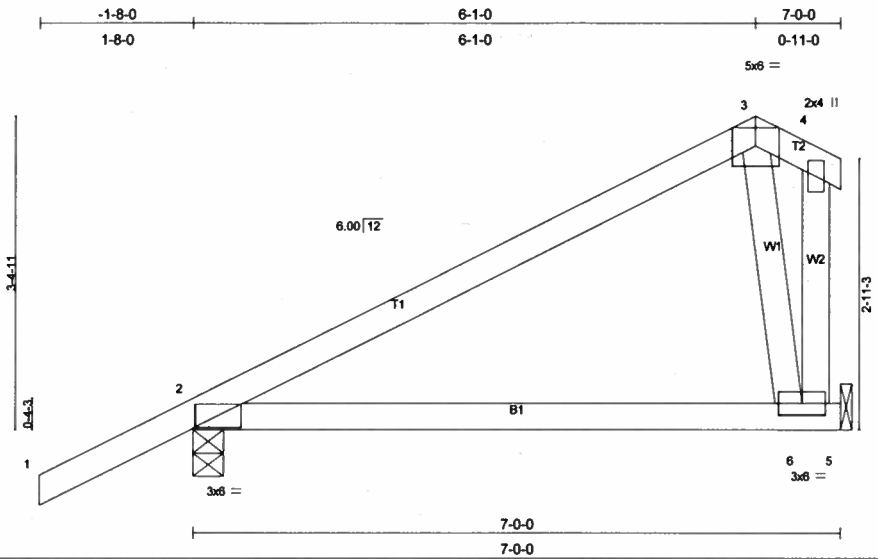
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071008

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	EJ7A	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:23 2007 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	0.35	Vert(LL)	-0.07	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.13	2-6	>616	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.00	6	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) 2=382/0-4-0, 6=276/Mechanical
Max Horz 2=183(load case 5)
Max Uplift2=-193(load case 5), 6=-107(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-157/17, 3-4=-69/119
BOT CHORD 2-6=-57/84, 5-6=0/0
WEBS 3-6=-438/301, 4-6=-174/271

JOINT STRESS INDEX
2 = 0.51, 3 = 0.65, 4 = 0.19 and 6 = 0.18

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 193 lb uplift at joint 2 and 107 lb uplift at joint 6.

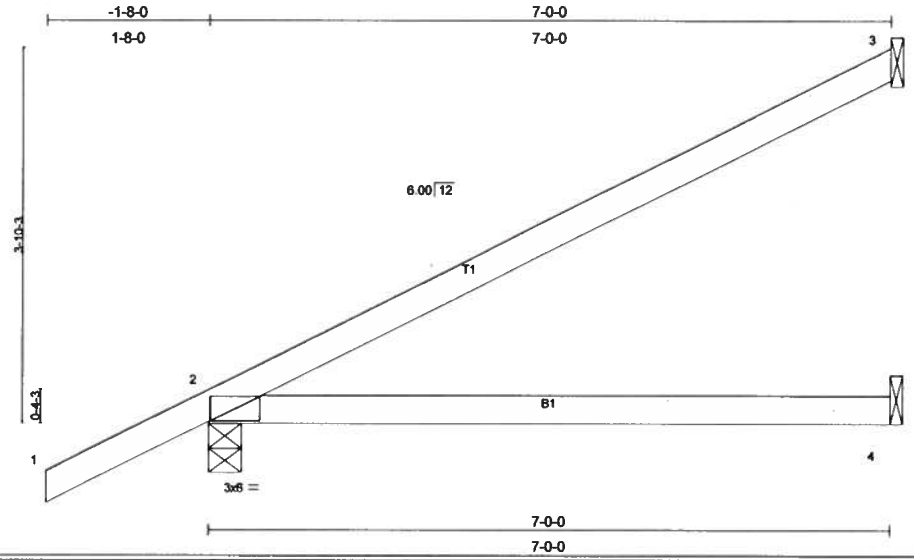
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071009

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	EJ7B	MONO TRUSS	19	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:26 2007 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)	-0.13	2-4	>631	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.21	2-4	>379	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: 25 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=164/Mechanical, 2=397/0-4-0, 4=107/Mechanical
Max Horz 2=213(load case 5)
Max Uplift3=-137(load case 5), 2=-185(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-93/59
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.62

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 3 and 185 lb uplift at joint 2.

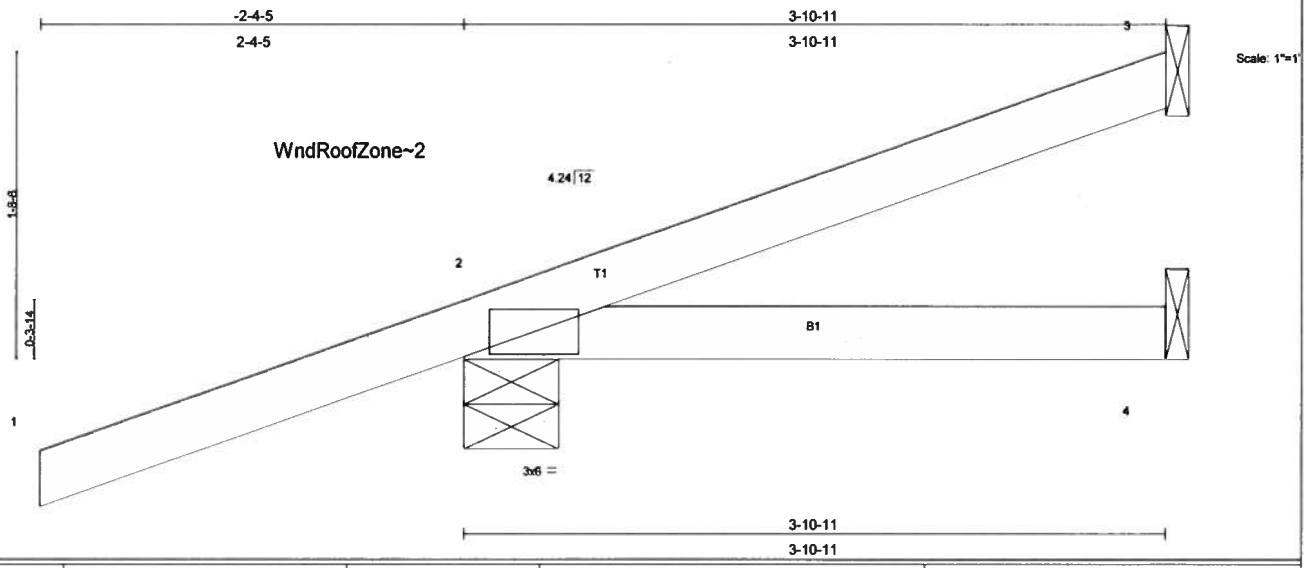
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071010

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	HJ3	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:30 2007 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	0.40	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 16 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 3-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=12/Mechanical, 2=247/0-6-7, 4=35/Mechanical
Max Horz 2=82(load case 2)
Max Uplift3=-2(load case 5), 2=-215(load case 2)
Max Grav 3=31(load case 6), 2=247(load case 1), 4=35(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-32/10
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; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3 and 215 lb uplift at joint 2.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

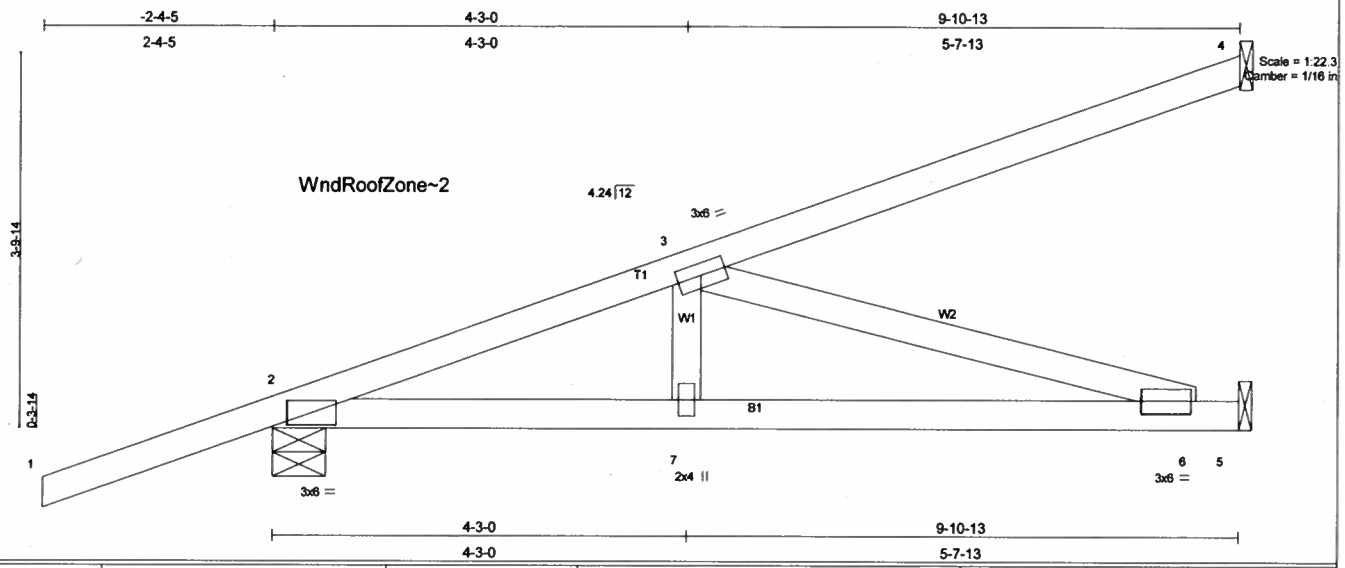
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-3=-53(F=1, B=1), 2=0(F=15, B=15)-to-4=-29(F=0, B=0)

JULY 31, 2007, 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.#0731071011

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	HJ9	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:33 2007 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	0.61	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.18	6-7	>626	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 44 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-5 oc bracing.

REACTIONS (lb/size) 4=269/Mechanical, 2=504/0-6-7, 5=381/Mechanical
Max Horz 2=259(load case 2)
Max Uplift4=-230(load case 2), 2=-249(load case 2), 5=-71(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-913/159, 3-4=-104/65
BOT CHORD 2-7=-348/847, 6-7=-348/847, 5-6=0/0
WEBS 3-7=0/200, 3-6=-883/363

JOINT STRESS INDEX
2 = 0.73, 3 = 0.23, 6 = 0.25 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; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4, 249 lb uplift at joint 2 and 71 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-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)

JULY 31, 2007, 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.#0731071012

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T01	MONO HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:36 2007 Page 1

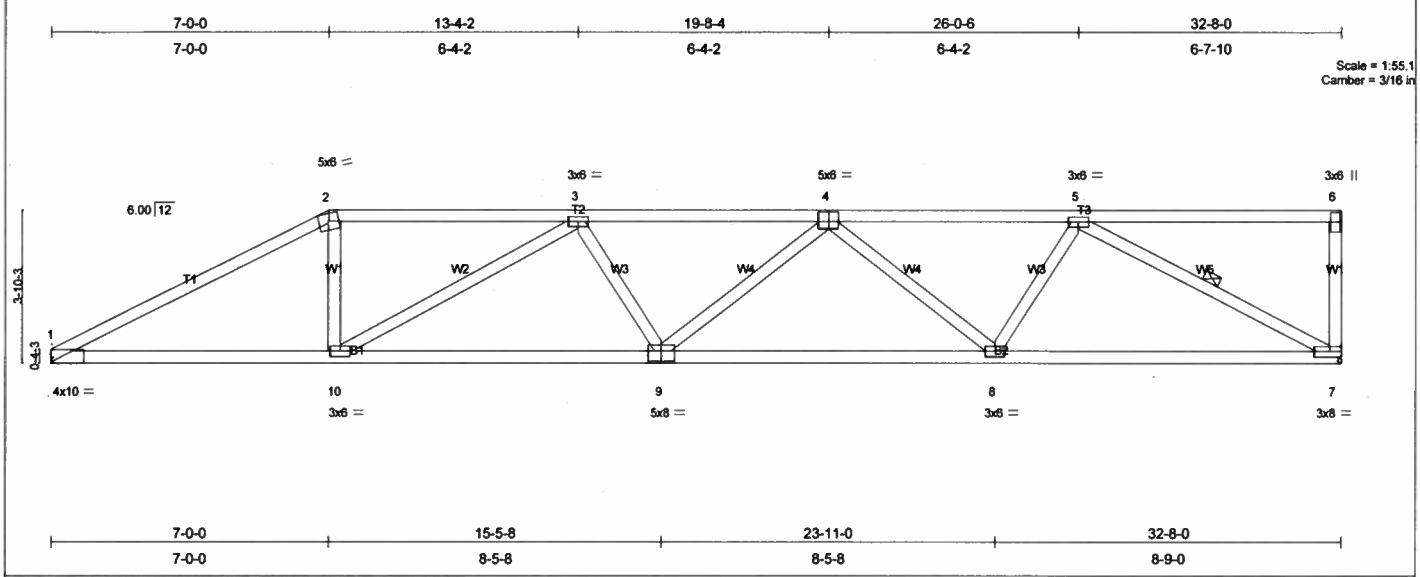


Plate Offsets (X,Y): [1:0-0-0,0-0-4], [4:0-3-0,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.34	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.56	8-9	>699	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.14	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 313 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-1 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 1=3032/Mechanical, 7=3027/Mechanical
Max Horz 1=165(load case 4)
Max Uplift1=-1172(load case 3), 7=-1353(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-5532/2247, 2-3=-4975/2083, 3-4=-6931/2972, 4-5=-5450/2336, 5-6=-202/60, 6-7=-384/296
BOT CHORD 1-10=-2058/4898, 9-10=-3029/6765, 8-9=-3014/6641, 7-8=-2071/4508
WEBS 2-10=-632/1847, 3-10=-2065/1141, 3-9=0/324, 4-9=0/379, 4-8=-1556/886, 5-8=-518/1843, 5-7=-4911/2293

JOINT STRESS INDEX
1 = 0.68, 2 = 0.70, 3 = 0.43, 4 = 0.58, 5 = 0.76, 6 = 0.53, 7 = 0.59, 8 = 0.71, 9 = 0.74 and 10 = 0.60

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) 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.
4) Provide adequate drainage to prevent water ponding.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1172 lb uplift at joint 1 and 1353 lb uplift at joint 7.
7) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 7-0-0
8) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-6=-120(F=-66), 1-10=-132(F=-102), 7-10=-67(F=-37)

JULY 31, 2007, 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.#0731071013

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T02	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:39 2007 Page 1

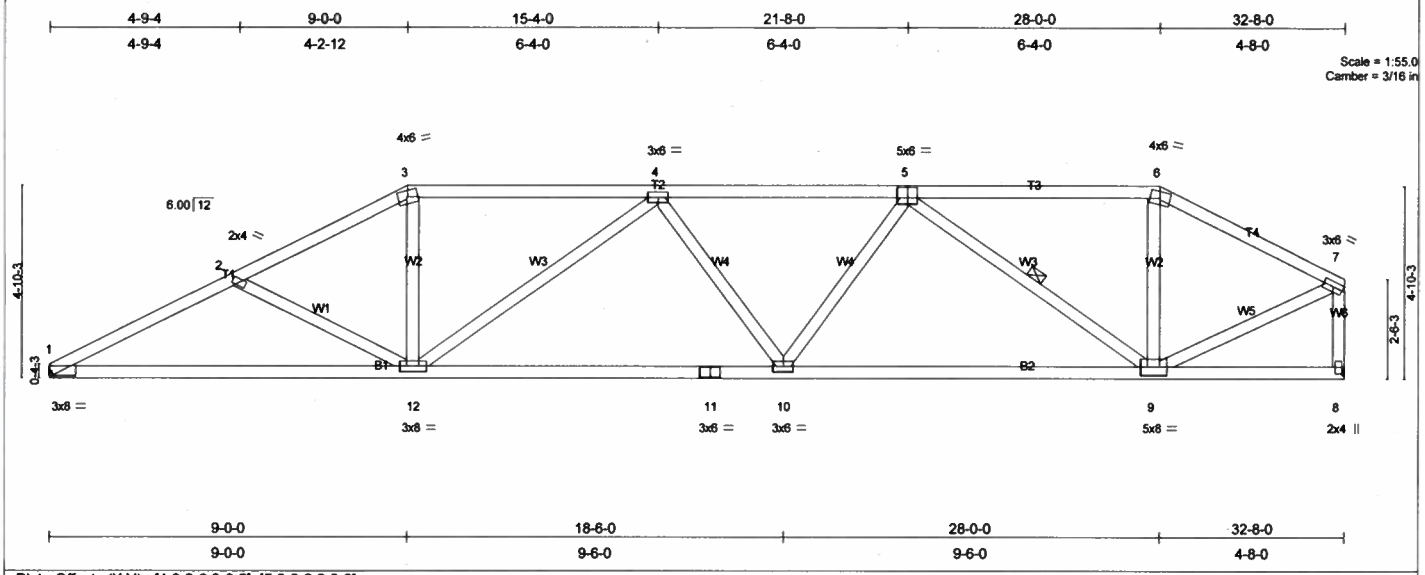


Plate Offsets (X,Y): [1:0-8-0,0-0-6], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.25	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.42	9-10	>929	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.10	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 168 lb	

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

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

REACTIONS (lb/size) 1=1363/Mechanical, 8=1363/Mechanical
Max Horz 1=137(load case 5)
Max Uplift1=-388(load case 5), 8=-397(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2555/761, 2-3=-2301/707, 3-4=-2036/667, 4-5=-2410/808, 5-6=-1261/432, 6-7=-1445/447, 7-8=-1323/402
BOT CHORD 1-12=-734/2247, 11-12=-840/2443, 10-11=-840/2443, 9-10=-753/2179, 8-9=-32/34
WEBS 2-12=-263/238, 3-12=-142/714, 4-12=-599/311, 4-10=-70/112, 5-10=-41/417, 5-9=-1173/474, 6-9=-51/366, 7-9=-414/1353

JOINT STRESS INDEX
1 = 0.78, 2 = 0.34, 3 = 0.69, 4 = 0.41, 5 = 0.49, 6 = 0.64, 7 = 0.81, 8 = 0.48, 9 = 0.62, 10 = 0.41, 11 = 0.82 and 12 = 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 388 lb uplift at joint 1 and 397 lb uplift at joint 8.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071014

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T03	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:42 2007 Page 1

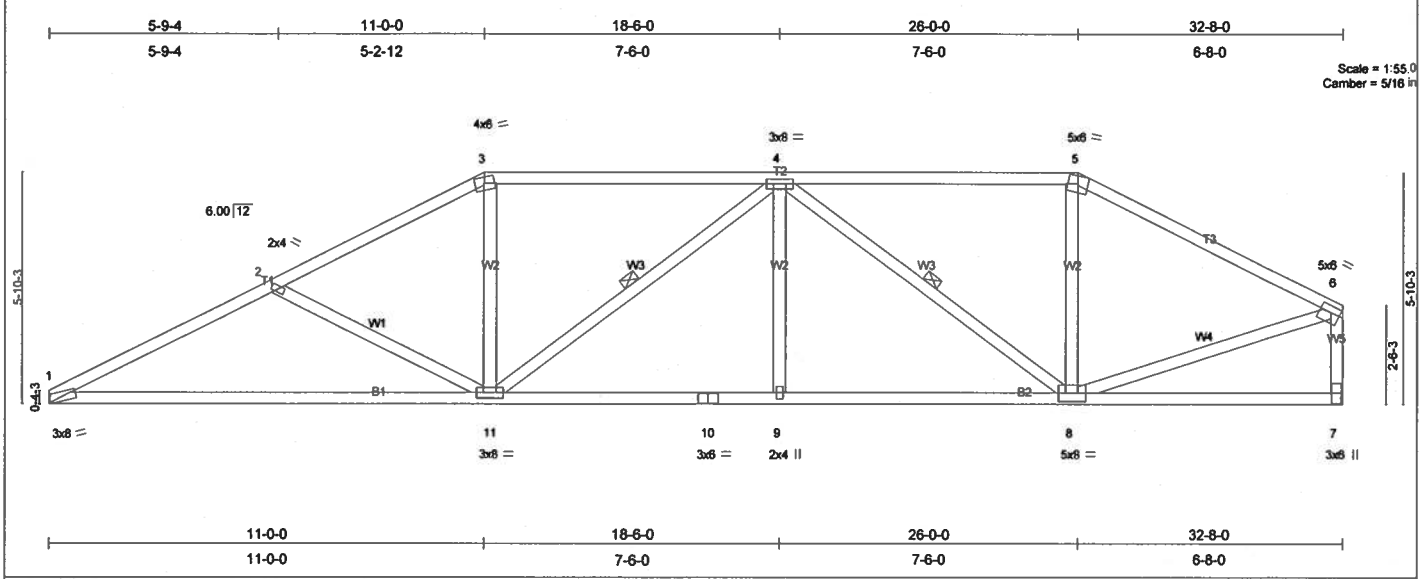


Plate Offsets (X,Y): [1:0-0-10,Edge], [6:0-2-12,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.42	1-11	>925	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.87	Vert(TL)	-0.71	1-11	>546	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(TL)	0.09	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 172 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 3-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.
WEBS 1 Row at midpt 4-11, 4-8

REACTIONS (lb/size) 1=1363/Mechanical, 7=1363/Mechanical
Max Horz 1=151(load case 5)
Max Uplift1=-405(load case 5), 7=-366(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2477/763, 2-3=-2142/640, 3-4=-1873/618, 4-5=-1361/479, 5-6=-1588/478, 6-7=-1267/402
BOT CHORD 1-11=-757/2179, 10-11=-623/2018, 9-10=-623/2018, 8-9=-623/2018, 7-8=-66/112
WEBS 2-11=-365/299, 3-11=-86/590, 4-11=-319/195, 4-9=0/191, 4-8=-887/330, 5-8=-29/359, 6-8=-386/1311

JOINT STRESS INDEX
1 = 0.92, 2 = 0.34, 3 = 0.84, 4 = 0.57, 5 = 0.67, 6 = 0.80, 7 = 0.37, 8 = 0.60, 9 = 0.34, 10 = 0.69 and 11 = 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 405 lb uplift at joint 1 and 366 lb uplift at joint 7.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071015

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T04	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:45 2007 Page 1

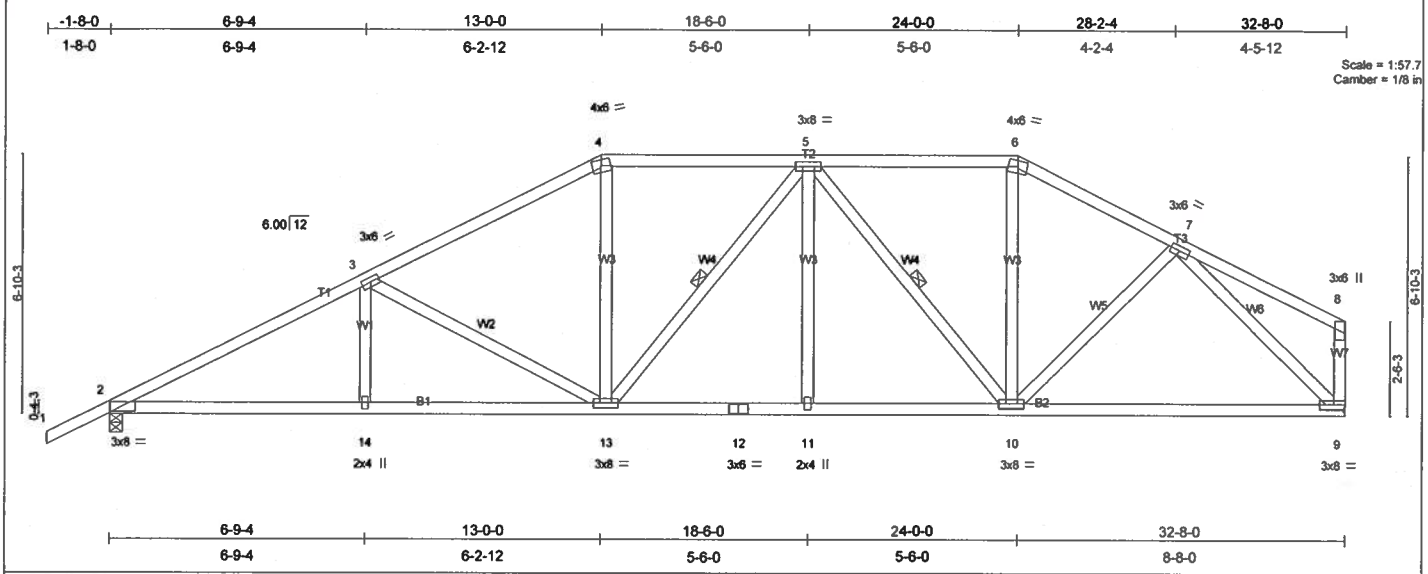


Plate Offsets (X,Y): [2:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.14	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.23	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.09	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 191 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 3-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS (lb/size) 2=1461/0-4-0, 9=1356/Mechanical
Max Horz 2=216(load case 5)
Max Uplift2=-525(load case 5), 9=-383(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-2502/715, 3-4=-1899/578, 4-5=-1639/575, 5-6=-1351/477, 6-7=-1547/494, 7-8=-199/70, 8-9=-191/101
BOT CHORD 2-14=-711/2154, 13-14=-711/2154, 12-13=-439/1666, 11-12=-439/1666, 10-11=-439/1666, 9-10=-315/1119
WEBS 3-14=0/216, 3-13=-601/311, 4-13=-81/498, 5-13=-193/130, 5-11=0/132, 5-10=-564/218, 6-10=-75/392, 7-10=-100/390, 7-9=-1431/445

JOINT STRESS INDEX
2 = 0.79, 3 = 0.41, 4 = 0.70, 5 = 0.57, 6 = 0.56, 7 = 0.42, 8 = 0.34, 9 = 0.59, 10 = 0.57, 11 = 0.34, 12 = 0.63, 13 = 0.57 and 14 = 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 525 lb uplift at joint 2 and 383 lb uplift at joint 9.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071016

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:49 2007 Page 1

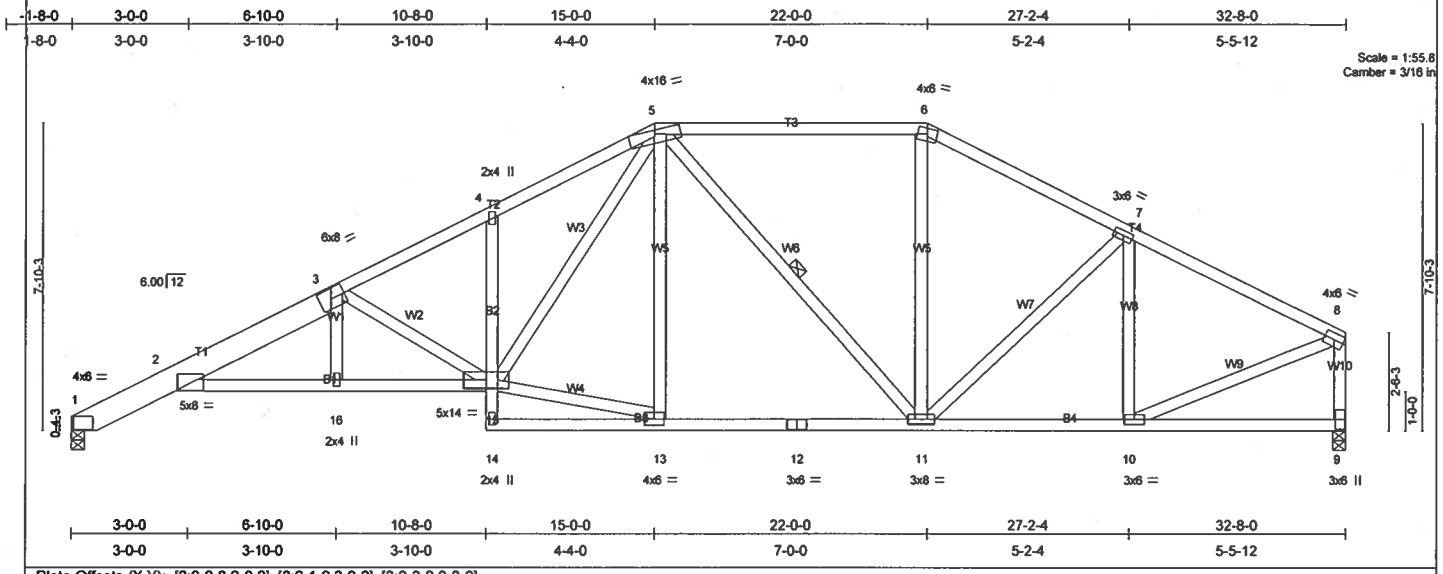


Plate Offsets (X,Y): [2:0-0-8,0-0-2], [3:6-1-9,3-0-3], [3:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.34	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.83	Vert(TL)	-0.55	2-16	>711	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(TL)	0.27	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 209 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T1 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.1D *Except*
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-1-3 oc bracing: 2-16
6-3-14 oc bracing: 15-16.
WEBS 1 Row at midpt 5-11

REACTIONS (lb/size) 1=1312/0-4-0, 9=1357/0-4-0
Max Horz 1=181(load case 5)
Max Uplift1=-430(load case 5), 9=-401(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-498/136, 2-3=-3331/1082, 3-4=-2511/829, 4-5=-2422/915, 5-6=-1319/496, 6-7=-1524/505, 7-8=-1467/443, 8-9=-1270/411
BOT CHORD 2-16=-1131/3161, 15-16=-1133/3178, 14-15=0/58, 4-15=-97/166, 13-14=-60/173, 12-13=-401/1481, 11-12=-401/1481, 10-11=-328/1253, 9-10=-41/91
WEBS 3-16=-25/261, 3-15=-1154/494, 13-15=-352/1345, 5-15=-541/1231, 5-13=-131/120, 5-11=-344/139, 6-11=-73/314, 7-11=-83/197, 7-10=-352/161, 8-10=-315/1263

JOINT STRESS INDEX
2 = 0.77, 3 = 0.51, 3 = 0.00, 4 = 0.56, 5 = 0.57, 6 = 0.79, 7 = 0.41, 8 = 0.73, 9 = 0.31, 10 = 0.72, 11 = 0.57, 12 = 0.64, 13 = 0.61, 14 = 0.77, 15 = 0.65 and 16 = 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 430 lb uplift at joint 1 and 401 lb uplift at joint 9.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071017

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T06	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:52 2007 Page 1

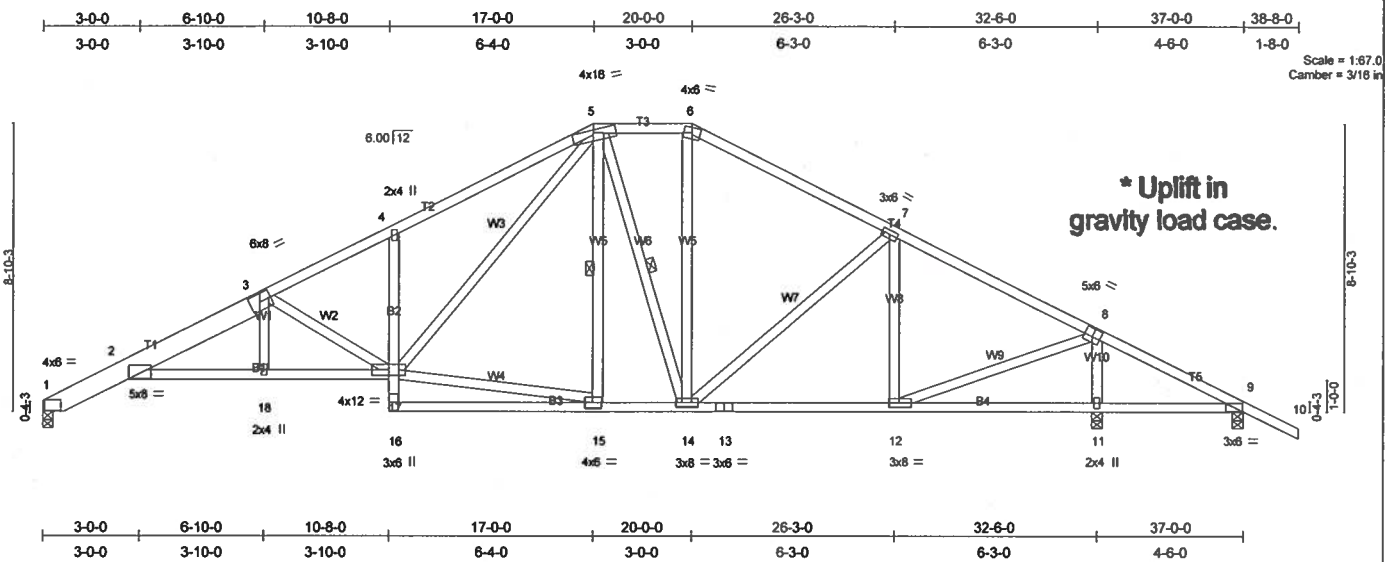


Plate Offsets (X,Y): [2:Edge,0-0-2], [3:6-1-7,3-0-1], [3:0-3-8,0-3-0], [8:0-3-0,0-3-0], [12:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.32	2-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.96	Vert(TL)	-0.53	2-18	>739	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.24	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 238 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T1 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-15, 5-14

REACTIONS (lb/size) 11=2289/0-4-0, 1=1220/0-4-0, 9=-379/0-4-0
Max Horz 1=-169(load case 6)
Max Uplift11=-714(load case 5), 1=-412(load case 5), 9=-482(load case 9)
Max Grav 11=2289(load case 1), 1=1220(load case 1), 9=102(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-462/292, 2-3=-3034/983, 3-4=-2267/762, 4-5=-2267/910, 5-6=-1032/476, 6-7=-1229/467, 7-8=-1050/400, 8-9=-467/1391, 9-10=0/39
BOT CHORD 2-18=-952/2880, 17-18=-953/2896, 16-17=0/105, 4-17=-238/258, 15-16=-19/225, 14-15=-203/1123, 13-14=-121/874, 12-13=-121/874, 11-12=-1099/432, 9-11=-1172/456
WEBS 3-18=-18/246, 3-17=-1065/438, 15-17=-187/909, 5-17=-591/1320, 5-15=-20/59, 5-14=-414/172, 6-14=-112/324, 7-14=-76/318, 7-12=-555/255, 8-12=-581/2108, 8-11=-2106/683

JOINT STRESS INDEX
2 = 0.71, 3 = 0.49, 3 = 0.00, 4 = 0.45, 5 = 0.50, 6 = 0.54, 7 = 0.41, 8 = 0.79, 9 = 0.51, 11 = 0.77, 12 = 0.84, 13 = 0.32, 14 = 0.67, 15 = 0.39, 16 = 0.47, 17 = 0.95 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; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 714 lb uplift at joint 11, 412 lb uplift at joint 1 and 482 lb uplift at joint 9.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071018

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T07	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:51:56 2007 Page 1

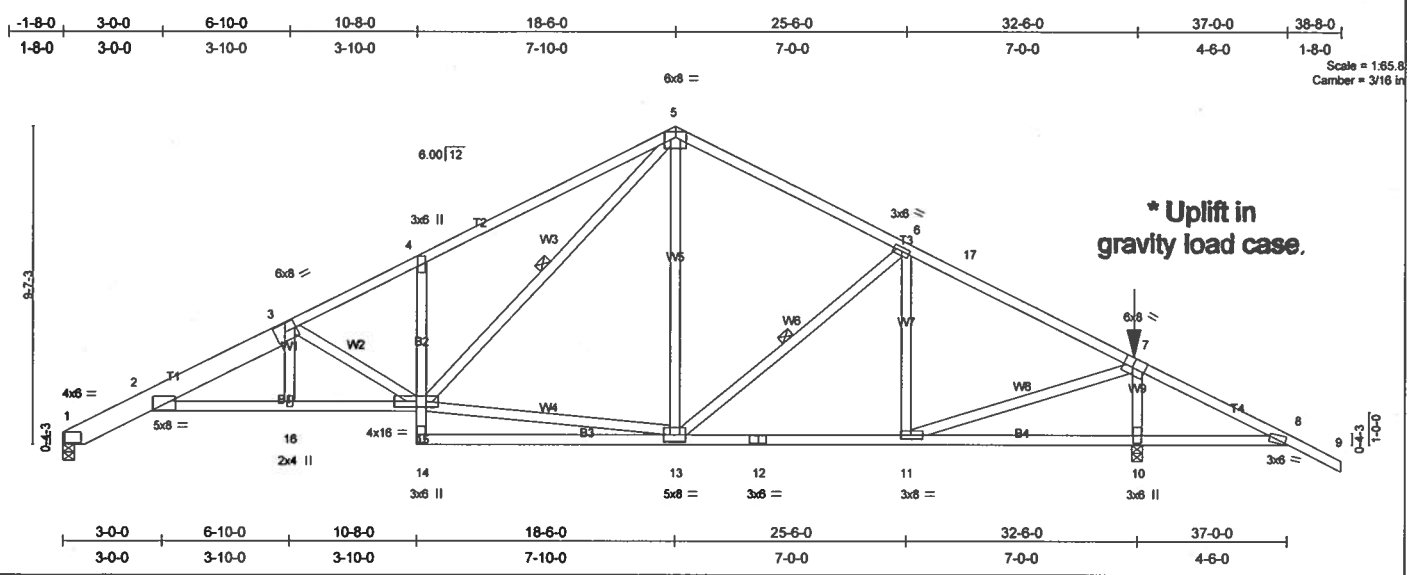


Plate Offsets (X,Y): [2:0-0-8,0-0-2], [3:6-1-11,3-0-3], [3:0-3-8,0-3-0], [7:0-3-8,Edge], [8:0-0-12,0-0-7], [11:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.95	Vert(LL)	-0.35	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.56	2-16	>687	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.27	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 221 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T2 2 X 4 SYP No.2, T1 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D, B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-15, 6-13

REACTIONS (lb/size) 10=2544/0-4-0, 1=1320/0-4-0
Max Horz 1=-180(load case 6)
Max Uplift10=-1263(load case 6), 1=-473(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-500/313, 2-3=-3338/1168, 3-4=-2531/930, 4-5=-2563/1118, 5-6=-1452/618, 6-17=-1417/575, 7-17=-1844/736, 7-8=-517/472, 8-9=0/39
BOT CHORD 2-16=-1136/3162, 15-16=-1139/3180, 14-15=0/118, 4-15=-316/313, 13-14=-20/283, 12-13=-408/1410, 11-12=-408/1410, 10-11=-249/479, 8-10=-324/523
WEBS 3-16=-36/280, 3-15=-1116/462, 13-15=-257/938, 5-15=-707/1467, 5-13=-111/368, 6-13=-361/253, 6-11=-347/278, 7-11=-714/1736, 7-10=-2372/1297

JOINT STRESS INDEX
2 = 0.78, 3 = 0.51, 3 = 0.00, 4 = 0.28, 5 = 0.64, 6 = 0.41, 7 = 0.79, 8 = 0.91, 10 = 0.42, 11 = 0.68, 12 = 0.55, 13 = 0.42, 14 = 0.59, 15 = 0.99 and 16 = 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; cantilever 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1263 lb uplift at joint 10 and 473 lb uplift at joint 1.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 85 lb up at 32-4-0 on top 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: 1-2=-65, 2-5=-54, 5-17=-54, 7-9=-54, 2-15=-30, 8-14=-30
Concentrated Loads (lb)
Vert: 7=-110(B)
Trapezoidal Loads (plf)
Vert: 17=-141(B=-87)-to-7=-195(B=-141)

JULY 31, 2007, 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.#0731071019

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T08	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:00 2007 Page 1

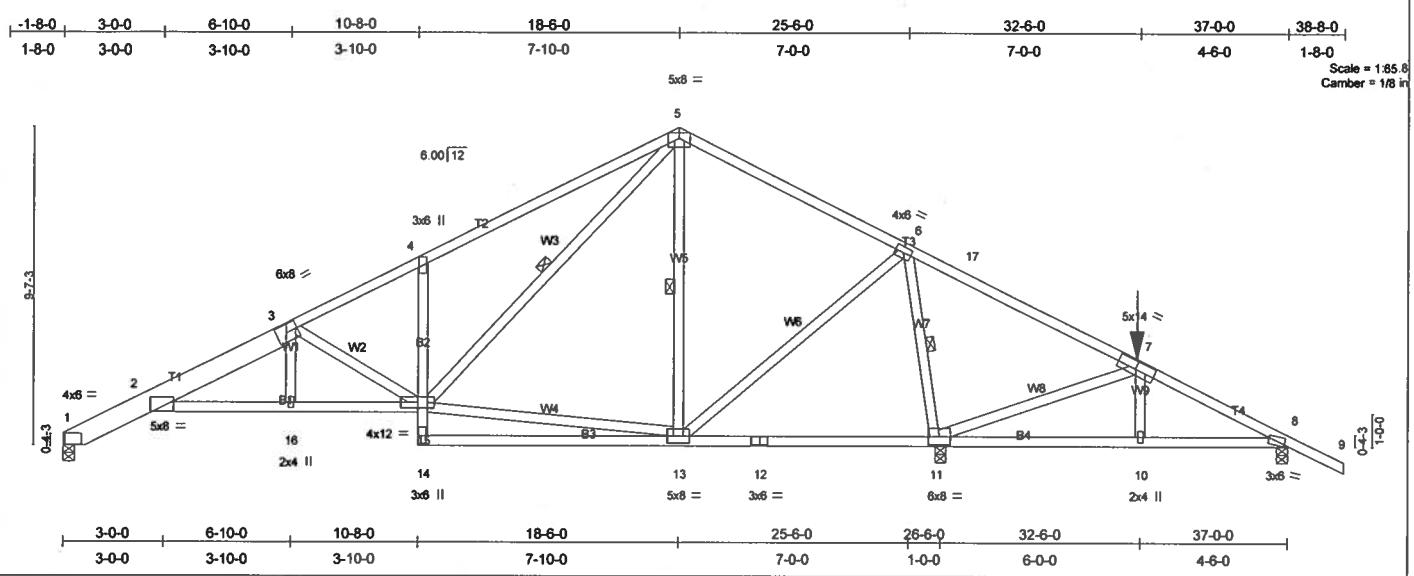


Plate Offsets (X,Y): [2:0-4-0,0-1-10], [3:6-1-11,3-0-4], [3:0-3-8,0-3-0], [7:0-7-0,0-3-0], [8:0-1-4,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	1.00	Vert(LL)	-0.19	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.30	2-16	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.98	Horz(TL)	0.12	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 220 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T1 2 X 8 SYP 2400F 2.0E, T4 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D *Except*
B2 2 X 4 SYP No.3, B3 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-15, 5-13, 6-11

REACTIONS (lb/size) 11=2991/0-4-0, 1=765/0-4-0, 8=108/0-4-0
Max Horz 1=-180(load case 5)
Max Uplift11=-1314(load case 6), 1=-248(load case 6), 8=-392(load case 5)
Max Grav 11=2991(load case 1), 1=765(load case 1), 8=354(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-287/252, 2-3=-1654/485, 3-4=-1047/328, 4-5=-1111/530, 5-6=-229/172, 6-17=-671/1690, 7-17=-621/1511, 7-8=-358/507, 8-9=0/39
BOT CHORD 2-16=-488/1564, 15-16=-489/1578, 14-15=0/112, 4-15=-359/334, 13-14=0/155, 12-13=-1012/561, 11-12=-1012/561, 10-11=-411/315, 8-10=-415/319
WEBS 3-16=-8/211, 3-15=-785/327, 13-15=-85/239, 5-15=-589/1175, 5-13=-699/362, 6-13=-505/1468, 7-11=-1295/1048, 7-10=-183/118, 6-11=-2320/974

JOINT STRESS INDEX
2 = 0.62, 3 = 0.49, 3 = 0.00, 4 = 0.30, 5 = 0.75, 6 = 0.66, 7 = 0.96, 8 = 0.89, 10 = 0.34, 11 = 0.32, 12 = 0.22, 13 = 0.69, 14 = 0.46, 15 = 0.83 and 16 = 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; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1314 lb uplift at joint 11, 248 lb uplift at joint 1 and 392 lb uplift at joint 8.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 85 lb up at 32-4-0 on top 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: 1-2=-65, 2-5=-54, 5-17=-54, 7-9=-54, 2-15=-30, 8-14=-30
Concentrated Loads (lb)
Vert: 7=-110(B)
Trapezoidal Loads (plf)
Vert: 17=-141(B=-87)-to-7=-197(B=-143)

JULY 31, 2007, TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0731071020

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T10	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:03 2007 Page 1

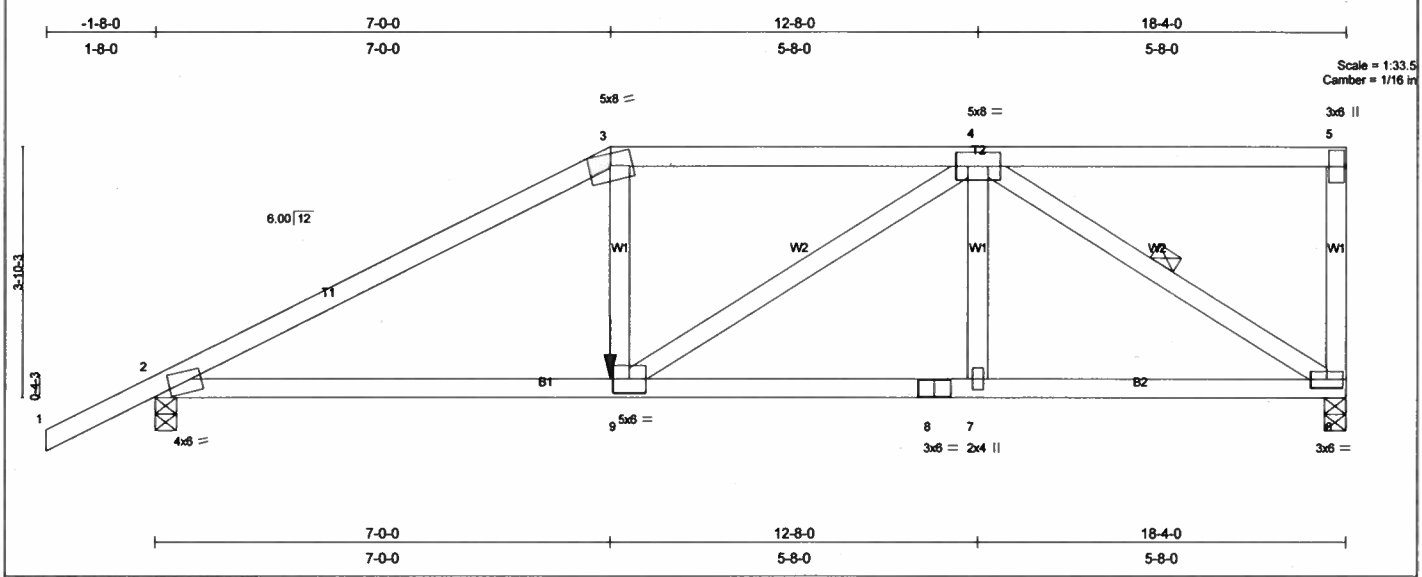

Plate Offsets (X,Y): [2:0-3-1,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.79	Vert(LL)	-0.12	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.19	7-9	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.55	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 92 lb	

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

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

REACTIONS (lb/size) 6=1715/0-4-0, 2=1528/0-4-0
Max Horz 2=216(load case 4)
Max Uplift6=-768(load case 3), 2=-676(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-2651/1076, 3-4=-2316/1007, 4-5=-104/44, 5-6=-304/235
BOT CHORD 2-9=-1000/2288, 8-9=-905/2013, 7-8=-905/2013, 6-7=-905/2013
WEBS 3-9=-187/651, 4-9=-214/359, 4-7=0/357, 4-6=-2271/1024

JOINT STRESS INDEX
2 = 0.87, 3 = 0.70, 4 = 0.52, 5 = 0.62, 6 = 0.85, 7 = 0.34, 8 = 0.75 and 9 = 0.23

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 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 768 lb uplift at joint 6 and 676 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-117(F=-63), 2-9=-30, 6-9=-65(F=-35)
Concentrated Loads (lb)
Vert: 9=-539(F)

JULY 31, 2007, TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0731071021

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T11	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:06 2007 Page 1

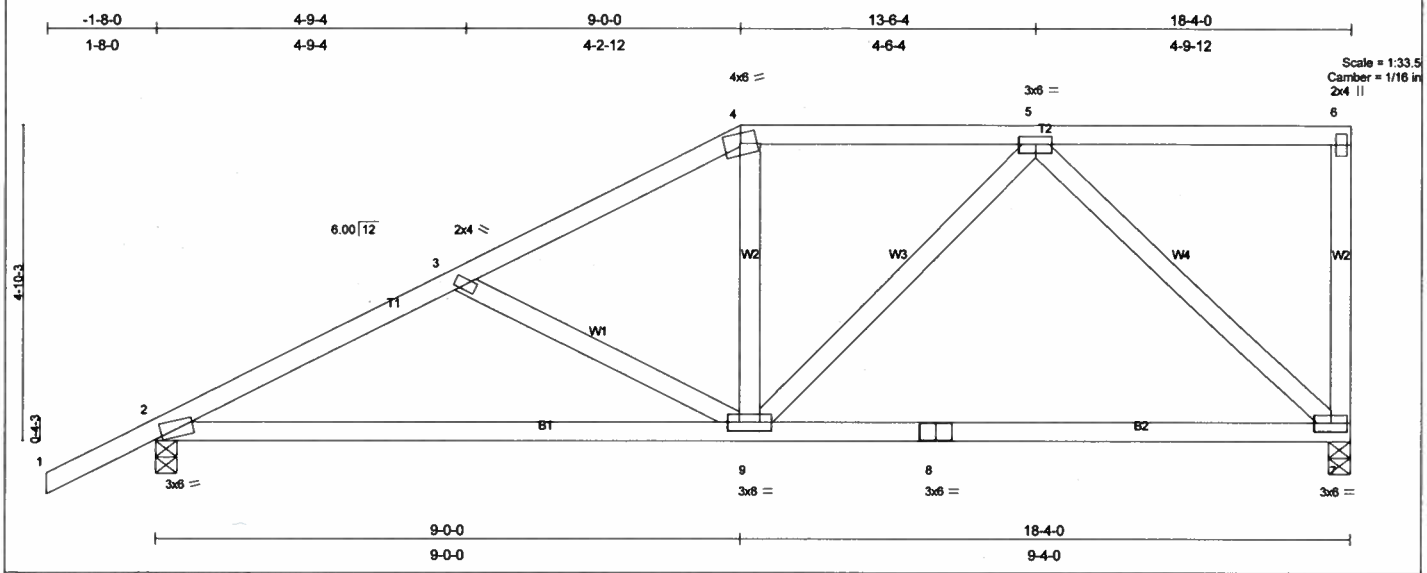


Plate Offsets (X,Y): [2:0-1-5,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.12	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.21	2-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 97 lb	

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

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

REACTIONS (lb/size) 7=752/0-4-0, 2=861/0-4-0
Max Horz 2=261(load case 5)
Max Uplift7=-262(load case 4), 2=-336(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1208/353, 3-4=-950/242, 4-5=-805/258, 5-6=-49/2, 6-7=-124/77
BOT CHORD 2-9=-454/1041, 8-9=-215/564, 7-8=-215/564
WEBS 3-9=-272/219, 4-9=0/168, 5-9=-103/348, 5-7=-720/298

JOINT STRESS INDEX
2 = 0.79, 3 = 0.34, 4 = 0.36, 5 = 0.37, 6 = 0.86, 7 = 0.67, 8 = 0.32 and 9 = 0.57

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 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 262 lb uplift at joint 7 and 336 lb uplift at joint 2.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071022

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T12	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:09 2007 Page 1

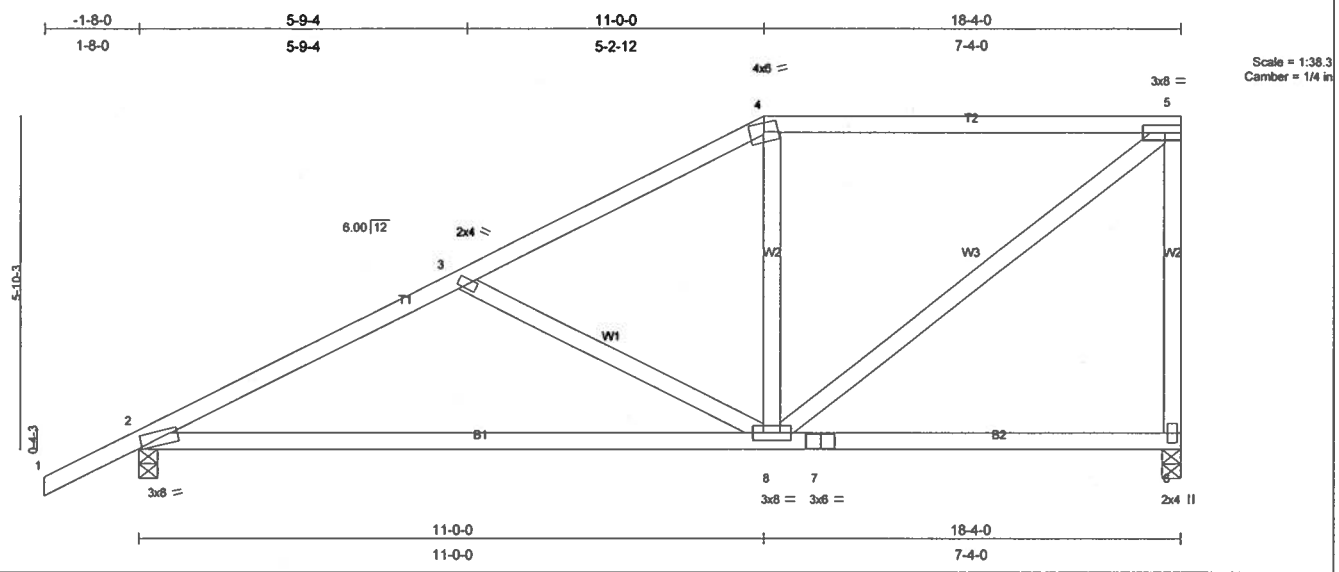


Plate Offsets (X,Y): [2:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.91	Vert(LL)	-0.32	2-8	>681	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.55	2-8	>395	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 97 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-11 oc bracing.

REACTIONS (lb/size) 6=752/0-4-0, 2=861/0-4-0
Max Horz 2=307(load case 5)
Max Uplift6=-250(load case 4), 2=-336(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1124/342, 3-4=-799/202, 4-5=-658/233, 5-6=-675/260
BOT CHORD 2-8=-480/968, 7-8=-22/39, 6-7=-22/39
WEBS 3-8=-348/275, 4-8=-23/138, 5-8=-282/788

JOINT STRESS INDEX
2 = 0.88, 3 = 0.34, 4 = 0.75, 5 = 0.59, 6 = 0.71, 7 = 0.62 and 8 = 0.76

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 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 250 lb uplift at joint 6 and 336 lb uplift at joint 2.

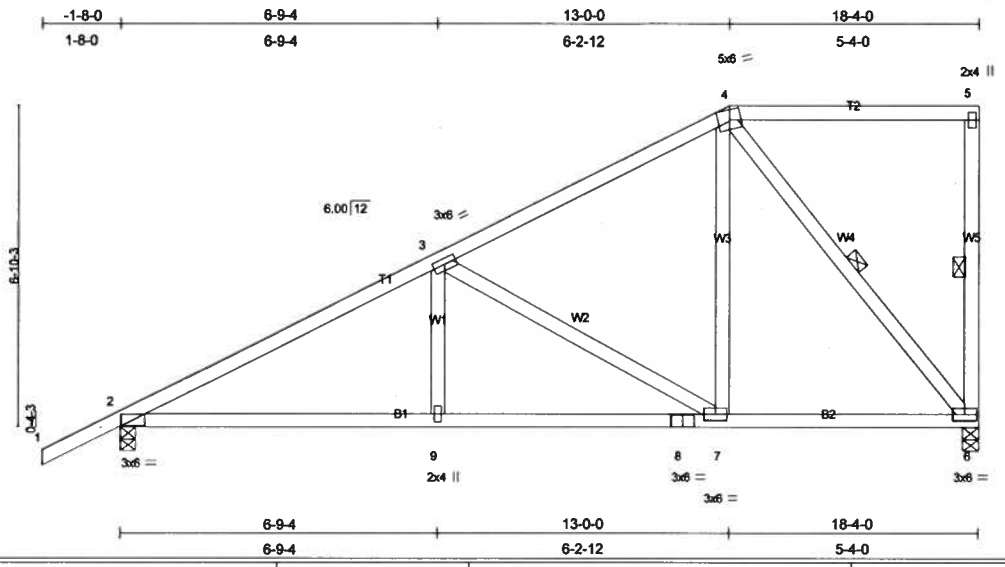
LOAD CASE(S) Standard

JULY 31, 2007,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.#0731071023

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T13	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:13 2007 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	0.27	Vert(LL)	-0.08	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.13	2-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 105 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.
WEBS 1 Row at midpt 5-6, 4-6

REACTIONS (lb/size) 6=752/0-4-0, 2=861/0-4-0
Max Horz 2=354(load case 5)
Max Uplift6=-272(load case 5), 2=-330(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1204/292, 3-4=-601/156, 4-5=-17/7, 5-6=-122/93
BOT CHORD 2-9=-473/1003, 8-9=-473/1003, 7-8=-473/1003, 6-7=-194/456
WEBS 3-9=0/217, 3-7=-615/317, 4-7=-117/470, 4-6=-708/310

JOINT STRESS INDEX
2 = 0.55, 3 = 0.41, 4 = 0.39, 5 = 0.61, 6 = 0.40, 7 = 0.35, 8 = 0.36 and 9 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C 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 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 272 lb uplift at joint 6 and 330 lb uplift at joint 2.

LOAD CASE(S) Standard

JULY 31, 2007, TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0731071024

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T14	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:17 2007 Page 1

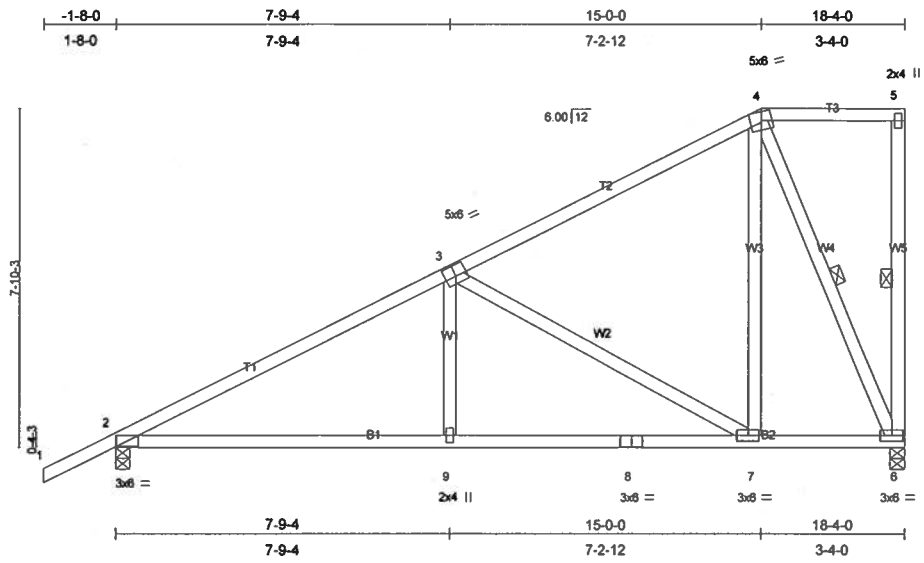

Plate Offsets (X,Y): [3:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.13	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.21	2-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 110 lb	

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

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

REACTIONS (lb/size) 6=752/0-4-0, 2=861/0-4-0
Max Horz 2=400(load case 5)
Max Uplift6=-312(load case 5), 2=-318(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1155/249, 3-4=-431/83, 4-5=-2/2, 5-6=-38/51
BOT CHORD 2-9=-468/951, 8-9=-469/946, 7-8=-469/946, 6-7=-136/290
WEBS 3-9=0/263, 3-7=-742/379, 4-7=-147/525, 4-6=-741/352

JOINT STRESS INDEX
2 = 0.53, 3 = 0.75, 4 = 0.40, 5 = 0.34, 6 = 0.48, 7 = 0.35, 8 = 0.45 and 9 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C 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 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 312 lb uplift at joint 6 and 318 lb uplift at joint 2.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071025

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T15	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:20 2007 Page 1

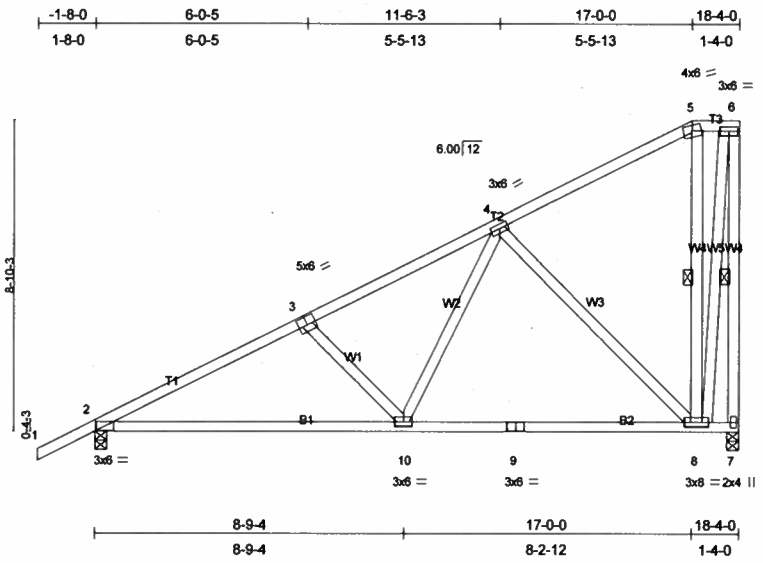

Plate Offsets (X,Y): [3:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	-0.13	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.22	2-10	>969	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-14 oc bracing.
WEBS 1 Row at midpt 6-7, 5-8

REACTIONS (lb/size) 7=752/0-4-0, 2=861/0-4-0
Max Horz 2=446(load case 5)
Max Uplift7=-357(load case 5), 2=-301(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1169/251, 3-4=-958/203, 4-5=-194/0, 5-6=-108/46, 6-7=-797/298
BOT CHORD 2-10=-535/996, 9-10=-301/558, 8-9=-301/558, 7-8=-4/8
WEBS 3-10=-294/252, 4-10=-148/554, 4-8=-643/361, 5-8=-167/179, 6-8=-350/823

JOINT STRESS INDEX
2 = 0.70, 3 = 0.39, 4 = 0.41, 5 = 0.42, 6 = 0.55, 7 = 0.46, 8 = 0.90, 9 = 0.35 and 10 = 0.47

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C 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 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 357 lb uplift at joint 7 and 301 lb uplift at joint 2.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071026

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T16	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:23 2007 Page 1

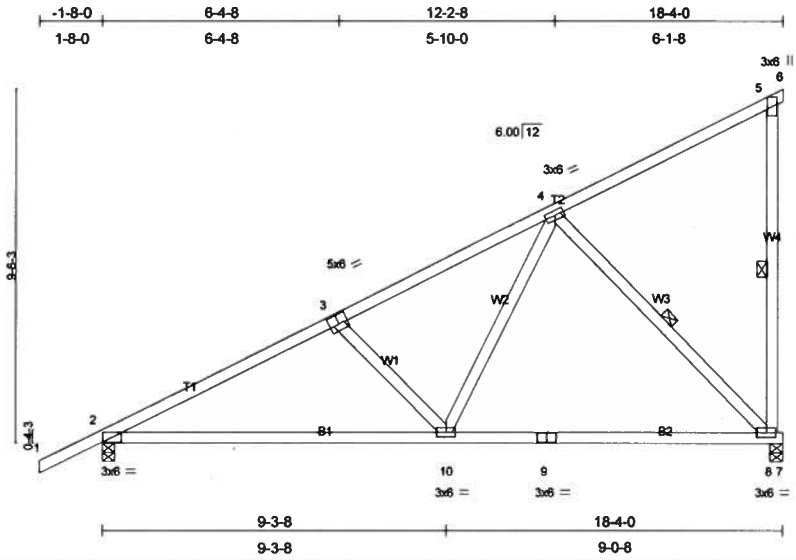

Plate Offsets (X,Y): [3:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.16	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.27	2-10	>797	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 102 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 5-6-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-13 oc bracing.
WEBS 1 Row at midpt 5-8, 4-8

REACTIONS (lb/size) 8=759/0-4-0, 2=855/0-4-0
Max Horz 2=475(load case 5)
Max Uplift8=-393(load case 5), 2=-284(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1133/206, 3-4=-908/154, 4-5=-99/42, 5-6=-2/0, 5-8=-139/134
BOT CHORD 2-10=-521/963, 9-10=-273/492, 8-9=-273/492, 7-8=0/0
WEBS 3-10=-317/269, 4-10=-151/593, 4-8=-684/388

JOINT STRESS INDEX
2 = 0.73, 3 = 0.43, 4 = 0.41, 5 = 0.29, 8 = 0.50, 9 = 0.26 and 10 = 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 393 lb uplift at joint 8 and 284 lb uplift at joint 2.

LOAD CASE(S) Standard

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Dwg.#0731071027

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T17	COMMON	2	1	Job Reference (optional)

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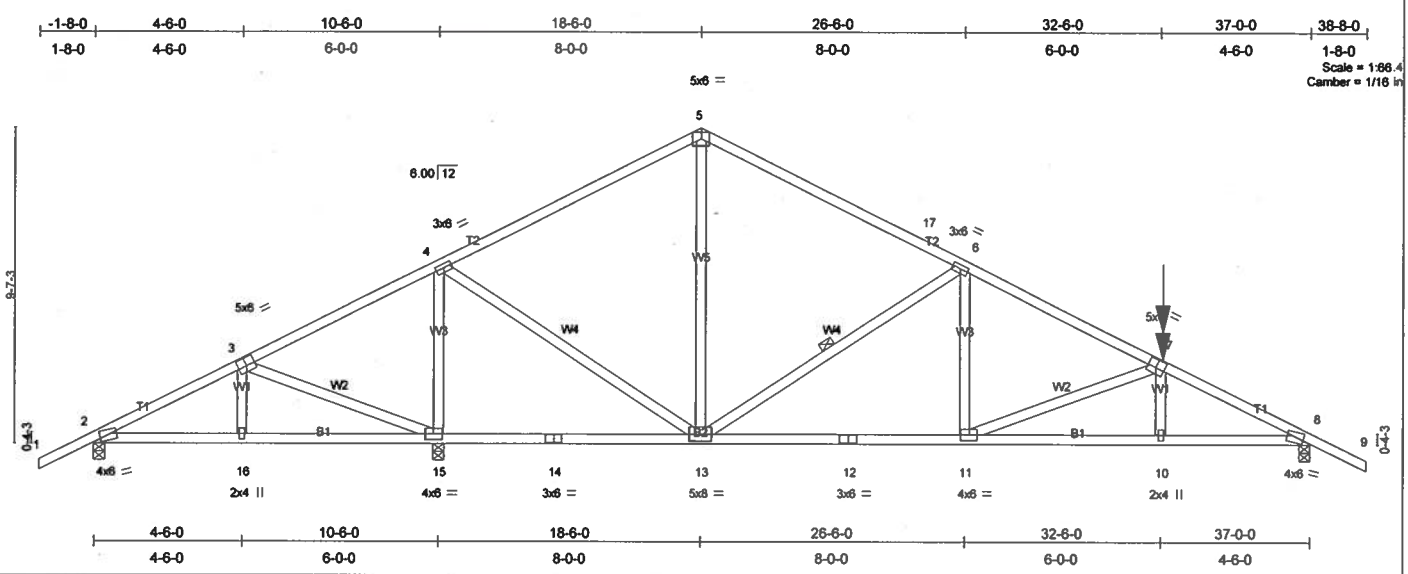

Plate Offsets (X,Y): [2:0-2-12,0-0-11], [3:0-3-0,0-3-0], [4:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-3-0,0-3-0], [8:0-2-12,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	-0.14	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.23	11-13	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(TL)	-0.05	15	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 202 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-13

REACTIONS (lb/size) 8=1463/0-4-0, 15=2082/0-4-0, 2=216/0-4-0
Max Horz 8=-161(load case 5)
Max Uplift8=-685(load case 5), 15=-839(load case 6), 2=-274(load case 6)
Max Grav 8=1463(load case 1), 15=2082(load case 1), 2=288(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-94/307, 3-4=-271/711, 4-5=-701/321, 5-17=-608/320, 6-17=-707/293, 6-7=-1715/677, 7-8=-2608/1084, 8-9=0/39
BOT CHORD 2-16=-254/52, 15-16=-259/56, 14-15=-563/401, 13-14=-563/401, 12-13=-527/1432, 11-12=-527/1432, 10-11=-1013/2263, 8-10=-1011/2268
WEBS 3-16=-202/150, 3-15=-497/438, 4-15=-1677/678, 4-13=-474/1327, 5-13=-11/191, 6-13=-1088/602, 6-11=-156/552, 7-11=-894/522, 7-10=0/134

JOINT STRESS INDEX
2 = 0.85, 3 = 0.47, 4 = 0.87, 5 = 0.67, 6 = 0.87, 7 = 0.47, 8 = 0.85, 10 = 0.34, 11 = 0.38, 12 = 0.66, 13 = 0.61, 14 = 0.66, 15 = 0.38 and 16 = 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; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 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 685 lb uplift at joint 8, 839 lb uplift at joint 15 and 274 lb uplift at joint 2.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 280 lb down and 211 lb up at 32-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-17=-54, 7-9=-54, 2-8=-30
Concentrated Loads (lb)
Vert: 7=-280(B)
Trapezoidal Loads (plf)
Vert: 17=-54-to-7=-108(B=-54)

JULY 31, 2007, TRUSS DESIGN ENGINEER:
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Dwg.#0731071028

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T18	COMMON	2	1	Job Reference (optional)

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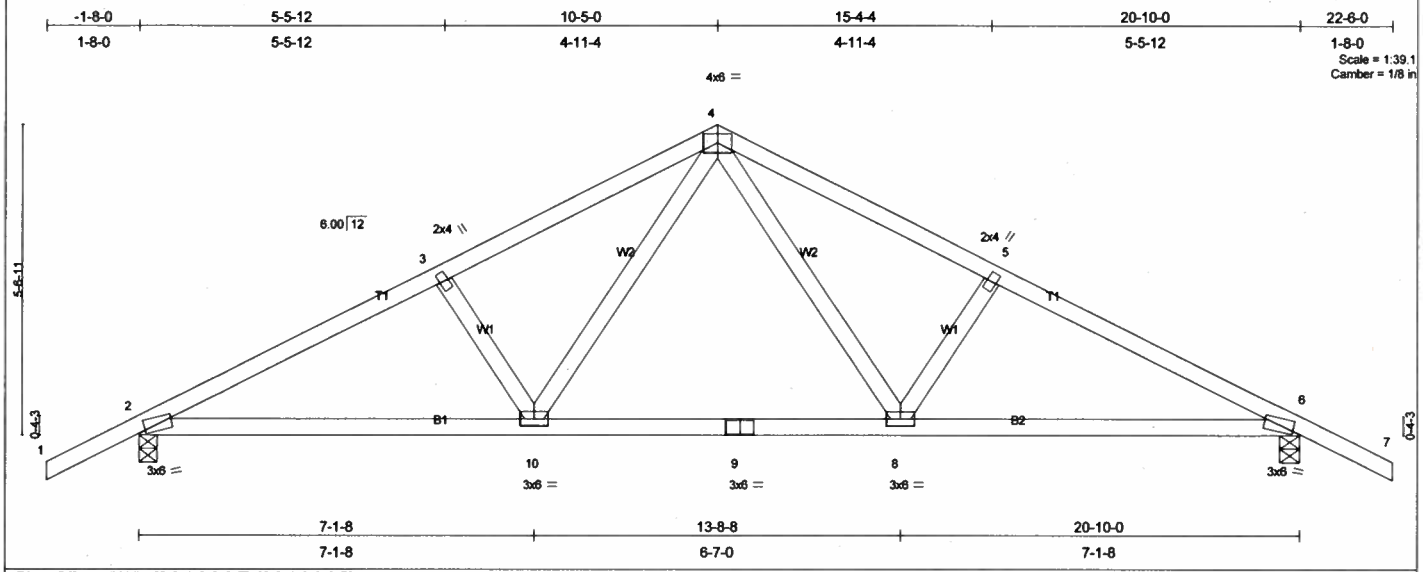

Plate Offsets (X,Y): [2:0-1-9,0-0-7], [6:0-1-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.29	8-10	>861	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 98 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 4-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.

REACTIONS (lb/size) 2=1125/0-4-0, 6=1125/0-4-0
Max Horz 2=105(load case 5)
Max Uplift2=-449(load case 5), 6=-449(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1824/586, 3-4=-1674/586, 4-5=-1674/586, 5-6=-1824/586, 6-7=0/39
BOT CHORD 2-10=-497/1561, 9-10=-256/1077, 8-9=-256/1077, 6-8=-410/1561
WEBS 3-10=-237/211, 4-10=-242/706, 4-8=-242/706, 5-8=-237/212

JOINT STRESS INDEX
2 = 0.80, 3 = 0.34, 4 = 0.57, 5 = 0.34, 6 = 0.80, 8 = 0.54, 9 = 0.79 and 10 = 0.54

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 449 lb uplift at joint 6.
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: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=-50), 6-8=-30

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Dwg.#0731071029

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T18G	GABLE	1	1	Job Reference (optional)

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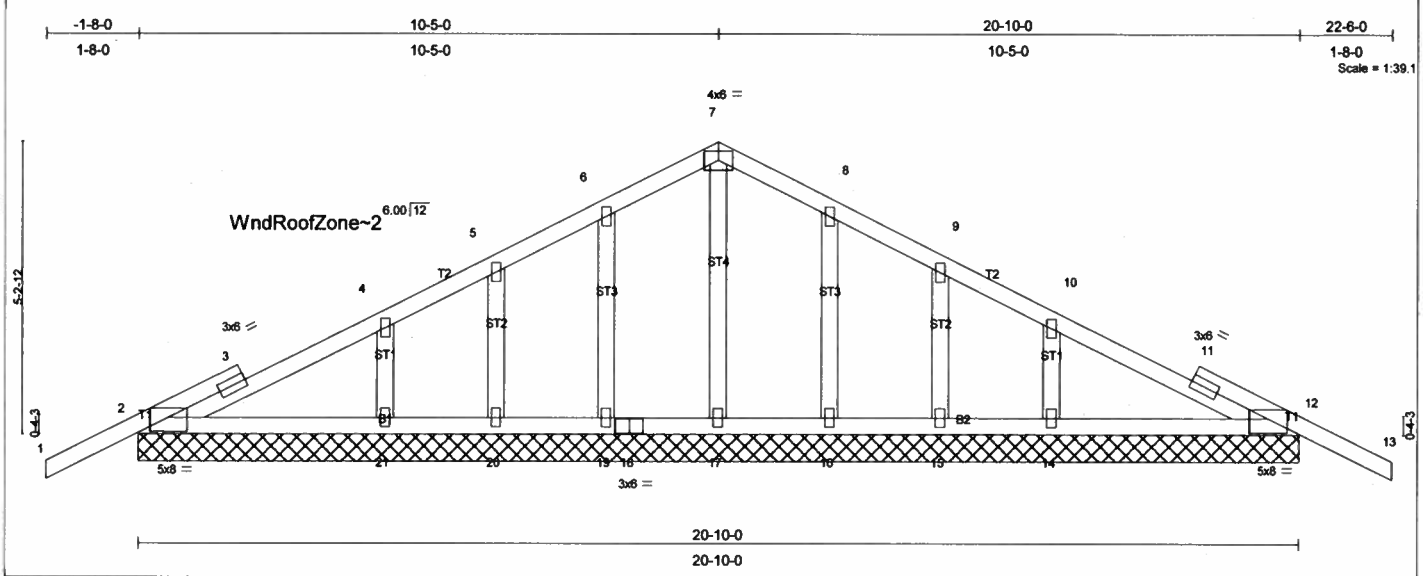

Plate Offsets (X,Y): [2:0-4-0,0-3-1], [12:0-4-0,0-3-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.00	12-13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.00	12-13	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 107 lb	

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

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

REACTIONS (lb/size) 2=364/20-10-0, 12=364/20-10-0, 17=291/20-10-0, 19=262/20-10-0, 20=141/20-10-0, 21=452/20-10-0, 16=262/20-10-0, 15=141/20-10-0, 14=452/20-10-0
Max Horz 2=100(load case 5)
Max Uplift2=-187(load case 5), 12=-203(load case 6), 17=-5(load case 5), 19=-115(load case 5), 20=-89(load case 5), 21=-174(load case 5), 16=-114(load case 6), 15=-87(load case 6), 14=-178(load case 6)
Max Grav 2=369(load case 9), 12=369(load case 10), 17=291(load case 1), 19=265(load case 9), 20=141(load case 1), 21=454(load case 9), 16=265(load case 10), 15=141(load case 1), 14=454(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/62, 2-3=-98/72, 3-4=-101/165, 4-5=-19/100, 5-6=0/126, 6-7=0/152, 7-8=0/152, 8-9=0/126, 9-10=0/100, 10-11=-60/165, 11-12=-58/72, 12-13=-3/62
BOT CHORD 2-21=-73/153, 20-21=-73/153, 19-20=-73/153, 18-19=-73/153, 17-18=-73/153, 16-17=-73/153, 15-16=-73/153, 14-15=-73/153, 12-14=-73/153
WEBS 7-17=-236/17, 6-19=-196/128, 5-20=-115/104, 4-21=-321/197, 8-16=-196/127, 9-15=-115/104, 10-14=-321/197

JOINT STRESS INDEX
2 = 0.80, 3 = 0.00, 3 = 0.30, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.25, 8 = 0.34, 9 = 0.34, 10 = 0.34, 11 = 0.00, 11 = 0.30, 12 = 0.80, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.15, 19 = 0.34, 20 = 0.34 and 21 = 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 Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2, 203 lb uplift at joint 12, 5 lb uplift at joint 17, 115 lb uplift at joint 19, 89 lb uplift at joint 20, 174 lb uplift at joint 21, 114 lb uplift at joint 16, 87 lb uplift at joint 15 and 178 lb uplift at joint 14.
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: 1-7=-87(F=-33), 7-13=-87(F=-33), 2-12=-30

JULY 31, 2007, TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0731071030

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T19	COMMON	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:37 2007 Page 1

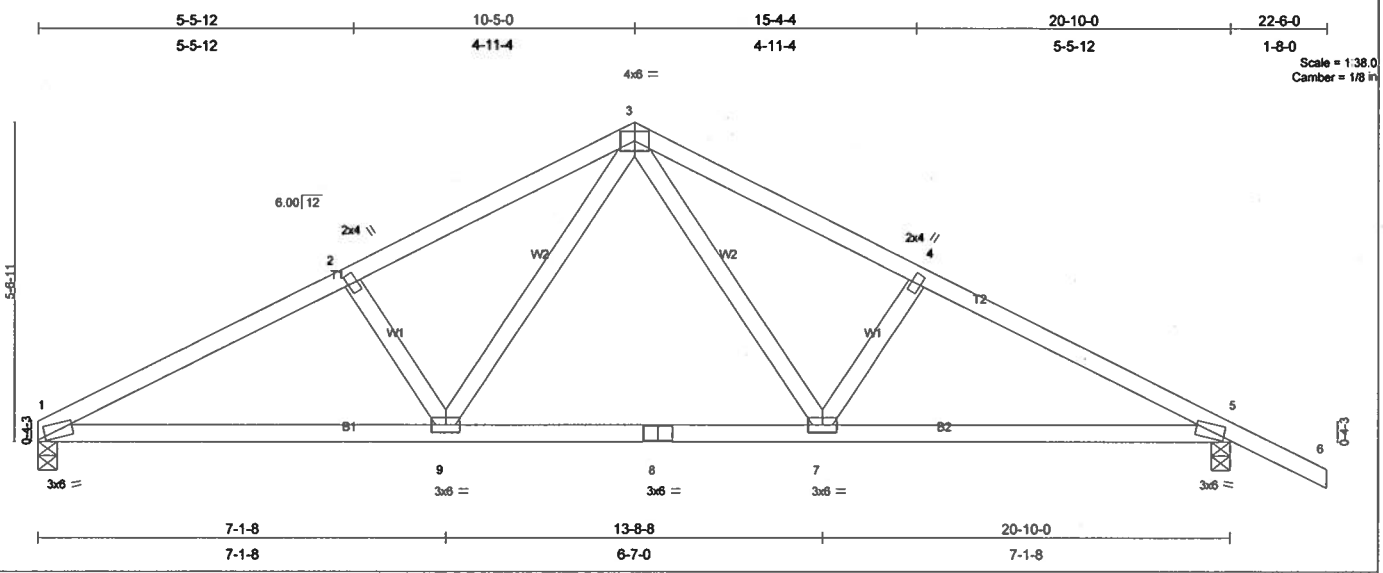

Plate Offsets (X,Y): [1:0-1-8,0-0-7], [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-1-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.18	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.28	7-9	>873	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(TL)	0.05	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 95 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.
BOT CHORD Rigid ceiling directly applied or 8-5-11 oc bracing.

REACTIONS (lb/size) 1=1021/0-4-0, 5=1129/0-4-0
Max Horz 1=-125(load case 6)
Max Uplift1=-340(load case 5), 5=-450(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1837/620, 2-3=-1699/618, 3-4=-1682/589, 4-5=-1832/590, 5-6=0/39
BOT CHORD 1-9=-533/1589, 8-9=-267/1085, 7-8=-267/1085, 5-7=-420/1568
WEBS 2-9=-250/228, 3-9=-273/730, 3-7=-241/705, 4-7=-237/212

JOINT STRESS INDEX
1 = 0.79, 2 = 0.35, 3 = 0.57, 4 = 0.35, 5 = 0.79, 7 = 0.56, 8 = 0.78 and 9 = 0.56

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 340 lb uplift at joint 1 and 450 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: 1-3=-54, 3-6=-54, 1-9=-30, 7-9=-80(F=-50), 5-7=-30

JULY 31, 2007, TRUSS DESIGN ENGINEER:
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Dwg.#0731071031

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T20	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:40 2007 Page 1

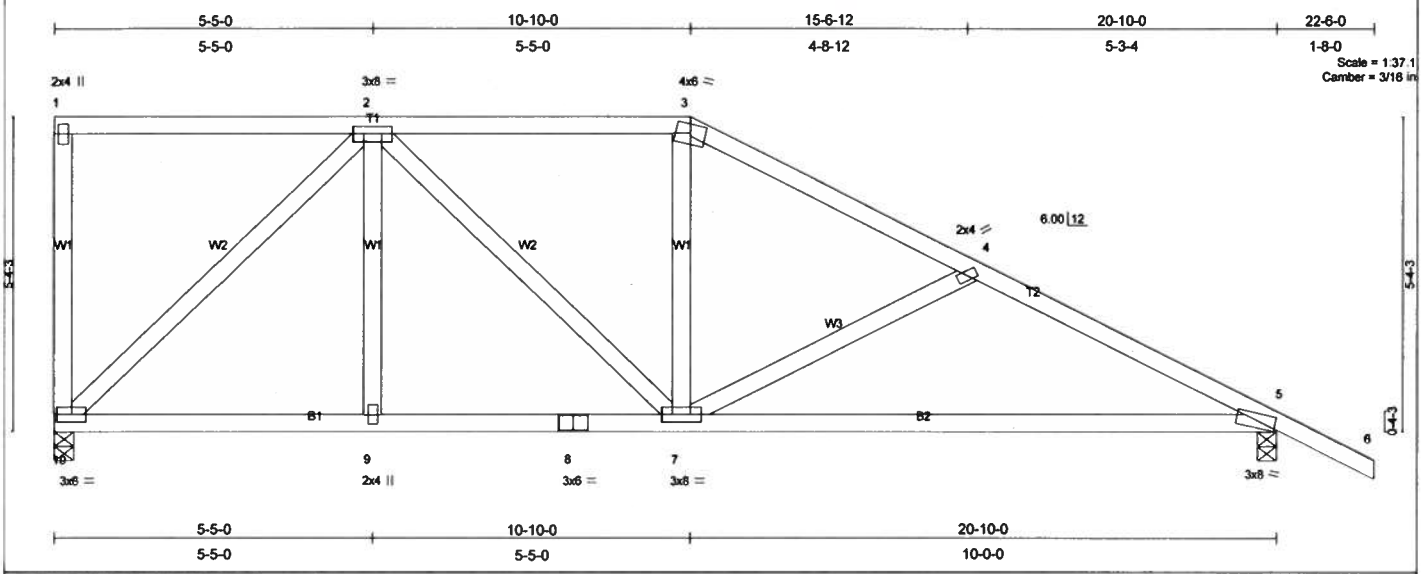


Plate Offsets (X,Y): [5:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.23	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.39	5-7	>625	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 116 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 4-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 10=857/0-4-0, 5=965/0-4-0
Max Horz 10=-284(load case 6)
Max Uplift10=-299(load case 3), 5=-366(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-130/87, 1-2=-29/9, 2-3=-926/306, 3-4=-1091/290, 4-5=-1388/417, 5-6=0/39
BOT CHORD 9-10=-103/697, 8-9=-103/697, 7-8=-103/697, 5-7=-245/1203
WEBS 2-10=-926/325, 2-9=0/116, 2-7=-135/317, 3-7=0/195, 4-7=-318/250

JOINT STRESS INDEX
1 = 0.78, 2 = 0.57, 3 = 0.46, 4 = 0.34, 5 = 0.81, 7 = 0.57, 8 = 0.34, 9 = 0.34 and 10 = 0.38

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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 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 299 lb uplift at joint 10 and 366 lb uplift at joint 5.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071032

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T21	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:43 2007 Page 1

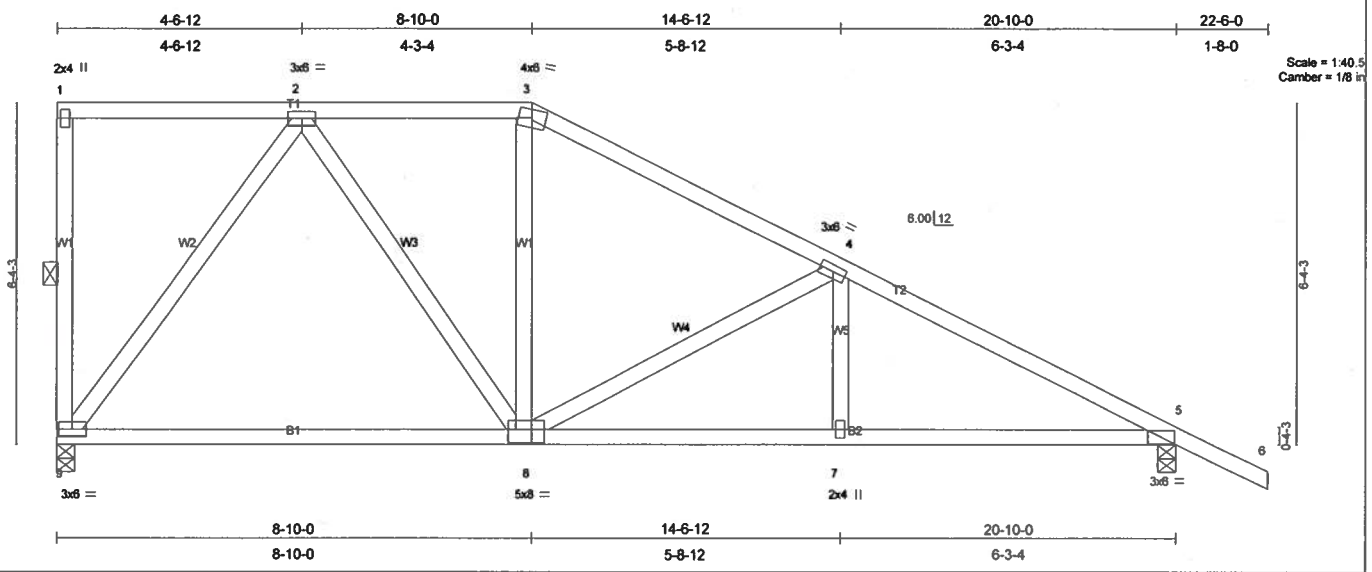


Plate Offsets (X,Y): [8:0-2-12,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.23	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 119 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 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-9

REACTIONS (lb/size) 9=857/0-4-0, 5=965/0-4-0
Max Horz 9=-330(load case 6)
Max Uplift9=-288(load case 3), 5=-367(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-120/72, 1-2=-35/0, 2-3=-753/279, 3-4=-917/254, 4-5=-1447/383, 5-6=0/39
BOT CHORD 8-9=-21/480, 7-8=-206/1222, 5-7=-206/1222
WEBS 2-9=-756/298, 2-8=-181/473, 3-8=0/109, 4-8=-537/294, 4-7=0/172

JOINT STRESS INDEX
1 = 0.80, 2 = 0.42, 3 = 0.45, 4 = 0.41, 5 = 0.65, 7 = 0.34, 8 = 0.89 and 9 = 0.64

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 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 288 lb uplift at joint 9 and 367 lb uplift at joint 5.

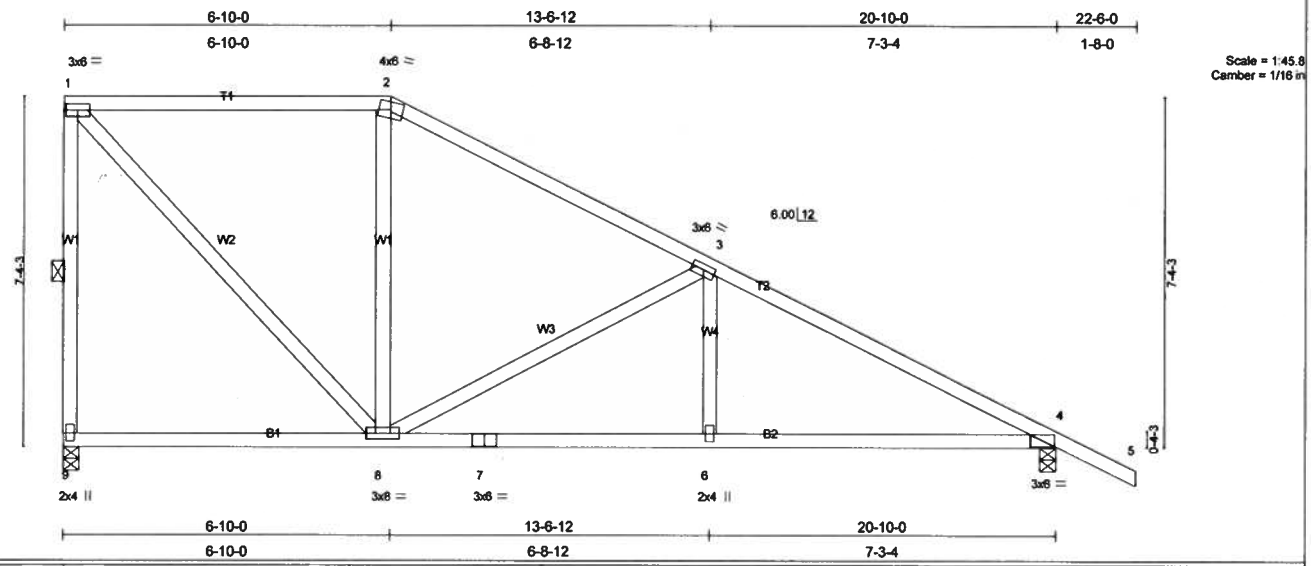
LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071033

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T22	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:46 2007 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	0.44	Vert(LL)	-0.11	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.18	4-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.03	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 117 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-9

REACTIONS (lb/size) 9=857/0-4-0, 4=965/0-4-0
Max Horz 9=-377(load case 6)
Max Uplift9=-297(load case 6), 4=-363(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-763/311, 1-2=-582/236, 2-3=-736/197, 3-4=-1405/357, 4-5=0/39
BOT CHORD 8-9=0/372, 7-8=-171/1177, 6-7=-171/1177, 4-6=-171/1177
WEBS 1-8=-341/815, 2-8=-82/144, 3-8=-672/350, 3-6=0/238

JOINT STRESS INDEX
1 = 0.72, 2 = 0.79, 3 = 0.41, 4 = 0.63, 6 = 0.34, 7 = 0.46, 8 = 0.81 and 9 = 0.89

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 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 297 lb uplift at joint 9 and 363 lb uplift at joint 4.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071034

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T23	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:49 2007 Page 1

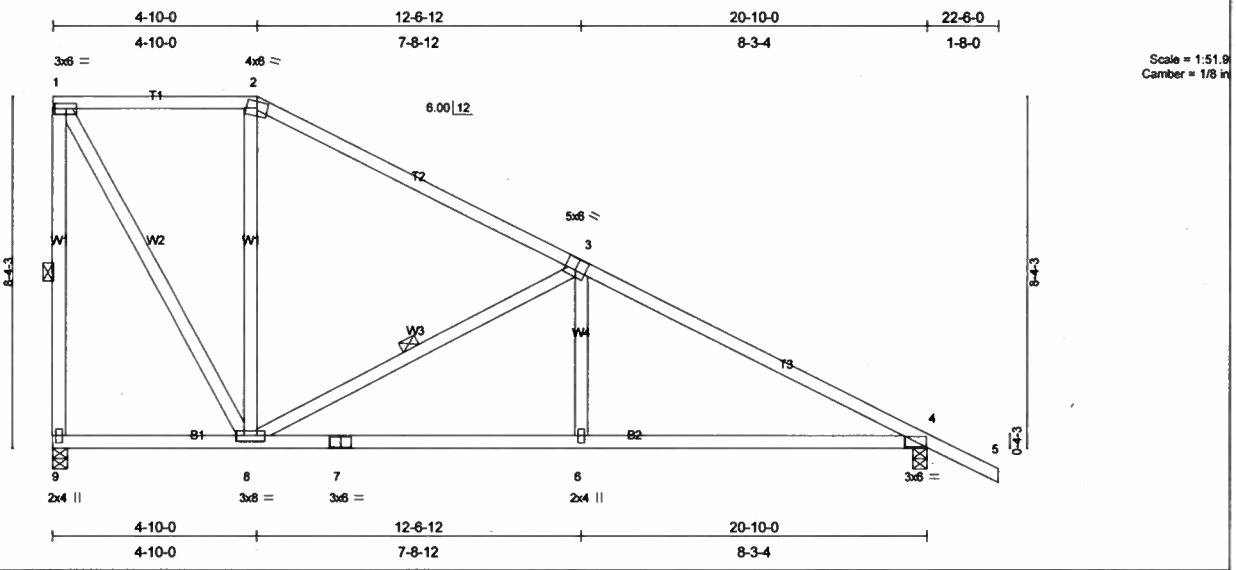


Plate Offsets (X,Y): [3:0-3-0,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.16	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.27	4-6	>912	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.03	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 123 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-9, 3-8

REACTIONS (lb/size) 9=857/0-4-0, 4=965/0-4-0
Max Horz 9=-423(load case 6)
Max Uplift9=-334(load case 6), 4=-354(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-806/340, 1-2=-410/180, 2-3=-562/128, 3-4=-1356/318, 4-5=0/39
BOT CHORD 8-9=0/423, 7-8=-125/1121, 6-7=-125/1121, 4-6=-124/1126
WEBS 1-8=-367/820, 2-8=-143/170, 3-8=-805/414, 3-6=0/285

JOINT STRESS INDEX
1 = 0.67, 2 = 0.76, 3 = 0.74, 4 = 0.62, 6 = 0.34, 7 = 0.49, 8 = 0.90 and 9 = 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 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 334 lb uplift at joint 9 and 354 lb uplift at joint 4.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071035

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T24	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:52 2007 Page 1

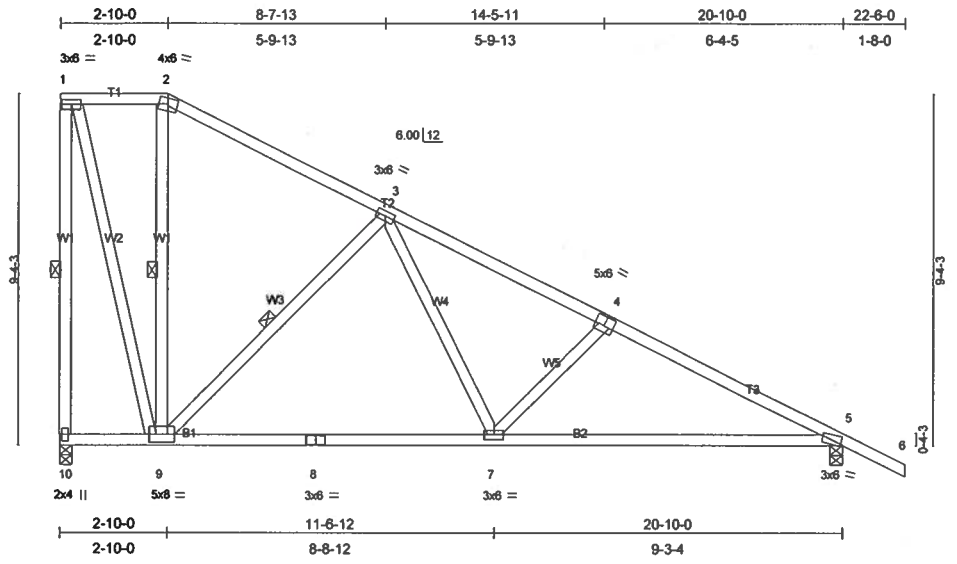


Plate Offsets (X,Y): [4:0-3-0,0-3-0], [5:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.17	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.29	5-7	>861	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 136 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 5-0-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-10, 2-9, 3-9

REACTIONS (lb/size) 10=857/0-4-0, 5=965/0-4-0
Max Horz 10=-469(load case 6)
Max Uplift10=-377(load case 6), 5=-339(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-867/367, 1-2=-236/105, 2-3=-340/60, 3-4=-1149/277, 4-5=-1373/329, 5-6=0/39
BOT CHORD 9-10=0/468, 8-9=0/710, 7-8=0/710, 5-7=-156/1175
WEBS 1-9=-385/866, 2-9=-143/148, 3-9=-677/382, 3-7=-157/586, 4-7=-313/269

JOINT STRESS INDEX
1 = 0.62, 2 = 0.46, 3 = 0.41, 4 = 0.45, 5 = 0.80, 7 = 0.50, 8 = 0.48, 9 = 0.51 and 10 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C 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 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 377 lb uplift at joint 10 and 339 lb uplift at joint 5.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071036

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T25	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:55 2007 Page 1

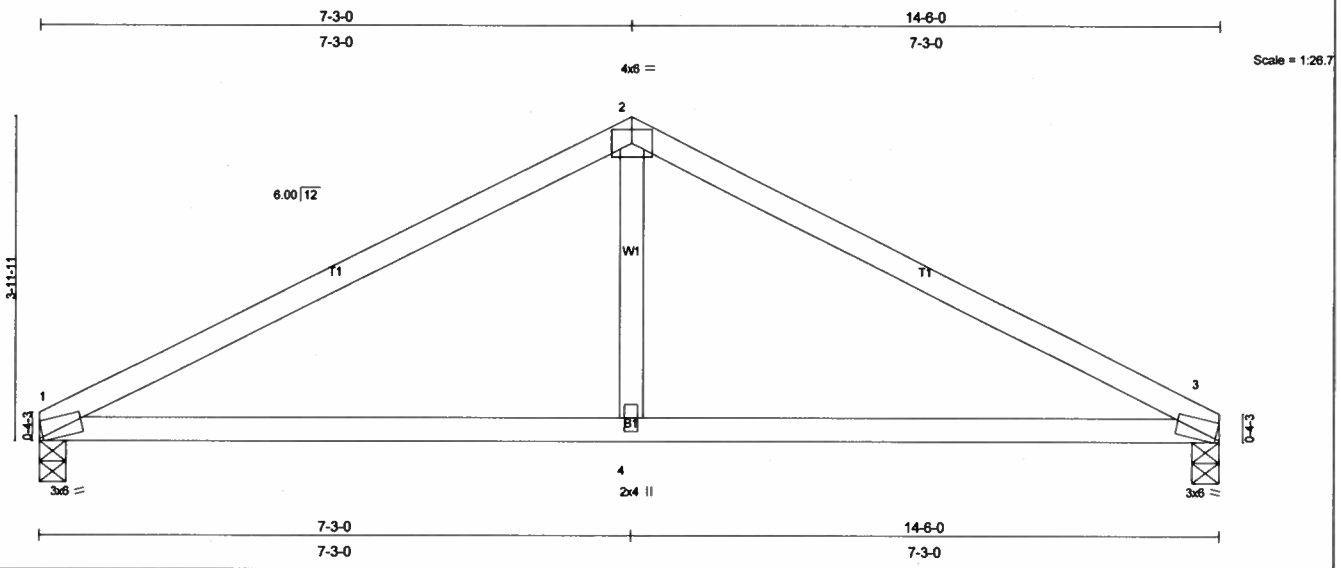


Plate Offsets (X,Y): [1:0-0-10,Edge], [2:0-0-0,0-0-0], [3:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.11	1-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.17	1-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.02	3	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

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=595/0-4-0, 3=595/0-4-0
Max Horz 1=-53(load case 3)
Max Uplift1=-193(load case 5), 3=-193(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-876/276, 2-3=-876/276
BOT CHORD 1-4=-182/714, 3-4=-182/714
WEBS 2-4=0/288

JOINT STRESS INDEX
1 = 0.88, 2 = 0.85, 3 = 0.88 and 4 = 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 193 lb uplift at joint 1 and 193 lb uplift at joint 3.

LOAD CASE(S) Standard

JULY 31, 2007, 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.#0731071037

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T25G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:52:58 2007 Page 1

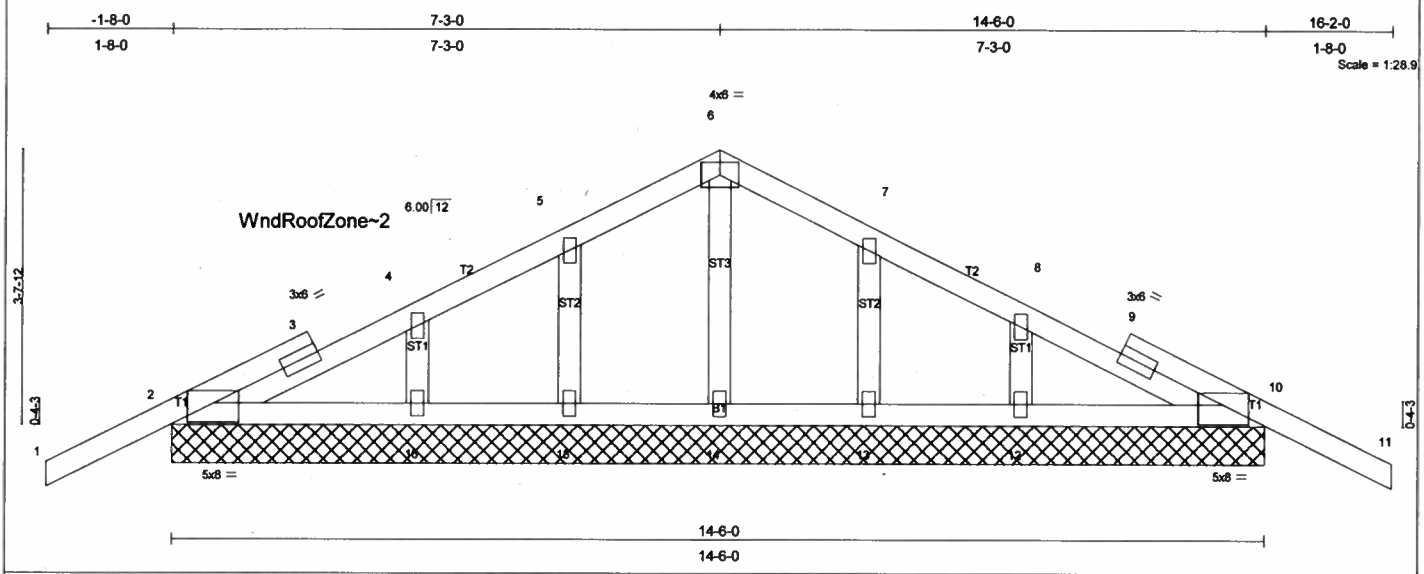


Plate Offsets (X,Y): [2:0-4-0,0-3-1], [10:0-4-0,0-3-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.02	11	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.04	Horz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 70 lb	

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

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

REACTIONS (lb/size) 2=350/14-6-0, 10=350/14-6-0, 14=247/14-6-0, 15=212/14-6-0, 16=308/14-6-0, 13=212/14-6-0, 12=308/14-6-0
Max Horz 2=78(load case 5)
Max Uplift2=-202(load case 5), 10=-214(load case 6), 14=-11(load case 5), 15=-114(load case 5), 16=-107(load case 5), 13=-112(load case 6), 12=-111(load case 6)
Max Grav 2=350(load case 1), 10=350(load case 1), 14=247(load case 1), 15=216(load case 9), 16=308(load case 1), 13=216(load case 10), 12=308(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/62, 2-3=-49/37, 3-4=-36/60, 4-5=-40/82, 5-6=-36/137, 6-7=-36/137, 7-8=-40/79, 8-9=-12/60, 9-10=-49/15, 10-11=-3/62
BOT CHORD 2-16=-3/94, 15-16=-3/94, 14-15=-3/94, 13-14=-3/94, 12-13=-3/94, 10-12=-3/94
WEBS 6-14=-182/24, 5-15=-166/129, 4-16=-223/144, 7-13=-166/129, 8-12=-223/144

JOINT STRESS INDEX
2 = 0.69, 3 = 0.00, 3 = 0.25, 4 = 0.09, 5 = 0.07, 6 = 0.16, 7 = 0.07, 8 = 0.09, 9 = 0.00, 9 = 0.25, 10 = 0.69, 12 = 0.08, 13 = 0.07, 14 = 0.07, 15 = 0.07 and 16 = 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 Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2, 214 lb uplift at joint 10, 11 lb uplift at joint 14, 114 lb uplift at joint 15, 107 lb uplift at joint 16, 112 lb uplift at joint 13 and 111 lb uplift at joint 12.
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: 1-6=-87(F=-33), 6-11=-87(F=-33), 2-10=-30

JULY 31, 2007, 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.#0731071038

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T26	COMMON	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:53:01 2007 Page 1

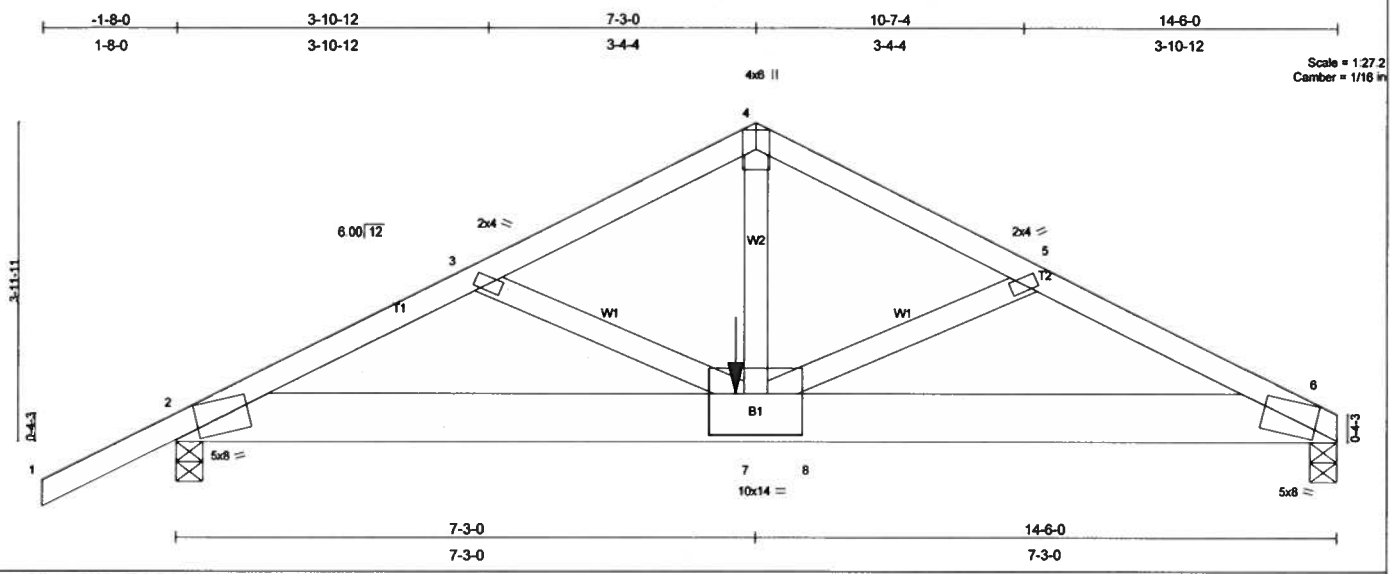


Plate Offsets (X,Y): [7:0-7-0,0-6-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.15	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.24	6-7	>695	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 174 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=5235/0-4-0, 2=3116/0-4-0
Max Horz 2=111(load case 4)
Max Uplift6=-1945(load case 5), 2=-1217(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-6712/2479, 3-4=-6538/2427, 4-5=-6566/2424, 5-6=-6909/2578
BOT CHORD 2-7=-2215/5955, 7-8=-2288/6217, 6-8=-2288/6217
WEBS 3-7=-145/159, 4-7=-2039/5597, 5-7=-437/276

JOINT STRESS INDEX
2 = 0.71, 3 = 0.12, 4 = 0.64, 5 = 0.12, 6 = 0.71 and 7 = 0.56

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 8 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, Except member 7-4 2 X 4 - 1 row at 0-8-0 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1945 lb uplift at joint 6 and 1217 lb uplift at joint 2.
7) Girder carries tie-in span(s): 32-8-0 from 8-0-0 to 14-6-0
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3027 lb down and 1143 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 6-8=-667(F=-637)
Concentrated Loads (lb)
Vert: 7=-3027(F)

JULY 31, 2007, 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.#0731071039

Job	Truss	Truss Type	Qty	Ply	ADAMS FRAMING
L244941	T27	HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Jul 06 13:53:04 2007 Page 1

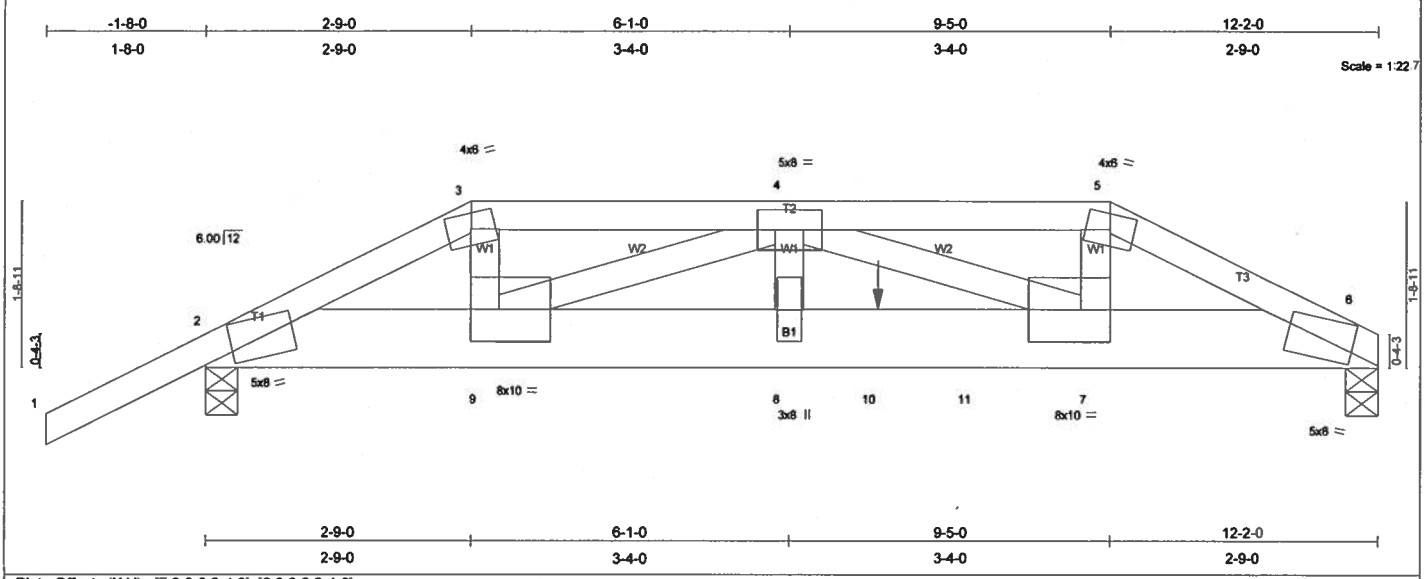


Plate Offsets (X,Y): [7:0-3-8,0-4-0], [9:0-3-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.10	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.16	7-8	>893	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code	FBC2004/TPI2002	(Matrix)							Weight: 145 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=4358/0-4-0, 2=2315/0-4-0
Max Horz 2=79(load case 4)
Max Uplift6=-1593(load case 5), 2=-896(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-4559/1660, 3-4=-4286/1581, 4-5=-7089/2634, 5-6=-7518/2772
BOT CHORD 2-9=-1492/4081, 8-9=-3226/8715, 8-10=-3226/8715, 10-11=-3226/8715, 7-11=-3226/8715, 6-7=-2470/6731
WEBS 3-9=-623/1811, 4-9=-4778/1823, 4-8=-826/2317, 4-7=-1778/678, 5-7=-1135/3135

JOINT STRESS INDEX
2 = 0.78, 3 = 0.85, 4 = 0.59, 5 = 0.85, 6 = 0.78, 7 = 0.41, 8 = 0.38 and 9 = 0.41

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 8 - 2 rows at 0-4-0 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 1593 lb uplift at joint 6 and 896 lb uplift at joint 2.
8) Girder carries tie-in span(s): 32-8-0 from 8-0-0 to 12-2-0
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3032 lb down and 1145 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-6=-54, 2-11=-30, 6-11=-667(F=-637)
Concentrated Loads (lb)
Vert: 10=-3032(F)

JULY 31, 2007, TRUSS DESIGN ENGINEER:
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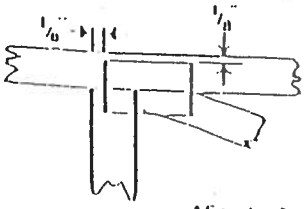
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION

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



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

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

PLATE SIZE

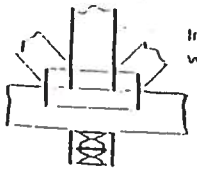
4 X 4

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

LATERAL BRACING

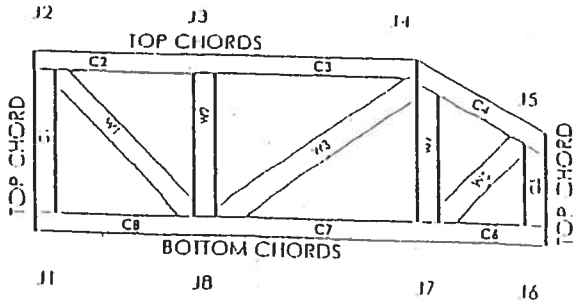
Indicates location of required continuous lateral bracing.

BEARING



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

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

MiTek® TEE-LOK

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

Residential System Sizing Calculation

Summary

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

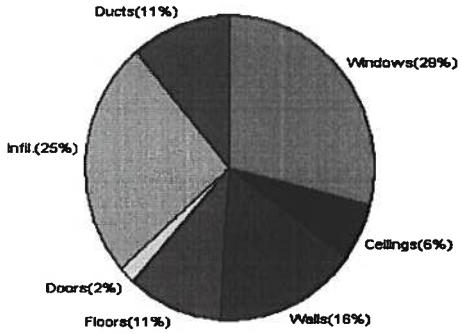
8/20/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**27470**	**Btuh**	**Total cooling load calculation**	**41724**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.5	32000	Sensible (SHR = 0.75)	69.3	24000
Heat Pump + Auxiliary(0.0kW)	116.5	32000	Latent	113.0	8000
			Total (Electric Heat Pump)	76.7	32000

WINTER CALCULATIONS

Winter Heating Load (for 1421 sqft)

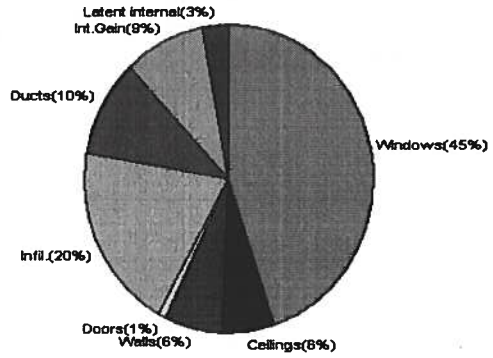
Load component			Load	
Window total	249	sqft	8015	Btuh
Wall total	1313	sqft	4312	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	1500	sqft	1768	Btuh
Floor total	178	sqft	2911	Btuh
Infiltration	171	cfm	6907	Btuh
Duct loss			3039	Btuh
Subtotal			**27470**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**27470**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1421 sqft)

Load component			Load	
Window total	249	sqft	18706	Btuh
Wall total	1313	sqft	2610	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	1500	sqft	2484	Btuh
Floor total			0	Btuh
Infiltration	149	cfm	2777	Btuh
Internal gain			3780	Btuh
Duct gain			3893	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**34642**	**Btuh**
Latent gain(ducts)			429	Btuh
Latent gain(infiltration)			5453	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**7082**	**Btuh**
TOTAL HEAT GAIN			**41724**	**Btuh**



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 8-20-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

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

8/20/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	90.0	32.2	2897 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	N	36.0	32.2	1159 Btuh
4	2, Clear, Metal, 0.87	N	9.0	32.2	290 Btuh
5	2, Clear, Metal, 0.87	N	4.0	32.2	129 Btuh
6	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
7	2, Clear, Metal, 0.87	E	18.0	32.2	579 Btuh
8	2, Clear, Metal, 0.87	S	16.0	32.2	515 Btuh
	Window Total		249(sqft)		8015 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1090	3.3	3580 Btuh
2	Frame - Wood - Adj(0.09)	13.0	223	3.3	732 Btuh
	Wall Total		1313		4312 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1500	1.2	1768 Btuh
	Ceiling Total		1500		1768Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	178.0 ft(p)	16.4	2911 Btuh
	Floor Total		178		2911 Btuh
				Envelope Subtotal:	17524 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.80	12789	1313	170.5	6907 Btuh
Ductload					(DLM of 0.124)	3039 Btuh
All Zones				**Sensible Subtotal All Zones**		**27470 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

8/20/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	27470 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27470 Btuh

EQUIPMENT

1. Electric Heat Pump	#	32000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

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

8/20/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	90.0	32.2	2897 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	N	36.0	32.2	1159 Btuh
4	2, Clear, Metal, 0.87	N	9.0	32.2	290 Btuh
5	2, Clear, Metal, 0.87	N	4.0	32.2	129 Btuh
6	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
7	2, Clear, Metal, 0.87	E	18.0	32.2	579 Btuh
8	2, Clear, Metal, 0.87	S	16.0	32.2	515 Btuh
	Window Total		249(sqft)		8015 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1090	3.3	3580 Btuh
2	Frame - Wood - Adj(0.09)	13.0	223	3.3	732 Btuh
	Wall Total		1313		4312 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1500	1.2	1768 Btuh
	Ceiling Total		1500		1768Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	178.0 ft(p)	16.4	2911 Btuh
	Floor Total		178		2911 Btuh
			Zone Envelope Subtotal:		17524 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=
	Natural	0.80	12789	1313	170.5	6907 Btuh
Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)			(DLM of 0.124)	3039 Btuh
Zone #1			**Sensible Zone Subtotal**		**27470 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

8/20/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	27470 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27470 Btuh

EQUIPMENT

1. Electric Heat Pump	#	32000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

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For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 8/20/2007

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	90.0	0.0	90.0	29	80	7156 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	40.0	0.0	40.0	29	80	3181 Btuh
3	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	36.0	0.0	36.0	29	29	1043 Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	9.0	0.0	9.0	29	29	261 Btuh
5	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	4.0	0.0	4.0	29	29	116 Btuh
6	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	36.0	0.0	36.0	29	80	2863 Btuh
7	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	18.0	0.0	18.0	29	80	1431 Btuh
8	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	16.0	16.0	0.0	29	34	463 Btuh
	Excursion									2193 Btuh
	Window Total				249 (sqft)					18706 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1090.0	2.1	2274 Btuh
2	Frame - Wood - Adj	13.0/0.09	223.0	1.5	336 Btuh
	Wall Total		1313 (sqft)		2610 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		20.0	9.8	196 Btuh
2	Insulated - Adjacent		20.0	9.8	196 Btuh
	Door Total		40 (sqft)		392 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1500.0	1.7	2484 Btuh
	Ceiling Total		1500 (sqft)		2484 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	178 (ft(p))	0.0	0 Btuh
	Floor Total		178.0 (sqft)		0 Btuh
			Envelope Subtotal:		24192 Btuh

Infiltration	Type	ACH	Volume(cuft) wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	12789 1313	170.5	2777 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	2400	3780 Btuh
			Sensible Envelope Load:		30749 Btuh
Duct load			(DGM of 0.127)		3893 Btuh
			Sensible Load All Zones		**34642 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

8/20/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**30749 Btuh**
	Sensible Duct Load	3893 Btuh
	Total Sensible Zone Loads	**34642 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**34642 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5453 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	429 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**7082 Btuh**
	TOTAL GAIN	**41724 Btuh**

EQUIPMENT

1. Central Unit	#	32000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 8/20/2007

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	90.0	0.0	90.0	29	80	7156 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	40.0	0.0	40.0	29	80	3181 Btuh
3	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	36.0	0.0	36.0	29	29	1043 Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	9.0	0.0	9.0	29	29	261 Btuh
5	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	4.0	0.0	4.0	29	29	116 Btuh
6	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	36.0	0.0	36.0	29	80	2863 Btuh
7	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	18.0	0.0	18.0	29	80	1431 Btuh
8	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	16.0	16.0	0.0	29	34	463 Btuh
	Window Total				249 (sqft)					16514 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1090.0	2.1	2274 Btuh
2	Frame - Wood - Adj	13.0/0.09	223.0	1.5	336 Btuh
	Wall Total		1313 (sqft)		2610 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1500.0	1.7	2484 Btuh
	Ceiling Total		1500 (sqft)		2484 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	178 (ft(p))	0.0	0 Btuh
	Floor Total		178.0 (sqft)		0 Btuh

				Zone Envelope Subtotal:	22000 Btuh
Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	12789	1313	149.2	2777 Btuh
Internal gain	Occupants	Btuh/occupant			Appliance	Load
	6	X 230	+		2400	3780 Btuh
				Sensible Envelope Load:		28557 Btuh
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.127)		3615 Btuh
				Sensible Zone Load		**32172 Btuh**

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1		2193 Btuh
		Excursion Subtotal:	2193 Btuh
Duct load			278 Btuh
		Sensible Excursion Load	**2470 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

Code Only
Professional Version
Climate: North

8/20/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**30749 Btuh**
	Sensible Duct Load	3893 Btuh
	Total Sensible Zone Loads	**34642 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**34642 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5453 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	429 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**7082 Btuh**
	TOTAL GAIN	**41724 Btuh**

EQUIPMENT

1. Central Unit	#	32000 Btuh

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

Prepared by ACCA MANUAL J

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Burley Road Spec
Burley Road
Lake City, FL 32024-

Project Title:
Adam Papka

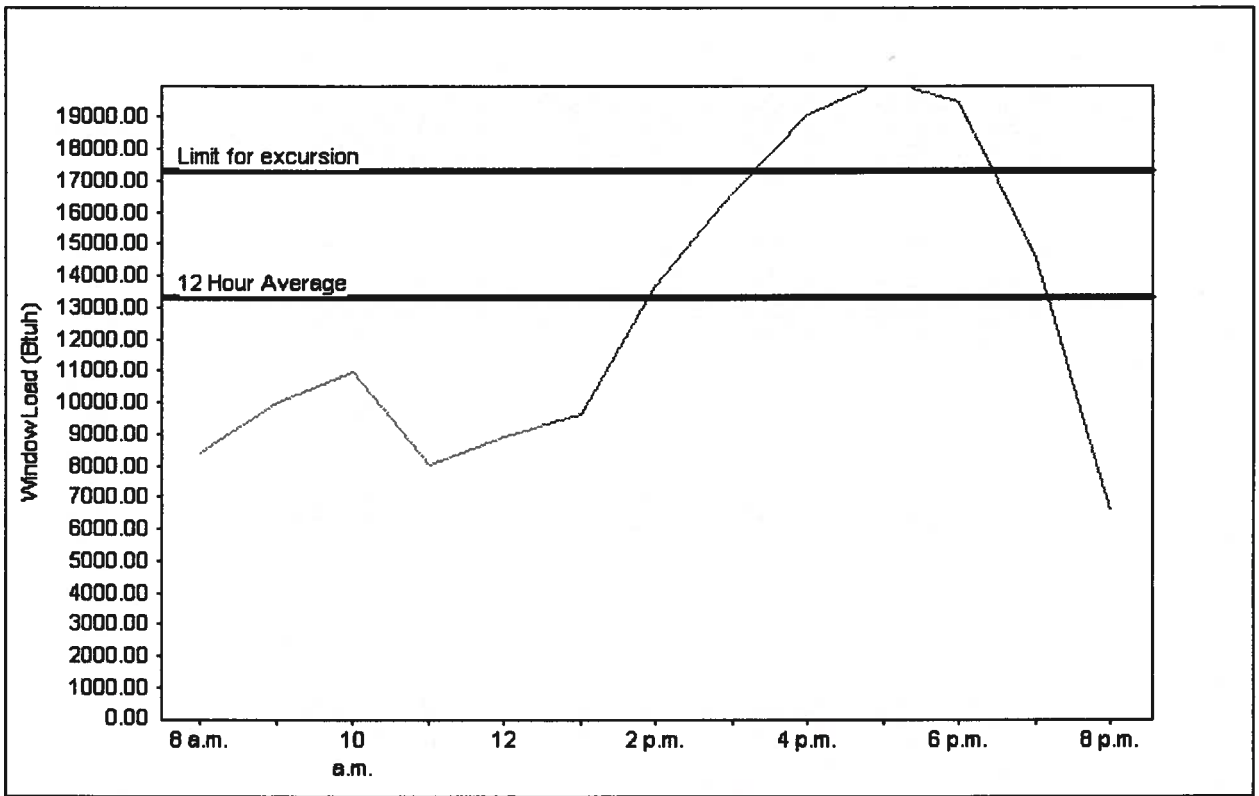
Code Only
Professional Version
Climate: North

8/20/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	13294 Btu
Summer setpoint	75 F	Peak window load for July	20186 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	17282 Btu
Latitude	29 North	Window excursion (July)	2905 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: _____
DATE: _____

FLORIDA DEPARTMENT OF
Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative	Frederick J. O'Connor
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative
Address/Phone/Email

Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM D 3462	2001

Equivalence of Product Standards Certified By

Product Approval Method	Method 1 Option A
Date Submitted	06/09/2005
Date Validated	06/20/2005
Date Pending FBC Approval	06/25/2005
Date Approved	06/29/2005

Summary of Products

FL #	Model, Number or Name	Description

slopes of 2:12 or greater. Not approved for use in HVHZ.	

Back Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

4

Underwriters Laboratories Inc.®

333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

Jun 17, 2005

Tan ko Roofing Products
Ms. Kerri Eden
P.O Box 1404
220 W. 4th Street
Jopl n, MO 64802-1404

Our Reference: R2919

Thi: is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Gl ss-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 / R", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "He itage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are ' IL Listed asphalt glass mat shingles and have been evaluated in accordance with AN: I/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 moc fied to 110 mph when secured with four nails.

Let ne know if you have any further questions.

Ver truly yours,

Alp sh Patel (Ext. 42522)
Eng neer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS

LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT. It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENERS

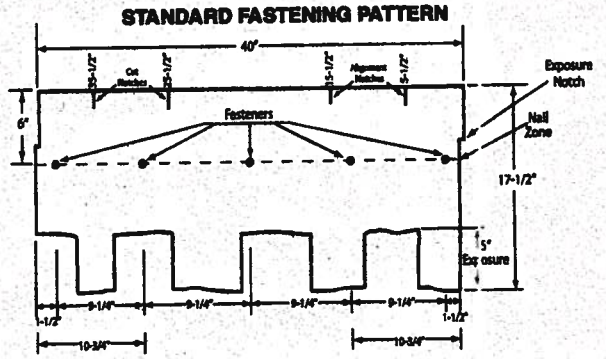
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

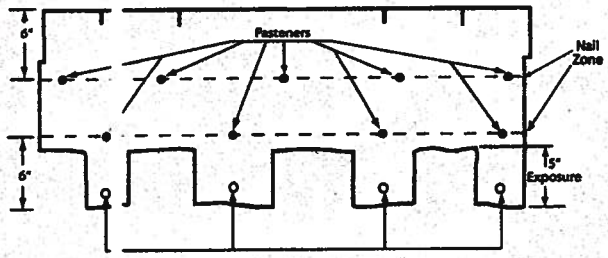
(Continued)

(CONTINUED from Pg. 1)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

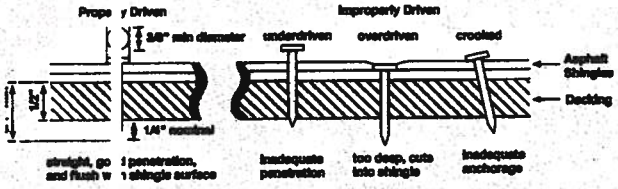
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, using 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

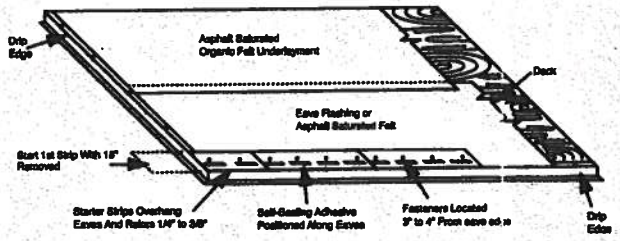
Products which are acceptable for use as underlayment are:

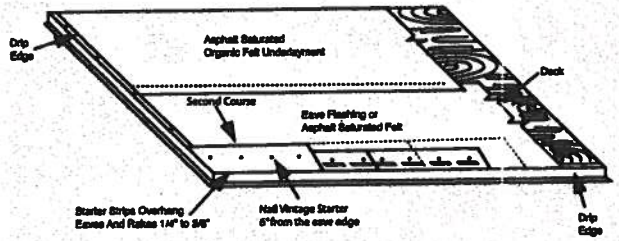
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information. TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

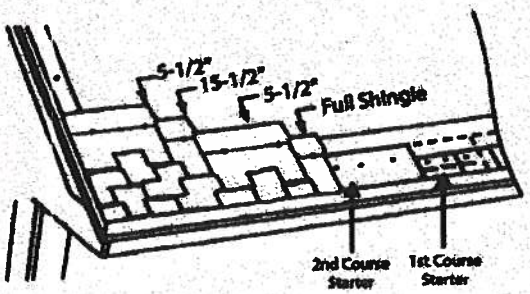
(Continued)

(CONTINUED from Pg. 2)

TAMKO BUILDING PRODUCTS

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION
On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION
TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide st p of TAMKO Moisture Guard Plus, TW Underlayment or TW letal & Tile Underlayment should be applied along the edges of th metal valley flashing (max. 6" onto metal valley flashing) and on to of the valley underlayment. The valley will be completed with shingl application.

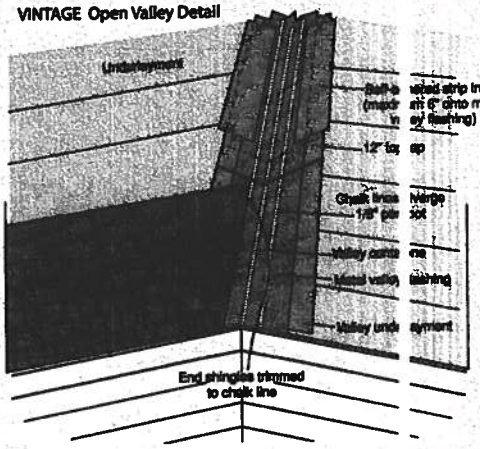
SHINGLE APPLICATION INSTRUCTIONS (OPEN VA LEY)

- Snap two chalk lines, one on each side of the valle centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley cent rline.
- The lower end should diverge from each other by 1 6" per foot. Thus, for an 8' long valley, the chalk lines should b 7" either side of the centerline at the eaves and for a 16' val y 8".

As shingles are applied toward the valley, trim the last s ingle in each course to fit on the chalk line. Never use a shingle t nmed to less than 12" in length to finish a course running into a valle If necessary, trim the adjacent shingle in the course to allow a longe portion to be used.

- Clip 1" from the upper corner of each shingle on a 5° angle to direct water into the valley and prevent it from p netrating between the courses.

- Form a tight seal by cementing the shingle to the v lley lining with a 3" width of asphalt plastic cement (conformi g to ASTM D 4586).



- **CAUTION:**
Adhesive must be applied in smooth, thin, even layer

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

TAMKO BUILDING PRODUCTS

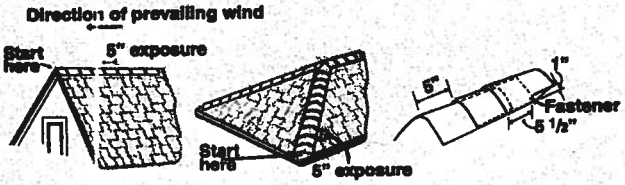
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

Building Code Information System

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authorization | Organization Search | Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

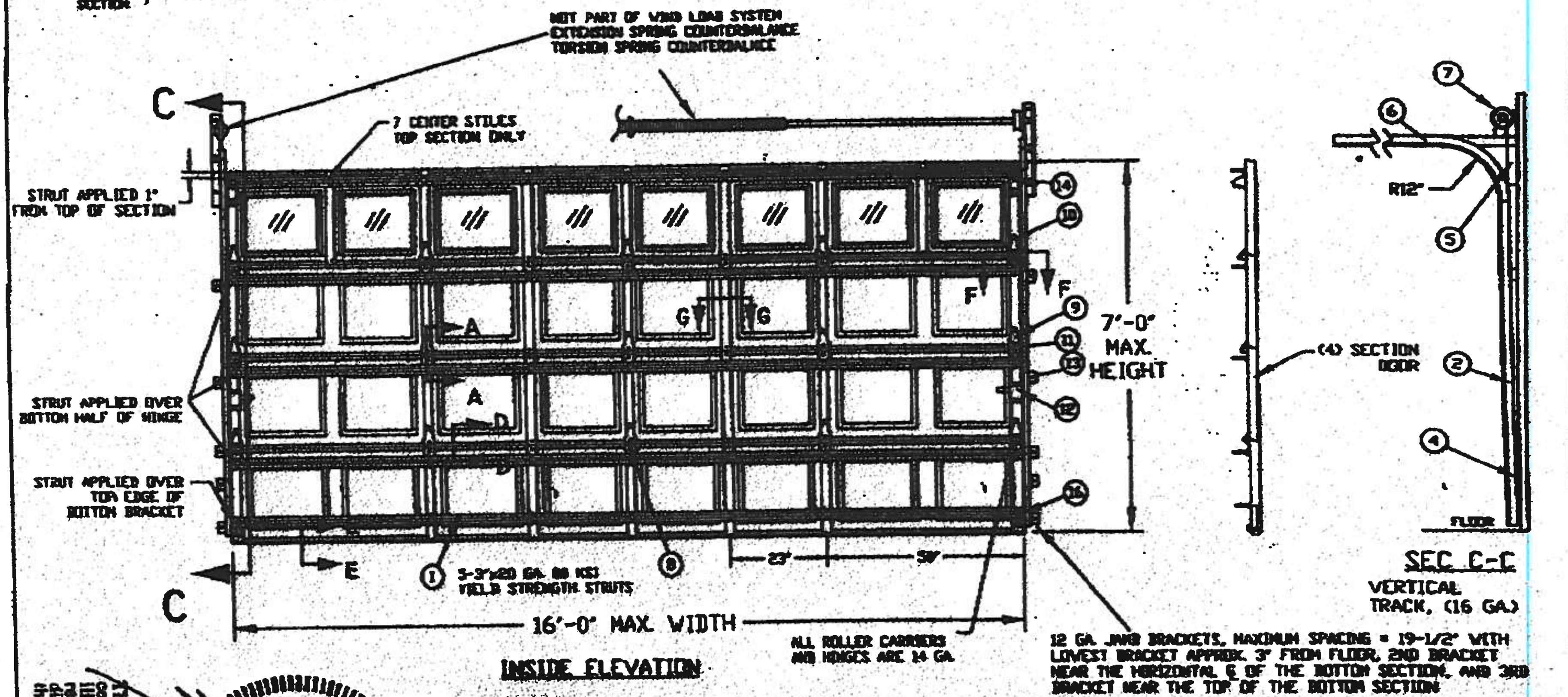
Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6808593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: [illegible]			

Displaying 1-1 of 1

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR #2 AS TESTED.
9. ⚠ DROP IN TYPE OF INSULATION IS OPTIONAL.



INSIDE ELEVATION

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s) and dimensions and installation(s) of the door as tested.

PE No. 014280

LISTED

REPORT No. 2202

TEST REPORTS ON FILE: VINDO 10/19/00 000930

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS

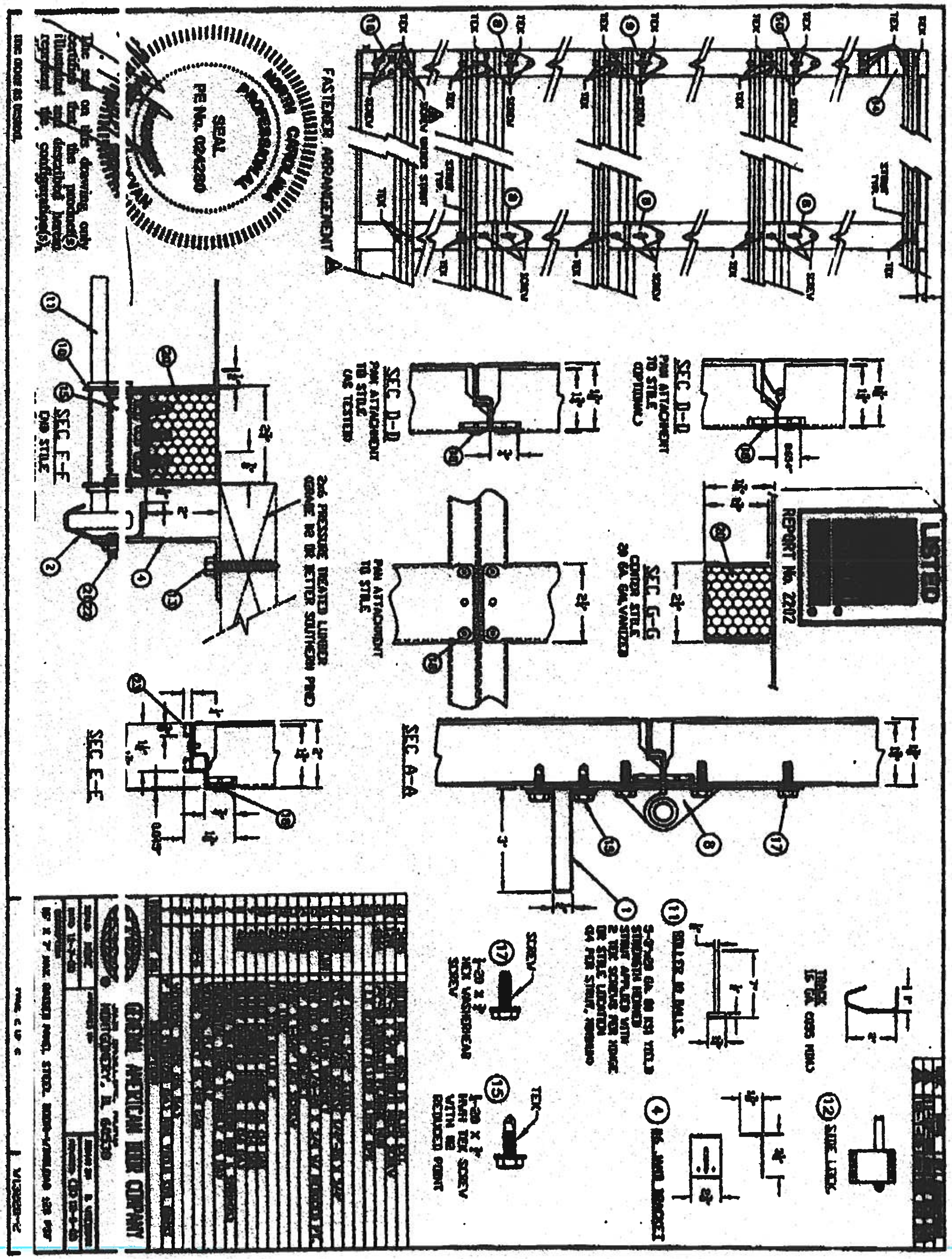
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED) ⚠

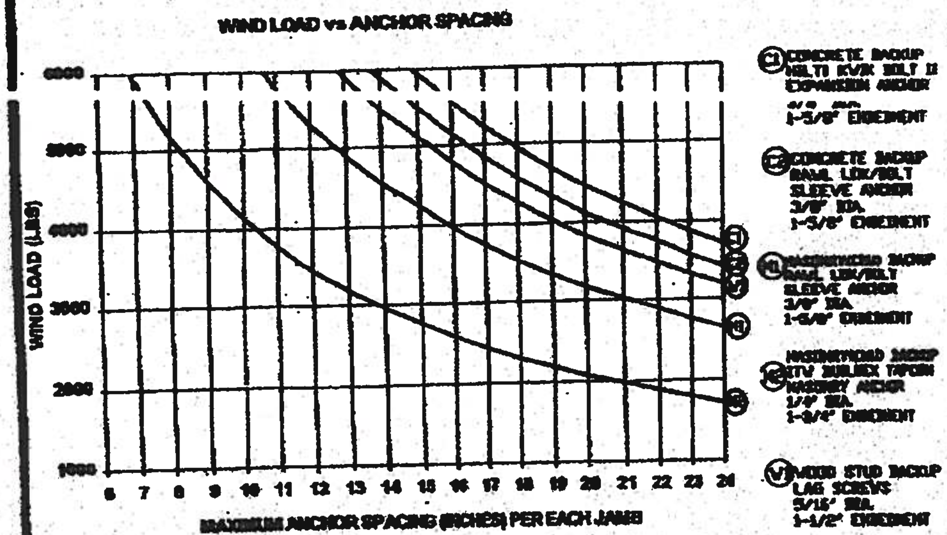
SERIES 7524, EXTERIOR STEEL =.024" MIN ⚠ (TESTED WITH WINDOWS)

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTL STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD

DRAWN BY: R. WIDMAN
REVISED: (A) 11-10-00
DATE: 10-20-00
16' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD ±20 PSF


FASTENER ARRANGEMENT
SEAL
PE No. 024280
SEC. A-A
SEC. D-D
SEC. E-E
SEC. F-F
SEC. G-G
LISTED
REPORT No. 2202
2x6 PRESSURE TREATED LUMBER GRADE #2 OR BETTER SOUTHERN PINE
PNH ATTACHMENT TO STILE
END STILE
TEK
SCREW
SIDE LOCK
TRACK
ROLLER BRACKETS



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT [illegible] OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUBS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI; GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

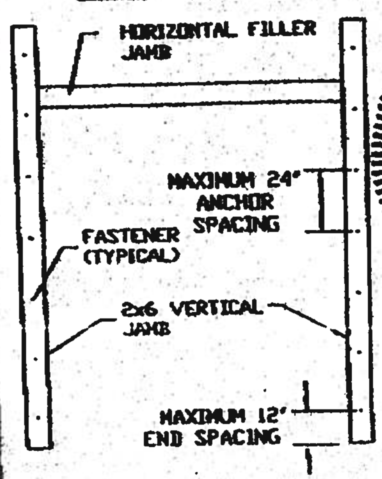
DESIGN LOAD (LBS / FT²) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)

EXAMPLE

30 LBS / FT² X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- W1 USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 NASER R KEYVAN

NASER R. KEYVAN CERTIFICATE NO. 53774 STATE OF FLORIDA PROFESSIONAL ENGINEER

3/8/2002

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

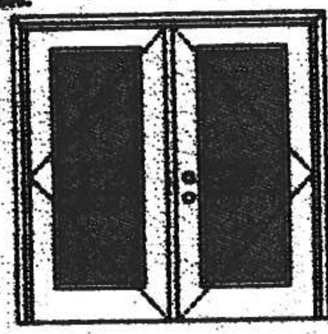
JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

A10560

XX
Glazed Outswing Unit

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

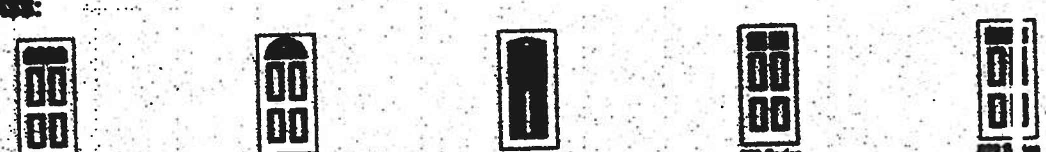
Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-[illegible] and, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0[illegible]2-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:
Compliance requires that minimum installation details have been followed – see MID-WL-MA[illegible]02-02.

APPROVED DOOR STYLES:

1/4 GLASS:



160 Series | 133, 135 Series | 136 Series | 660 Series | [illegible] Series

1/2 GLASS:

165 Series* | 156, 168 Series* | 129 Series* | 280 Series* | 12 RL, 28 RL, 34 RL Series* | 107 Series* | 105 Series | 304 Series

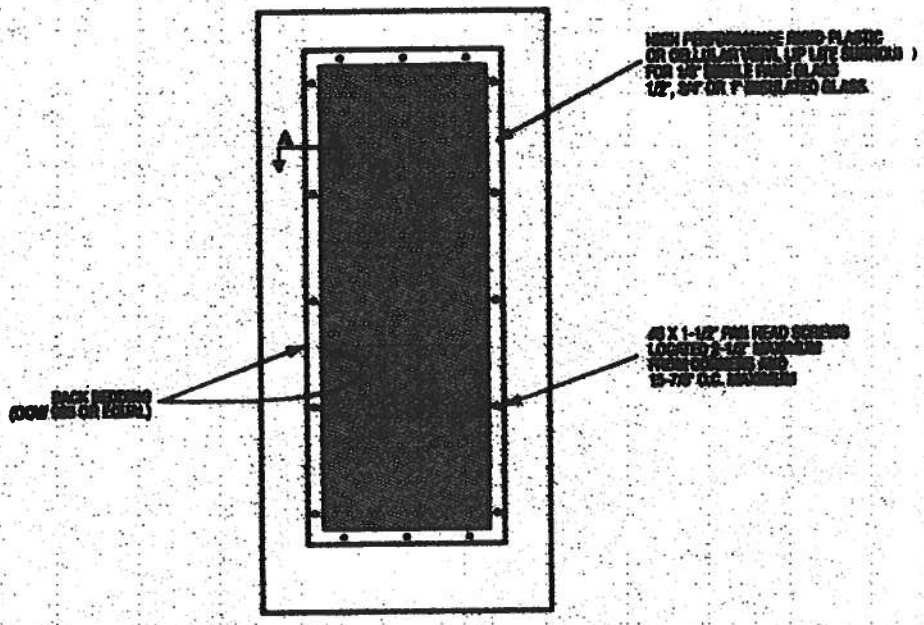
*This glass kit may also be used in the following door styles: 6-panel; 6-panel with scroll; Eyebrow 6-panel; Eyebrow 6-panel with scroll.

Johnson EntrySystems

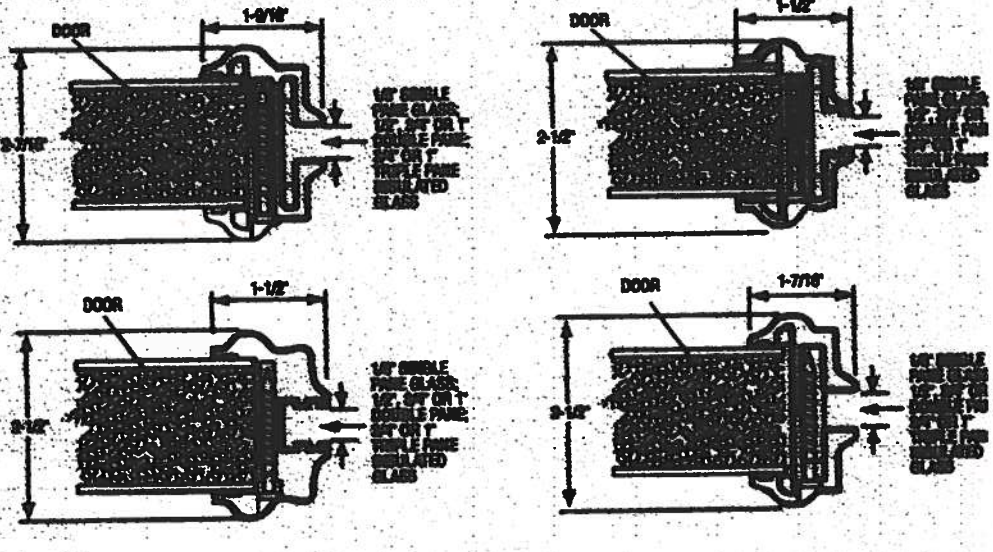
March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOOR Premium Quality Doors — Exclusively on Masonite® — Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



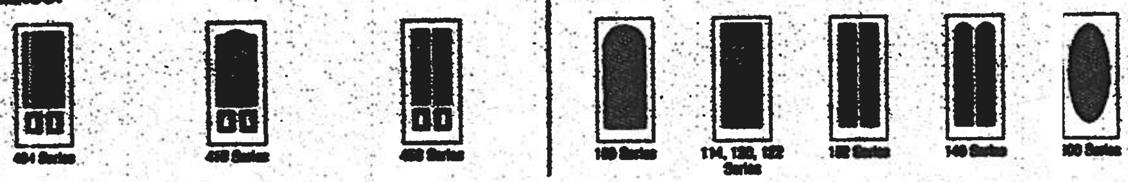
XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS: | **FULL GLASS:**



CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portnoy, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

> TESTED IN
> ACCORDANCE WITH
> MIAMI-DADE BCCO PA202
>
> COMPANY NAME
> CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

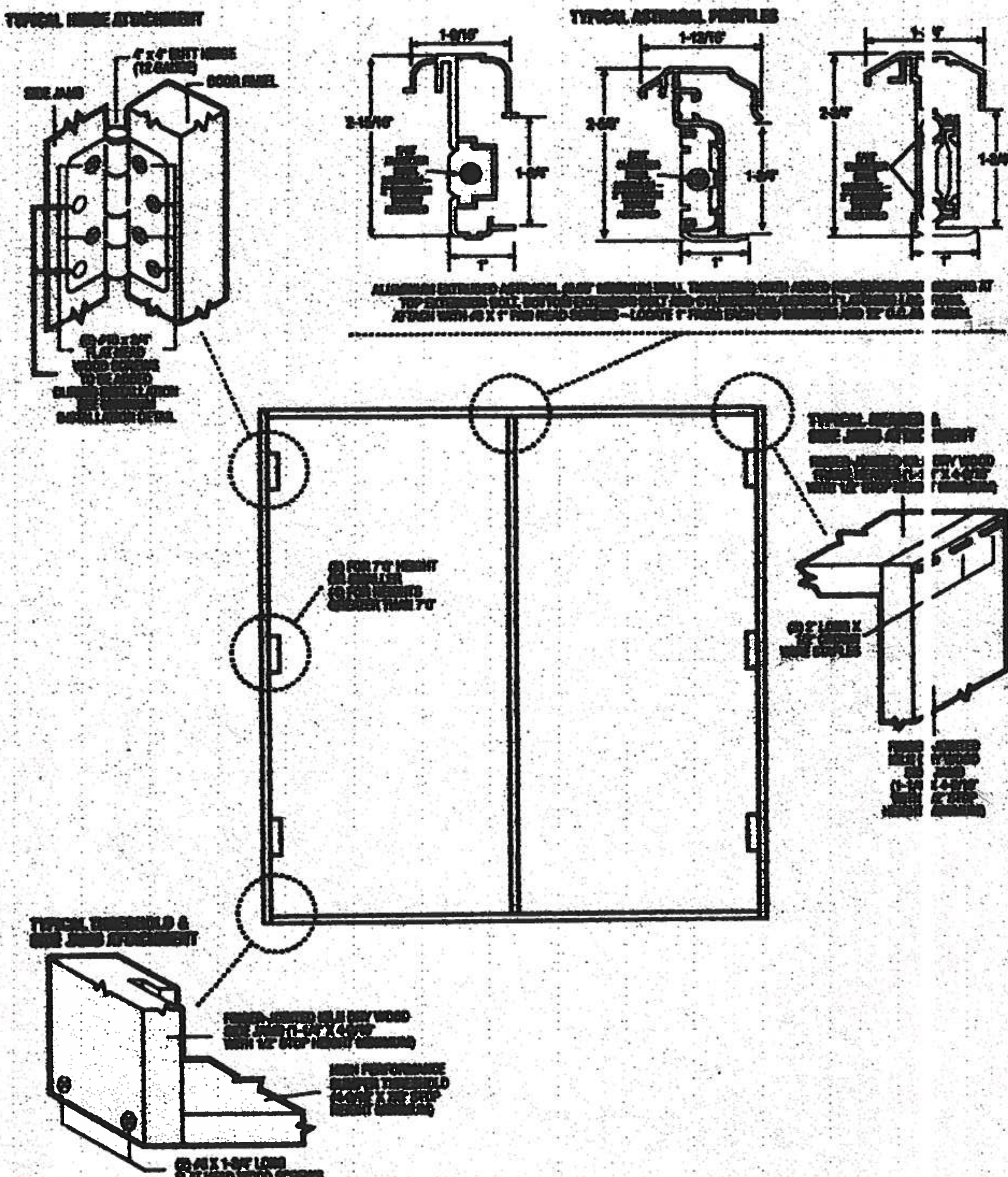
State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Johnson EntrySystems

PREMDOR Collection
Masonite International Corporation

XX
Unit

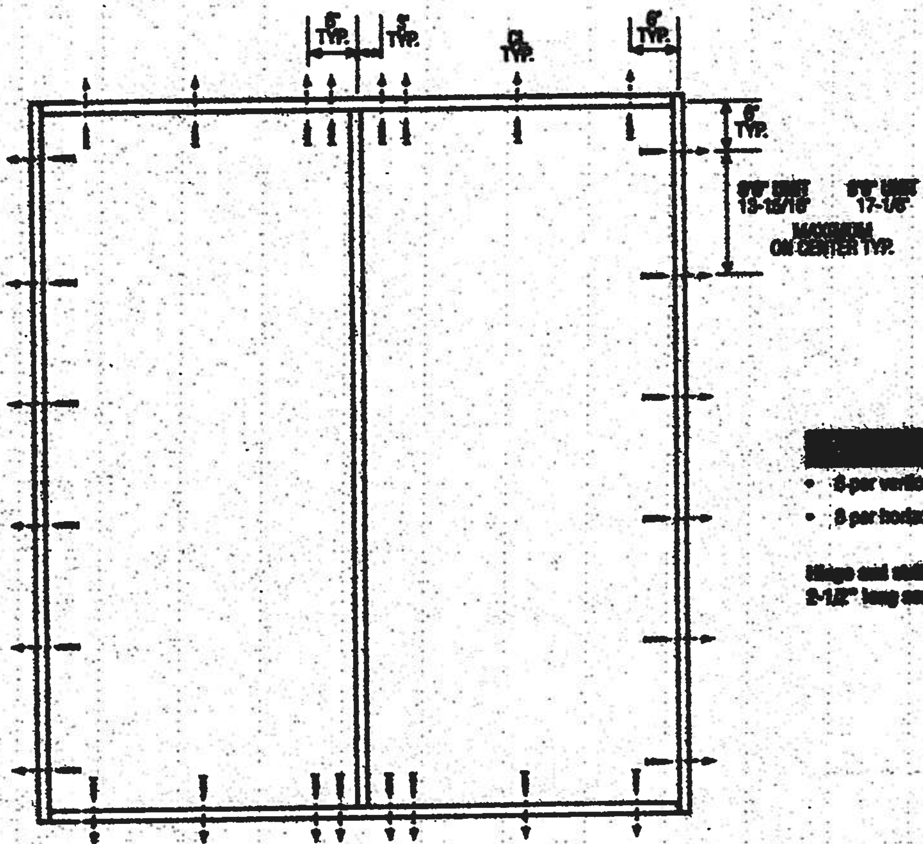
OUTSWING UNITS WITH DOUBLE DOOR



XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 8 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

PREMDOR Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Window

FLORIDA DEPARTMENT OF
Community Affairs

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- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	

A L I

Validator / Operations Administrator

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWWDA 101/I.S. 2-97 H-R55*-38x82					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Windows & Doors, Inc. (Dickinson, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(DP)(DG) (ASTM)	3'0" x 5'2"	2'10" x 2'7"	By Request

2. This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.

3. Product Tested and Reported by: Architectural Testing, Inc.

Report No.: 01-50360.02

Date of Report: June 14, 2004

NOTE: PLEASE REVIEW, AND ADVISE ALI IMMEDIATELY IF DATA, AS SHOWN, NEEDS CORRECTION.

Validated for Certification:

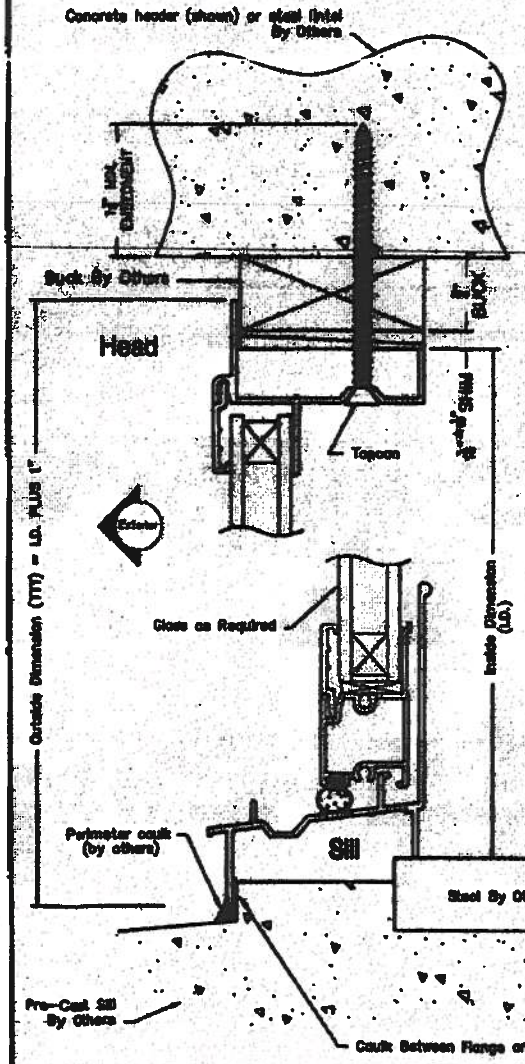
Associated Laboratories, Inc.

Date: August 1, 2005

Authorized for Certification:

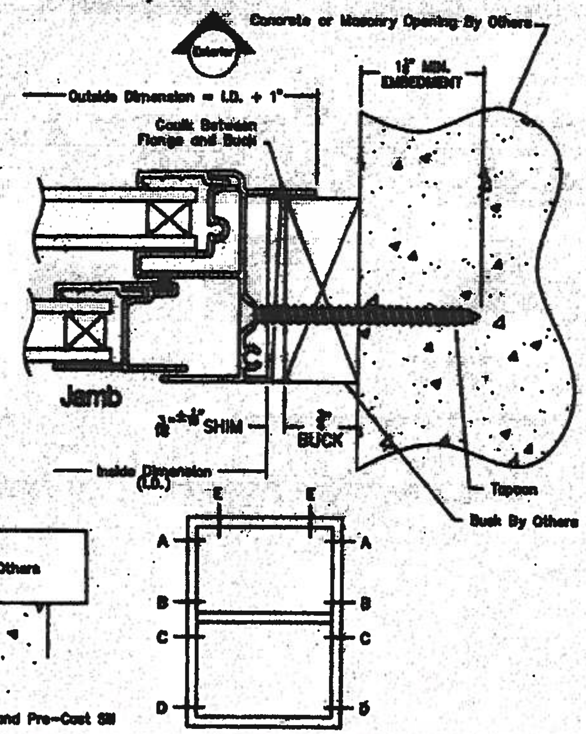
American Architectural Manufacturers Association

cc: AAMA
JGS/df
ACP-04 (Rev 5/03)



"ONE BY" (3/4") BUCKS (SHOWN)

1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Tapcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.



"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

MI HOME PRODUCTS BetterBilt / Capitol

* TAPCON LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS: UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP65.3
12	18 1/8 x 25	A, D & E	A, D & E	A, D & E
13	18 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
14	18 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
15	18 1/8 x 62	A, D & E	A, D & E	A, D & E
16	18 1/8 x 71	A, D & E	A, D & E	A, D & E
17	18 1/8 x 83	A, D & E	A, D & E	A, D & E
1/2 32	25 1/2 x 25	A, D & E	A, D & E	A, D & E
1/2 33	25 1/2 x 37 3/8	A, D & E	A, D & E	A, D & E
1/2 34	25 1/2 x 49 5/8	A, D & E	A, D & E	A, D & E
1/2 35	25 1/2 x 62	A, D & E	A, D & E	A, D & E
1/2 36	25 1/2 x 71	A, D & E	A, D & E	A, D & E
1/2 37	25 1/2 x 83	A, D & E	A, D & E	A, C, D & E
22	36 x 25	A, D & E	A, D & E	A, D & E
23	36 x 37 3/8	A, D & E	A, D & E	A, D & E
24	36 x 49 5/8	A, D & E	A, D & E	A, D & E
25	36 x 62	A, D & E	A, D & E	A, D & E
26	36 x 71	A, D & E	A, D & E	A, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, D & E
32	52 1/8 x 25	A, D & E	A, D & E	A, D & E
33	52 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
34	52 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
35	52 1/8 x 62	A, D & E	A, C, D & E	A, C, D & E
36	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, D & E
2040	23 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
2050	23 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
2060	23 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
2070	23 3/8 x 83 5/8	A, D & E	A, D & E	A, D & E
3040	35 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
3050	35 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
3060	35 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4040	47 3/8 x 47 5/8	A, D & E	A, D & E	A, C, D & E
4050	47 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4450	51 3/8 x 59 5/8	A, D & E	A, D & E	A, B, C, D & E
4460	51 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

MI HOME PRODUCTS
GRATZ, PA

188/3188 SINGLE HUNG FLANGE FRAME INSTALLATION DETAILS & FASTENER SCHEDULE

DRL | N.T.S. | A | MIHP0059 | 1 OF 1

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

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.

26185

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055
Company Business License No. JB109076 Company Phone No. 386-755-3611 • 352-494-5751
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Adams Framing Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 2441 S.W. Bivley Ave Lake City, FL
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 12 Inside 24 Type of Fill Dirt

Section 4: Treatment Information

Date(s) of Treatment(s) 9-17-07
Brand Name of Product(s) Used Biflex
EPA Registration No. 53883-184
Approximate Final Mix Solution % .06
Approximate Size of Treatment Area: Sq. ft. 2022 Linear ft. 191 Linear ft. of Masonry Voids 191
Approximate Total Gallons of Solution Applied 448
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

Name of Applicator(s) Steve Brannon Certification No. (if required by State law)

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 9-17-07

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)

26185

Donald F. Lee & Associates, Inc.

Surveyors & Engineers

D.F.L.

140 NW Ridgewood Avenue
Lake City, Florida 32055
(386) 755-6166
Fax (386) 755-6167
donald@dfla.com

Monday, September 24, 2007
Revised: 1/18/2008

FROM: Tim Delbene, P.L.S.

TO: Columbia County Building & Zoning Dept.

CC: Adam's Framing

RE: Floor Elevation Check – Lot 2 – Gerald Riggle Development

We have obtained elevations on the finished floor of a house under construction on the above referenced Lot. The elevations are based on Benchmarks set for design surveys of the subject development by Britt Surveying.

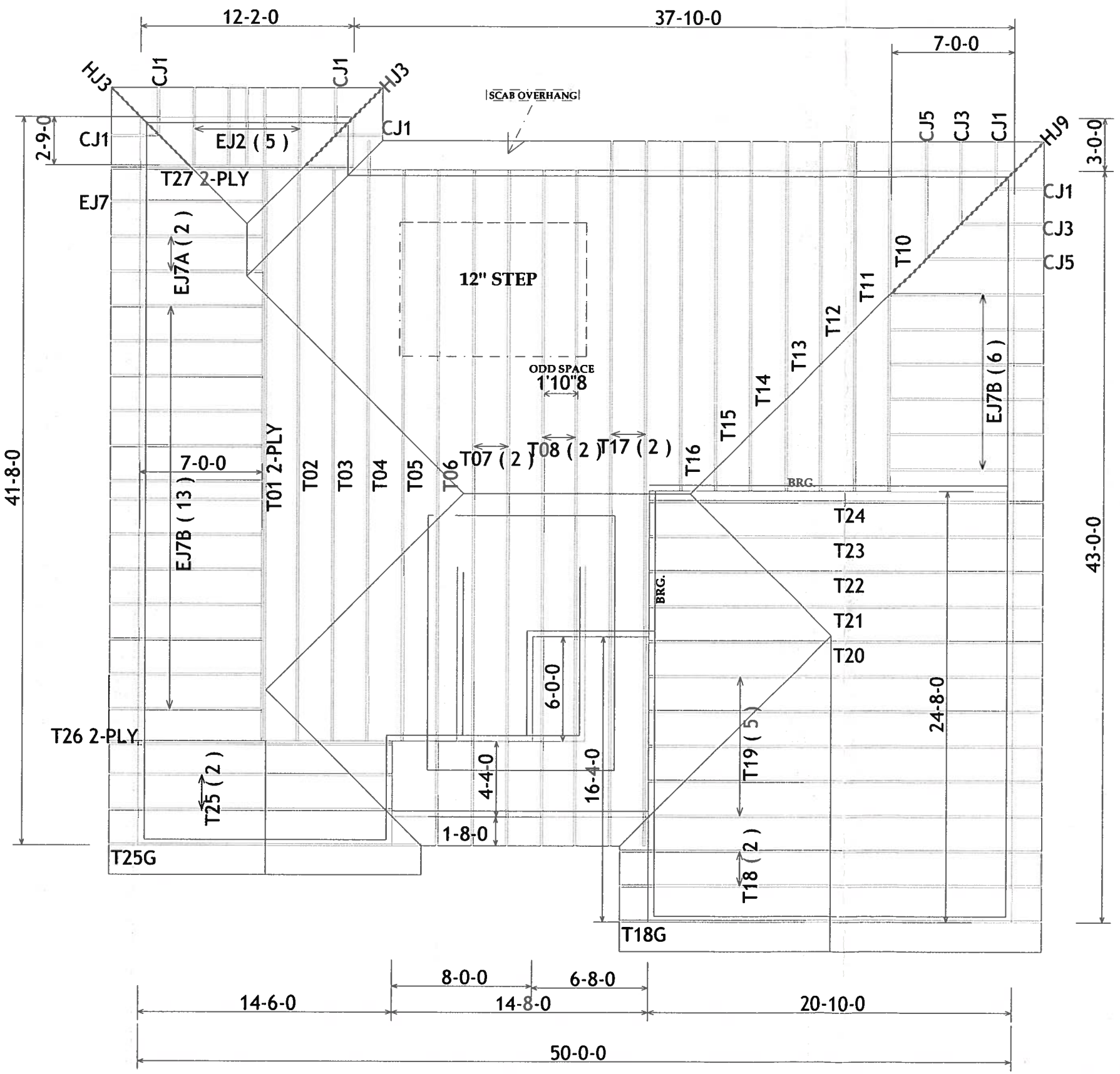
Finished Floor Elevation:	**113.79'**
Garage Floor Elevation:	**112.71'**
Lowest Adjacent Grade:	**110.9'**
Highest Adjacent Grade:	**111.9'**

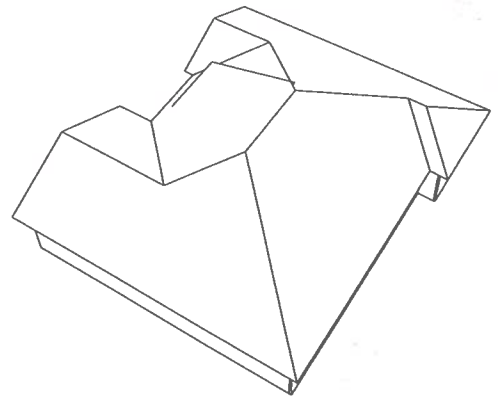
The 100 year flood elevation for this Lot is 112.0', as shown on the record subdivision plat of Gerald Riggle Development. Minimum Floor Elevation for said lot is 113.50' according to said subdivision plat.

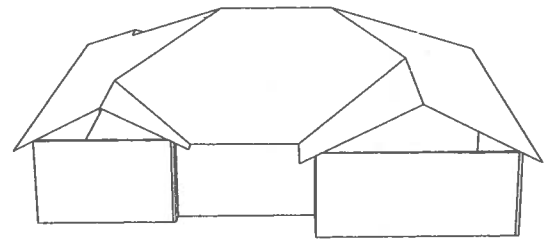
SIGNED: Timothy A Delbene

Timothy A. Delbene, P.L.S.
Florida Reg. Cert. No. 5594

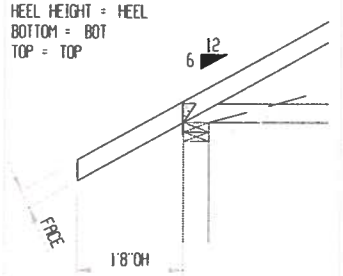
DATE: 1/18/2008.





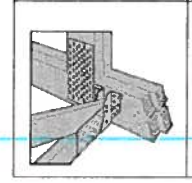
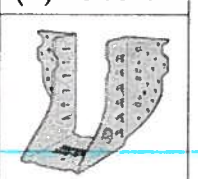


APPROVED TRUSS ANCHOR BY BUILDER
PLUMB CUT OVERHANG
HEEL HEIGHT = HEEL
BOTTOM = BOT
TOP = TOP



TRUSS END DETAIL

HANGER SCHEDULE

TRUSS HANGER INFORMATION Check TRUSS ENGINEERING for gravity and uplift values if the value exceeds the capacity of a hanger.	
(5)HTU26	(2)HGUS26-2
	

BEARING HEIGHT SCHEDULE

8'-0"

OVERHANG
1'-8"

ROOF PITCH(S)
6/12

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V10S FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HUS26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date: _____

Approved by: _____ Date: _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Lake City
PHONE: 904-755-6894 FAX: 904-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER:
ADAMS FRAMING

LEGAL ADDRESS:
COLUMBIA, FL

MODEL:	REVISION:
CUSTOM	SCALE: NTS
DATE: **07/06/07**	DRAWN BY: **A MONDRAGON**
JOB #: **L244941**	