DATE 02/16/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000024141

APPLICANT SUSAN FAIR PHONE 752-1711

ADDRESS 224 SW VERNON WAY LAKE CITY FL 32024

OWNER CORNERSTONE DEVELOPER PHONE 752-1711

ADDRESS 214 SE VICTORIA GLEN LAKE CITY FL 32025

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY BAYA,TR ON OLD COUNTRY CLUB RD, TL ON VICTORIA GLEN, 4TH ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 75250.00

HEATED FLOOR AREA 1505.00 TOTAL AREA 2077.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 18

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

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

PARCEL ID 15-4S-17-08359-112 SUBDIVISION COUNTRY SIDE ESTATES

LOT 12 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 0.50

000000971	____	CBC054575	Susan Fair	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
CULVERT	06-0013-N	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 2254

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power 02/04/2005 RJ (date/app. by) Foundation 02/04/2005 RJ (date/app. by) Monolithic ____ (date/app. by)

Under slab rough-in plumbing 02/16/2005 RJ (date/app. by) Slab 02/18/2005 RK (date/app. by) Sheathing/Nailing ____ (date/app. by)

Framing 06/03/2005 RJ (date/app. by) Rough-in plumbing above slab and below wood floor 06/01/2005 HD (date/app. by)

Electrical rough-in 06/01/2005 HD (date/app. by) Heat & Air Duct 06/01 (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 $ 380.00 CERTIFICATION FEE $ 10.38 SURCHARGE FEE $ 10.38

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

FLOOD DEVELOPMENT FEE $ 0.00 FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 500.76

INSPECTORS OFFICE [signature] 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.

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0602-36 Date Received 2-10-06 By CT Permit # 971/29141

Application Approved by - Zoning Official BLK Date 15.02.06 Plans Examiner OK JTH Date 2-15-06

Flood Zone X Per PLAT Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low DEN.

Comments

Applicants Name SUSAN FAIR Phone 386 752-1711

Address 224 SW VERNON WAY, LAKE CITY, FL 32024

Owners Name CORNERSTONE DEVELOPERS Phone 386-752-1711

911 Address 214 SE VICTORIA GLEN LAKE CITY, FL. 32025

Contractors Name BRYAN ZECHER Phone 386-752-8653

Address PO BOX 815 LAKE CITY, FL. 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address MARK DISOSWAY PO BOX 868 LAKE CITY, FL 32056

Mortgage Lenders Name & Address NA

Circle the correct power company - FL Power & Light - (Clay Elec.) - Suwannee Valley Elec. - Progressive Energy

Property ID Number 15-4S-17-08359-112 Estimated Cost of Construction 70,000.00

Subdivision Name COUNTRY SIDE ESTATES Lot 12 Block ____ Unit ____ Phase ____

Driving Directions BAYA TO OLD COUNTRY CLUB, GO 3 MILES & TURN GO RIGHT LEFT ON VICTORIA GLN. LOT IS 4TH ON RIGHT.

Type of Construction FRAME & HARDI Number of Existing Dwellings on Property 0

Total Acreage 40 acre Lot Size 1/2 acre Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 27' Side 57' Side 57' Rear 62'

Total Building Height 18'9" Number of Stories 1 Heated Floor Area 1505 Roof Pitch 6/12

Porch 144 GARAGE 428 TOTAL 2077

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 standards 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 CBC054575

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

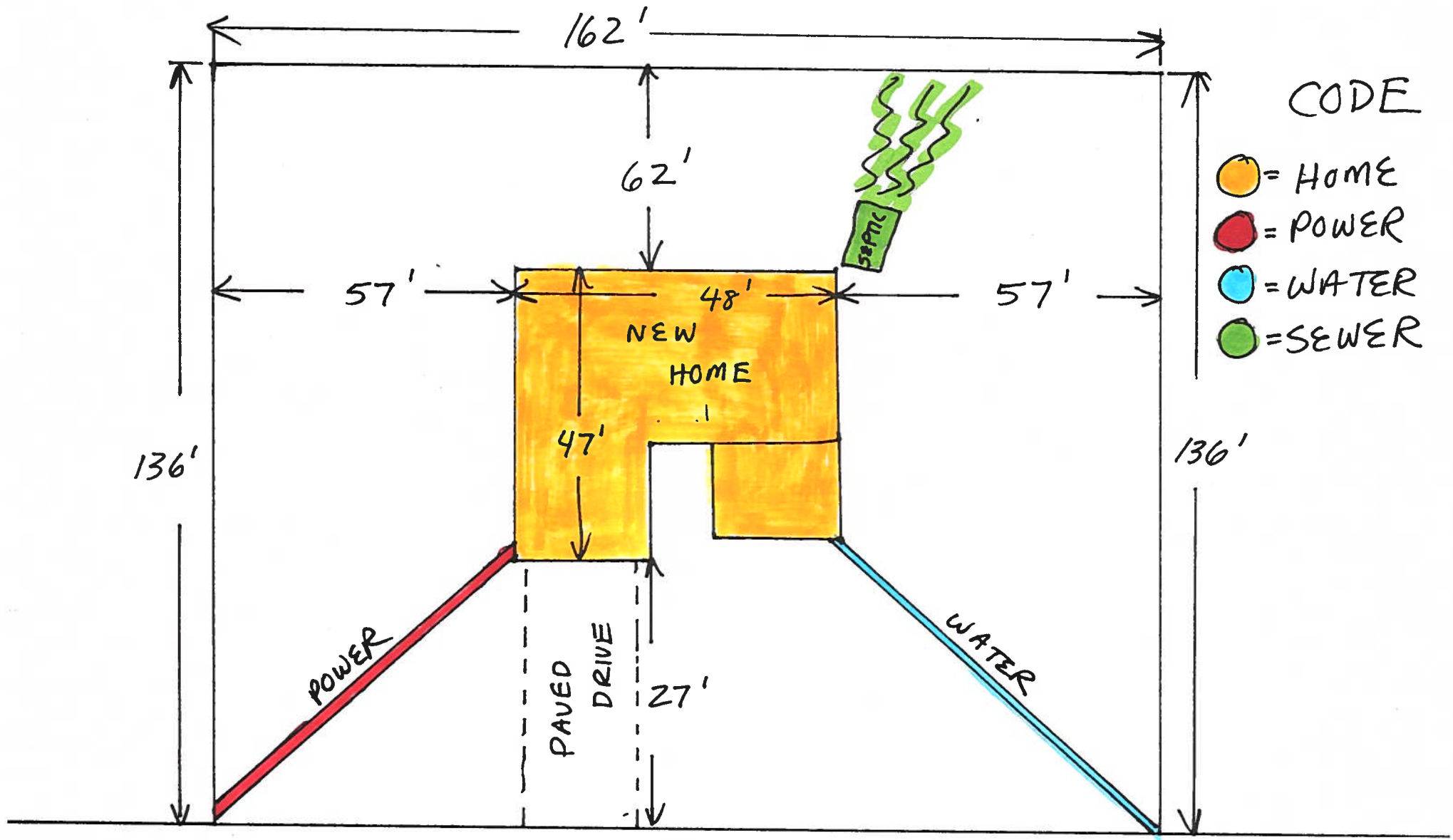
Sworn to (or affirmed) and subscribed before me this 6 day of February 2006.

Personally known ✓ or Produced Identification ____

Notary Signature

SHARON D. JOHNSON
MY COMMISSION #DD366021
EXPIRES: OCT 26, 2008
Bonded through 1st State Insurance

COUNTRYSIDE ESTATES



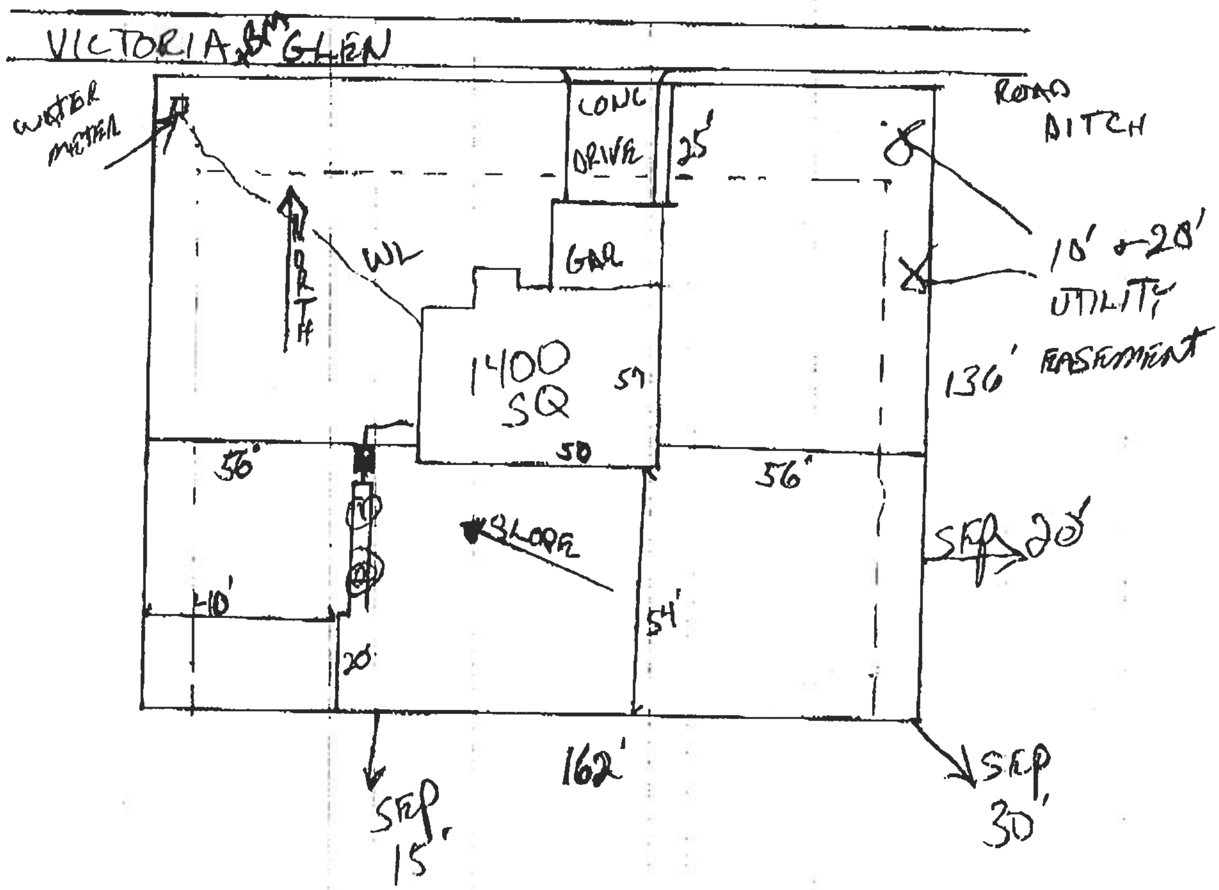
SE VICTORIA GLEN

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0013N

PART II - SITEPLAN

Scale: 1 inch = 40 feet.



Notes: ______

Site Plan submitted by: Rocky D. Ford — MASTER CONTRACTOR

Plan Approved X Not Approved ____ Date 1-10-06

By Sallie Gaddy - ESI - COLUMBIA County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4016 which may be used)
Stock Number: 5744-002-4015-6)

1)

Dec. 1,435.00

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

File No. 04-119

Property Appraiser's
Parcel Identification No.
15-4S-17-08359-016

Inst:2004008036 Date:04/08/2004 Time:12:28
Doc Stamp-Deed : 1435.00
DC,P.DeWitt Cason,Columbia County B:1012 P:49

WARRANTY DEED

THIS INDENTURE, made this 8th day of April 2004, BETWEEN ROLAND L. TARDIF and his wife, LOUISE TARDIF, whose post office address is 4078 SE Country Club Road, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantor*, and CORNERSTONE DEVELOPMENT GROUP, LLC, a Florida Limited Liability Company, whose post office address is 180 NW Amenity Court, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantee*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars ($10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

PARCEL NO. 1:

TOWNSHIP 4 SOUTH - RANGE 17 EAST

SECTION 15: Begin at the Southeast corner of the Northwest 1/4 of Section 15, Township 4 South, Range 17 East, Columbia County, Florida, and run N 1°11'01"W, along the East line of said Northwest 1/4 a distance of 679.28 feet to the POINT OF BEGINNING; thence S 88°41'16"W, 1296.02 feet to the East right-of-way line of State Road No. S-133; thence N 1°14'10"W, along said West right-of-way line 336.70 feet; thence N 88°41'16"E, 1296.33 feet to said East line of the Northwest 1/4, Section 15; thence S 1°11'01"E, along said East line 336.70 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 2:

TOWNSHIP 4 SOUTH - RANGE 17 EAST

SECTION 15: Commence at the Southeast corner of the Northwest 1/4 of Section 15, Township 4 South, Range 17 East, Columbia County, Florida, and run N 01°11'01"W, along the East line of said Northwest 1/4 a distance of 343.13 feet to the POINT OF BEGINNING; thence S 88°41'16"W, 1295.71 feet to a point on the East right-of-way line of State Road No. S-133; thence N 01°14'10"W, along said

Easterly right-of-way line 336.15 feet; thence N 88°41'16"E, 1296.02 feet to a point on the East line of said Northwest 1/4 of Section 15; thence S 01°11'01"E, along said East line 336.15 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year, & Restrictions shown on Schedule "A" attached hereto.
and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

(First Witness)
Terry McDavid
Printed Name

(Second Witness)
Myrtle Ann McElroy
Printed Name

Roland L. Tardif (SEAL)
Roland L. Tardif

Louise Tardif (SEAL)
Louise Tardif

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 6th day of April 2004, by ROLAND L. TARDIF and his wife, LOUISE TARDIF, who are personally known to me and who did not take an oath.

Notary Public
My Commission Expires:

SCHEDULE "A" ATTACHED TO WARRANTY DEED
DATED APRIL 8, 2004 FROM
ROLAND L. TARDIF & his wife, LOUISE TARDIF
TO
CORNERSTONE DEVELOPMENT GROUP, LLC

For the period of time ending twenty (20) years from this date, the property described herein shall be subject to the following restrictions:

1. No mobile homes may be placed on the property.

2. Any home built on the property shall be a single family residence having not less than 1,100 square feet of heated living area.

Inst:2004008036 Date:04/08/2004 Time:12:28
Doc Stamp-Deed : 1435.00
DC,P.DeWitt Cason,Columbia County B:1012 P:51

COLUMBIA COUNTY 9-1-1 ADDRESSING

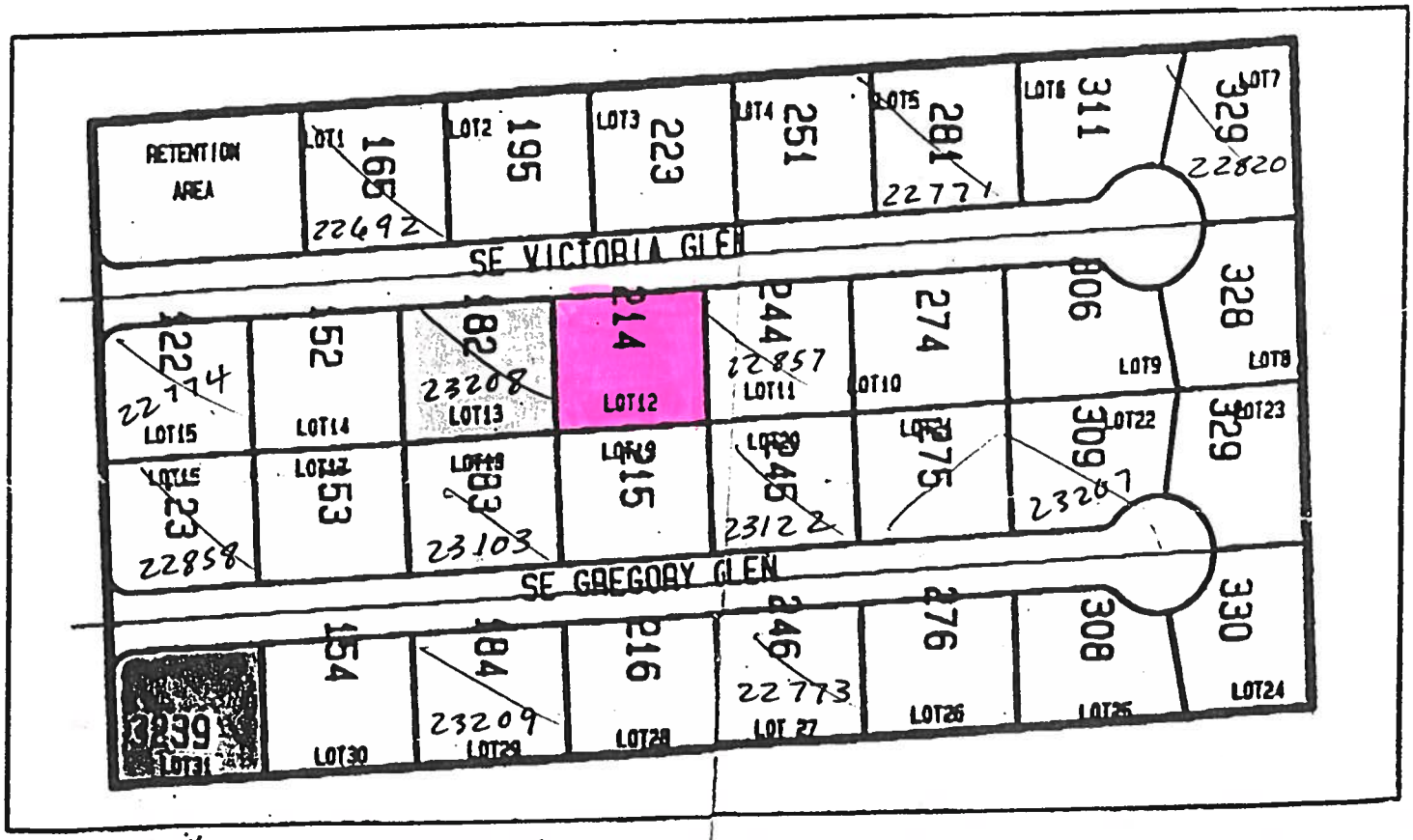
263 NW Lake City Ave. * P. O. Box 2949 * Lake City, FL 32056-2949
PHONE: (386) 752-8787 * FAX (386) 758-1363 * Email: ron_croft@columbiacountyfla.com

32025

Addresses for Country Side Estates Subdivision:

Lot #:	Address Assigned:
1	165 SE Victoria Glen
2	195 SE Victoria Glen
3	223 SE Victoria Glen
4	251 SE Victoria Glen
5	281 SE Victoria Glen
6	311 SE Victoria Glen
7	329 SE Victoria Glen
8	328 SE Victoria Glen
9	306 SE Victoria Glen
10	274 SE Victoria Glen
11	244 SE Victoria Glen
12	214 SE Victoria Glen
13	182 SE Victoria Glen
14	152 SE Victoria Glen
15	122 SE Victoria Glen

Lot #:	Address Assigned:
16	123 SE Gregory Glen
17	153 SE Gregory Glen
18	183 SE Gregory Glen
19	215 SE Gregory Glen
20	245 SE Gregory Glen
21	275 SE Gregory Glen
22	309 SE Gregory Glen
23	329 SE Gregory Glen
24	330 SE Gregory Glen
25	308 SE Gregory Glen
26	276 SE Gregory Glen
27	246 SE Gregory Glen
28	216 SE Gregory Glen
29	184 SE Gregory Glen
30	154 SE Gregory Glen
31	~~3239 SE Country Club Rd~~ 124 SE Gregory Glen



1500/1974 - 469.74
1200/1665 - 391.64

LOT 12, USE

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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.

Tax Parcel ID Number 15-4S-17-08359-112

1. **Description of property: (legal description of the property and street address or 911 address)**
214 SE VICTORIA GLEN
LAKE CITY, FL 32025

2. **General description of Improvement:** New Home

3. **Owner Name & Address** Cornerstone Development Group, LLC
180 NW Amenity Ct, Lake City **Interest in Property** Fee Simple

4. **Name & Address of Fee Simple Owner (if other than owner):**

5. **Contractor Name** Bryan Zacher Construction **Phone Number** 386-752-8653
Address PO Box 815, Lake City, FL 32056

6. **Surety Holders Name** N/A **Phone Number**
Address
Amount of Bond N/A

Inst:2006000194 Date:01/05/2006 Time:13:04
DC,P.DeWitt Cason,Columbia County B:1070 P:688

7. **Lender Name** N/A
Address

8. **Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:**
Name N/A **Phone Number**
Address

9. **In addition to himself/herself the owner designates** N/A **of**
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. **Phone Number of the designee** N/A

10. **Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified)** N/A

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

X _____
Signature of Owner

Sworn to (or affirmed) and subscribed before day of Jan 4, 20 06

NOTARY STAMP/SEAL

SUSAN ANN FAIR
MY COMMISSION # DD 342845
EXPIRES: August 14, 2008
Bonded Thru Notary Public Underwriters

Susan Ann Fair
Signature of Notary

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: _____

_____ _____

(Address of Treatment or Lot/Block of Treatment) City

Florida Pest Control & Chemical Co.

www.flapest.com

Product to be used: Bora-Care Termiticide (Wood Treatment)

Chemical to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction. Bora-Care Termiticide application shall be applied according to EPA registered label directions as stated in the Florida Building Code Section 1861.1.8

(Information to be provided to local building code offices prior to concrete foundation installation.)

6/04

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**TheSamuelModel601181**	Builder:	**Bryan Zecher Construction**
Address:	**Lot: 12, Sub: CSE, Plat:**	Permitting Office:	Columbia
City, State:	**Lake City, FL**	Permit Number:	24141
Owner:	**Model Home**	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: 34.0 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?	Yes		
6. Conditioned floor area (ft²)	1505 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) 220.0 ft²	a. Electric Heat Pump	Cap: 34.0 kBtu/hr
b. SHGC:			HSPF: 7.90
(or Clear or Tint DEFAULT) 7b.	(Clear) 220.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 207.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Adjacent	R=13.0, 152.0 ft²		EF: 0.93
b. Frame, Wood, Exterior	R=13.0, 1180.0 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, 1759.0 ft²	15. HVAC credits	
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 150.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.15	Total as-built points: 22863 Total base points: 23628	PASS

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

PREPARED BY: _____

DATE: 1-12-06

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

OWNER/AGENT: _____

DATE: 2-7-06

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: **Lot: 12, Sub: CSE, Plat: , Lake City, FL,** 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	1505.0	20.04	5428.8	Double, Clear	SE	2.0	5.5	45.0	42.75	0.77	1488.9	
				Double, Clear	S	14.5	7.0	15.0	35.87	0.45	241.7	
				Double, Clear	SE	12.0	5.3	45.0	42.75	0.39	759.0	
				Double, Clear	E	8.5	7.0	10.0	42.06	0.47	196.6	
				Double, Clear	SW	2.0	1.5	6.0	40.16	0.44	106.0	
				Double, Clear	NW	9.5	7.5	6.0	25.97	0.60	93.2	
				Double, Clear	NW	2.0	5.5	30.0	25.97	0.86	666.7	
				Double, Clear	NW	2.0	8.0	30.0	25.97	0.93	721.1	
				Double, Clear	NE	1.5	3.5	3.0	29.56	0.80	71.0	
				Double, Clear	SW	1.5	5.5	30.0	40.16	0.86	1039.8	
				As-Built Total:				**220.0**			**5384.1**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	152.0	0.70	106.4	Frame, Wood, Adjacent			13.0	152.0	0.60		91.2	
Exterior	1180.0	1.70	2006.0	Frame, Wood, Exterior			13.0	1180.0	1.50		1770.0	
Base Total:	**1332.0**		**2112.4**	**As-Built Total:**				**1332.0**			**1861.2**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	20.0	1.60	32.0	Exterior Insulated				10.0	4.10		41.0	
Exterior	30.0	4.10	123.0	Exterior Insulated				20.0	4.10		82.0	
				Adjacent Insulated				20.0	1.60		32.0	
Base Total:	**50.0**		**155.0**	**As-Built Total:**				**50.0**			**155.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1505.0	1.73	2603.7	Under Attic			30.0	1759.0	1.73 X 1.00		3043.1	
Base Total:	**1505.0**		**2603.7**	**As-Built Total:**				**1759.0**			**3043.1**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	207.0(p)	-37.0	-7659.0	Slab-On-Grade Edge Insulation			0.0	207.0(p	-41.20		-8528.4	
Raised	0.0	0.00	0.0									
Base Total:			**-7659.0**	**As-Built Total:**				**207.0**			**-8528.4**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1505.0	10.21	15366.0					1505.0	10.21		15366.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 12, Sub: CSE, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT						
Summer Base Points: 18006.9			**Summer As-Built Points: 17281.0**						
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 34000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
			17281	1.00	(1.09 x 1.147 x 1.00)	0.263	1.000	5672.2	
18006.9	**0.4266**	**7681.8**	**17281.0**	**1.00**	**1.250**	**0.263**	**1.000**	**5672.2**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 12, Sub: CSE, Plat: , Lake City, FL,** 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	1505.0	12.74	3451.3	Double, Clear	SE	2.0	5.5	45.0	14.71	1.21	798.3	
				Double, Clear	S	14.5	7.0	15.0	13.30	3.52	702.2	
				Double, Clear	SE	12.0	5.3	45.0	14.71	2.54	1682.8	
				Double, Clear	E	8.5	7.0	10.0	18.79	1.34	252.1	
				Double, Clear	SW	2.0	1.5	6.0	16.74	1.76	176.3	
				Double, Clear	NW	9.5	7.5	6.0	24.30	1.03	149.9	
				Double, Clear	NW	2.0	5.5	30.0	24.30	1.01	734.7	
				Double, Clear	NW	2.0	8.0	30.0	24.30	1.00	731.2	
				Double, Clear	NE	1.5	3.5	3.0	23.57	1.02	72.1	
				Double, Clear	SW	1.5	5.5	30.0	16.74	1.07	538.4	
				As-Built Total:				**220.0**			**5838.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	152.0	3.60	547.2	Frame, Wood, Adjacent	13.0	152.0	3.30	501.6
Exterior	1180.0	3.70	4366.0	Frame, Wood, Exterior	13.0	1180.0	3.40	4012.0
Base Total:	**1332.0**		**4913.2**	**As-Built Total:**		**1332.0**		**4513.6**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	10.0	8.40	84.0
Exterior	30.0	8.40	252.0	Exterior Insulated	20.0	8.40	168.0
				Adjacent Insulated	20.0	8.00	160.0
Base Total:	**50.0**		**412.0**	**As-Built Total:**	**50.0**		**412.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	1505.0	2.05	3085.3	Under Attic	30.0	1759.0	2.05 X 1.00	3605.9
Base Total:	**1505.0**		**3085.3**	**As-Built Total:**		**1759.0**		**3605.9**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	207.0(p)	8.9	1842.3	Slab-On-Grade Edge Insulation	0.0	207.0(p	18.80	3891.6
Raised	0.0	0.00	0.0					
Base Total:			**1842.3**	**As-Built Total:**		**207.0**		**3891.6**

INFILTRATION	Area X	BWPM	= Points	Area X	WPM	= Points
	1505.0	-0.59	-887.9	1505.0	-0.59	-887.9

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 12, Sub: CSE, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT						
Winter Base Points:		**12816.1**	**Winter As-Built Points:**						**17373.2**
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 34000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
			17373.2	1.000	(1.069 x 1.169 x 1.00)	0.432	1.000	9371.3	
12816.1	**0.6274**	**8040.8**	**17373.2**	**1.00**	**1.250**	**0.432**	**1.000**	**9371.3**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 12, Sub: CSE, Plat: , Lake City, FL,** 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	40.0	0.93	3	1.00	2606.67	1.00	7820.0	
				As-Built Total:						**7820.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
7682	**8041**	**7905**	**23628**	**5672**	**9371**	**7820**	**22863**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 12, Sub: CSE, Plat: , Lake City, FL,** 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 circuit 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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.9

The higher the score, the more efficient the home.

Model Home, Lot: 12, Sub: CSE, Plat: , Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 34.0 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?	Yes			
6.	Conditioned floor area (ft²)	1505 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) 220.0 ft²		a. Electric Heat Pump	Cap: 34.0 kBtu/hr
	b. SHGC:				HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 220.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 207.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Adjacent	R=13.0, 152.0 ft²			EF: 0.93
	b. Frame, Wood, Exterior	R=13.0, 1180.0 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, 1759.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 150.0 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: 2-7-06

Address of New Home: 214 SE VICTORIA GLN. City/FL Zip: LAKE CITY FL 32025

*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.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000971

DATE 02/16/2006 PARCEL ID # 15-4S-17-08359-112

APPLICANT SUSAN FAIR PHONE 752-1711

ADDRESS 224 SW VERNON WAY LAKE CITY FL 32024

OWNER CORNERSTONE DEVELOPERS PHONE 752-1711

ADDRESS 214 SE VICTORIA GLEN LAKE CITY FL 32025

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY BAYA, TR ON OLD COUNTRY CLUB RD, TL ON VICTORIA GLEN, 4TH ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY SIDE ESTATES 12

SIGNATURE Susan Fair

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 FLORIDA

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 15-4S-17-08359-112 **Building permit No.** 000024141

Use Classification SFD,UTILITY **Fire:** 29.60

Permit Holder BRYAN ZECHER **Waste:** 61.25

Owner of Building CORNERSTONE DEVELOPER **Total:** 90.85

Location: 214 SE VICTORIA GLEN(COUNTRY SIDE ESTATES,LOT 12)

Date: 05/16/2006

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☐	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☐	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☐	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☐	☐	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
☐	☐	**Elevations including:**
☐	☐	a) All sides
☐	☐	b) Roof pitch
☐	☐	c) Overhang dimensions and detail with attic ventilation
☐	☐	d) Location, size and height above roof of chimneys
☐	☐	e) Location and size of skylights
☐	☐	f) Building height
☐	☐	e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned

b) Shear walls

c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)

d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth

e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails

f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing

b) All posts and/or column footing including size and reinforcing

c) Any special support required by soil analysis such as piling

d) Location of any vertical steel

Roof System:

a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng
2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

NA

Wall Sections including:

a) Masonry wall

1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

NA

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

NA

~~c) Metal frame wall and roof (designed, signed and sealed by Florida Pro: Engineer or Architect)~~

~~Floor Framing System:~~

~~a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer~~

~~b) Floor joist size and spacing~~

NA

~~c) Girder size and spacing~~

~~d) Attachment of joist to girder~~

~~e) Wind load requirements where applicable~~

Plumbing Fixture layout

Electrical layout including:

a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

b) Ceiling fans

c) Smoke detectors

d) Service panel and sub-panel size and location(s)

e) Meter location with type of service entrance (overhead or underground)

f) Appliances and HVAC equipment

g) Arc Fault Circuits (AFCI) in bedrooms

HVAC information.

a) Manual J sizing equipment or equivalent computation

b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

Gas System Type (LP or Natural) Location and BTU demand of equipment N/A

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water — private water system

a) Size of pump motor

b) Size of pressure tank

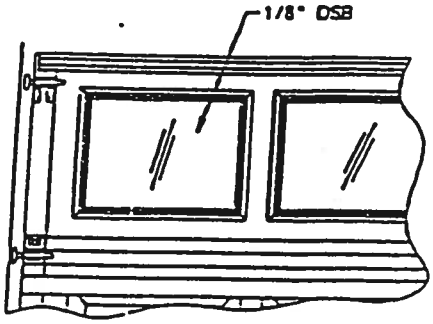
c) Cycle stop valve if used

GARAGE DOORS

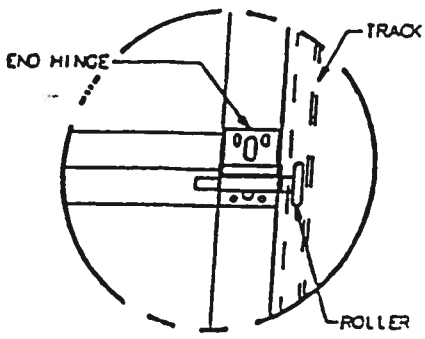
REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVED
A	REV PER EN 10130	3/06/98	DL
B	REV PER EN 10141	3/13/98	DL
C	REV PER EN 10152	7/28/98	DL

SECTION WITH 5 OR MORE SECTIONS MUST BE
E STRUTS FOR THE ADDITIONAL INTERMEDIATE
ON THE THIRD SECTION.
L SECTIONS LESS THAN 20.812" MUST BE
THE ACTUAL SECTION HEIGHT & 20.812".
X 5/8" LONG TYPE AB HEX HEAD METAL SCREW
WIND WARNINGS ISSUED.

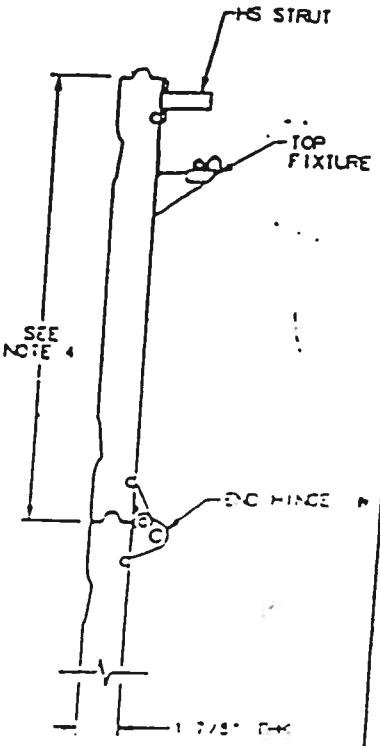
2.



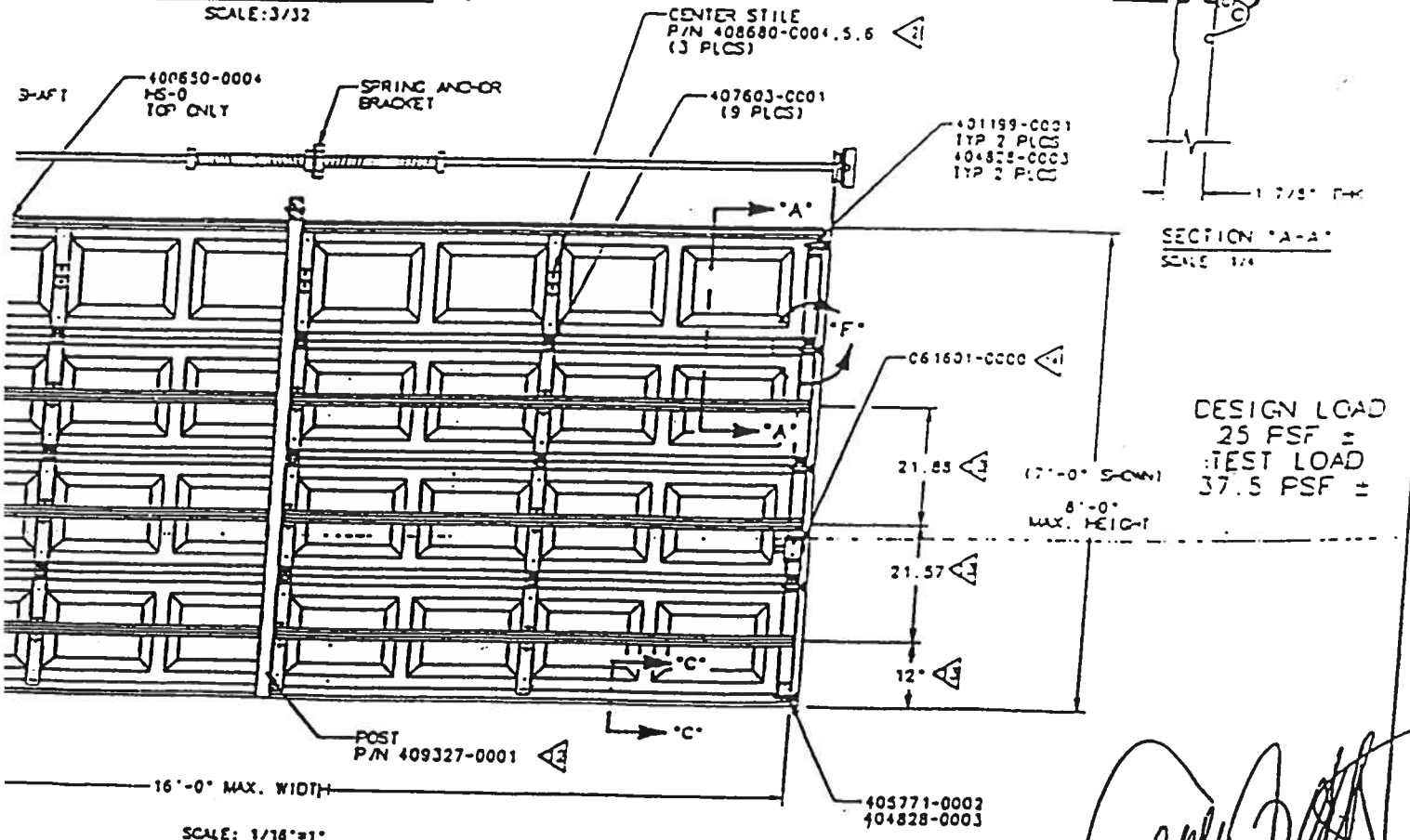
OPTIONAL WINDOW DETAIL 8
SCALE: 3/32



DETAIL "F"
SCALE: 1/4
(16" WIDE)



SECTION "A-A"
SCALE 1/4



SCALE: 1/16"=1"
INTERIOR ELEVATION

DESIGN LOAD
25 PSF ±
TEST LOAD
37.5 PSF ±

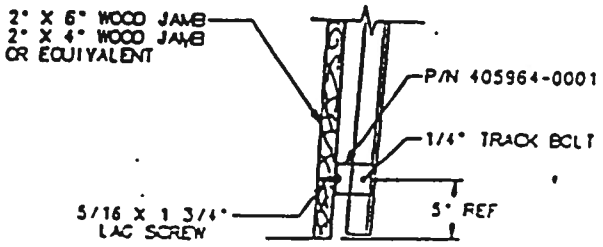
10/01/01

UNLESS OTHERWISE SPECIFIED						
DIMENSIONS ARE IN INCHES TOLERANCES ON						
SECTION DIMENSIONS	HOLE DIAMETERS	ANGLES ± 2°				
.XX ± .03	.XX ± .02					
.XXX ± .010	.XXX ± .005					
FRACTIONS ± 1/64						

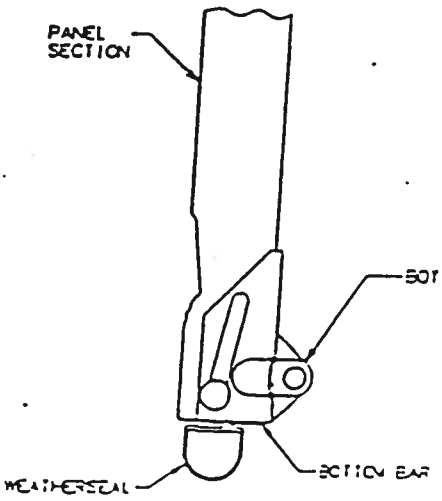
OVERHEAD DOOR DALLAS TEXAS	DRAWN BY: M. YOUNIS	01/13/98	DRAWING TITLE: SERIES 280 & 180 RESI STL DR, 16'-0" MAX WIDTH, WINDLOAD
MATERIAL: N/A	CHECKED BY: DAVID FAW	02/19/98	DRAWING NUMBER: D- 409335
APPLIED FINISH: NONE	UNIT OF MEASURE: EACH	APPROVED BY: DAVID FAW 02/19/98	SCALE:

NOTES:

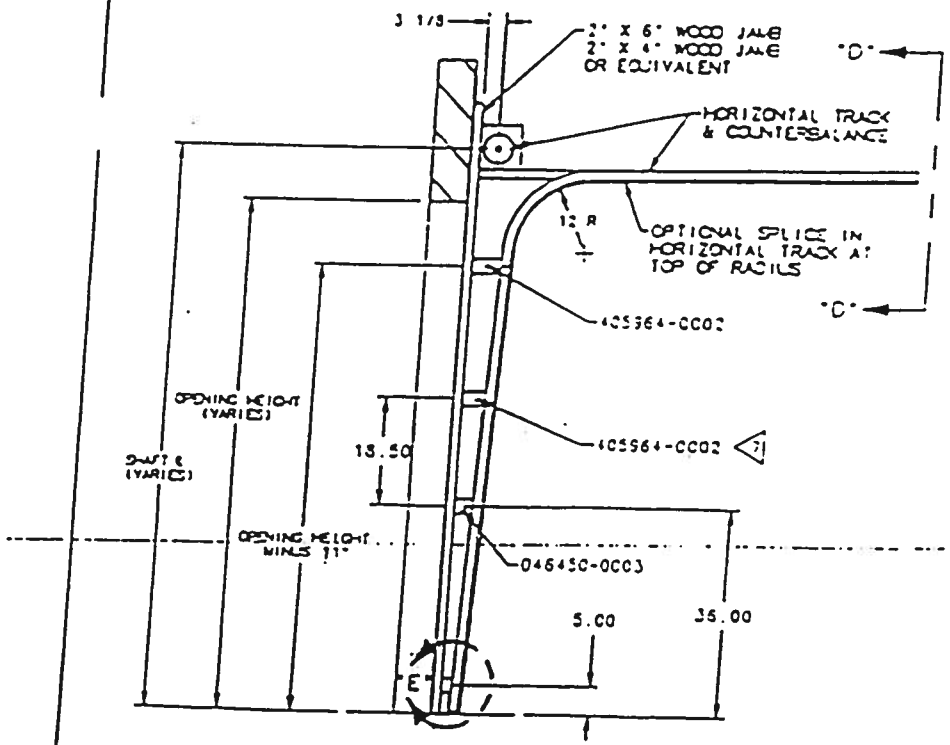
1. TESTED IN ACCORDANCE WITH STANDARD BUILDING CODE, CHAPTER 17, TO A POSITIVE AND NEGATIVE 37.5 PSF.
2. DASH NUMBERS REPRESENT VARIOUS SECTION HEIGHTS.
3. FOUR SECTION 7' HIGH DOOR SHOWN. 8' HIGH DOORS HAVE FIVE SECTIONS.
4. SECTION HEIGHT OF 20.812, 19.00 & 16.75 ARE AVAILABLE AND MAY BE USED IN COMBINATION TO ACHIEVE VARIOUS HEIGHT DOORS.
5. EMBOSSMENT PATTERN OF 14.50 X 20.375 SHOWN. ALTERNATE PATTERNS OF 12.50 X 43.375 AND 12.50 X 20.375 MAY BE USED.
6. TORSION SPRINGS SHOWN. EXTENSION SPRINGS AVAILABLE.
7. USE THIS BRACKET, REF. P/N 405964-0002, ON 8' HIGH DOORS ONLY.
8. WINDOW MAY BE INSTALLED IN THE TOP SECTION OR THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
9. THE STRUT PLACEMENT ON DOO CONSISTENT WITH THE DOOR S SECTIONS ARE TO BE PLACED
10. THE STRUT PLACEMENT DIMENS REDUCED BY THE DIFFERENCE
11. SCREW P/N 605911-0001 IS A
12. POST TO BE INSTALLED ONLY W
13. STRUT PLACEMENTS CAN VARY
14. QUANTITY FOR LOCKS CAN BE O



DETAIL "E"
SCALE: 1/3

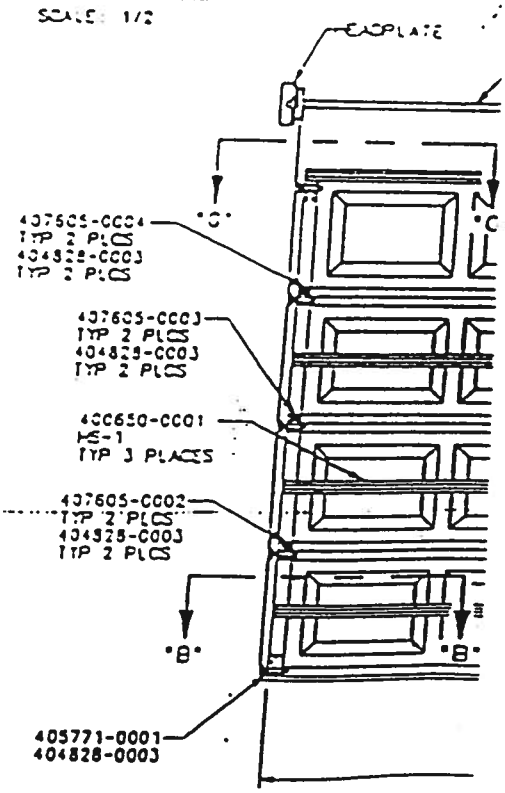


VIEW "D-D"
2" TRACK
.049 THK (VERTI



STANDARD TRACK DETAIL FOR 16"
SCALE: 1/16" = 1"

SECTION "C-C"
SCALE: 1/2



SERIES 280 THRU 289 ARE EQUIVALENT CONSTRUCTION 25GA STEEL
SERIES 180 ARE SAME CONSTRUCTION AS SERIES 280 ONLY 24GA STEEL AND END CAPS

DOOR TESTED WAS 281 SERIES.

DOOR WIDTH	CENTER STILE	END STILE	ROLLER SHAFT BRACKET	STRUTS/SECT.	ROLLER	VERTICAL TRACK GAGE	JAMB LOAD (# PER FT-HT)	HARDWARE
16'	3	SINGLE		HS1 HS0	2" X 7/16"	.049"	100	STD.

SHINGLES

ELK Premium Roofing

March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:
ASTM D3462
PA 100 (110 mph uplift and wind driven rain resistance)
PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 35, or Prestique 30 –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –
PA 100 = 4 nails
PA 107 = 4 nails
MD NOA# = 01-1226.03

Capstone*
PA 100 = 4 Nails
PA 107 = 4 Nails
MD NOA# = 01-0523.01
* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty

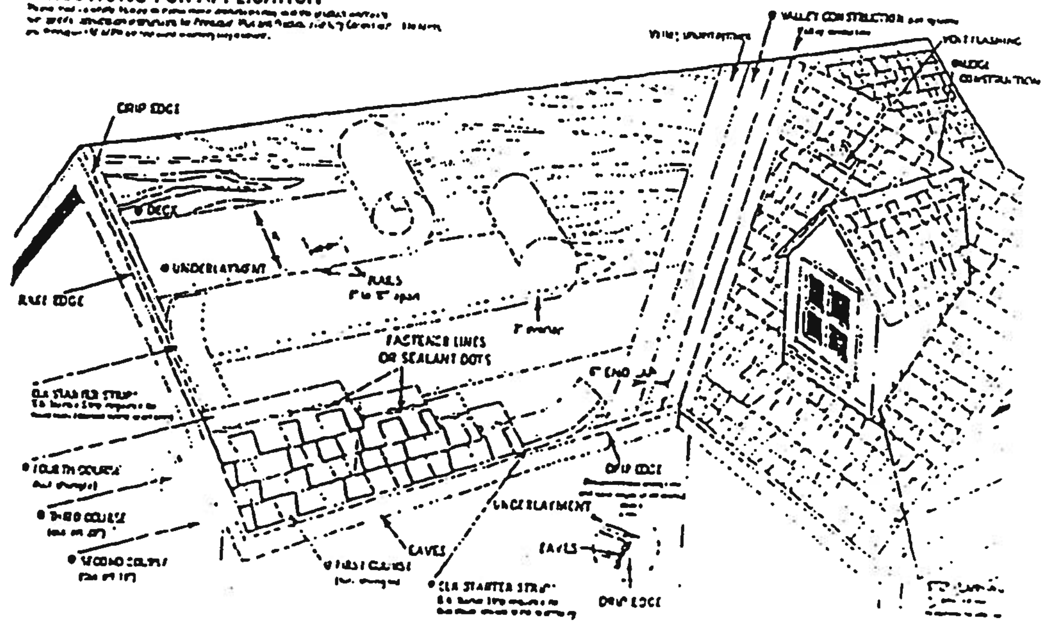
If there are any questions please contact:

Mike Reed – Technical Manager
(205) 342-0287

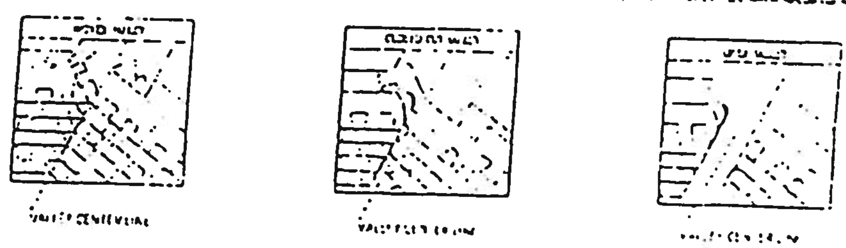
or

Daniel DeJarnette – QA Engineer
(205) 342-0298

DIRECTIONS FOR APPLICATION



VALLEY CONSTRUCTION OPTIONS [illegible]



DIRECTIONS FOR APPLICATION

[illegible]

DECK PREPARATION

[illegible]

UNDERLAYMENT

[illegible]

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

[illegible]

STARTER SHINGLE COURSE

[illegible]

FIRST COURSE

[illegible]

SECOND COURSE

[illegible]

THIRD COURSE

[illegible]

FOURTH COURSE

[illegible]

FIFTH AND SUCCEEDING COURSES

[illegible]

VALLEY CONSTRUCTION

[illegible]

RIDGE CONSTRUCTION

[illegible]

FASTENERS

[illegible]

MANSARD APPLICATIONS

[illegible]

LIMITED WIND WARRANTY

[illegible]

CAUTION TO WHOLESALER: [illegible] storage or handling can harm [illegible] shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK

www.elkcorp.com

ROOFING PRODUCTS SPECIFICATIONS – TUSCALOOSA, AL

PRESTIQUE® HIGH DEFINITION®

RAISED PROFILE™

High Definition

Product Size	13¼" x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Shingles/Square	[illegible]
Squares/Pallet	[illegible]

[illegible] limited warranty period [illegible] coverage to shingles and application labor [illegible] 5 years [illegible] wind warranty*

Product Size	13¼" x 39⅜"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	[illegible]
Squares/Pallet	16

[illegible] limited warranty period [illegible] coverage to shingles and application labor [illegible] 5 years [illegible] wind warranty*

High Definition

Product Size	13¼" x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Shingles/Square	[illegible]
Squares/Pallet	14

[illegible] limited warranty period [illegible] coverage to shingles and application labor [illegible] 5 years [illegible] wind warranty*

HIP AND RIDGE SHINGLES

Size [illegible]
Exposure [illegible]
Pieces/Bundle [illegible]
Coverage [illegible] 100 linear feet

High Definition

Product Size	13¼" x 39⅜"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	[illegible]
Squares/Pallet	16

[illegible] limited warranty period [illegible] coverage to shingles and application labor [illegible] 5 years [illegible] wind warranty*

[illegible]

Available Colors: [illegible]

All Prestique, Raised Profile and [illegible] products [illegible]

Check for availability [illegible]

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790), and ASTM Specifications D 3018, Type I; D 3161, Type I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

* See actual limited warranty for conditions and limitations.
* Check for product availability.

[illegible] Pennsylvania [illegible] American Plywood Association [illegible] plywood [illegible] are NOT approved substrates for Elk shingles. Consult Elk Field Service for application [illegible]

[illegible] For areas where algae is a problem, shingles shall be [illegible] StainGuard treatment [illegible] Complete application instructions are published [illegible] of every shingle bundle. [illegible]

[illegible] application instructions.

For specification in CSI format, call [illegible] or [illegible]

SOUTHEAST & ATLANTIC OFFICE: 800.945.5551

CORPORATE HEADQUARTERS: 800.354.7732

PLANT LOCATION: 800.945.5545

ELK
www.elkcorp.com

WINDOWS

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:mlb

1 APRIL 2002

STATE OF FLORIDA PROFESSIONAL ENGINEER

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.architest.com

Allen G. Reeves
1 APRIL 2002

ALLEN G. REEVES
No. 18354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

ALLEN N. REEVES CERTIFICATE NO. 13??? STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen N. Reeves
1 APRIL 2002

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft²	0.3 cfm/ft² max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen M. Reeves
1 APRIL 2002

ALLEN M. REEVES ★ CERTIFICATE NO. 18377 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987)		
	In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

Allen N. Reeves
1 April 2002

LEIL H. REEVES
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:mb
01-41134.01

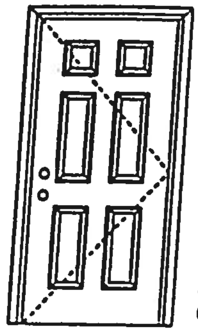
ALLEN N. REEVES
CERTIFICATE
NO. 1[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center

Single Door

Design Pressure
+66.0/-66.0
limited water unless special threshold design is used

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

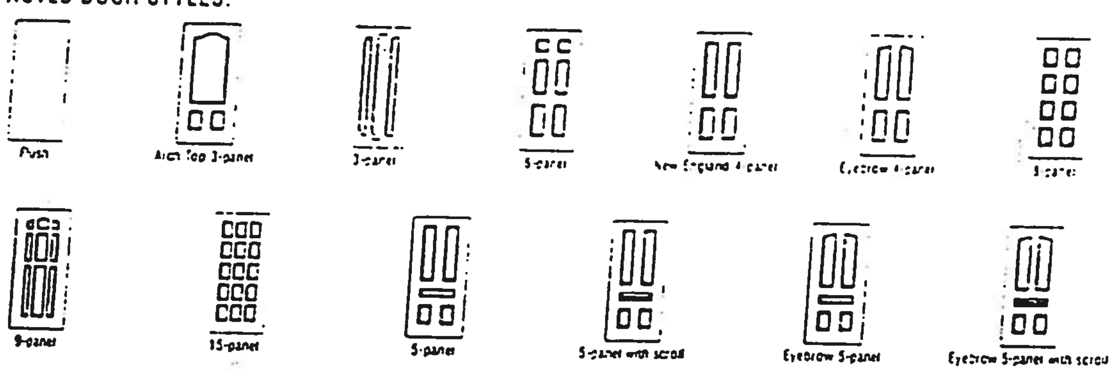
MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see

APPROVED DOOR STYLES:



Johnson EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOOR Collection

Exclusively from Masonite
Masonite International Corporation

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

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.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

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).

Kurt L Balthazor

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

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Variation Matrix #3026447A-001 provides additional information - available from the ITS WH website (www.etsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson EntrySystems

June 17, 2002

Our continuing program of product improvement may necessitate changes without notice.

PREMDOR Premium Quality Doors

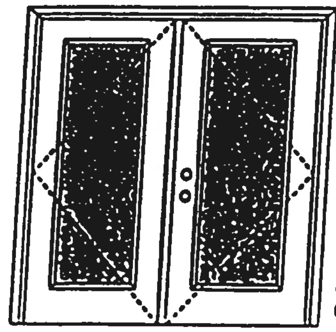
Exclusively from Masonite®
Masonite International Corporation

XX
Glazed Inswing Unit

COP-WL-JH4142-02

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".

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS-WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center

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] state or local building codes specify the edition required

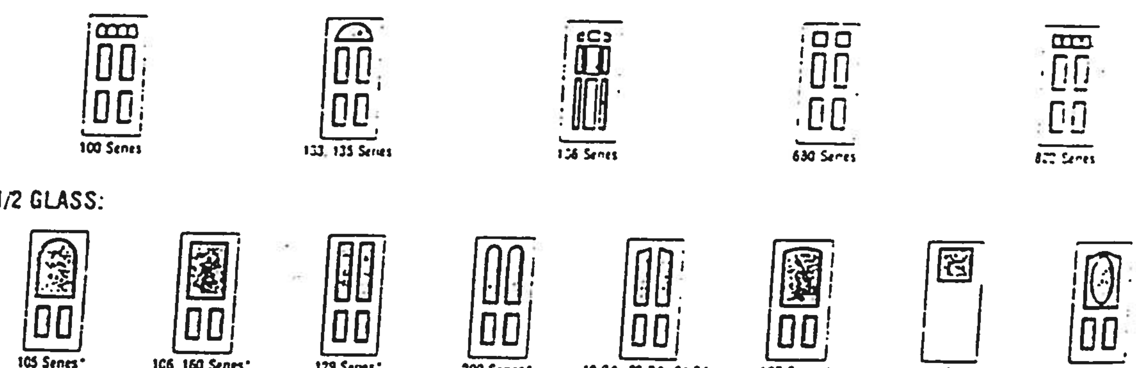
MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0002-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02

APPROVED DOOR STYLES:
1/4 GLASS:



100 Series | 133, 135 Series | 136 Series | 630 Series | 8[illegible] Series

1/2 GLASS:

105 Series* | 106, 160 Series* | 129 Series* | 200 Series* | 12 R/L, 23 R/L, 24 R/L Series* | 107 Series* | 108 Series | 304 Series

*This glass kit may also be used in the following door styles: 5-panel, 5-panel with scroll, Eyebrow 5-panel, Eyebrow 5-panel with scroll.

Johnson EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice

PREMDOOR Collection
Exclusively from Masonite
Masonite International Corporation

XX
Glazed Inswing Unit

COP-WL-JH4142-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade ECCO 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 threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE ECCO 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).

Kurt L Balthazor

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

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etsemso.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson EntrySystems

June 17, 2002

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite

Masonite International Corporation

Anthony Power Header®

GARAGE HEADER (84) **26F$_b$ - 1.9E**

ENGINEERED WOOD SECTION PROPERTIES AND LOAD CAPACITIES

ALLOWABLE DESIGN STRESSES (PSI):

FLEXURAL STRESS (F_b) =	2600
COMPRESSION PERP. TO GRAIN ($F_{c\perp}$) =	740
HORIZONTAL SHEAR (F_v) =	225
MODULUS OF ELASTICITY (MOE) =	1.9×10^6

	7.7	9.0	10.4	11.7	12.9	14.2	15.5
	326	514	789	1115	1521	2014	2604
	8865	12015	15996	20145	24772	29877	35460
	3908	4550	5250	5892	6533	7175	7817

NOTES:

1. Beam weights are based on 38 pcf.
2. Moment capacities are based on a span of 21 feet and must be modified for other spans.
3. Flexural Stress, F_b, shall be modified by the Volume Factor, C_v, as outlined in AITC 117 - Design 1993 and the NDS for Wood Construction 1997.
4. Allowable design properties and load capacities are based on a load duration of 100 percent and dry use conditions.
5. The AITC NER 466 was used in calculating the above allowable design stresses for Power Header®.

GARAGE HEADER COMPARISONS

	810 / 540	3-1/2" x 8-3/8"	3-1/2" x 9-5/8"	3-1/2" x 9"	3-1/2" x 9-1/4"	3-1/2" x 11-1/4"
	990 / 720	3-1/2" x 9-3/4"	3-1/2" x 9-5/8"	3-1/2" x 10-1/2"	3-1/2" x 9-1/4"	3-1/2" x 11-1/4"
	640 / 400	3-1/2" x 12-5/8"	3-1/2" x 13-3/4"	3-1/2" x 13-1/2"	3-1/2" x 14"	3-1/2" x 14"
	765 / 510	3-1/2" x 14"	3-1/2" x 15-1/8"	3-1/2" x 15"	3-1/2" x 14"	3-1/2" x 16"
	750 / 480	3-1/2" x 15-3/8"	3-1/2" x 16-1/2"	3-1/2" x 16-1/2"	3-1/2" x 16"	3-1/2" x 18"
	900 / 600	3-1/2" x 16-3/4"	3-1/2" x 17-7/8"	3-1/2" x 18"	3-1/2" x 16"	—

For more information on Power Header®, or other laminated structural products from Anthony Forest Products Company please call 1-800-221-2326 or FAX at 870-862-6502.

Distributed by:

WOODFORD PLYWOOD, INC.
"Structural Wood Products"
11980 West Beaver Street
Jacksonville, Florida 32220
(904) 695-9080
(800) 447-6568
FAX (904) 695-9160

Anthony POWER HEADER®

26F$_b$ - 1.9E

3-1/2" WIDTH GARAGE HEADER PLF CAPACITY

844	896		1216		1573						
161	207	254	330	390	510	552	669	752	824		
114	145	180	231	277	359	391	510	534	653	707	789

844	975		1322								
161	207	254	330	390	510	552	724	752	897		
114	145	180	231	277	359	391	510	534	699	693	

562	778	888	1056	1363	1367		1582						
107	153	169	245	260	380	368	540	501	715	664	864	840	
76	107	120	171	185	267	261	380	356	521	471	684	609	813

NOTES:

1. Values shown are the maximum uniform loads in pounds per lineal foot (PLF) that can be applied to the header. Header weight has been subtracted from the allowable total load.
2. Tables are based on simple span uniform load conditions using a design span equal to the center-to-center of bearing. Non-shaded areas are based on 3" of bearing at each support, shaded areas on 4.5" of bearing, and shaded & outlined areas on 6" of bearing at supports.
3. Headers are assumed to be loaded on the top edge with continuous lateral support along compression edge.
4. When no live load is listed, total load controls.
5. Deflection limits are listed within the PLF table heading.

GARAGE HEADER SIZING USING PLF TABLES:

To size a garage header supporting roof only, determine the total load & live load in pounds per lineal foot (PLF). Check the appropriate PLF table for a header supporting roof loads only (125% Non-Snow vs. 115% Snow) and select a member with a total load and live load capacity which meets or exceeds the design load for the rough opening size. For a garage header supporting roof, wall, and floor framing, determine the total load and live load in pounds per lineal foot (PLF). Select a header size from the roof, wall, and floor table (100% load duration) which has a total load and live load capacity equal to or greater than the design load for the appropriate rough opening.

Residential System Sizing Calculation

Summary

Model Home

Lake City, FL

Project Title:
TheSamuelModel601181

Class 3 Rating
Registration No. 0
Climate: North

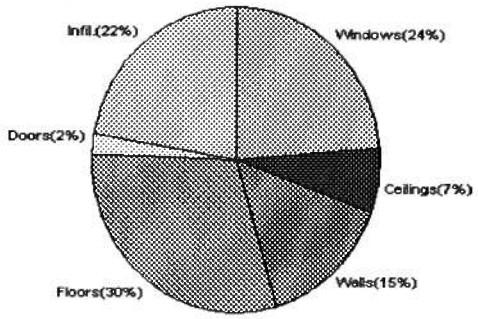
1/19/2006

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	**29717**	**Btuh**	**Total cooling load calculation**	**21559**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	114.4	34000	Sensible (SHR = 0.75)	138.0	25500
Heat Pump + Auxiliary(0.0kW)	114.4	34000	Latent	276.0	8500
			Total (Electric Heat Pump)	157.7	34000

WINTER CALCULATIONS

Winter Heating Load (for 1505 sqft)

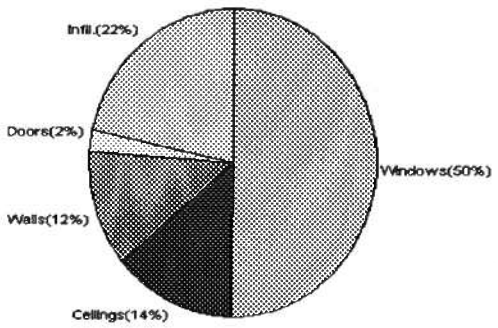
Load component			Load	
Window total	220	sqft	7082	Btuh
Wall total	1332	sqft	4374	Btuh
Door total	50	sqft	648	Btuh
Ceiling total	1759	sqft	2073	Btuh
Floor total	207	sqft	9038	Btuh
Infiltration	161	cfm	6503	Btuh
Duct loss			0	Btuh
Subtotal			**29717**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**29717**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1505 sqft)

Load component			Load	
Window total	220	sqft	10817	Btuh
Wall total	1332	sqft	2691	Btuh
Door total	50	sqft	490	Btuh
Ceiling total	1759	sqft	2913	Btuh
Floor total			0	Btuh
Infiltration	84	cfm	1569	Btuh
Internal gain			0	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**18479**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3080	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			0	Btuh
Total latent gain			**3080**	**Btuh**
TOTAL HEAT GAIN			**21559**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 1-19-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Model Home
Lake City, FL

Project Title:
TheSamuelModel601181

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
1/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
3	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
4	2, Clear, Metal, 0.87	W	10.0	32.2	322 Btuh
5	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
6	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
7	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	SW	3.0	32.2	97 Btuh
10	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
	Window Total		220(sqft)		7082 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Adj(0.09)	13.0	152	3.3	499 Btuh
2	Frame - Wood - Ext(0.09)	13.0	1180	3.3	3875 Btuh
	Wall Total		1332		4374 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		10	12.9	130 Btuh
	Door Total		50		648Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1759	1.2	2073 Btuh
	Ceiling Total		1759		2073Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	207.0 ft(p)	43.7	9038 Btuh
	Floor Total		207		9038 Btuh
			Zone Envelope Subtotal:		23214 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	12040	160.5	6503 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**29717 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Model Home

Lake City, FL

Project Title:
TheSamuelModel601181

Class 3 Rating
Registration No. 0
Climate: North

1/19/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	29717 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29717 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)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Model Home | Project Title: TheSamuelModel601181 | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F | 1/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
3	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
4	2, Clear, Metal, 0.87	W	10.0	32.2	322 Btuh
5	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
6	2, Clear, Metal, 0.87	SE	6.0	32.2	193 Btuh
7	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	SW	3.0	32.2	97 Btuh
10	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
	Window Total		220(sqft)		7082 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Adj(0.09)	13.0	152	3.3	499 Btuh
2	Frame - Wood - Ext(0.09)	13.0	1180	3.3	3875 Btuh
	Wall Total		1332		4374 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		10	12.9	130 Btuh
	Door Total		50		648Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1759	1.2	2073 Btuh
	Ceiling Total		1759		2073Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	207.0 ft(p)	43.7	9038 Btuh
	Floor Total		207		9038 Btuh
			Zone Envelope Subtotal:		23214 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	12040	160.5	6503 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**29717 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Model Home

Lake City, FL

Project Title:
TheSamuelModel601181

Class 3 Rating
Registration No. 0
Climate: North

1/19/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	29717 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29717 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)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Model Home | Project Title: TheSamuelModel601181 | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

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	NW	2ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	N	14.5f	7ft.	15.0	0.0	15.0	29	29	434 Btuh
3	2, Clear, 0.87, None,N,N	NW	12ft.	5.25f	45.0	0.0	45.0	29	60	2702 Btuh
4	2, Clear, 0.87, None,N,N	W	8.5ft.	7ft.	10.0	10.0	0.0	29	80	290 Btuh
5	2, Clear, 0.87, None,N,N	NE	2ft.	1.5ft.	6.0	0.0	6.0	29	60	360 Btuh
6	2, Clear, 0.87, None,N,N	SE	9.5ft.	7.5ft.	6.0	6.0	0.0	29	63	174 Btuh
7	2, Clear, 0.87, None,N,N	SE	2ft.	5.5ft.	30.0	17.2	12.8	29	63	1299 Btuh
8	2, Clear, 0.87, None,N,N	SE	2ft.	8ft.	30.0	2.2	27.8	29	63	1803 Btuh
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	3.0	0.1	2.9	29	63	185 Btuh
10	2, Clear, 0.87, None,0.00,N	NE	1.5ft.	5.5ft.	30.0	0.0	30.0	29	29	869 Btuh
	Window Total				220 (sqft)					10817 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Adj	13.0/0.09	152.0	1.5	229 Btuh
2	Frame - Wood - Ext	13.0/0.09	1180.0	2.1	2461 Btuh
	Wall Total		1332 (sqft)		2691 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	10.0	9.8	98 Btuh
	Door Total	50 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1759.0	1.7	2913 Btuh
	Ceiling Total		1759 (sqft)		2913 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	207 (ft(p))	0.0	0 Btuh
	Floor Total		207.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	16911 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	12040	84.3	1569 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	0	X 230 +	0	0 Btuh

Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh
	Sensible Zone Load		**18479 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Model Home

Lake City, FL

Project Title:
TheSamuelModel601181

Class 3 Rating
Registration No. 0
Climate: North

1/19/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**18479 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**18479 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**18479 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3080 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3080 Btuh**
	TOTAL GAIN	**21559 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)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Model Home | Project Title: TheSamuelModel601181 | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/19/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

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	NW	2ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	N	14.5f	7ft.	15.0	0.0	15.0	29	29	434 Btuh
3	2, Clear, 0.87, None,N,N	NW	12ft.	5.25f	45.0	0.0	45.0	29	60	2702 Btuh
4	2, Clear, 0.87, None,N,N	W	8.5ft.	7ft.	10.0	10.0	0.0	29	80	290 Btuh
5	2, Clear, 0.87, None,N,N	NE	2ft.	1.5ft.	6.0	0.0	6.0	29	60	360 Btuh
6	2, Clear, 0.87, None,N,N	SE	9.5ft.	7.5ft.	6.0	6.0	0.0	29	63	174 Btuh
7	2, Clear, 0.87, None,N,N	SE	2ft.	5.5ft.	30.0	17.2	12.8	29	63	1299 Btuh
8	2, Clear, 0.87, None,N,N	SE	2ft.	8ft.	30.0	2.2	27.8	29	63	1803 Btuh
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	3.0	0.1	2.9	29	63	185 Btuh
10	2, Clear, 0.87, None,0.00,N	NE	1.5ft.	5.5ft.	30.0	0.0	30.0	29	29	869 Btuh
	Window Total				220 (sqft)					10817 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Adj	13.0/0.09	152.0	1.5	229 Btuh
2	Frame - Wood - Ext	13.0/0.09	1180.0	2.1	2461 Btuh
	Wall Total		1332 (sqft)		2691 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	10.0	9.8	98 Btuh
	Door Total	50 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1759.0	1.7	2913 Btuh
	Ceiling Total		1759 (sqft)		2913 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	207 (ft(p))	0.0	0 Btuh
	Floor Total		207.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		16911 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	12040	84.3	1569 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	0	X 230 +	0	0 Btuh

Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh
		Sensible Zone Load	**18479 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Model Home

Lake City, FL

Project Title:
TheSamuelModel601181

Class 3 Rating
Registration No. 0
Climate: North

1/19/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**18479**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**18479**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	**Total sensible gain**	**18479**	**Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3080	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0	Btuh
	Latent other gain	0	Btuh
	Latent total gain	**3080**	**Btuh**
	TOTAL GAIN	**21559**	**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)

For Florida residences only

Residential Window Diversity

MidSummer

Model Home

Lake City, FL

Project Title:
TheSamuelModel601181

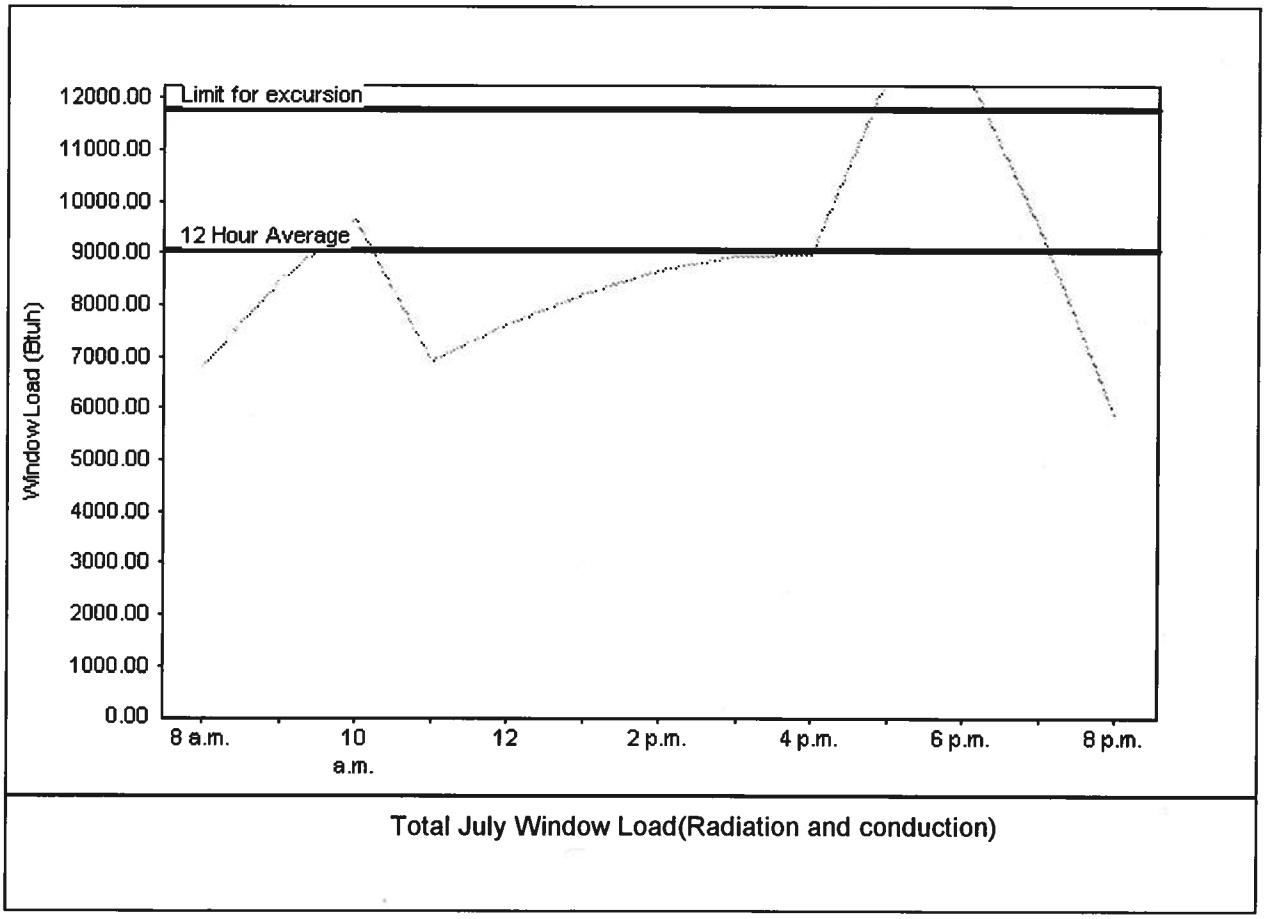
Class 3 Rating
Registration No. 0
Climate: North

1/19/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	9069 Btuh
Summer setpoint	75 F	Peak window load for July	12598 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	11790 Btu
Latitude	29 North	Window excursion (July)	808 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 1-19-06

Notice of Treatment 11864

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: Bayview
City L C Phone 752-1703

Site Location: Subdivision Country Side Est
Lot # 12 Block# Permit # 24191
Address 814 SE Victoria Gl(?)

Product used	**Active Ingredient**	**% Concentration**
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☑ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☑ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling	2077	608	5

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line ________.

3-23-06 Date
0930 Time
FZ54 Print Technician's Name

Remarks: ______________________

Applicator - White **Permit File** - Canary **Permit Holder** - Pink

10/05 ©

PRODUCT APPROVAL SPECIFICATION SHEET

Location: COUNTRYSIDE ESTATES **Project Name:** LOT 12

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature

Location

CHRIS CX 2-6-08

Print Name Date

Permit # **(FOR STAFF USE ONLY)**

Project Information for:	L140940		
Builder:	CORNERSTONE DEV.	Date:	1/11/2006
Lot:	LOT 12 COUNTRYSIDE EST/	Start Number:	**1036**
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	29		

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

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

Note: See individual truss drawings for special loading conditions

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

ZECHER, BRYAN C. CBC 054575
Address: PO BOX 815
ALACHUA,FL 32615 Designer: **140**

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

Notes:

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

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	111061036	1/11/2006				
2	CJ3	111061037	1/11/2006				
3	CJ3A	111061038	1/11/2006				
4	CJ5	111061039	1/11/2006				
5	CJ5A	111061040	1/11/2006				
6	EJ7	111061041	1/11/2006				
7	EJ7A	111061042	1/11/2006				
8	HJ7	111061043	1/11/2006				
9	HJ7A	111061044	1/11/2006				
10	T01	111061045	1/11/2006				
11	T01G	111061046	1/11/2006				
12	T02	111061047	1/11/2006				
13	T03	111061048	1/11/2006				
14	T04	111061049	1/11/2006				
15	T05	111061050	1/11/2006				
16	T06	111061051	1/11/2006				
17	T07	111061052	1/11/2006				
18	T08	111061053	1/11/2006				
19	T09	111061054	1/11/2006				
20	T10	111061055	1/11/2006				
21	T11	111061056	1/11/2006				
22	T12	111061057	1/11/2006				
23	T13	111061058	1/11/2006				
24	T14	111061059	1/11/2006				
25	T15	111061060	1/11/2006				
26	T16	111061061	1/11/2006				
27	T17	111061062	1/11/2006				
28	T18	111061063	1/11/2006				
29	T18G	111061064	1/11/2006				

JAN 1 1 2006

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Licensee Details

Licensee Information

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

License Information

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

Special Qualifications	Effective Date
Bldg Code Core Course Credit	
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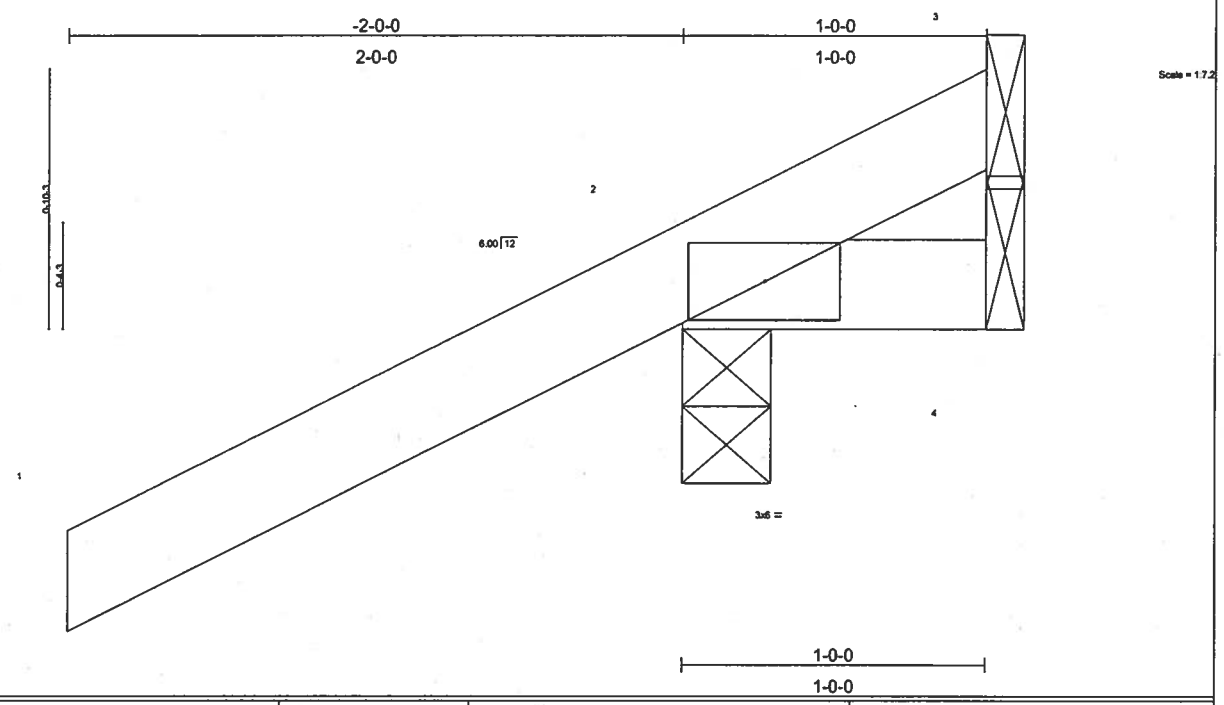
JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061036

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	CJ1	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:09:55 2005 Page 1



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

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

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

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

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

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2 and 90 lb uplift at joint 3.

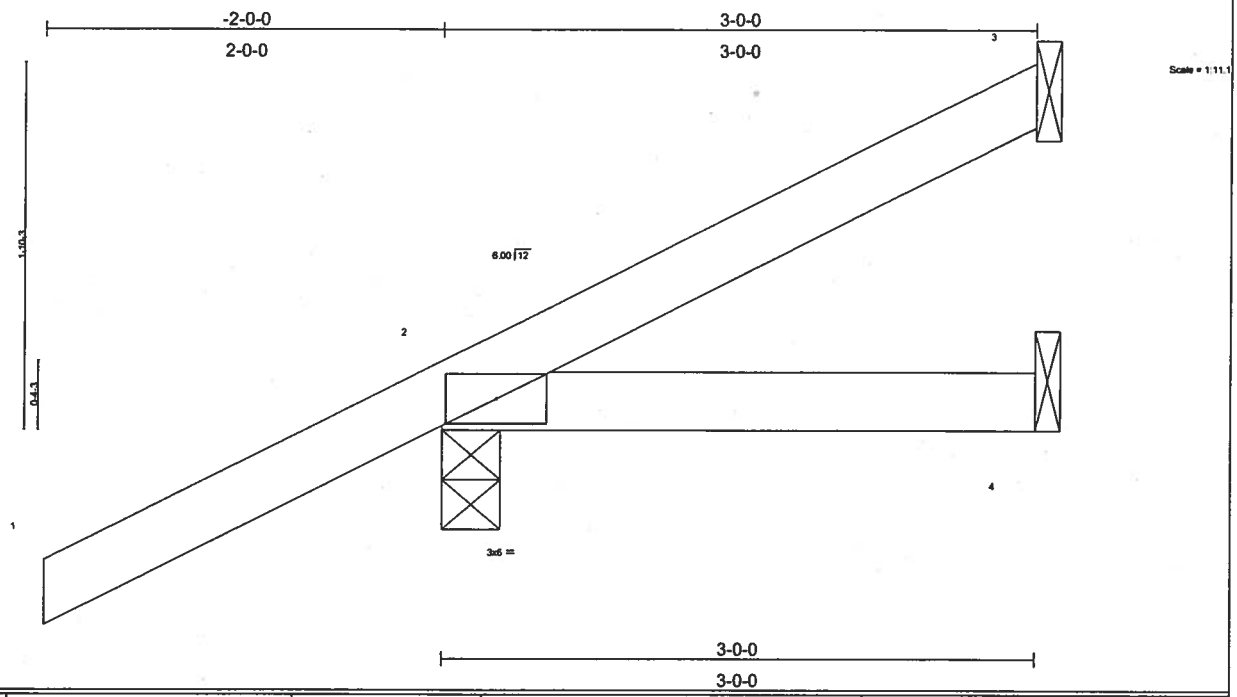
LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061037

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	CJ3	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:09:55 2005 Page 1



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

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

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

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

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

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3 and 203 lb uplift at joint 2.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061038

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	CJ3A	MONO SCISSOR	4	1	Job Reference (optional)

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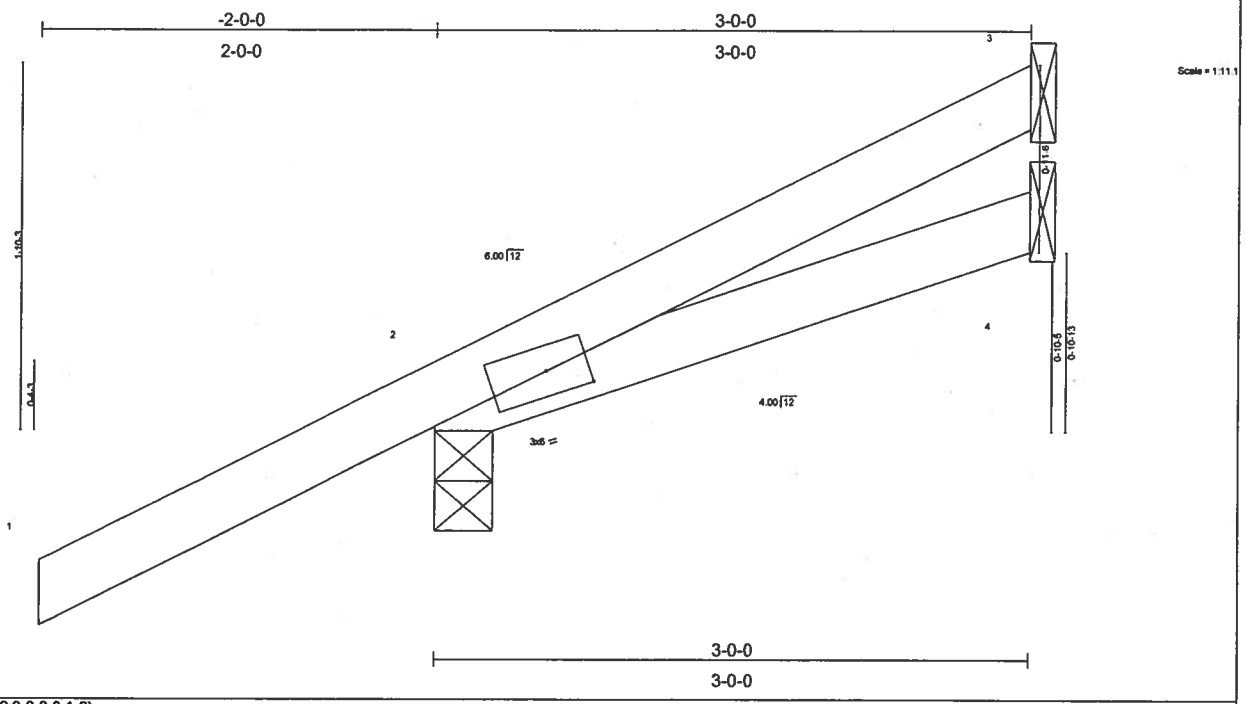


Plate Offsets (X,Y): [2:0-2-8,0-1-8]

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

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

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

REACTIONS (lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical
Max Horz 2=131(load case 5)
Max Uplift3=-29(load case 6), 2=-201(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-58/8
BOT CHORD 2-4=-11/11

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) Refer to girder(s) for truss to truss connections.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3 and 201 lb uplift at joint 2.

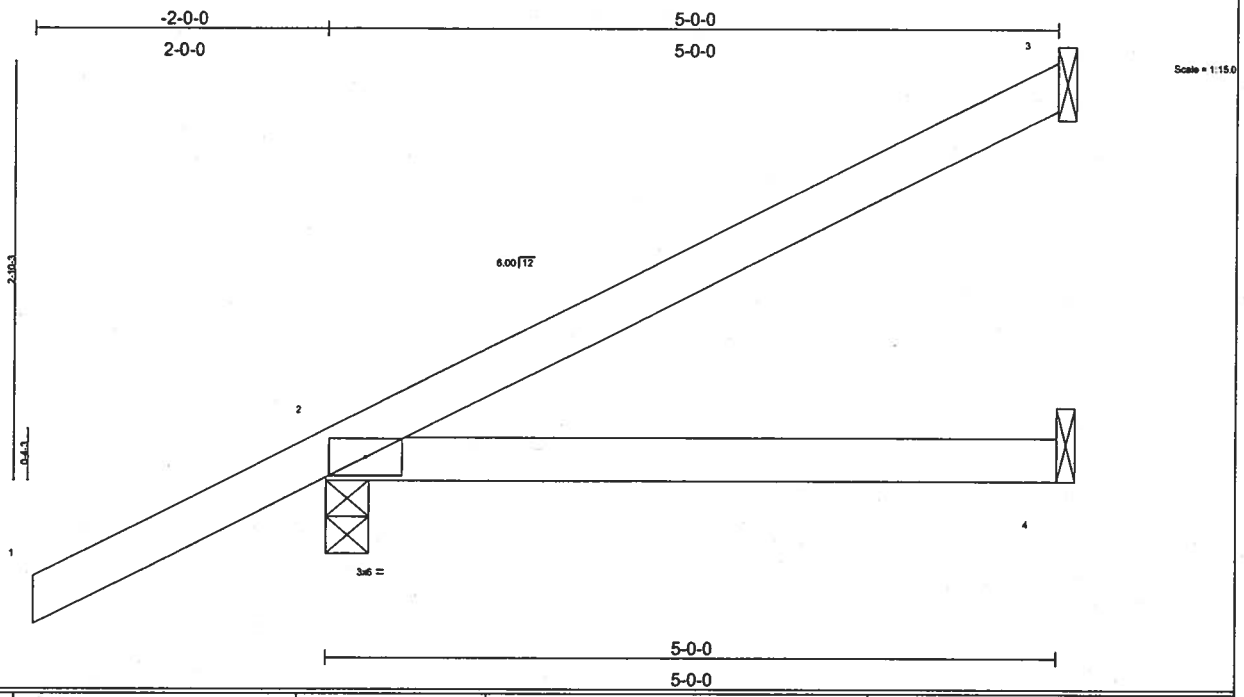
LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061039

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	CJ5	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:09:56 2005 Page 1



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

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

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

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

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

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061040

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	CJ5A	MONO SCISSOR	2	1	Job Reference (optional)

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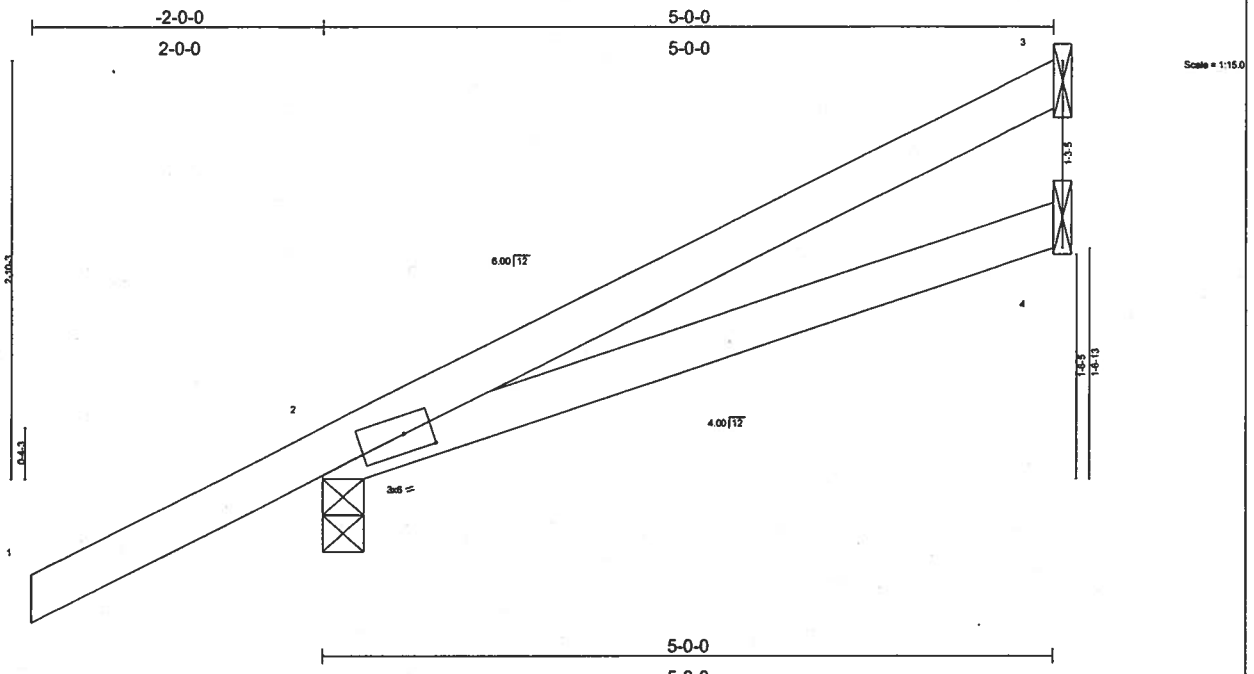


Plate Offsets (X,Y): [2:0-2-4,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

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

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

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=177(load case 5)
Max Uplift3=-89(load case 5), 2=-198(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-90/36
BOT CHORD 2-4=-18/18

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 3 and 198 lb uplift at joint 2.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061041

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	EJ7	MONO TRUSS	15	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:09:58 2005 Page 1

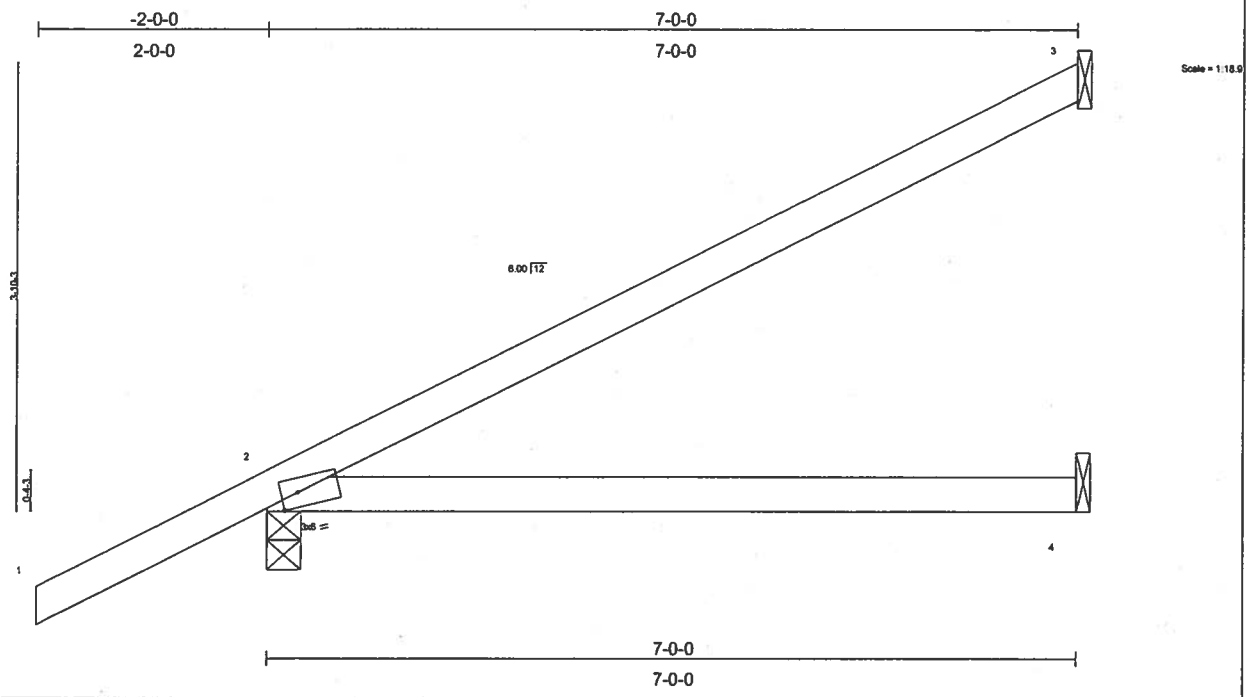


Plate Offsets (X,Y): [2:0-1-12,Edge]

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

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

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

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

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

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3 and 210 lb uplift at joint 2.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061042

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	EJ7A	SPECIAL	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:09:58 2005 Page 1

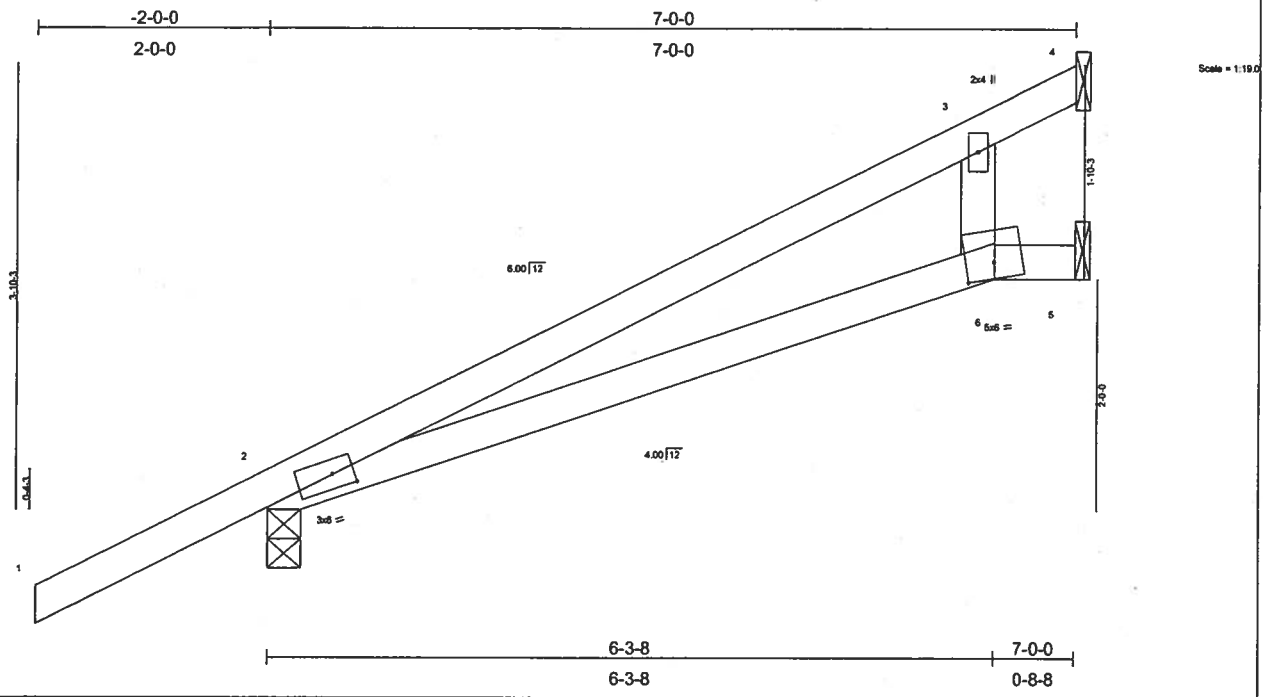


Plate Offsets (X,Y): [2:0-2-4,0-1-8], [6:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.15	2-6	>554	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.24	2-6	>338	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 28 lb	

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

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

REACTIONS (lb/size) 4=39/Mechanical, 2=419/0-3-8, 5=228/Mechanical
Max Horz 2=223(load case 5)
Max Uplift2=-209(load case 5), 5=-179(load case 5)
Max Grav 4=52(load case 5), 2=419(load case 1), 5=228(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-104/32, 3-4=-0/31
BOT CHORD 2-6=-39/33, 5-6=-1/2
WEBS 3-6=-141/310

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2 and 179 lb uplift at joint 5.

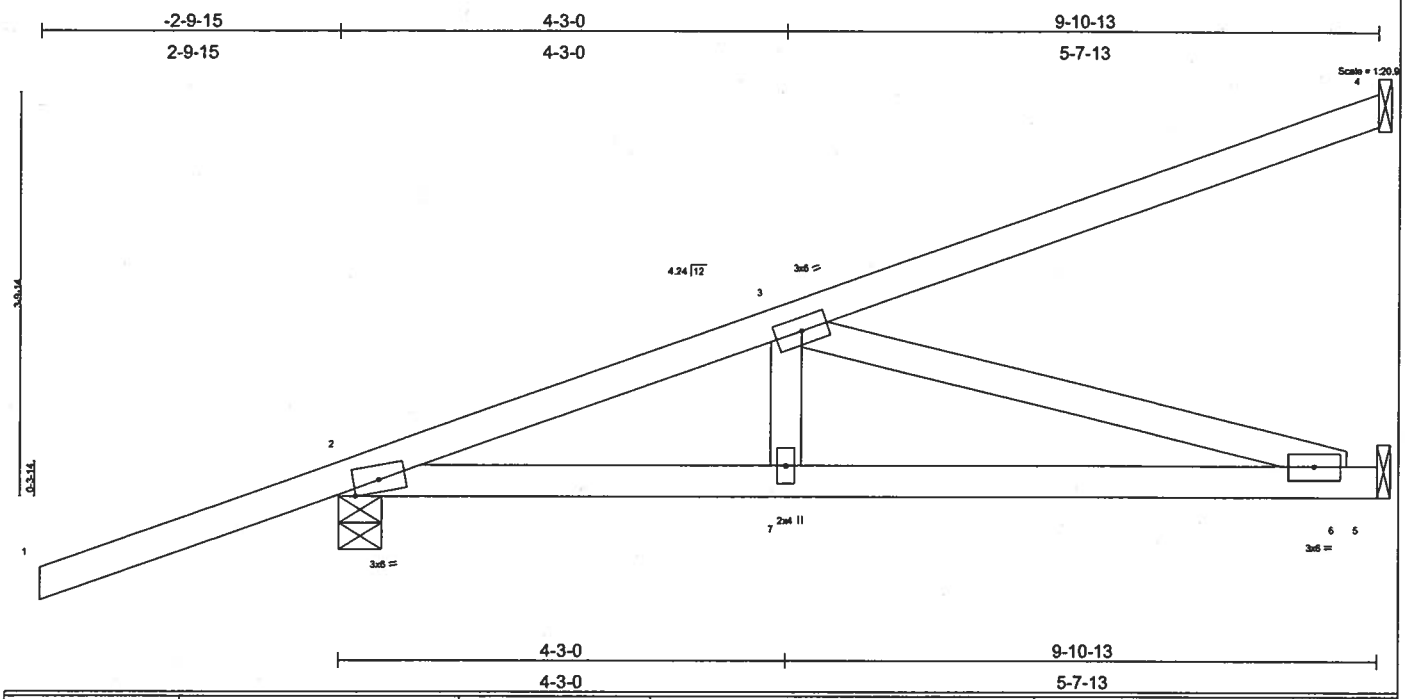
LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061043

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	HJ7	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:09:59 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.17	6-7	>686	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

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

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

REACTIONS (lb/size) 4=269/Mechanical, 2=532/0-4-15, 5=377/Mechanical
Max Horz 2=269(load case 2)
Max Uplift4=-231(load case 2), 2=-278(load case 2), 5=-63(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-888/121, 3-4=-105/66
BOT CHORD 2-7=-309/823, 6-7=-309/823, 5-6=0/0
WEBS 3-7=0/180, 3-6=-856/321

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 278 lb uplift at joint 2 and 63 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-3(F=26, B=26)-to-4=-134(F=-40, B=-40), 2=-0(F=15, B=15)-to-5=-74(F=-22, B=-22)

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061044

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	HJ7A	SPECIAL	1	1	Job Reference (optional)

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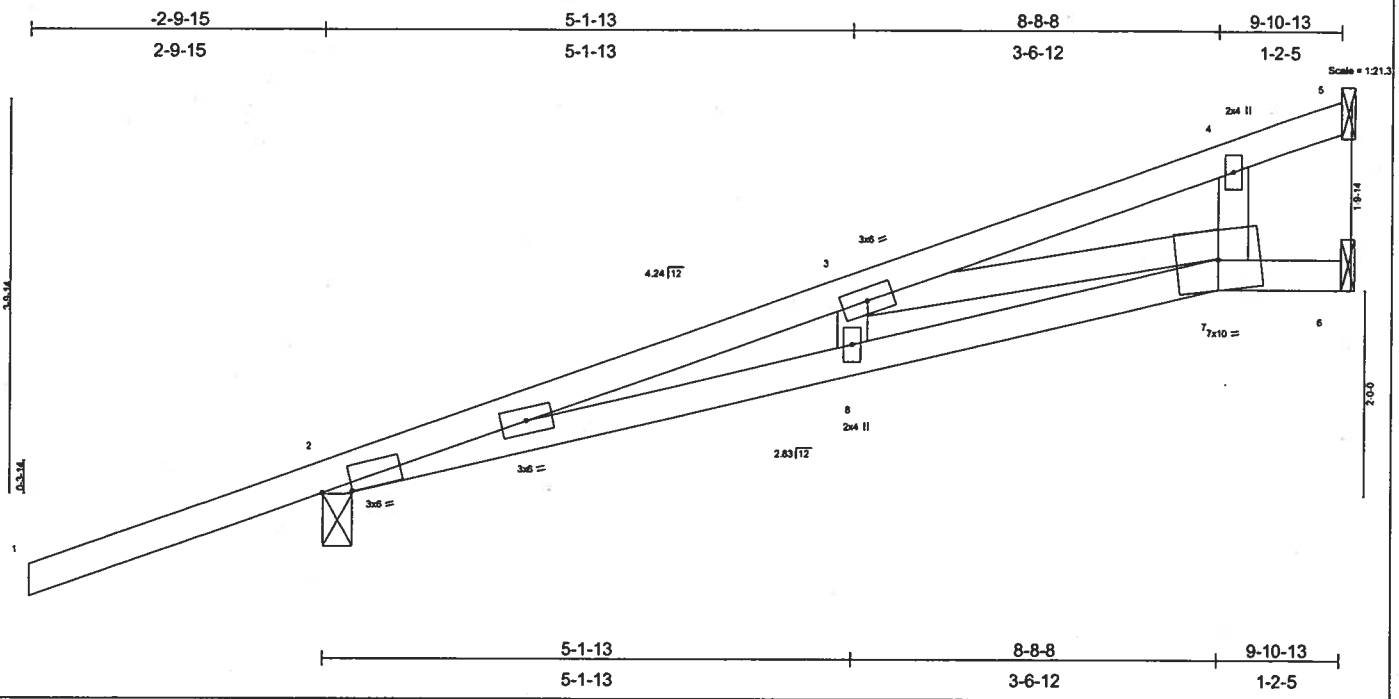

Plate Offsets (X,Y): [2:0-3-8,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	-0.19	7-8	>601	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.31	7-8	>375	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.47	Horz(TL)	0.07	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-2-2 oc bracing.

REACTIONS (lb/size) 5=356/Mechanical, 2=527/0-3-8, 6=294/Mechanical
Max Horz 2=268(load case 2)
Max Uplift5=-157(load case 2), 2=-272(load case 2), 6=-140(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1850/514, 3-4=-114/0, 4-5=-59/114
BOT CHORD 2-8=-670/1761, 7-8=-672/1757, 6-7=0/0
WEBS 3-8=0/197, 3-7=-1694/669, 4-7=0/138

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 5, 272 lb uplift at joint 2 and 140 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: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-2(F=26, B=26)-to-5=-134(F=-40, B=-40), 2=0(F=15, B=15)-to-7=-66(F=-18, B=-18), 7=-66(F=-18, B=-18)-to-6=-74(F=-22, B=-22)

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061045

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T01	COMMON	10	1	Job Reference (optional)

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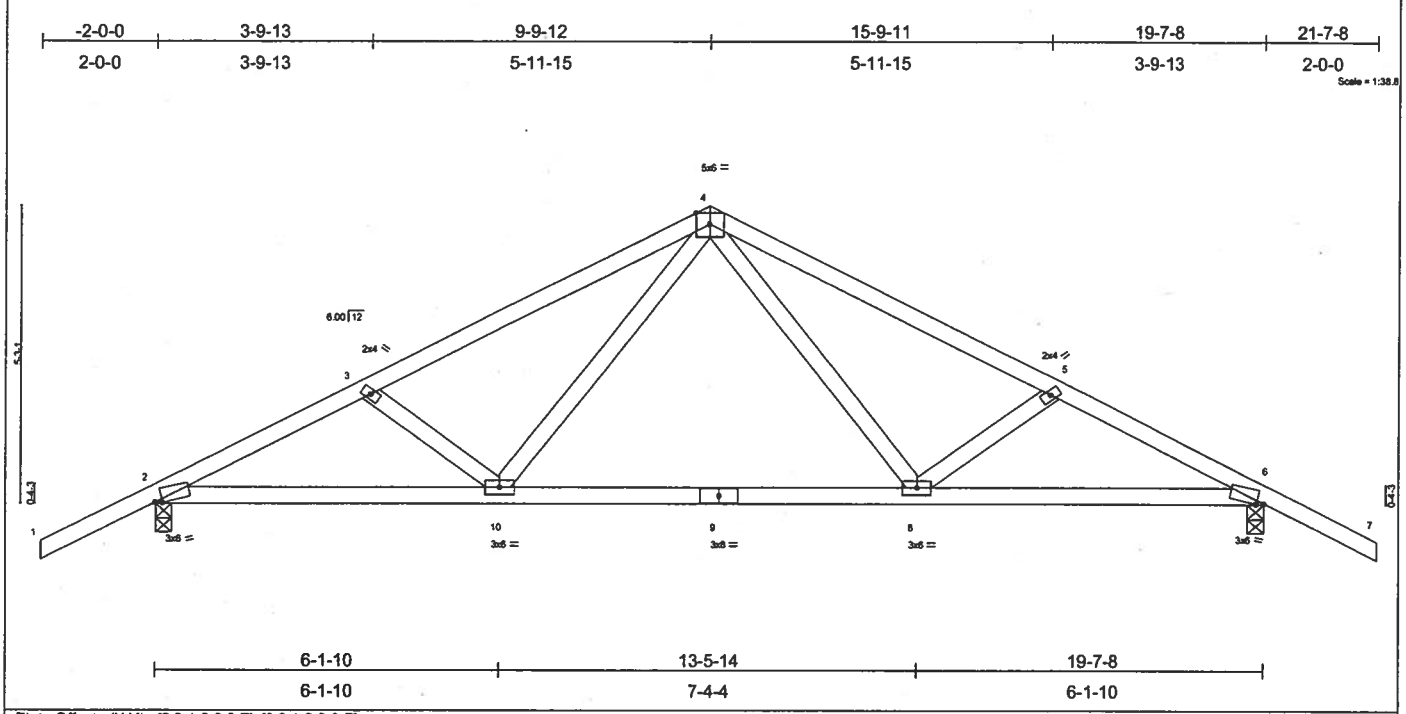

Plate Offsets (X,Y): [2:0-1-9,0-0-7], [6:0-1-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.25	8-10	>930	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.40	8-10	>573	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(TL)	0.04	6	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 4-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-5 oc bracing.

REACTIONS (lb/size) 2=1112/0-3-8, 6=1112/0-3-8
Max Horz 2=-107(load case 6)
Max Uplift2=-459(load case 5), 6=-459(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1848/803, 3-4=-1679/740, 4-5=-1679/740, 5-6=-1848/803, 6-7=0/47
BOT CHORD 2-10=-567/1590, 9-10=-275/1046, 8-9=-275/1046, 6-8=-567/1590
WEBS 3-10=-216/201, 4-10=-222/686, 4-8=-222/686, 5-8=-216/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 459 lb uplift at joint 2 and 459 lb uplift at joint 6.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061046

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T01G	DROP TC GABLE	1	1	Job Reference (optional)

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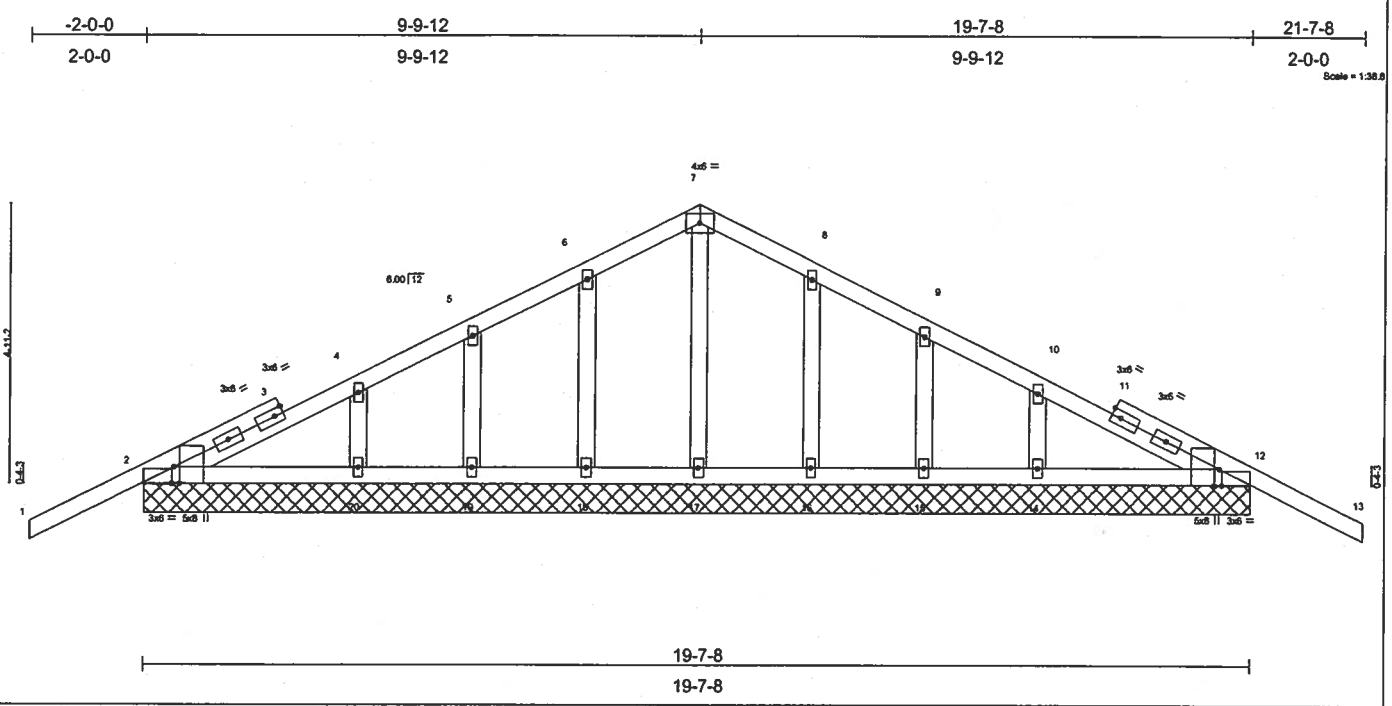

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [12:0-3-8,Edge], [12:0-0-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.04	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.06	13	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 103 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=536/19-7-8, 12=536/19-7-8, 17=283/19-7-8, 18=299/19-7-8, 19=248/19-7-8, 20=416/19-7-8, 16=299/19-7-8, 15=248/19-7-8, 14=416/19-7-8
Max Horz 2=102(load case 5)
Max Uplift2=-280(load case 5), 12=-297(load case 6), 17=-4(load case 5), 18=-129(load case 5), 19=-135(load case 5), 20=-138(load case 5), 16=-127(load case 6), 15=-134(load case 6), 14=-143(load case 6)
Max Grav 2=536(load case 1), 12=536(load case 1), 17=283(load case 1), 18=304(load case 9), 19=248(load case 1), 20=416(load case 9), 16=304(load case 10), 15=248(load case 1), 14=416(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-20/99, 2-3=-88/52, 3-4=-65/85, 4-5=-59/96, 5-6=-48/139, 6-7=-52/193, 7-8=-52/193, 8-9=-48/139, 9-10=-59/84, 10-11=-23/85, 11-12=-88/28, 12-13=-20/99
BOT CHORD 2-20=-1/122, 19-20=-1/122, 18-19=-1/122, 17-18=-1/122, 16-17=-1/122, 15-16=-1/122, 14-15=-1/122, 12-14=-1/122
WEBS 7-17=-225/16, 6-18=-239/167, 5-19=-202/169, 4-20=-321/202, 8-16=-239/167, 9-15=-202/169, 10-14=-321/202

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 2, 297 lb uplift at joint 12, 4 lb uplift at joint 17, 129 lb uplift at joint 18, 135 lb uplift at joint 19, 138 lb uplift at joint 20, 127 lb uplift at joint 16, 134 lb uplift at joint 15 and 143 lb uplift at joint 14.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-114(F=-60), 7-13=-114(F=-60), 2-12=-30

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061047

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T02	MONO HIP	1	1	Job Reference (optional)

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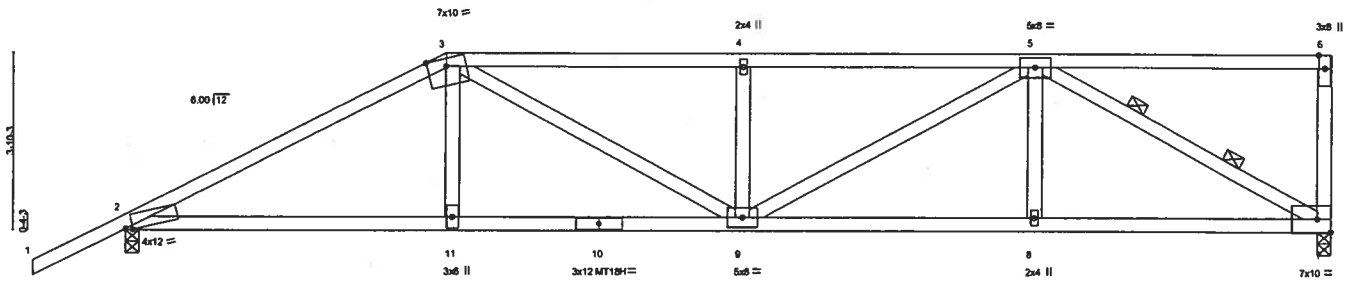
-2-0-0	7-0-0	13-5-15	19-10-1	26-4-0
2-0-0	7-0-0	6-5-15	6-4-3	6-5-15

Scale: 1/4"=1'



7-0-0	13-5-15	19-10-1	26-4-0
7-0-0	6-5-15	6-4-3	6-5-15

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.94	Vert(LL)	-0.32	9-11	>979	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.52	9-11	>604	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.14	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 133 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-9 oc bracing.
WEBS 2 Rows at 1/3 pts 5-7

REACTIONS (lb/size) 7=2431/0-3-8, 2=2304/0-3-8
Max Horz 2=227(load case 4)
Max Uplift7=-1094(load case 3), 2=-993(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-4309/1821, 3-4=-4702/2113, 4-5=-4701/2114, 5-6=-154/72, 6-7=-362/287
BOT CHORD 2-11=-1667/3765, 10-11=-1675/3800, 9-10=-1675/3800, 8-9=-1557/3465, 7-8=-1557/3465
WEBS 3-11=-214/863, 3-9=-565/1027, 4-9=-761/645, 5-9=-638/1417, 5-8=0/406, 5-7=-3795/1703

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1094 lb uplift at joint 7 and 993 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, 3-6=-118(F=-64), 2-11=-30, 7-11=-65(F=-35)
Concentrated Loads (lb)
Vert: 11=-539(F)

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061048

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T03	MONO HIP	1	1	Job Reference (optional)

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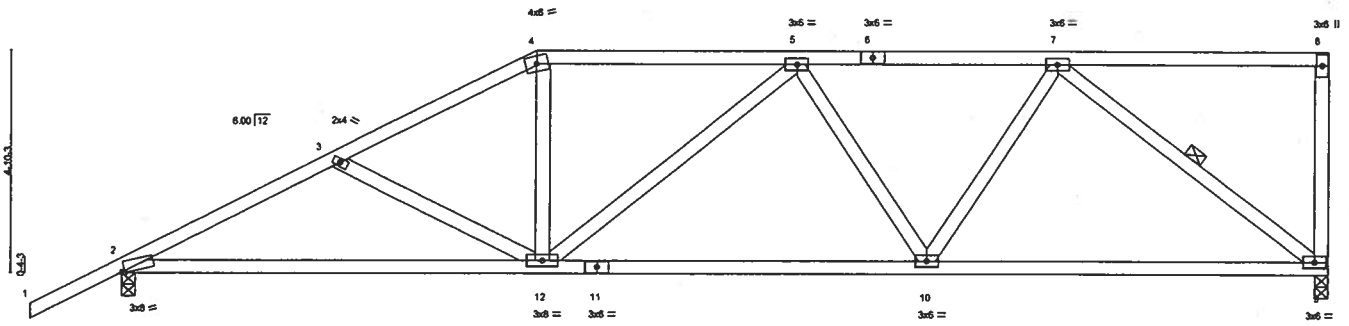
-2-0-0	4-9-4	9-0-0	14-8-3	20-4-5	26-4-0
2-0-0	4-9-4	4-2-12	5-8-3	5-8-3	5-11-11

Scale: 1/4"=1'



9-0-0	17-6-4	26-4-0
9-0-0	8-6-4	8-9-12

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	0.55	Vert(LL)	-0.16	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.28	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.06	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS (lb/size) 9=1089/0-3-8, 2=1214/0-3-8
Max Horz 2=272(load case 5)
Max Uplift9=-396(load case 4), 2=-442(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1908/743, 3-4=-1670/641, 4-5=-1463/629, 5-6=-1403/557, 6-7=-1403/557, 7-8=-59/10, 8-9=-153/102
BOT CHORD 2-12=-809/1658, 11-12=-669/1549, 10-11=-669/1549, 9-10=-477/1095
WEBS 3-12=-236/204, 4-12=-66/449, 5-12=-113/162, 5-10=-278/213, 7-10=-150/581, 7-9=-1315/593

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint 9 and 442 lb uplift at joint 2.

LOAD CASE(S) Standard

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Dwg.#0111061049

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T04	MONO HIP	1	1	Job Reference (optional)

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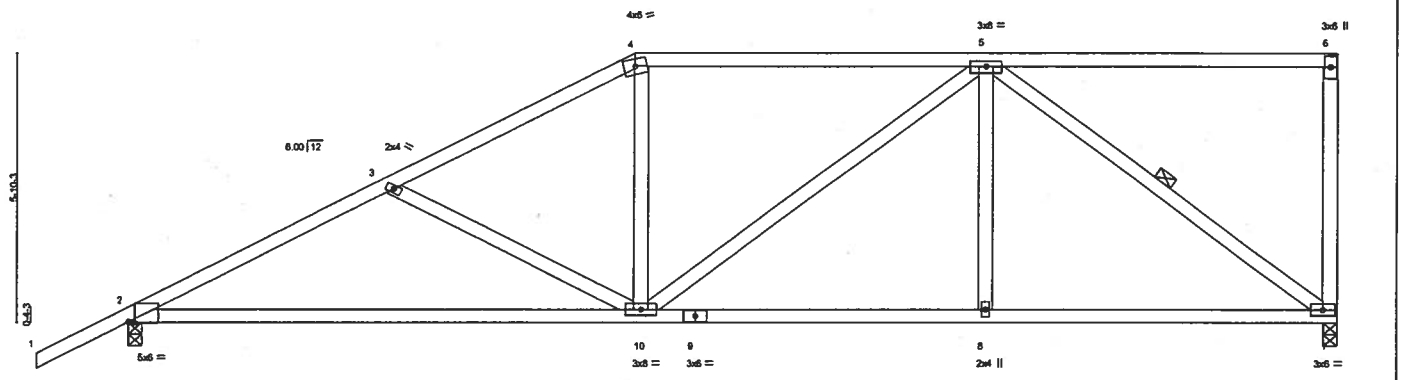
-2-0-0	5-9-4	11-0-0	18-8-0	26-4-0
2-0-0	5-9-4	5-2-12	7-8-0	7-8-0

Scale: 1/4"=1'



11-0-0	18-8-0	26-4-0
11-0-0	7-8-0	7-8-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.34	2-10	>922	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.58	2-10	>535	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 143 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 4-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-3 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 7=1089/0-3-8, 2=1214/0-3-8
Max Horz 2=318(load case 5)
Max Uplift7=-388(load case 4), 2=-450(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1841/728, 3-4=-1526/585, 4-5=-1317/588, 5-6=-52/19, 6-7=-185/131
BOT CHORD 2-10=-836/1602, 9-10=-485/1118, 8-9=-485/1118, 7-8=-485/1118
WEBS 3-10=-329/279, 4-10=0/309, 5-10=-131/246, 5-8=0/202, 5-7=-1326/579

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 7 and 450 lb uplift at joint 2.

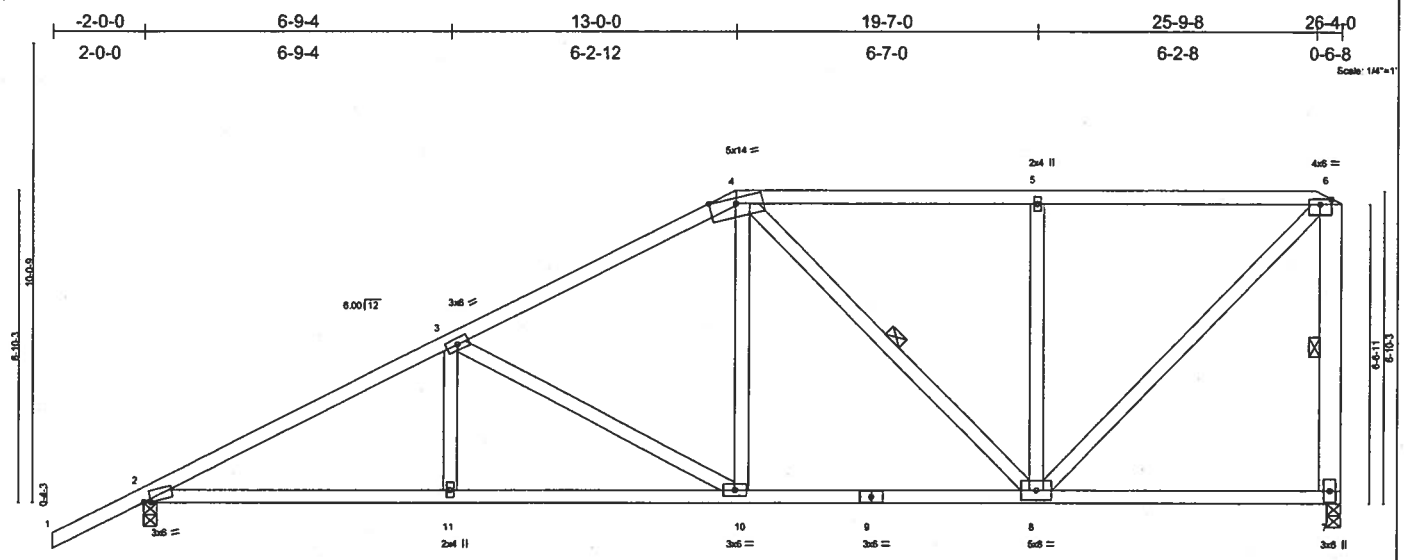
LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061050

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER	J1481240
L140940	T05	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:05 2005 Page 1



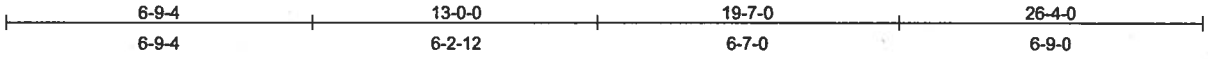


Plate Offsets (X,Y): [2:0-1-13,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.10	2-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.16	2-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 158 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-9 oc bracing.
WEBS 1 Row at midpt 4-8, 6-7

REACTIONS (lb/size) 2=1211/0-3-8, 7=1085/0-3-8
Max Horz 2=364(load case 5)
Max Uplift2=-454(load case 5), 7=-377(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1914/665, 3-4=-1312/520, 4-5=-852/379, 5-6=-852/379, 6-7=-985/487
BOT CHORD 2-11=-824/1632, 10-11=-824/1632, 9-10=-535/1115, 8-9=-535/1115, 7-8=-18/44
WEBS 3-11=0/213, 3-10=-599/331, 4-10=-123/472, 4-8=-371/220, 5-8=-359/265, 6-8=-512/1146

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint 2 and 377 lb uplift at joint 7.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061051

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T06	HIP	1	1	Job Reference (optional)

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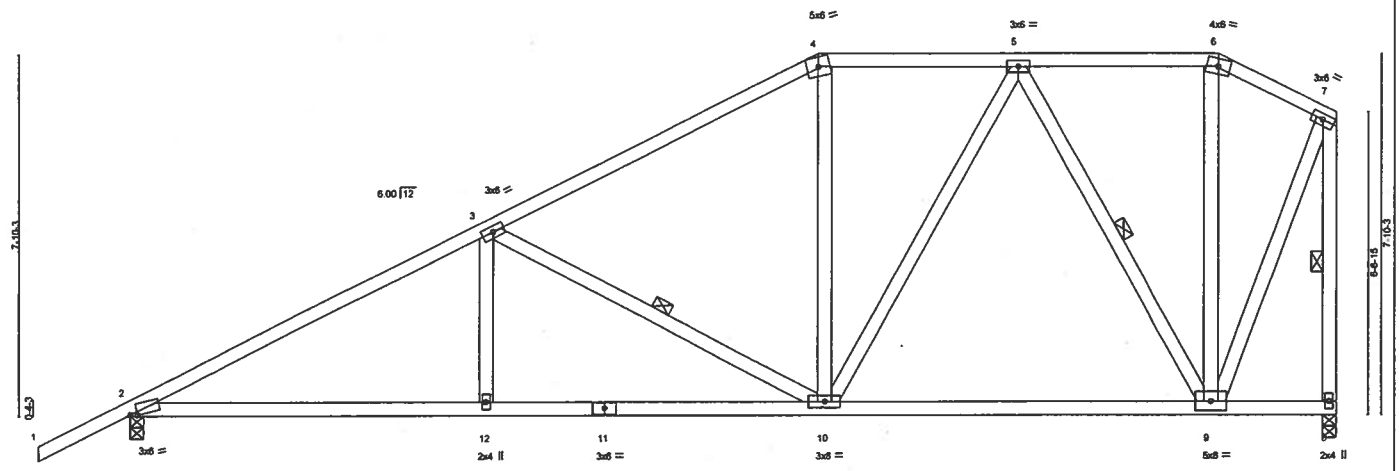
-2-0-0	7-9-4	15-0-0	19-4-12	23-9-8	26-4-0
2-0-0	7-9-4	7-2-12	4-4-12	4-4-12	2-6-8

Scale: 1/4"=1'



7-9-4	15-0-0	23-9-8	26-4-0
7-9-4	7-2-12	8-9-8	2-6-8

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.15	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.24	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.05	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 4-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-0 oc bracing.
WEBS 1 Row at midpt 3-10, 5-9, 7-8

REACTIONS (lb/size) 2=1214/0-3-8, 8=1089/0-3-8
Max Horz 2=371(load case 5)
Max Uplift2=-466(load case 5), 8=-324(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1875/671, 3-4=-1161/480, 4-5=-956/503, 5-6=-357/205, 6-7=-418/192, 7-8=-1104/472
BOT CHORD 2-12=-808/1592, 11-12=-808/1592, 10-11=-808/1592, 9-10=-330/716, 8-9=-4/2
WEBS 3-12=0/244, 3-10=-725/414, 4-10=0/188, 5-10=-227/494, 5-9=-740/380, 6-9=-46/74, 7-9=-379/953

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 466 lb uplift at joint 2 and 324 lb uplift at joint 8.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061052

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER	J1481242
L140940	T07	HIP	1	1	Job Reference (optional)	

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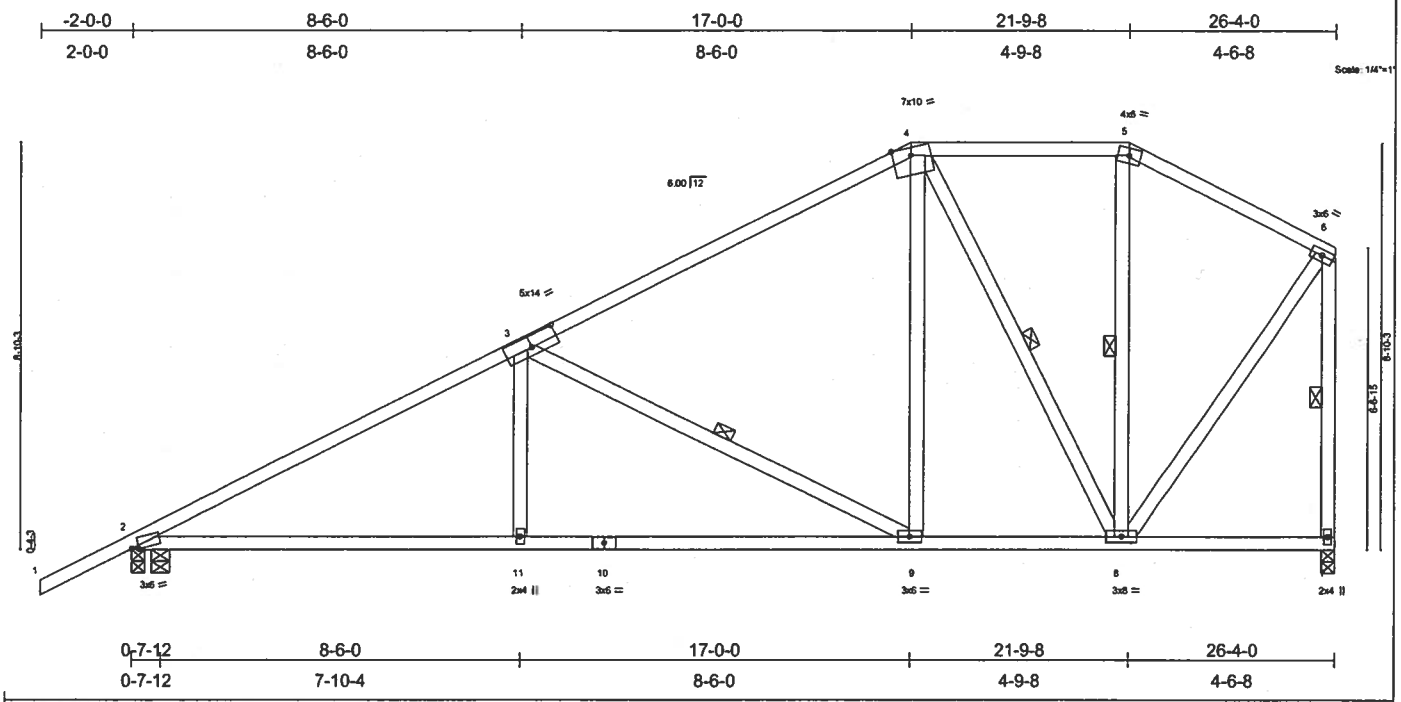

Plate Offsets (X,Y): [2:0-1-13,0-0-7], [3:0-7-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.18	2-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.30	2-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 164 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-9 oc bracing.
WEBS 1 Row at midpt 3-9, 4-8, 5-8, 6-7

REACTIONS (lb/size) 2=1214/0-3-8, 2=1214/0-3-8, 7=1089/0-3-8
Max Horz 2=385(load case 5)
Max Uplift2=-472(load case 5), 7=-345(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1851/670, 3-4=-993/432, 4-5=-488/320, 5-6=-597/303, 6-7=-1018/501
BOT CHORD 2-11=-799/1567, 10-11=-799/1567, 9-10=-799/1567, 8-9=-365/800, 7-8=-10/16
WEBS 3-11=0/296, 3-9=-867/488, 4-9=-174/591, 4-8=-681/331, 5-8=-77/107, 6-8=-339/809

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 472 lb uplift at joint 2 and 345 lb uplift at joint 7.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061053

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T08	HIP	1	1	Job Reference (optional)

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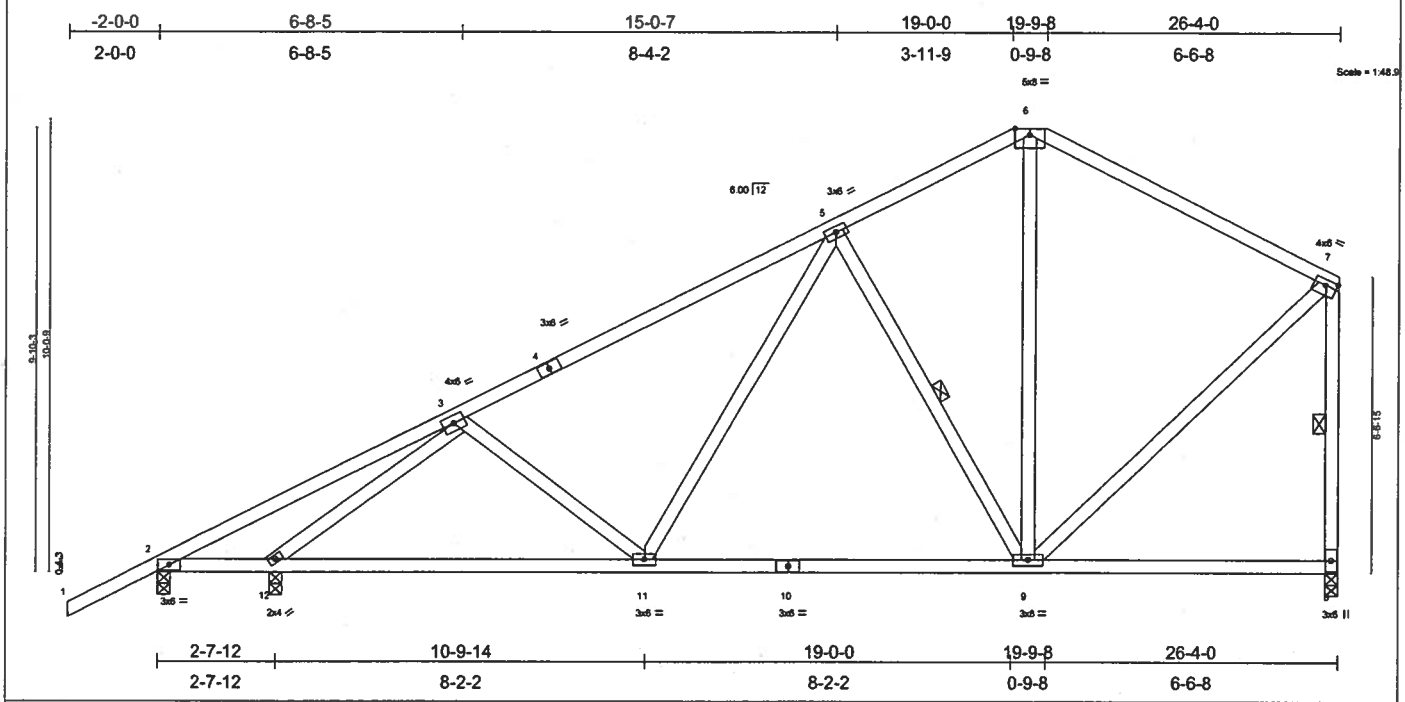

Plate Offsets (X,Y): [7:0-3-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	-0.11	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.19	9-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.03	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 163 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-3 oc bracing.
WEBS 1 Row at midpt 5-9, 7-8

REACTIONS (lb/size) 2=241/0-3-8, 8=995/0-3-8, 12=1068/0-3-8
Max Horz 2=402(load case 5)
Max Uplift2=-221(load case 5), 8=-347(load case 5), 12=-342(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-113/49, 3-4=-1199/489, 4-5=-1094/518, 5-6=-650/400, 6-7=-670/360, 7-8=-903/484
BOT CHORD 2-12=-182/36, 11-12=-709/1066, 10-11=-427/795, 9-10=-427/795, 8-9=-25/36
WEBS 3-12=-1323/695, 3-11=-122/276, 5-11=-132/383, 5-9=-571/403, 7-9=-275/671, 6-9=-108/335

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left 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 mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2, 347 lb uplift at joint 8 and 342 lb uplift at joint 12.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061054

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER	J1481244
L140940	T09	SPECIAL	1	2	Job Reference (optional)	

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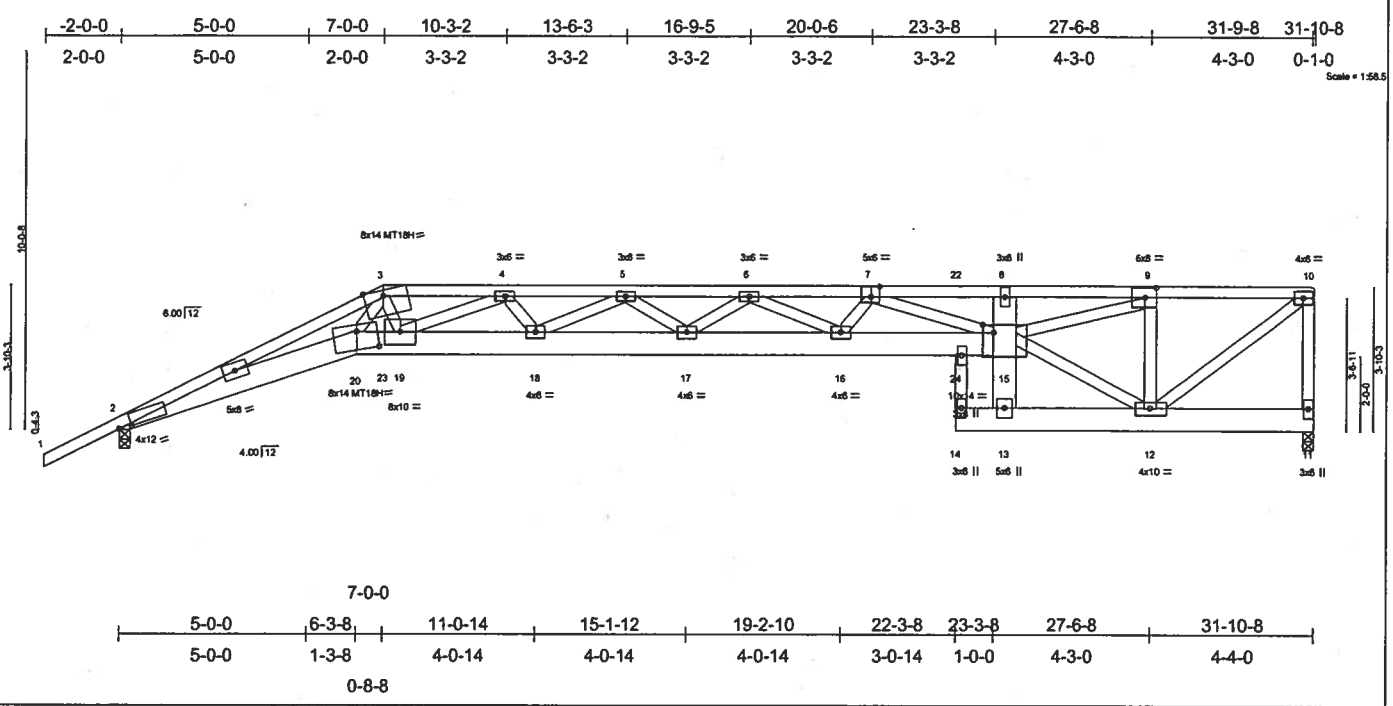

Plate Offsets (X,Y): [2:0-4-1,0-0-5], [3:0-6-3,Edge], [7:0-2-12,0-3-4], [9:0-3-8,0-3-0], [15:0-3-8,0-2-8], [20:0-6-8,0-5-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.68	Vert(LL)	-1.01	17	>376	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-1.61	17	>235	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(TL)	0.78	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 447 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T3 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E *Except*
B3 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W8 2 X 4 SYP No.1D, W11 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=2863/0-3-8, 11=3063/0-3-8
Max Horz 2=228(load case 4)
Max Uplift2=-1023(load case 4), 11=-1222(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-12552/4510, 3-4=-12183/4495, 4-5=-15102/5614, 5-6=-16741/6264, 6-7=-16132/6078, 7-22=-12452/4729, 8-22=-12452/4729, 8-9=-10131/3872, 9-10=-3283/1285, 10-11=-2823/1187
BOT CHORD 2-20=-4227/11590, 20-23=-3949/10706, 19-23=-3948/10703, 18-19=-5417/14528, 17-18=-6104/16242, 16-17=-6289/16660, 16-24=-5891/15536, 15-24=-5891/15536, 13-15=-85/514, 8-15=-349/300, 13-14=0/0, 12-13=-1043/2690, 11-12=-48/83
WEBS 4-19=-2623/1097, 4-18=-399/1141, 5-18=-1315/586, 5-17=-237/657, 6-17=-23/106, 6-16=-609/243, 7-16=-372/1185, 7-15=-3315/1248, 12-15=-271/664, 9-15=-2745/7267, 9-12=-3036/1370, 10-12=-1593/4122, 3-19=-1726/4669, 3-20=-253/926

NOTES
1) 2-ply truss to be connected together with 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 0-9-0 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 plates are MT20 plates unless otherwise indicated.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1023 lb uplift at joint 2 and 1222 lb uplift at joint 11.
8) Girder carries tie-in span(s): 3-0-0 from 7-0-0 to 22-3-8; 7-0-0 from 7-0-0 to 22-3-8
9) Girder carries hip end with 0-0-0 right side setback, 22-3-8 left side setback, and 7-0-0 end setback.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 400 lb down and 151 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, 3-22=-69(F=-15), 10-22=-118(F=-64), 2-20=-30, 20-23=-30, 23-24=-129(F=-99), 15-24=-65(F=-35), 13-14=-65(F=-35), 11-13=-65(F=-35)
Concentrated Loads (lb)
Vert: 23=-400(F)

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061055

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER	J1481245
L140940	T10	SPECIAL	1	1	Job Reference (optional)	

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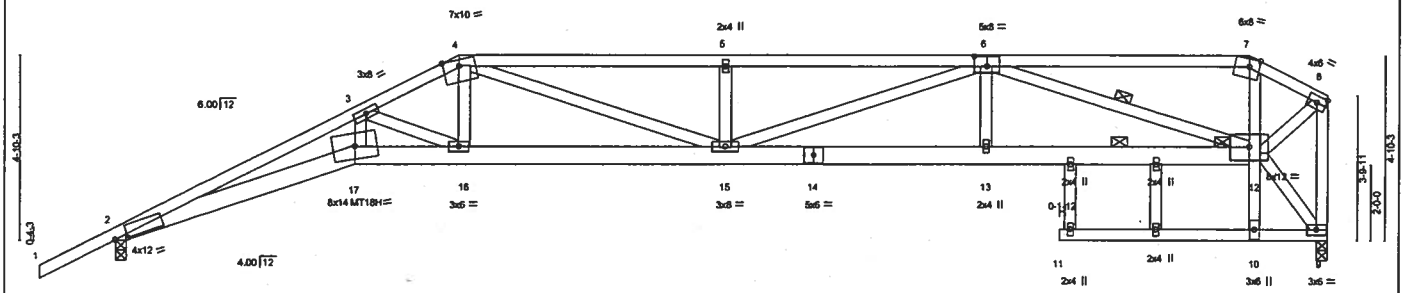
-2-0-0	3-8-9	6-3-8	9-0-0	15-11-12	22-9-12	29-9-8	31-10-8
2-0-0	3-8-9	2-6-15	2-8-8	6-11-12	6-10-0	6-11-12	2-1-0

Scale = 1:57.6



3-8-9	6-3-8	9-0-0	15-11-12	22-9-12	24-9-8	27-2-8	29-9-8	31-10-8
3-8-9	2-6-15	2-8-8	6-11-12	6-10-0	1-11-12	2-5-0	2-7-0	2-1-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.90	Vert(LL)	-0.77	11	>494	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-1.30	11	>292	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.57	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 203 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
B5 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 1-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt 12-13
WEBS 1 Row at midpt 6-12
JOINTS 1 Brace at Jt(s): 12

REACTIONS (lb/size) 2=1468/0-3-8, 9=1456/0-3-8
Max Horz 2=241(load case 5)
Max Uplift2=-497(load case 5), 9=-399(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-6098/2395, 3-4=-3985/1610, 4-5=-4389/1736, 5-6=-4389/1736, 6-7=-1336/427, 7-8=-1410/381, 8-9=-1685/449
BOT CHORD 2-17=-2317/5634, 16-17=-2144/5162, 15-16=-1452/3636, 14-15=-1357/3705, 13-14=-1357/3705, 12-13=-1357/3703, 10-12=0/319, 7-12=0/347, 10-11=0/0, 9-10=-118/0
WEBS 3-17=-530/1518, 3-16=-1739/782, 4-16=-431/1182, 4-15=-395/948, 5-15=-367/271, 6-15=-350/734, 6-13=0/208, 6-12=-2514/1038, 8-12=-428/1661, 9-12=0/158

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 497 lb uplift at joint 2 and 399 lb uplift at joint 9.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

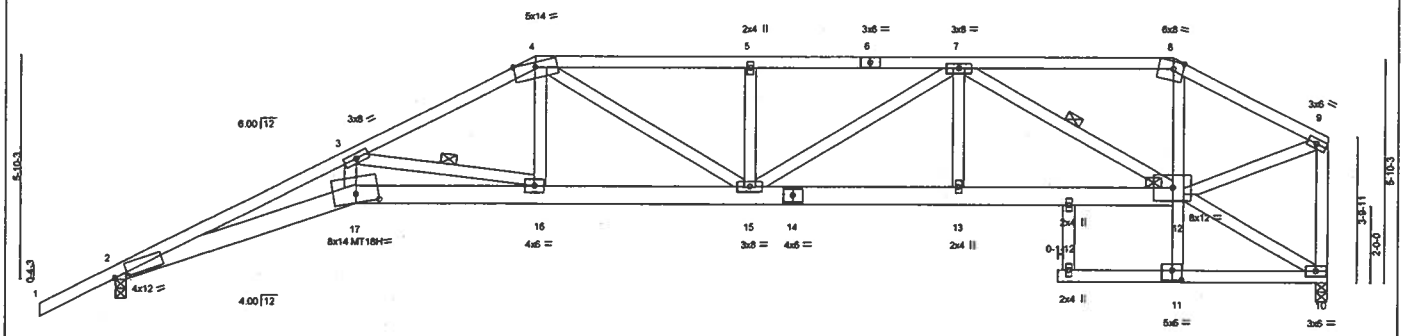
Dwg.#0111061056

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T11	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:10 2005 Page 1

-2-0-0	3-8-9	6-3-8	11-0-0	16-7-12	22-1-12	27-9-8	31-10-8
2-0-0	3-8-9	2-6-15	4-8-8	5-7-12	5-6-0	5-7-12	4-1-0

Scale = 1:57.6



3-8-9	6-3-8	11-0-0	16-7-12	22-1-12	24-9-8	27-2-8	27-9-8	31-10-8
3-8-9	2-6-15	4-8-8	5-7-12	5-6-0	2-7-12	2-5-0	0-7-0	4-1-0

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

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)	-0.55	16-17	>694	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.88	16-17	>433	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(TL)	0.50	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 207 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
B5 2 X 4 SYP No.3, B6 2 X 4 SYP No.2, B4 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-16, 7-12
JOINTS 1 Brace at Jt(s): 12

REACTIONS (lb/size) 2=1446/0-3-8, 10=1323/0-3-8
Max Horz 2=255(load case 5)
Max Uplift2=-518(load case 5), 10=-371(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-5980/2466, 3-4=-3153/1329, 4-5=-3010/1301, 5-6=-3010/1301, 6-7=-3010/1301, 7-8=-1332/622, 8-9=-1517/638, 9-10=-1264/554
BOT CHORD 2-17=-2387/5525, 16-17=-2360/5478, 15-16=-1160/2833, 14-15=-1022/2595, 13-14=-1022/2595, 12-13=-1022/2595, 11-12=0/57, 8-12=-81/426, 10-11=-6/21
WEBS 3-17=-574/1622, 3-16=-2742/1240, 4-16=-338/956, 4-15=-223/386, 5-15=-297/214, 7-15=-210/509, 7-13=0/194, 7-12=-1495/584, 9-12=-545/1393, 10-12=-13/9

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 2 and 371 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061057

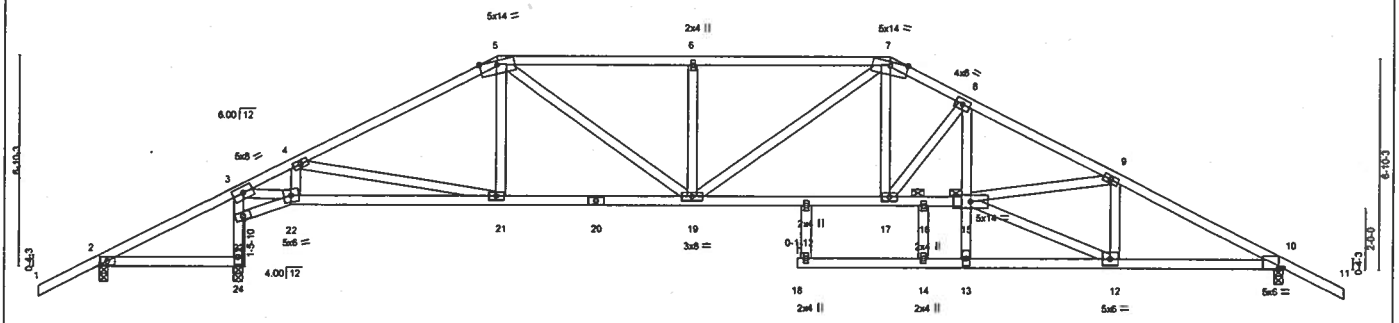
Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T12	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:11 2005 Page 1

-2-0-0 | 4-8-7 | 6-3-8 | 13-0-0 | 19-4-12 | 25-9-8 | 28-2-8 | 33-2-12 | 38-9-8 | 40-9-8

2-0-0 | 4-8-7 | 1-7-1 | 6-8-8 | 6-4-12 | 6-4-12 | 2-5-0 | 5-0-4 | 5-6-12 | 2-0-0

Scale = 1:71.7



28-2-8

4-8-7 | 6-3-8 | 13-0-0 | 19-4-12 | 22-9-8 | 25-9-8 | 26-9-8 | 33-2-12 | 38-9-8

4-8-7 | 1-7-1 | 6-8-8 | 6-4-12 | 3-4-12 | 3-0-0 | 1-0-0 | 5-0-4 | 5-6-12

1-5-0

Plate Offsets (X,Y): [10:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.51	18	>803	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.85	Vert(TL)	-0.86	18	>478	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.19	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 229 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B7 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-1-15 oc bracing.
JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS (lb/size) 2=122/0-3-8, 24=1870/0-3-8, 10=1598/0-3-8
Max Horz 2=-129(load case 6)
Max Uplift2=-213(load case 5), 24=-552(load case 5), 10=-556(load case 6)
Max Grav 2=141(load case 9), 24=1870(load case 1), 10=1598(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-119/455, 3-4=-1632/668, 4-5=-2318/896, 5-6=-2726/1094, 6-7=-2726/1094, 7-8=-3010/1104, 8-9=-3784/1327, 9-10=-2802/1030, 10-11=0/47
BOT CHORD 2-24=-337/121, 23-24=-1842/669, 3-23=-1483/495, 22-23=-884/396, 21-22=-449/1529, 20-21=-463/2010, 19-20=-463/2010, 17-19=-624/2722, 16-17=-871/3325, 15-16=-868/3338, 13-15=-202/13, 8-15=-276/953, 14-18=0/0, 13-14=0/0, 12-13=-53/163, 10-12=-749/2427
WEBS 3-22=-776/2306, 4-22=-628/348, 4-21=-162/601, 5-21=0/141, 5-19=-284/970, 6-19=-359/258, 7-19=-191/174, 7-17=-249/1049, 8-17=-996/399, 12-15=-759/2470, 9-15=-175/907, 9-12=-827/354, 14-16=0/439

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2, 552 lb uplift at joint 24 and 556 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

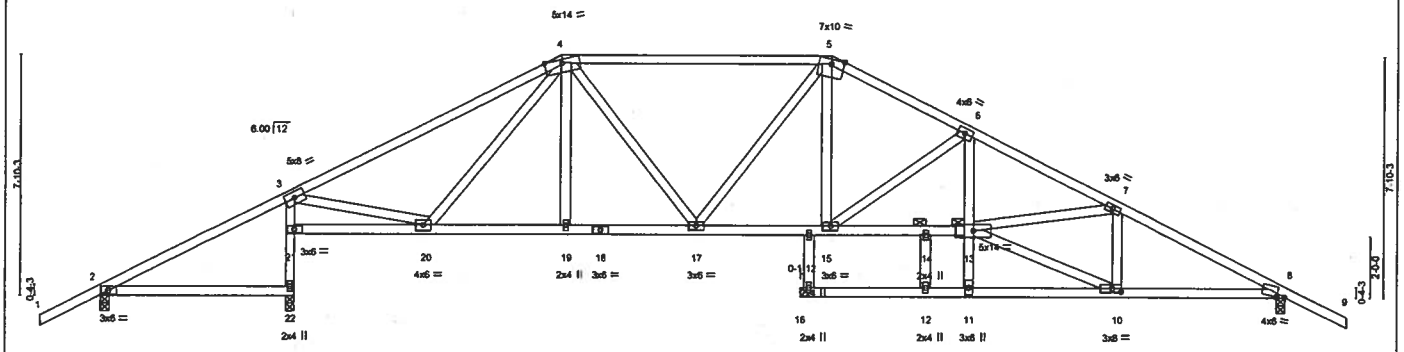
Dwg.#0111061058

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T13	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:12 2005 Page 1

-2-0-0	6-3-8	10-7-12	15-0-0	19-4-12	23-9-8	28-2-8	33-2-12	38-9-8	40-9-8
2-0-0	6-3-8	4-4-4	4-4-4	4-4-12	4-4-12	4-5-0	5-0-4	5-6-12	2-0-0

Scale = 1:71.7



6-1-12	6-3-8	10-7-12	15-0-0	19-4-12	22-9-8	23-9-8	27-2-8	28-2-8	33-2-12	38-9-8
6-1-12	0-1-12	4-4-4	4-4-4	4-4-12	3-4-12	1-0-0	3-5-0	1-0-0	5-0-4	5-6-12

Plate Offsets (X,Y): [8:0-3-5,0-0-11], [10:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.52	16	>750	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.88	16	>442	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.14	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 231 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B6 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-0-13 oc bracing.
JOINTS 1 Brace at Jt(s): 13, 14

REACTIONS (lb/size) 2=323/0-3-8, 22=1723/0-3-8, 8=1544/0-3-8
Max Horz 2=-143(load case 6)
Max Uplift2=-282(load case 5), 22=-557(load case 5), 8=-563(load case 6)
Max Grav 2=332(load case 9), 22=1723(load case 1), 8=1544(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-50/262, 3-4=-1761/734, 4-5=-1974/858, 5-6=-2423/951, 6-7=-3642/1276, 7-8=-2683/1005, 8-9=0/47
BOT CHORD 2-22=-31/0, 21-22=-1633/604, 3-21=-1547/608, 20-21=-148/86, 19-20=-355/1686, 18-19=-354/1690, 17-18=-354/1690, 15-17=-455/2172, 14-15=-835/3215, 13-14=-830/3234, 11-13=-135/28, 6-13=-234/1075, 12-16=0/0, 11-12=0/0, 10-11=-68/99, 8-10=-727/2322
WEBS 3-20=-163/1473, 4-20=-329/102, 4-19=0/148, 4-17=-78/539, 5-17=-401/107, 5-15=-226/926, 6-15=-1297/469, 10-13=-719/2426, 7-13=-122/885, 7-10=-815/337, 12-14=0/377

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 2, 557 lb uplift at joint 22 and 563 lb uplift at joint 8.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

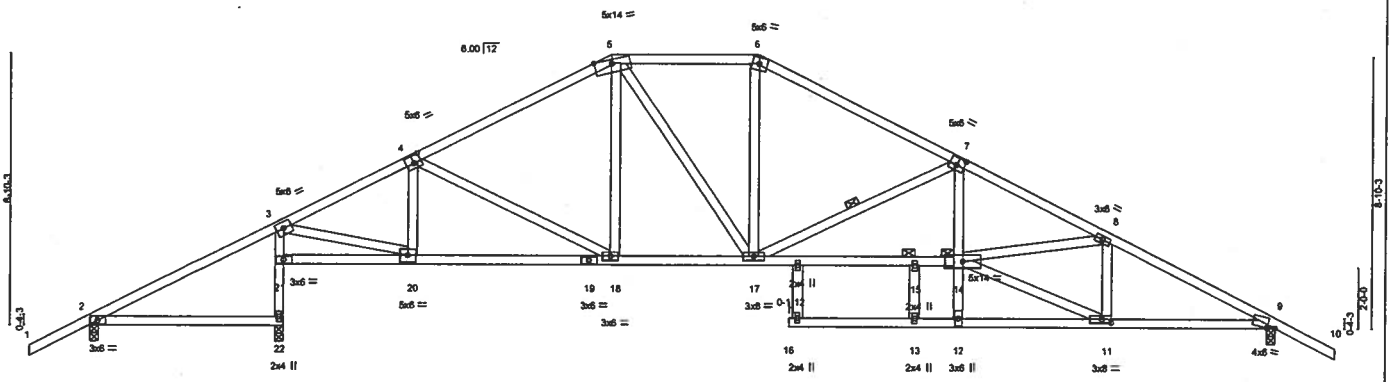
Dwg.#0111061059

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER	J1481249
L140940	T14	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:13 2005 Page 1

-2-0-0	6-3-8	10-6-0	17-0-0	21-9-8	28-2-8	33-2-12	38-9-8	40-9-8
2-0-0	6-3-8	4-2-8	6-6-0	4-9-8	6-5-0	5-0-4	5-6-12	2-0-0

Scale = 1:71.7



6-1-12	6-3-8	10-6-0	17-0-0	21-9-8	22-9-8	28-1-15	28-2-8	33-2-12	38-9-8
6-1-12	0-1-12	4-2-8	6-6-0	4-9-8	1-0-0	5-4-6	0-0-10	5-0-4	5-6-12

Plate Offsets (X,Y): [4:0-3-0,0-3-0], [7:0-3-0,0-3-0], [9:0-3-5,0-0-11], [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	0.34	Vert(LL)	-0.57	16	>686	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.97	16	>403	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.15	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 233 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* B2 2 X 4 SYP No.3, B6 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-0-6 oc bracing.
WEBS 1 Row at midpt 7-17
JOINTS 1 Brace at Jt(s): 14, 15

REACTIONS (lb/size) 2=328/0-3-8, 22=1716/0-3-8, 9=1545/0-3-8
Max Horz 2=157(load case 5)
Max Uplift2=-279(load case 5), 22=-576(load case 5), 9=-576(load case 6)
Max Grav 2=339(load case 9), 22=1716(load case 1), 9=1545(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-56/276, 3-4=-1838/795, 4-5=-1852/799, 5-6=-1814/841, 6-7=-2095/860, 7-8=-3680/1292, 8-9=-2680/1018, 9-10=0/47
BOT CHORD 2-22=-32/0, 21-22=-1624/604, 3-21=-1557/608, 20-21=-149/99, 19-20=-418/1596, 18-19=-418/1596, 17-18=-273/1590, 15-17=-887/3296, 14-15=-883/3317, 12-14=-100/50, 7-14=-211/1137, 13-16=0/0, 12-13=0/0, 11-12=-94/77, 9-11=-737/2318
WEBS 3-20=-536/1804, 4-20=-285/177, 4-18=-85/162, 5-18=-43/199, 5-17=-127/501, 6-17=-157/601, 7-17=-1664/626, 11-14=-701/2446, 8-14=-131/929, 8-11=-826/326, 13-15=-7/345

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 2, 576 lb uplift at joint 22 and 576 lb uplift at joint 9.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

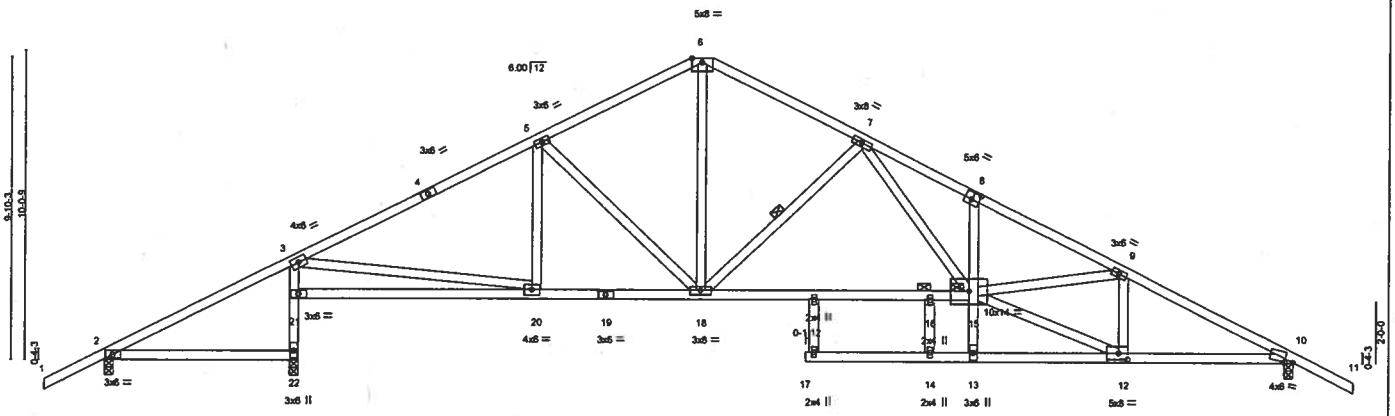
Dwg.#0111061060

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T15	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:14 2005 Page 1

-2-0-0	6-3-8	14-0-5	19-0-0	19-9-8	24-7-8	28-2-8	33-2-12	38-9-8	40-9-8
2-0-0	6-3-8	7-8-13	4-11-11	0-9-8	4-10-0	3-7-0	5-0-4	5-6-12	2-0-0

Scale = 1:71.7



6-1-12	6-3-8	14-0-5	19-0-0	19-9-8	22-9-8	27-2-8	28-2-8	33-2-12	38-9-8
6-1-12	0-1-12	7-8-13	4-11-11	0-9-8	3-0-0	4-5-0	1-0-0	5-0-4	5-6-12

Plate Offsets (X,Y): [8:0-3-0,0-3-0], [10:0-3-5,0-0-11], [12:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.76	17	>513	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-1.29	17	>303	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0.15	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 231 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B6 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-1-15 oc bracing.
WEBS 1 Row at midpt 7-18
JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS (lb/size) 2=332/0-3-8, 22=1712/0-3-8, 10=1546/0-3-8
Max Horz 2=174(load case 5)
Max Uplift2=-280(load case 6), 22=-600(load case 5), 10=-588(load case 6)
Max Grav 2=339(load case 9), 22=1712(load case 1), 10=1546(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-62/306, 3-4=-1991/827, 4-5=-1887/841, 5-6=-1729/805, 6-7=-1719/798, 7-8=-3702/1391, 8-9=-3675/1295, 9-10=-2681/1038, 10-11=0/47
BOT CHORD 2-22=-45/0, 21-22=-1619/612, 3-21=-1481/634, 20-21=-102/216, 19-20=-397/1688, 18-19=-397/1688, 16-18=-551/2257, 15-16=-551/2257, 13-15=0/88, 8-15=-222/209, 14-17=0/0, 13-14=0/0, 12-13=-134/0, 10-12=-756/2321
WEBS 3-20=-298/1500, 5-20=-54/85, 5-18=-350/273, 7-18=-1082/494, 7-15=-509/1734, 12-15=-747/2625, 9-15=-109/918, 9-12=-863/333, 6-18=-495/1203, 14-16=0/178

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left 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 mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 2, 600 lb uplift at joint 22 and 588 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

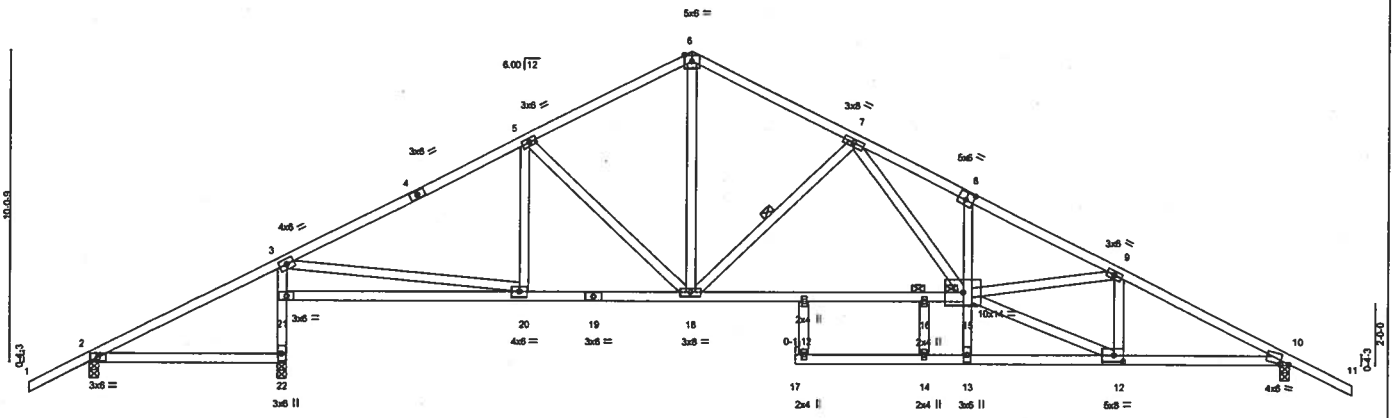
Dwg.#0111061061

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T16	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:15 2005 Page 1

-2-0-0	6-3-8	14-0-3	19-4-12	24-7-7	28-2-8	33-2-12	38-9-8	40-9-8
2-0-0	6-3-8	7-8-11	5-4-9	5-2-12	3-7-1	5-0-4	5-6-12	2-0-0

Scale = 1:71.0



6-1-12	6-3-8	14-0-3	19-4-12	22-9-8	27-2-8	28-2-8	33-2-12	38-9-8
6-1-12	0-1-12	7-8-11	5-4-9	3-4-12	4-5-0	1-0-0	5-0-4	5-6-12

Plate Offsets (X,Y): [8:0-3-0,0-3-0], [10:0-3-5,0-0-11], [12:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.76	17	>513	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-1.29	17	>303	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0.15	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 231 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3, B6 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-1-15 oc bracing.
WEBS 1 Row at midpt 7-18
JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS (lb/size) 2=332/0-3-8, 22=1712/0-3-8, 10=1546/0-3-8
Max Horz 2=174(load case 5)
Max Uplift2=-280(load case 6), 22=-600(load case 5), 10=-588(load case 6)
Max Grav 2=339(load case 9), 22=1712(load case 1), 10=1546(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-62/306, 3-4=-1991/827, 4-5=-1887/841, 5-6=-1729/805, 6-7=-1719/798, 7-8=-3702/1391, 8-9=-3675/1295, 9-10=-2681/1038, 10-11=0/47
BOT CHORD 2-22=-45/0, 21-22=-1619/612, 3-21=-1481/634, 20-21=-101/215, 19-20=-398/1688, 18-19=-398/1688, 16-18=-551/2256, 15-16=-551/2256, 13-15=0/88, 8-15=-222/210, 14-17=0/0, 13-14=0/0, 12-13=-134/0, 10-12=-756/2321
WEBS 3-20=-299/1501, 5-20=-55/85, 5-18=-350/273, 6-18=-494/1203, 7-18=-1082/493, 7-15=-509/1735, 12-15=-747/2625, 9-15=-109/918, 9-12=-863/333, 14-16=0/178

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left 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 mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 2, 600 lb uplift at joint 22 and 588 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

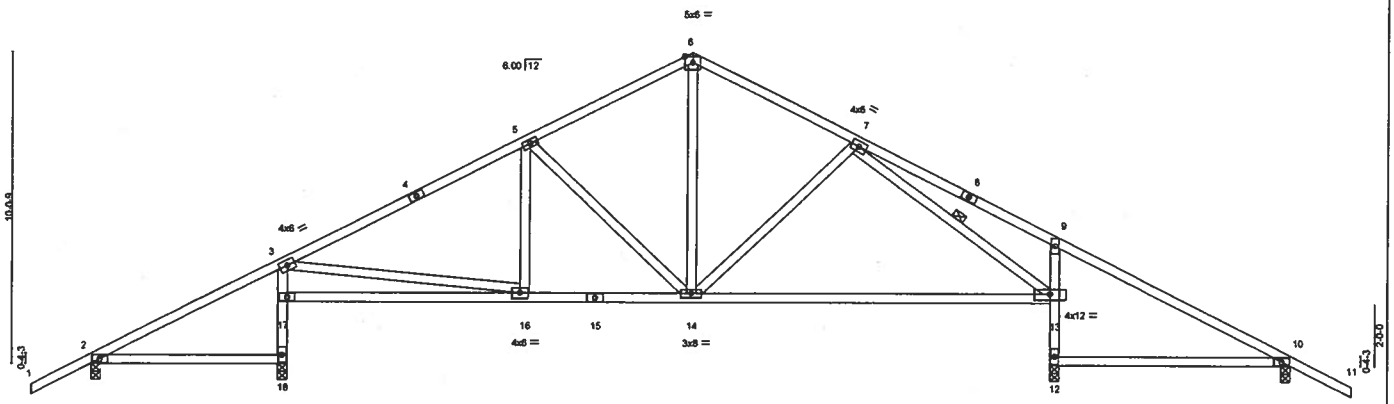
Dwg.#0111061062

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T17	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Nov 17 09:10:16 2005 Page 1

-2-0-0	6-3-8	14-0-3	19-4-12	24-7-8	31-0-0	38-9-8	40-9-8
2-0-0	6-3-8	7-8-11	5-4-9	5-2-12	6-4-8	7-9-8	2-0-0

Scale = 1:71.0



6-1-12	6-3-8	14-0-3	19-4-12	31-0-0	38-9-8
6-1-12	0-1-12	7-8-11	5-4-9	11-7-4	7-9-8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.16	10-12	>559	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.56	13-14	>532	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.03	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 201 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-3-1 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS (lb/size) 2=355/0-3-8, 18=1306/0-3-8, 12=1414/0-3-8, 10=391/0-3-8
Max Horz 2=174(load case 5)
Max Uplift2=-287(load case 6), 18=-536(load case 5), 12=-464(load case 6), 10=-413(load case 6)
Max Grav 2=355(load case 1), 18=1306(load case 1), 12=1414(load case 1), 10=391(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-96/320, 3-4=-1354/663, 4-5=-1250/677, 5-6=-1023/613, 6-7=-1017/608, 7-8=-123/432, 8-9=-206/410, 9-10=-85/306, 10-11=0/47
BOT CHORD 2-18=-54/27, 17-18=-1209/499, 3-17=-1073/523, 16-17=-133/286, 15-16=-273/1120, 14-15=-273/1120, 13-14=-210/899, 12-13=-1283/492, 9-13=-472/376, 10-12=-92/2
WEBS 3-16=-156/842, 5-16=0/71, 5-14=-402/310, 6-14=-333/580, 7-14=-123/254, 7-13=-1010/248

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 2, 536 lb uplift at joint 18, 464 lb uplift at joint 12 and 413 lb uplift at joint 10.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061063

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T18	COMMON	7	1	Job Reference (optional)

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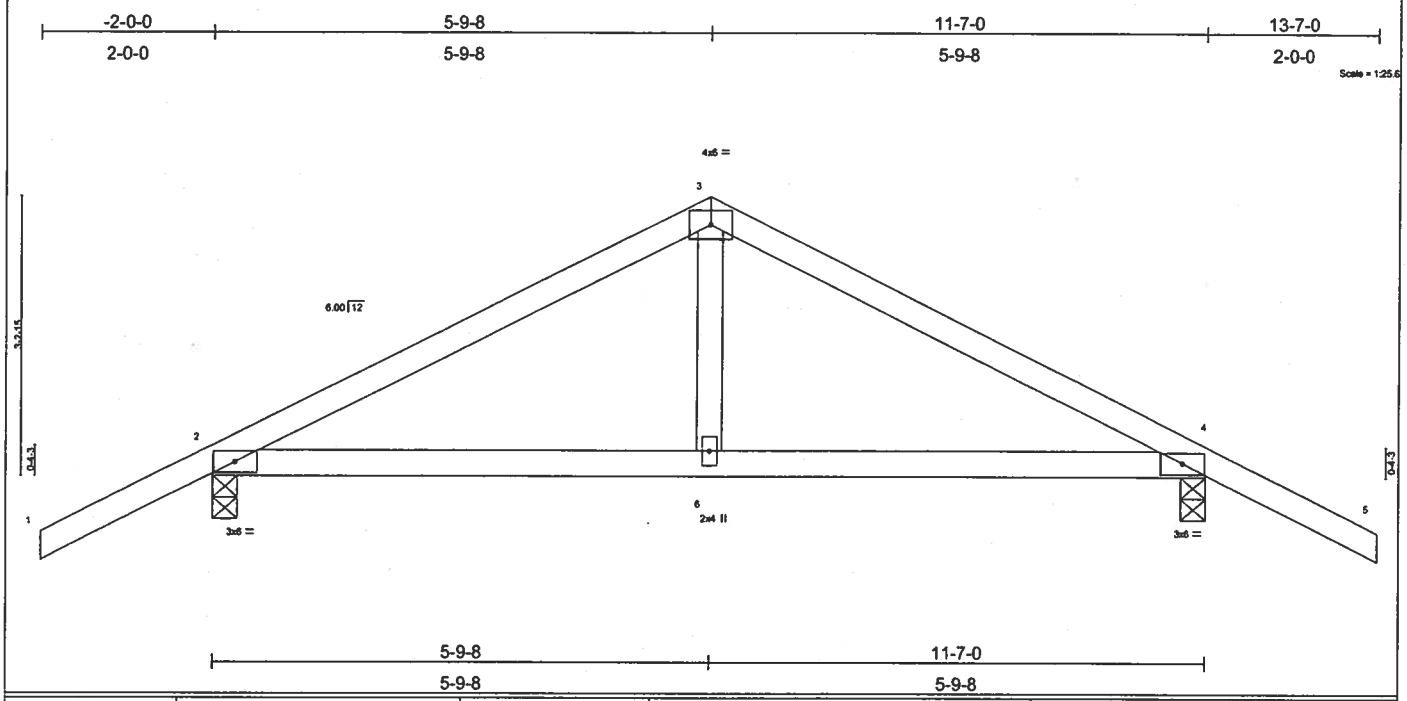

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.03	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.05	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 47 lb	

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

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

REACTIONS (lb/size) 2=590/0-3-8, 4=590/0-3-8
Max Horz 2=-79(load case 6)
Max Uplift2=-284(load case 5), 4=-284(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-630/247, 3-4=-630/247, 4-5=0/47
BOT CHORD 2-6=-66/501, 4-6=-66/501
WEBS 3-6=0/193

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 2 and 284 lb uplift at joint 4.

LOAD CASE(S) Standard

JANUARY 11, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0111061064

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER- SAMUEL MASTER
L140940	T18G	DROP TC GABLE	1	1	Job Reference (optional)

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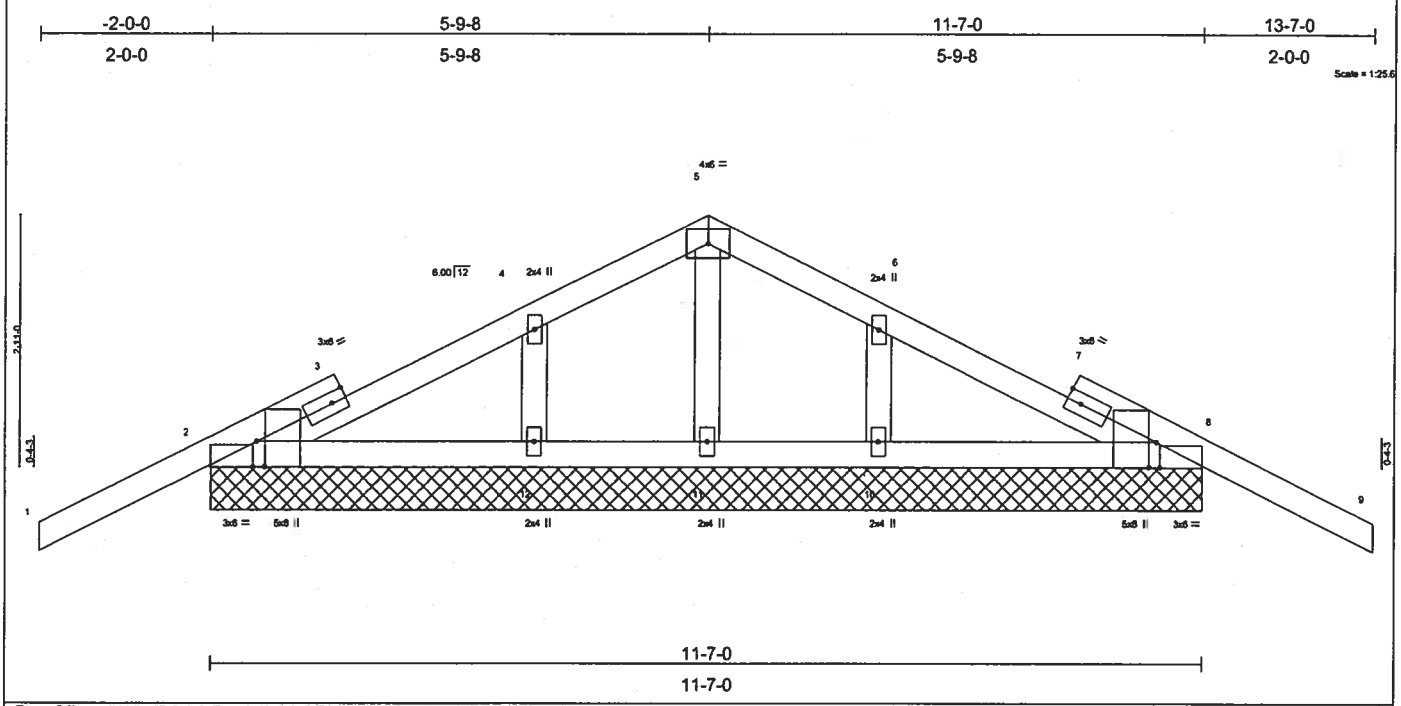

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [8:0-3-8,Edge], [8:0-0-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.03	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.05	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 54 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
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=502/11-7-0, 8=502/11-7-0, 11=259/11-7-0, 12=431/11-7-0, 10=431/11-7-0
Max Horz 2=74(load case 5)
Max Uplift2=-290(load case 5), 8=-301(load case 6), 11=-49(load case 5), 12=-147(load case 5), 10=-151(load case 6)
Max Grav 2=505(load case 9), 8=505(load case 10), 11=259(load case 1), 12=434(load case 9), 10=434(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-25/99, 2-3=-23/32, 3-4=-34/158, 4-5=0/114, 5-6=0/114, 6-7=-15/158, 7-8=-11/32, 8-9=-25/99
BOT CHORD 2-12=-70/116, 11-12=-70/116, 10-11=-70/116, 8-10=-70/116
WEBS 5-11=-231/63, 4-12=-330/251, 6-10=-330/251

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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 2, 301 lb uplift at joint 8, 49 lb uplift at joint 11, 147 lb uplift at joint 12 and 151 lb uplift at joint 10.
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: 1-5=-114(F=-60), 5-9=-114(F=-60), 2-8=-30

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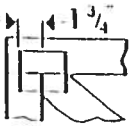
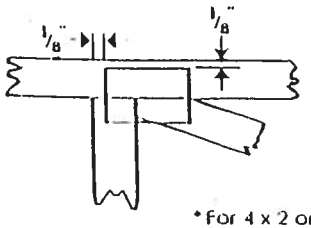
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

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 seal.



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

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

PLATE SIZE

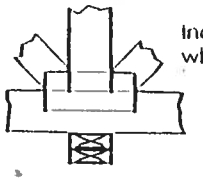
4 x 4

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

LATERAL BRACING

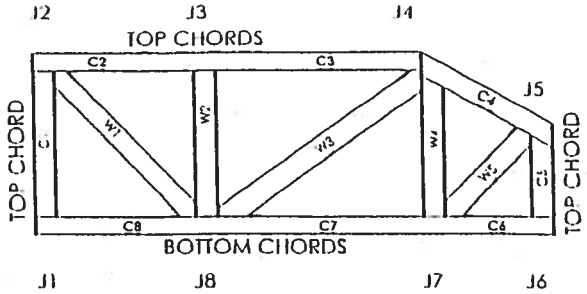
Indicates location of required continuous lateral bracing.

BEARING



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

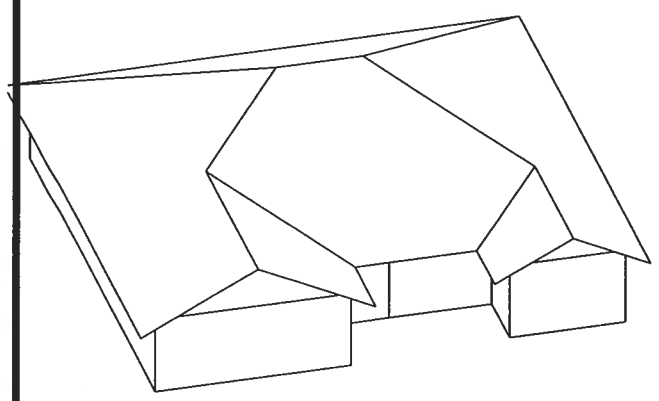
BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
HER	561

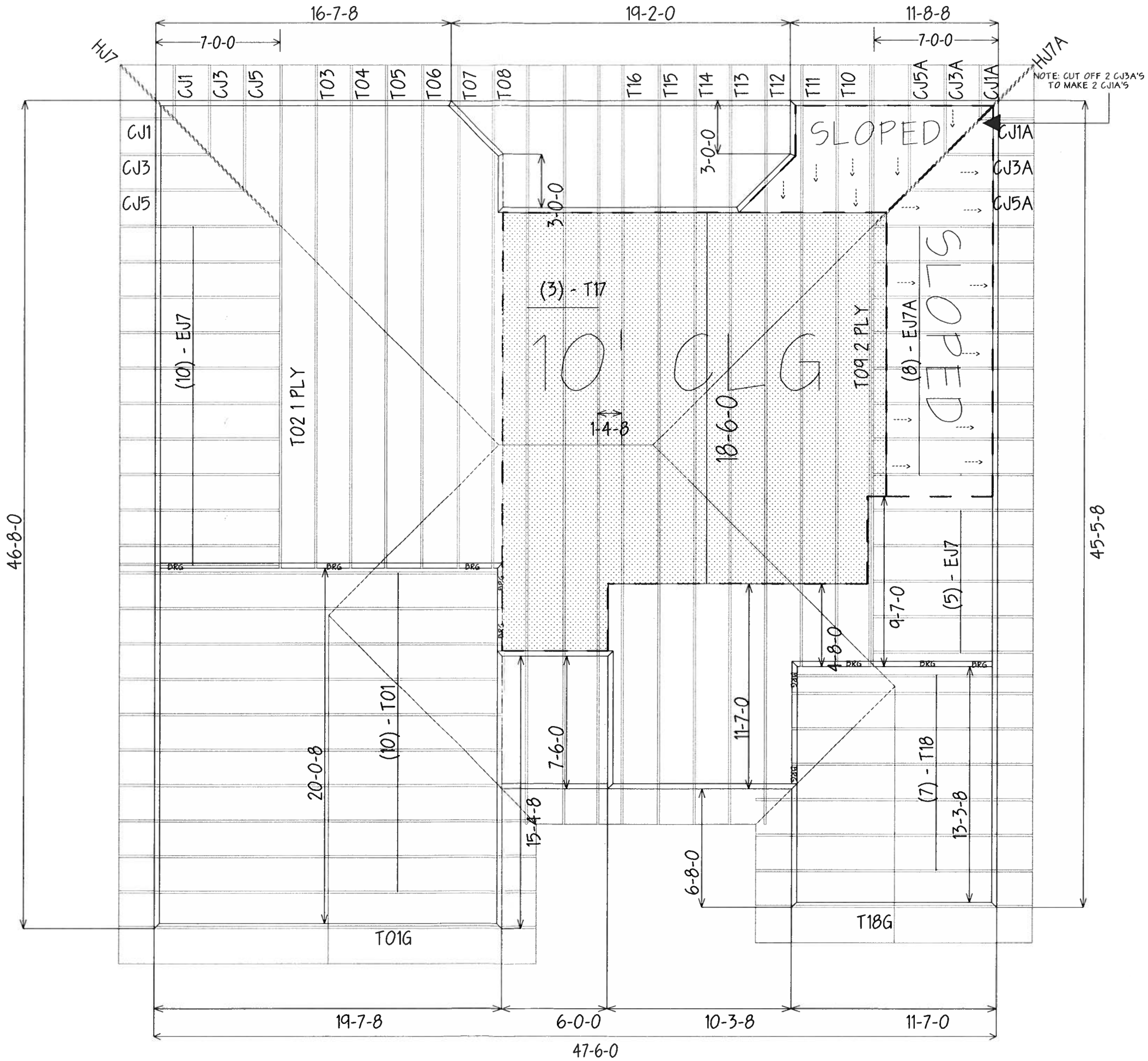
MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transfering 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.





BEARING HEIGHT SCHEDULE

8'

2' O/H
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: BRYAN ZECHER

LEGAL ADDRESS: Lot 12 CSE

MODEL: THE SAMUEL | REVISION:

SCALE: NTS

DATE: 11/17/05 | DRAWN BY: JRD | JOB #: L140940