DATE 07/11/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027163

APPLICANT JACOB KIRSCH PHONE 344-4817

ADDRESS 484 NW TURNER AVENUE LAKE CITY FL 32055

OWNER SOUTHEAST DEVELOPERS PHONE 755-2082

ADDRESS 226 SW MORNING GLORY DR LAKE CITY FL 32024

CONTRACTOR JACOB KIRSCH PHONE 344-4817

LOCATION OF PROPERTY 90W, TL ON 247S, TL CALLAHAN,TL HOPE HENRY, TR MORNING GLORY, 6TH LOT ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 118800.00

HEATED FLOOR AREA 1700.00 TOTAL AREA 2376.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 21

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-16-03023-554 SUBDIVISION ROLLING MEADOWS

LOT 54 BLOCK PHASE UNIT TOTAL ACRES 0.51

000001635		CBC1253775		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
CULVERT	08-0053	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: PLAT REQUIRES MFE AT 106 FT., ELEVATION CONFIRMATION LETTER REQUIRED AT SLAB

Check # or Cash 12110

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by

Foundation _____ date/app. by

Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by

Slab _____ date/app. by

Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by

Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by

C.O. Final _____ date/app. by

Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Pool _____ date/app. by

Reconnection _____ date/app. by

Pump pole _____ date/app. by

Utility Pole _____ date/app. by

M/H Pole _____ date/app. by

Travel Trailer _____ date/app. by

Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 595.00 CERTIFICATION FEE $ 11.88 SURCHARGE FEE $ 11.88

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 718.76

INSPECTORS OFFICE _____ CLERKS OFFICE CH

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Columbia County Building Permit Application

For Office Use Only Application # 0801-55 Date Received 1-11-08 By LH Permit # 16351, 27163

Application Approved by - Zoning Official BLK Date 1.01.08 Plans Examiner OKJTH Date 1-17-08

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

Comments Plat Requires MFE of 106 ft. Elevation Confirmation Letter Required

☐ NOC ☐ EH ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permi

Name Authorized Person Signing Permit Jacob Kirsch Fax 386-752-5047

Address 484 NW turner ave #101, Lake City, FL 32055 Phone 386-344-4817

Owners Name Southeast Developers Phone 386-755-2082

911 Address 224 SW morning Glory Dr, Lake City, FL 32024

Contractors Name Jacob Kirsch - Compass Builders Phone 386-344-4817

Address 484 NW turner ave, #101, Lake City FL 32055

Fee Simple Owner Name & Address Southeast Developers Group, Lake City, FL

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Nicholas Paul Geisler 1758 NW Brown rd. L.C. FL

Mortgage Lenders Name & Address Columbia Bank 173 NW hillsboro St Lake City FL, 32025

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

Property ID Number 15-4S-16-03023-554 Estimated Cost of Construction 94.000.00

Subdivision Name Rolling Meadows Lot 54 Block ____ Unit ____ Phase ____

Driving Directions from US90/441 - go US90 West to CR-247 TL follow to SW callahan ave, TL, follow to Rolling Meadows Sub. TR. Hope Henley follow SW Morning Glory dr to 6th lot on Right.

Type of Construction S.F.D. Number of Existing Dwellings on Property 0

Total Acreage .5 Lot Size .5 Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 50 Side 37 Side 37 Rear 60

Total Building Height 21'8" Number of Stories 1 Heated Floor Area 1700 TOTAL 2376 Roof Pitch 8/12

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 Authorized Person by Notarized Letter

Jacob L. Kirsch
Contractor Signature
Contractors License Number CBC 1253775
Competency Card Number
NOTARY STAMP/SEAL

NOTARY PUBLIC-STATE OF FLORIDA
Michelle Fischer
Commission # DD598374
Expires: SEP. 24, 2010
BONDED THRU ATLANTIC BONDING CO., INC.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 11 day of Jan 2008.

Personally known X or Produced Identification ____

Michelle Fischer
Notary Signature

(Revised Sept. 2006)

JW left Message - 1.18.08

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:
YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Contractor's Signature (Permitee)

Contractor's License Number CBC 1253775
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 31 **day of** Jan **20**08.
Personally known V **or Produced Identification** _____

_____
State of Florida Notary Signature (For the Contractor)

SEAL:

Notary Public State of Florida
Matthew Rocco
My Commission DD578349
Expires 09/17/2010

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001635

DATE 07/11/2008 PARCEL ID # 15-4S-16-03023-554

APPLICANT JACOB KIRSCH PHONE 344-4817

ADDRESS 484 NW TURNER AVENUE LAKE CITY FL 32055

OWNER SOUTHEAST DEVELOPERS PHONE 755-2082

ADDRESS 226 SW MORNING GLORY DR LAKE CITY FL 32024

CONTRACTOR JACOB KIRSCH PHONE 344-4817

LOCATION OF PROPERTY 90W, TL ON 247S, TL CALLAHAN,TL HOPE HENRY, TR MORNING GLORY, 6TH LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 54

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

131.76'

15'-0" REAR SETBACK

LOT 54, ROLLING MEADOWS
COMPASS BUILDERS

60'-4"

SEPTIC TANK

ELECT. METER

WATER TAP

54'-8"

165.00'

10'-0" SIDE SETBACK

10'-0" SIDE SETBACK

165.00'

37'-3"

56'-4"

37'-2"

50'-0"

25'-0" FRONT SETBACK

SCALE: 1" = 20'-0"

131.76'

SW Morning Glory dr.

15-4S-16-03023-554
LOT 54 ROLLING MEADOWS S/D. WD 1063-1963. WD 1067-2449. CWD 1104-327

Corporate Warranty Deed

This Indenture, made this December 4, 2006 A.D.
Between
Burbach Investment Group, LLC, a Florida Limited Liability Company, whose post office address is: 507 W. Duval Street, Lake City, FL 32055; Grantor and **Southeast Developers Group, Inc., a Florida Corporation** whose post office address is: 197 SW Waterford Court, Lake City, Florida 32025

Witnesseth, that the said Grantor, for and in consideration of the sum of Ten and No/100 Dollars ($10.00), to it in hand paid by the said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee forever, the following described land, situate, lying and being in the County of Columbia, State of Florida, to wit:

Lots 7, 48, 50, 52, and 54, ROLLING MEADOWS, according to the Plat thereof, recorded in Plat Book 8, Pages 45 and 46, of the Public Records of Columbia County, Florida.

Subject to taxes for the current year, covenants, restrictions and easements of record, if any.

Parcel Identification Number: R03023-507, R03023-548, R03023-550, R03023-552, and R03023-554

And the said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

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

In Witness Whereof, the said Grantor has caused this instrument to be executed in its name by its duly authorized officer and caused its corporate seal to be affixed the day and year first above written.

Burbach Investment Group, LLC
a Florida Limited Liability Company

Signed and Sealed in Our Presence:

By: _____
Thomas P Cady, Manager

_____
Witness Print Name: **Matthew D. Rocco**

_____
Witness Print Name: **MELINDA WEAVER**

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 4th day of December, 2006, by Thomas P Cady, Manager of Burbach Investment Group, LLC, a Florida Limited Liability Company, on behalf of the company.
He is personally known to me or has produced _____ as identification.

_____(Seal)
Notary Public
Notary Printed Name: _____

My Commission Expires::

Notary Public State of Florida
Matthew Rocco
My Commission DD578349
Expires 09/17/2010

#06-0389
Prepared by & Return to:
Matt Rocco
Sierra Title, LLC,
619 SW Baya Drive, Suite 102
Lake City, Florida 32025

Inst:2006028778 Date:12/06/2006 Time:12:42
Doc Stamp-Deed : 1400.00
DC,P.DeWitt Cason,Columbia County B:1104 P:327

COLUMBIA COUNTY 9-1-1 ADDRESSING / GIS DEPARTMENT

P. O. Box 1787, Lake City, FL 32056-1787
Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com

ADDRESS ASSIGNMENT DATA

The Columbia County Board of County Commissioners has passed Ordinance 2001-9, which provides for a uniform numbering system. A copy of this ordinance is available in the Clerk of Court records, located in the courthouse. This new numbering system will increase the efficiency of POLICE, FIRE AND EMERGENCY MEDICAL vehicles responding to calls within Columbia County by immediately identifying the location of the caller.

Residential or Other Structure on Parcel Number:
15-4S-16-03023-554

Address Assignment:
226 SW MORNING GLORY DR, LAKE CITY, FL, 32024

Note: LOT 54 ROLLING MEADOWS S/D

Any questions concerning this information should be referred to the Columbia County 9-1-1 Addressing / GIS Department at the address or telephone number above.

FORM 600A-2004R

EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Compass Builders - Kailee**	Builder:	**Compass Builders**
Address:	**Lot: 54 Sub: Rolling Meadows, Plat:**	Permitting Office:	COLUMBIA
City, State:	**Lake City, FL 32025-** Lot 54	Permit Number:	27099
Owner:	**Spec House**	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: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1700 ft²	13. Heating systems	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 36.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 7.70
(or Single or Double DEFAULT)	7a. (Dble Default) 259.3 ft²	b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 259.3 ft²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 50.0 gallons
a. Slab-On-Grade Edge Insulation	R=5.0, 190.0(p) ft		EF: 0.90
b. N/A		b. N/A	
c. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
9. Wall types		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,
a. Frame, Wood, Exterior	R=13.0, 1146.7 ft²		
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft²		
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1850.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft		
b. N/A			

Glass/Floor Area: 0.15

Total as-built points: 21957

Total base points: 23500

PASS

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

PREPARED BY: _____

DATE: 1-9-08

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

OWNER/AGENT: 1/10/08

DATE: _____

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: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** 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	1700.0	18.59	5689.0	1.Double, Clear	W	1.5	10.0	75.0	38.52	0.98	2828.0
				2.Double, Clear	W	1.5	10.0	20.0	38.52	0.98	754.0
				3.Double, Clear	W	1.5	10.0	40.0	38.52	0.98	1508.0
				4.Double, Clear	N	1.5	8.0	15.0	19.20	0.97	278.0
				5.Double, Clear	E	1.5	8.0	30.0	42.06	0.96	1208.0
				6.Double, Clear	E	9.5	10.0	13.3	42.06	0.53	297.0
				7.Double, Clear	E	5.5	10.0	30.0	42.06	0.69	875.0
				8.Double, Clear	S	1.5	8.0	16.0	35.87	0.92	529.0
				9.Double, Clear	S	1.5	8.0	20.0	35.87	0.92	662.0
				As-Built Total:				**259.3**			**8939.0**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	180.0	0.70	126.0	1. Frame, Wood, Exterior	13.0	1146.7	1.50	1720.0
Exterior	1146.7	1.70	1949.4	2. Frame, Wood, Adjacent	13.0	180.0	0.60	108.0
Base Total:	**1326.7**		**2075.4**	**As-Built Total:**		**1326.7**		**1828.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	2.40	48.0	1.Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	6.10	122.0	2.Adjacent Insulated	20.0	1.60	32.0
Base Total:	**40.0**		**170.0**	**As-Built Total:**	**40.0**		**114.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1700.0	1.73	2941.0	1. Under Attic	30.0	1850.0	1.73 X 1.00	3200.5
Base Total:	**1700.0**		**2941.0**	**As-Built Total:**		**1850.0**		**3200.5**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	190.0(p)	-37.0	-7030.0	1. Slab-On-Grade Edge Insulation	5.0	190.0(p	-36.20	-6878.0
Raised	0.0	0.00	0.0					
Base Total:			**-7030.0**	**As-Built Total:**		**190.0**		**-6878.0**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	1700.0	10.21	17357.0	1700.0	10.21	17357.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE			AS-BUILT						
Summer Base Points: 21202.4			**Summer As-Built Points:**						**24560.5**
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 36000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
			24561	1.00	(1.09 x 1.147 x 0.91)	0.260	0.950	6901.9	
21202.4	**0.3250**	**6890.8**	**24560.5**	**1.00**	**1.138**	**0.260**	**0.950**	**6901.9**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** 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	1700.0	20.17	6172.0	1.Double, Clear	W	1.5	10.0	75.0	20.73	1.01	1563.0	
				2.Double, Clear	W	1.5	10.0	20.0	20.73	1.01	416.0	
				3.Double, Clear	W	1.5	10.0	40.0	20.73	1.01	833.0	
				4.Double, Clear	N	1.5	8.0	15.0	24.58	1.00	368.0	
				5.Double, Clear	E	1.5	8.0	30.0	18.79	1.02	574.0	
				6.Double, Clear	E	9.5	10.0	13.3	18.79	1.27	318.0	
				7.Double, Clear	E	5.5	10.0	30.0	18.79	1.14	641.0	
				8.Double, Clear	S	1.5	8.0	16.0	13.30	1.04	221.0	
				9.Double, Clear	S	1.5	8.0	20.0	13.30	1.04	276.0	
				As-Built Total:				**259.3**			**5210.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	180.0	3.60	648.0	1. Frame, Wood, Exterior	13.0	1146.7	3.40	3898.8
Exterior	1146.7	3.70	4242.8	2. Frame, Wood, Adjacent	13.0	180.0	3.30	594.0
Base Total:	**1326.7**		**4890.8**	**As-Built Total:**		**1326.7**		**4492.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	11.50	230.0	1.Exterior Insulated	20.0	8.40	168.0
Exterior	20.0	12.30	246.0	2.Adjacent Insulated	20.0	8.00	160.0
Base Total:	**40.0**		**476.0**	**As-Built Total:**	**40.0**		**328.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	1700.0	2.05	3485.0	1. Under Attic	30.0	1850.0	2.05 X 1.00	3792.5
Base Total:	**1700.0**		**3485.0**	**As-Built Total:**		**1850.0**		**3792.5**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	190.0(p)	8.9	1691.0	1. Slab-On-Grade Edge Insulation	5.0	190.0(p	7.60	1444.0
Raised	0.0	0.00	0.0					
Base Total:			**1691.0**	**As-Built Total:**		**190.0**		**1444.0**

INFILTRATION	Area X	BWPM	= Points	Area X	WPM	= Points
	1700.0	-0.59	-1003.0	1700.0	-0.59	-1003.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**15711.8**	**Winter As-Built Points:**					**14264.3**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			14264.3	1.000	(1.069 x 1.169 x 0.93) 0.443		0.950	6974.5
15711.8	**0.5540**	**8704.3**	**14264.3**	**1.00**	**1.162**	**0.443**	**0.950**	**6974.5**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** 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	50.0	0.90	3	1.00	2693.56	1.00	8080.7	
				As-Built Total:						**8080.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
6891	**8704**	**7905**	**23500**	**6902**	**6974**	**8081**	**21957**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.6

The higher the score, the more efficient the home.

Spec House, Lot: , Sub: Rolling Meadows, Plat: , Lake City, FL, 32025-

1.	New construction or existing	New	__
2.	Single family or multi-family	Single family	__
3.	Number of units, if multi-family	1	__
4.	Number of Bedrooms	3	__
5.	Is this a worst case?	No	__
6.	Conditioned floor area (ft²)	1700 ft²	__
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 259.3 ft²	__
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 259.3 ft²	__
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=5.0, 190.0(p) ft	__
b.	N/A		__
c.	N/A		__
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1146.7 ft²	__
b.	Frame, Wood, Adjacent	R=13.0, 180.0 ft²	__
c.	N/A		__
d.	N/A		__
e.	N/A		__
10.	Ceiling types		
a.	Under Attic	R=30.0, 1850.0 ft²	__
b.	N/A		__
c.	N/A		__
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft	__
b.	N/A		__

12.	Cooling systems		
a.	Central Unit	Cap: 36.0 kBtu/hr	__
		SEER: 13.00	__
b.	N/A		__
			__
c.	N/A		__
			__
13.	Heating systems		
a.	Electric Heat Pump	Cap: 36.0 kBtu/hr	__
		HSPF: 7.70	__
b.	N/A		__
			__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons	__
		EF: 0.90	__
b.	N/A		__
			__
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		__
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,	__

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

Builder Signature: _____ Date: _____

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

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

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

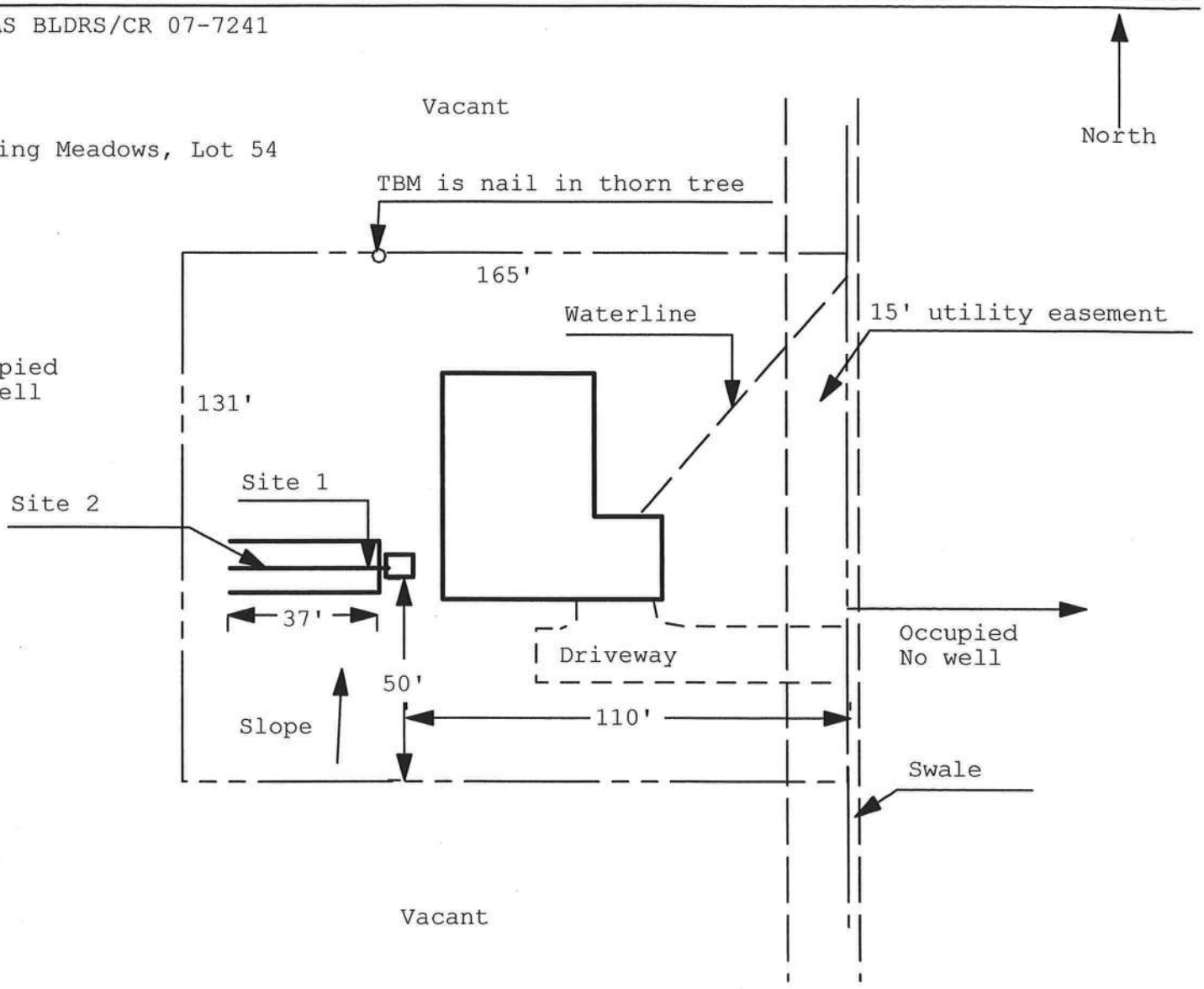
08-0053

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

Permit Application Number: 0801-55

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

COMPAS BLDRS/CR 07-7241



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd **Date** 1/11/08

Plan Approved ✓ **Not Approved** ____ **Date** 1-15-08

By Marsha Zanch Columbia **CPHU**

Notes: _____

27163

WILLIAM N. KITCHEN

PROFESSIONAL SURVEYOR AND MAPPER
152 N. MARION AVENUE
LAKE CITY, FLORIDA 32055
PHONE (386) 755-7786 FAX (386) 755-5506
E-MAIL BSSK@BELLSOUTH.NET

DATE : 8/28/2008

To Whom It May Concern:

RE: COMPASS BUILDER
LOT 54 ROLLING MEADOWS

SUBJECT **Parcel:** 15-4S-16-03023-554 PERMIT NO. 271-63

IS NOT IN A FLOOD ZONE ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 120070 0175 B DATED JANUARY 6, 1988.
AND THE TOP OF FORMS IS AT AN ELEVATION OF 104.46 FEET.
LOT 52 PER CURTIS KEEN P.E. 23836, LETTER DATED AUG. 28, 2008 STATES MINIMUM FLOOR ELEVATION OF 104.25 FEET, OR A MINUMUN OF 12" ABOVE THE HIGHEST GRADE.

Thank you,
WILLIAM N. KITCHEN PSM # 5490

William N. Kitchen
8-28-2008

Waiting for original

KEEN ENGINEERING & SURVEYING, INC.
9263 COUNTY ROAD 417
LIVE OAK, FLORIDA 32060
386/362-4787

August 28, 2008

Columbia County Building Department
P.O. Drawer 1529
Lake City, FL 32056

RE: LOT 54 ROLLING MEADOWS S/D
COLUMBIA COUNTY PERMIT # 27163
FINISH FLOOR ELEVATION

The above lot 54 of Rolling Meadows Subdivision has a minimum finish floor elevation of 106.00 stated on the plans. The lot has elevations that run from 105 on the North to 101.4' on the South.

The finish floor elevation is to be set at 104.25' and be a minimum of 12" above the highest adjacent grade within 15' of the proposed residence.

The finish floor elevation will be at an adequate height to prevent any flooding of the proposed home.

If additional information is required, please advise.

Curtis E. Keen

Curtis E. Keen, PE #23836
Eng. Bus. #3761

Copy: Compass Builders

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-16-03023-554 **Building permit No.** 000027163

Use Classification SFD,UTILITY **Fire:** 64.20

Permit Holder JACOB KIRSCH **Waste:** 167.50

Owner of Building SOUTHEAST DEVELOPERS **Total:** 231.70

Location: 226 SW MORNING GLORY DR,LAKE CITY,FL 32024

Date: 12/18/2008

Harry Dicks by

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee
Lot 54

Code Only
Professional Version
Climate: North

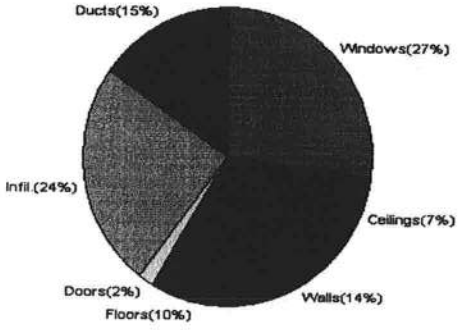
1/10/2008

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	**30539**	**Btuh**	**Total cooling load calculation**	**46532 Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.9	36000	Sensible (SHR = 0.75)	70.4 27000
Heat Pump + Auxiliary(0.0kW)	117.9	36000	Latent	110.0 9000
			Total (Electric Heat Pump)	77.4 36000

WINTER CALCULATIONS

Winter Heating Load (for 1700 sqft)

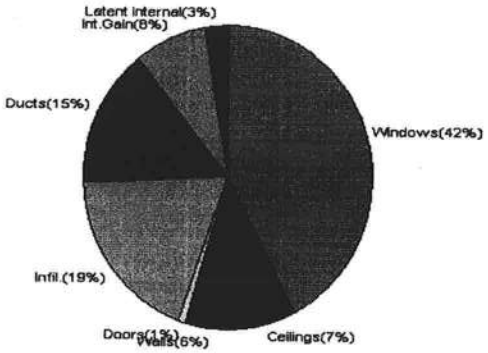
Load component			Load	
Window total	259	sqft	8348	Btuh
Wall total	1327	sqft	4357	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	1850	sqft	2180	Btuh
Floor total	190	sqft	3107	Btuh
Infiltration	181	cfm	7345	Btuh
Duct loss			4684	Btuh
Subtotal			**30539**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**30539**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1700 sqft)

Load component			Load	
Window total	259	sqft	19662	Btuh
Wall total	1327	sqft	2663	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	1850	sqft	3064	Btuh
Floor total			0	Btuh
Infiltration	159	cfm	2953	Btuh
Internal gain			3780	Btuh
Duct gain			5838	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**38352**	**Btuh**
Latent gain(ducts)			1181	Btuh
Latent gain(infiltration)			5799	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**8180**	**Btuh**
TOTAL HEAT GAIN			**46532**	**Btuh**



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: [signature]
DATE: 1-9-08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

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

1/10/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	75.0	32.2	2414 Btuh
2	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
4	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
5	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
7	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	S	16.0	32.2	515 Btuh
9	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
	Window Total		259(sqft)		8348 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1147	3.3	3766 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
	Wall Total		1327		4357 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1850	1.2	2180 Btuh
	Ceiling Total		1850		2180Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	190.0 ft(p)	16.4	3107 Btuh
	Floor Total		190		3107 Btuh
			Envelope Subtotal:		18510 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	13600	1327 181.3	7345 Btuh
Ductload				(DLM of 0.181)	4684 Btuh
All Zones			**Sensible Subtotal All Zones**		**30539 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

1/10/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	30539 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30539 Btuh

EQUIPMENT

1. Electric Heat Pump	#	36000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

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

1/10/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	75.0	32.2	2414 Btuh
2	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
4	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
5	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
7	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
8	2, Clear, Metal, 0.87	S	16.0	32.2	515 Btuh
9	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
	Window Total		259(sqft)		8348 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1147	3.3	3766 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
	Wall Total		1327		4357 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1850	1.2	2180 Btuh
	Ceiling Total		1850		2180Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	190.0 ft(p)	16.4	3107 Btuh
	Floor Total		190		3107 Btuh
			Zone Envelope Subtotal:		18510 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	13600	1327 181.3	7345 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.181)				4684 Btuh
Zone #1			**Sensible Zone Subtotal**		**30539 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

1/10/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	30539 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30539 Btuh

EQUIPMENT

1. Electric Heat Pump	#	36000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/10/2008

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	W	1.5ft	10ft.	75.0	0.0	75.0	29	80	5964 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	20.0	0.0	20.0	29	80	1590 Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	40.0	0.0	40.0	29	80	3181 Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	29	29	434 Btuh
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	29	80	2385 Btuh
6	2, Clear, 0.87, None,N,N	E	9.5ft	10ft.	13.3	9.1	4.2	29	80	600 Btuh
7	2, Clear, 0.87, None,N,N	E	5.5ft	10ft.	30.0	0.0	30.0	29	80	2385 Btuh
8	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	16.0	16.0	0.0	29	34	463 Btuh
9	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	20.0	20.0	0.0	29	34	579 Btuh
	Excursion									2079 Btuh
	Window Total				259 (sqft)					19662 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1146.7	2.1	2392 Btuh
2	Frame - Wood - Adj	13.0/0.09	180.0	1.5	272 Btuh
	Wall Total		1327 (sqft)		2663 Btuh

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

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1850.0	1.7	3064 Btuh
	Ceiling Total		1850 (sqft)		3064 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	190 (ft(p))	0.0	0 Btuh
	Floor Total		190.0 (sqft)		0 Btuh

			Envelope Subtotal:		25781 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	13600	1327	181.3	2953 Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load
		6	X	230	+	2400	3780 Btuh

	Sensible Envelope Load:		32514 Btuh
Duct load		(DGM of 0.180)	5838 Btuh
	Sensible Load All Zones		**38352 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

1/10/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**32514 Btuh**
	Sensible Duct Load	5838 Btuh
	Total Sensible Zone Loads	**38352 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**38352 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5799 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1181 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8180 Btuh**
	TOTAL GAIN	**46532 Btuh**

EQUIPMENT

1. Central Unit	#	36000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/10/2008

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	75.0	0.0	75.0	29	80	5964 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	20.0	0.0	20.0	29	80	1590 Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	40.0	0.0	40.0	29	80	3181 Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	29	29	434 Btuh
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	29	80	2385 Btuh
6	2, Clear, 0.87, None,N,N	E	9.5ft	10ft.	13.3	9.1	4.2	29	80	600 Btuh
7	2, Clear, 0.87, None,N,N	E	5.5ft	10ft.	30.0	0.0	30.0	29	80	2385 Btuh
8	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	16.0	16.0	0.0	29	34	463 Btuh
9	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	20.0	20.0	0.0	29	34	579 Btuh
	Window Total				259 (sqft)					17583 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1146.7	2.1	2392 Btuh
2	Frame - Wood - Adj	13.0/0.09	180.0	1.5	272 Btuh
	Wall Total		1327 (sqft)		2663 Btuh

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

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1850.0	1.7	3064 Btuh
	Ceiling Total		1850 (sqft)		3064 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	190 (ft(p))	0.0	0 Btuh
	Floor Total		190.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		23702 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	13600	1327	158.7	2953 Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load
		6	X	230	+	2400	3780 Btuh

	Sensible Envelope Load:		30435 Btuh

Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.180)	5465 Btuh
		Sensible Zone Load	**35900 Btuh**

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

Windows	July excursion for System 1	2079 Btuh
	Excursion Subtotal:	2079 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

1/10/2008

Duct load		373 Btuh
	Sensible Excursion Load	**2452 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

Code Only
Professional Version
Climate: North

1/10/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**32514 Btuh**
	Sensible Duct Load	5838 Btuh
	Total Sensible Zone Loads	**38352 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**38352 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	5799 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1181 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8180 Btuh**
	TOTAL GAIN	**46532 Btuh**

EQUIPMENT

1. Central Unit	#	36000 Btuh

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

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Lake City, FL 32025-

Project Title:
Compass Builders - Kailee

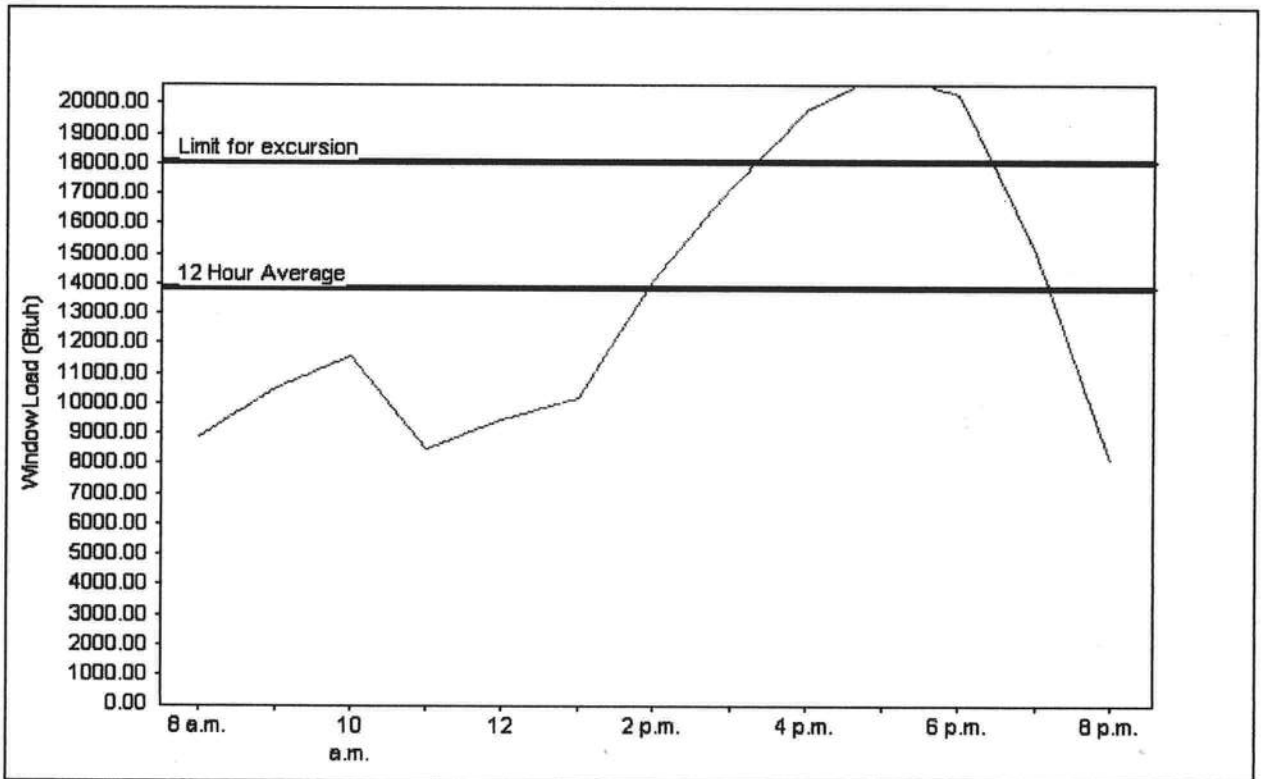
Code Only
Professional Version
Climate: North

1/10/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	13873 Btu
Summer setpoint	75 F	Peak window load for July	20990 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	18035 Btu
Latitude	29 North	Window excursion (July)	2955 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: 1/10/08

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Jeld-Wen	Exterior Swinging door	FL-498-R1
B. SLIDING			
C. SECTIONAL/ROLL UP	Raynor	Raynor	FL-4867
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI-Products	Single Hung Window	FL-5108
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	James Hardie	Hardi Plank Siding	FL-889-R1
B. SOFFITS	Kaycan	Aluminum Soffit	FL-4957
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Elk Roofing	Asphalt shingles	FL-586-R2
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	Simpson Strong Tie	Truss Straps	FL-474-R1
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

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) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Jeff Reid
APPLICANT SIGNATURE

1/10/08
DATE

R-1305 01-04

COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 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 1609 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 106.1). 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** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures 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 identified.
☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ d) Show safety glazing of glass, where required by code.
☐ ☐ e) Identify egress windows in bedrooms, and size.
☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☐ ☐ h) 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 106.1.1.2)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 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

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 shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) 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)

☑ ☐ 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) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) 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)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. 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

☑ ☐ 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

☑ ☐ h) Exhaust fans in bathroom

HVAC information

☑ ☐ a) Energy Calculations (dimensions shall match plans)

☑ ☐ b) Manual J sizing equipment or equivalent computation

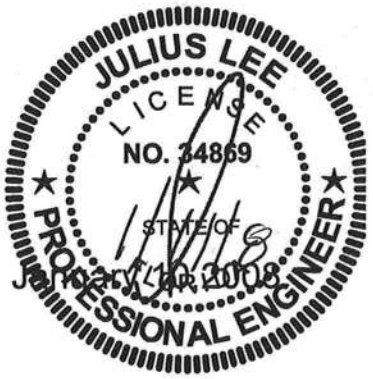
☑ ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☑ ☐ **Disclosure Statement for Owner Builders**

☑ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done**

☑ ☐ **Private Potable Water**

Builders FirstSource



Project Information for: **L265564**

Builder: Compass Builders
Lot : 54-1
Subdivision: Rolling Meadows
County: Baker
Truss Count: 47
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): N/A Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for the Structural Engineering:

Jacob C. Kirsch Florida License No. CBC1253775
Address: 196 Southwest Huntsview Way Lake City, Florida 32024

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

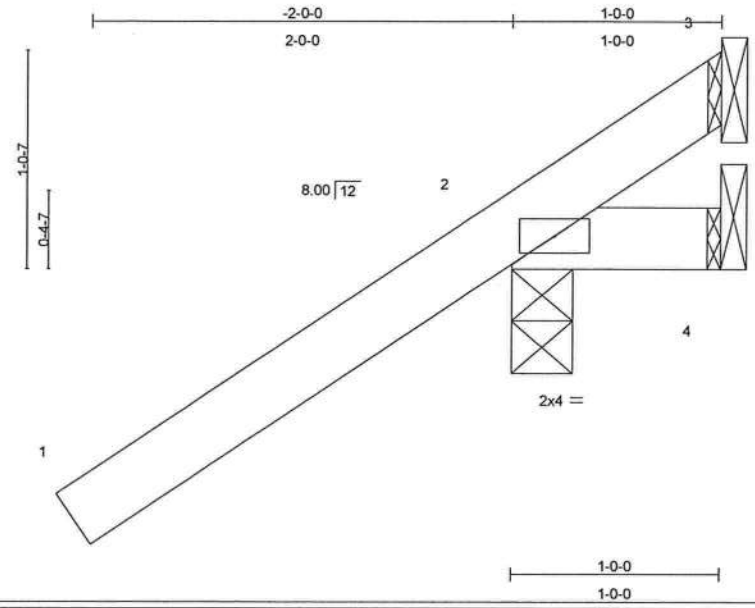
Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date	No.	Drwg. #	Truss ID	Date
1	J1925148	CJ01	1/10/08	29	J1925176	T20	1/10/08
2	J1925149	CJ02	1/10/08	30	J1925177	T21	1/10/08
3	J1925150	CJ03	1/10/08	31	J1925178	T22G	1/10/08
4	J1925151	EJ01	1/10/08	32	J1925179	T23G	1/10/08
5	J1925152	EJ02	1/10/08	33	J1925180	T24	1/10/08
6	J1925153	HJ01	1/10/08	34	J1925181	T25	1/10/08
7	J1925154	P01	1/10/08	35	J1925182	T26	1/10/08
8	J1925155	P02	1/10/08	36	J1925183	T27	1/10/08
9	J1925156	P03	1/10/08	37	J1925184	T28	1/10/08
10	J1925157	T01G	1/10/08	38	J1925185	T30	1/10/08
11	J1925158	T02G	1/10/08	39	J1925186	T31	1/10/08
12	J1925159	T03	1/10/08	40	J1925187	T32	1/10/08
13	J1925160	T04	1/10/08	41	J1925188	T33	1/10/08
14	J1925161	T05	1/10/08	42	J1925189	T34	1/10/08
15	J1925162	T06	1/10/08	43	J1925190	T35	1/10/08
16	J1925163	T07	1/10/08	44	J1925191	T36	1/10/08
17	J1925164	T08G	1/10/08	45	J1925192	T37	1/10/08
18	J1925165	T09	1/10/08	46	J1925193	T38	1/10/08
19	J1925166	T10	1/10/08	47	J1925194	T39	1/10/08
20	J1925167	T11	1/10/08				
21	J1925168	T12	1/10/08				
22	J1925169	T13	1/10/08				
23	J1925170	T14	1/10/08				
24	J1925171	T15	1/10/08				
25	J1925172	T16	1/10/08				
26	J1925173	T17	1/10/08				
27	J1925174	T18	1/10/08				
28	J1925175	T19G	1/10/08				

Job	Truss	Truss Type	Qty	Ply	0 0 J1925148
	CJ01	JACK	2	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:29:59 2008 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	0.31	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 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=270/0-3-8, 4=5/Mechanical, 3=-100/Mechanical
Max Horz 2=119(load case 6)
Max Uplift 2=-312(load case 6), 3=-100(load case 1)
Max Grav 2=270(load case 1), 4=14(load case 2), 3=161(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-3=-90/111
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.32

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 2 and 100 lb uplift at joint 3.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1300 Gemstel Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925148
	CJ01	JACK	2	1	Job Reference (optional)

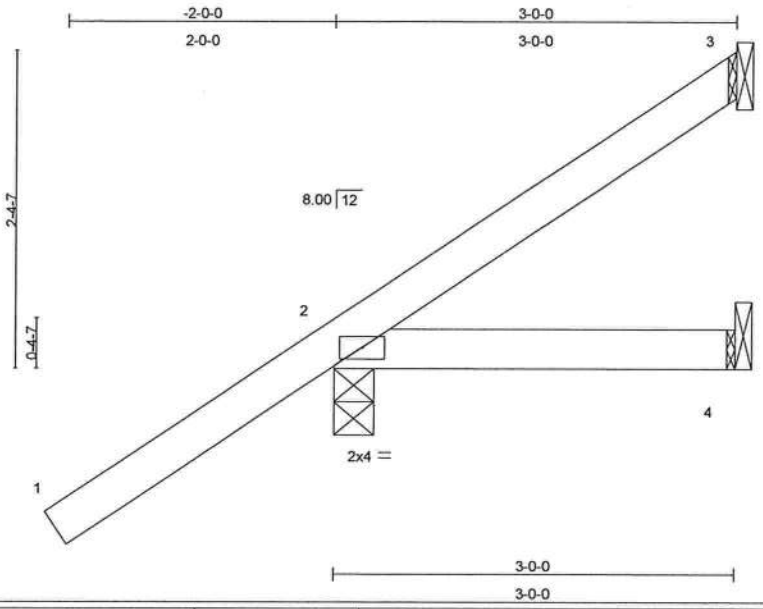
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925149
	CJ02	JACK	2	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:29:59 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 lb	

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

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

REACTIONS (lb/size) 3=27/Mechanical, 2=258/0-3-8, 4=14/Mechanical
Max Horz 2=179(load case 6)
Max Uplift 3=-33(load case 7), 2=-207(load case 6)
Max Grav 3=34(load case 4), 2=258(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-72/19
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.27

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 207 lb uplift at joint 2.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925149
	CJ02	JACK	2	1	Job Reference (optional)

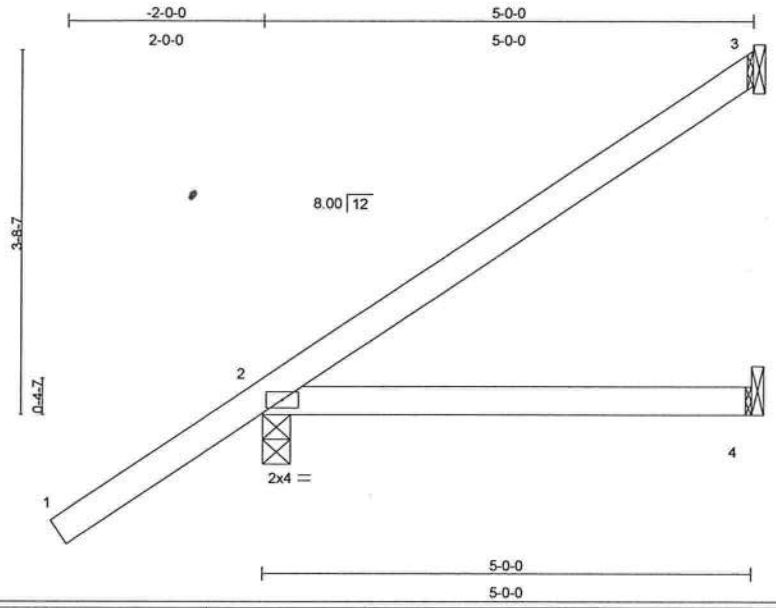
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925150
	CJ03	JACK	2	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:00 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

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

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

REACTIONS (lb/size) 3=101/Mechanical, 2=302/0-3-8, 4=24/Mechanical
Max Horz 2=240(load case 6)
Max Uplift 3=-103(load case 6), 2=-188(load case 6)
Max Grav 3=101(load case 1), 2=302(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-90/43
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.30

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 3 and 188 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925150
	CJ03	JACK	2	1	Job Reference (optional)

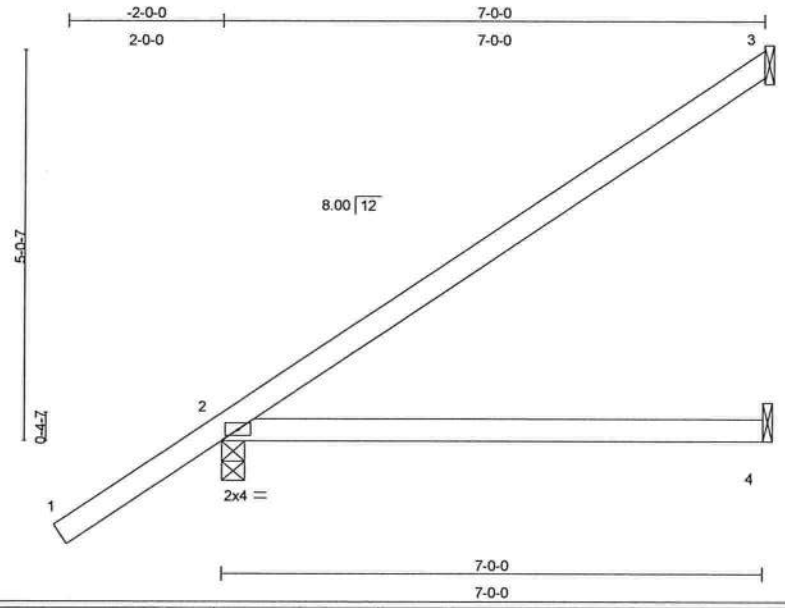
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE# No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925151
	EJ01	MONO TRUSS	3	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:01 2008 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.11	2-4	>730	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.20	2-4	>417	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

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

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

REACTIONS (lb/size) 3=164/Mechanical, 2=357/0-3-8, 4=34/Mechanical
Max Horz 2=218(load case 6)
Max Uplift 3=-110(load case 6), 2=-124(load case 6)
Max Grav 3=164(load case 1), 2=357(load case 1), 4=102(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-138/72
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 3 and 124 lb uplift at joint 2.

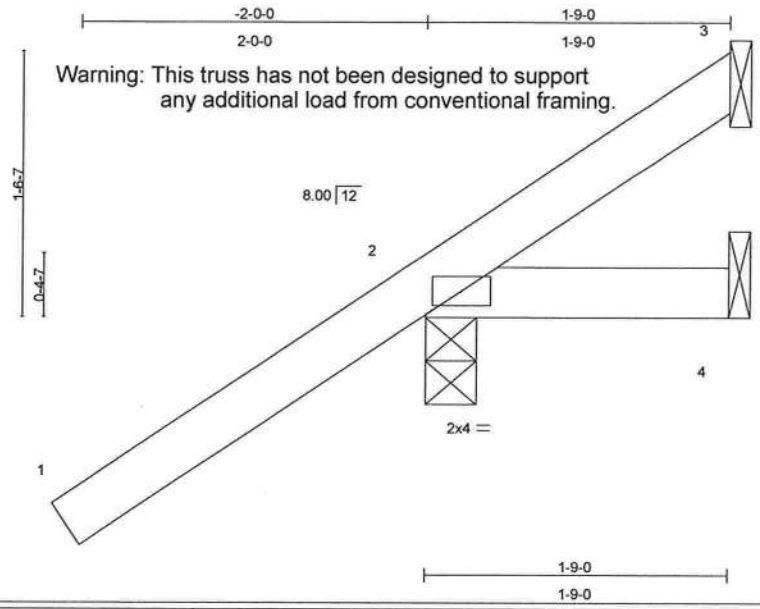
Julius Lee
Truss Design Engineer
Florida PE# No. 34183
1105 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	0 0 J1925152
	EJ02	MONO TRUSS	4	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:01 2008 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	0.30	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	2	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 10 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=239/0-3-8, 4=9/Mechanical, 3=-24/Mechanical
Max Horz 2=142(load case 6)
Max Uplift 2=-233(load case 6), 3=-24(load case 1)
Max Grav 2=239(load case 1), 4=26(load case 2), 3=55(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-3=-67/37
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.27

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2 and 24 lb uplift at joint 3.

Continued on page 2

Julius Lam
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925152
	EJ02	MONO TRUSS	4	1	Job Reference (optional)

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925153
	HJ01	MONO TRUSS	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:02 2008 Page 1

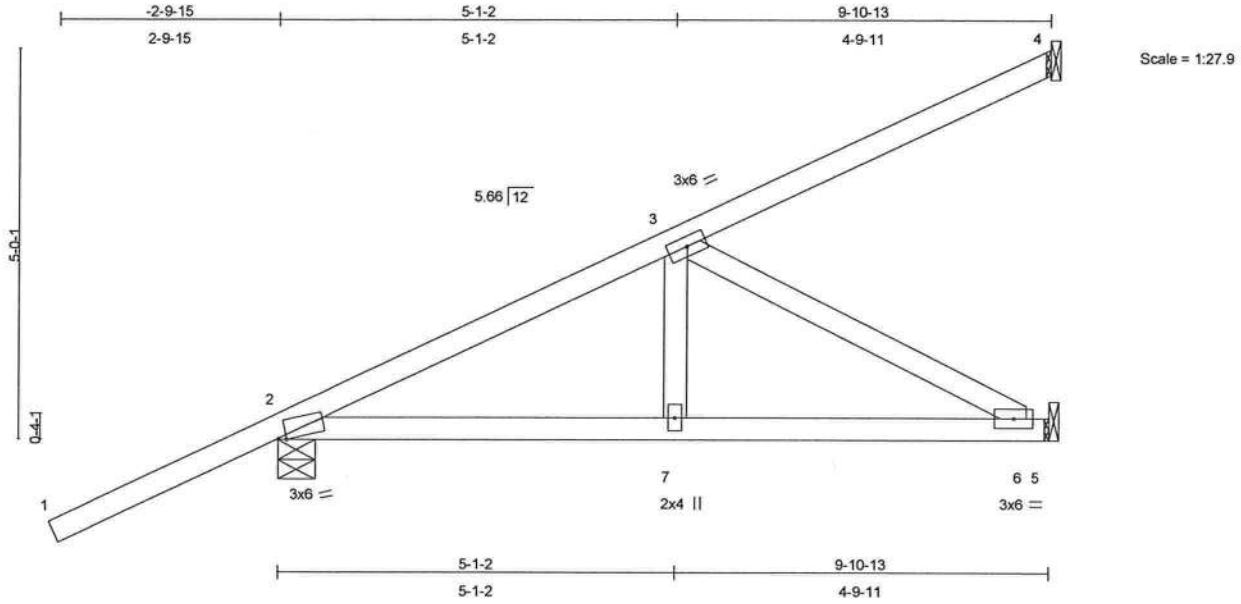


Plate Offsets (X,Y): [2:0-1-4,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.04	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.06	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.22	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
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=234/Mechanical, 2=460/0-5-11, 5=251/Mechanical
Max Horz 2=367(load case 5)
Max Uplift 4=-238(load case 5), 2=-242(load case 5), 5=-109(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-3=-466/0, 3-4=-134/73
BOT CHORD 2-7=-243/394, 6-7=-243/394, 5-6=0/0
WEBS 3-6=-447/276, 3-7=0/186

JOINT STRESS INDEX
2 = 0.85, 3 = 0.13, 6 = 0.12 and 7 = 0.13

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 4, 242 lb uplift at joint 2 and 109 lb uplift at joint 5.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

NOTES

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

LOAD CASE(S) Standard

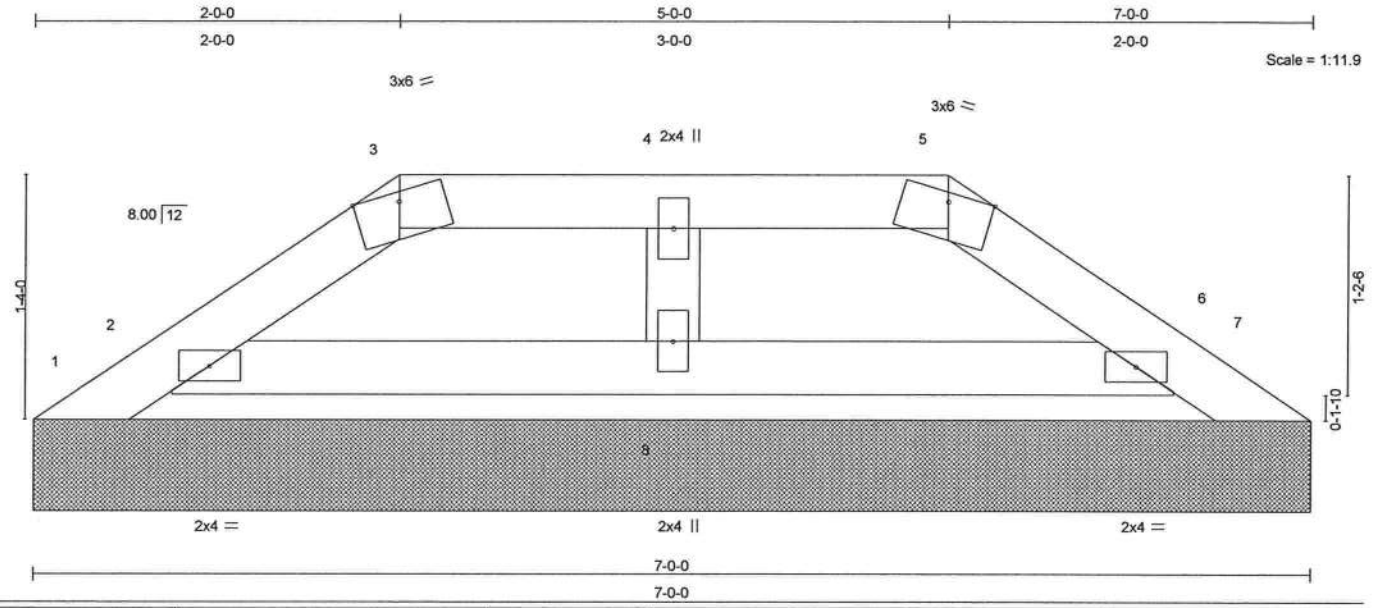
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-3(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925154
	P01	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:03 2008 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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 21 lb	

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

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

REACTIONS (lb/size) 1=-9/7-0-0, 7=-9/7-0-0, 2=146/7-0-0, 6=146/7-0-0, 8=142/7-0-0
Max Horz 1=-33(load case 4)
Max Uplift 1=-42(load case 4), 7=-32(load case 11), 2=-90(load case 5), 6=-71(load case 4), 8=-37(load case 5)
Max Grav 1=53(load case 5), 7=33(load case 4), 2=170(load case 10), 6=170(load case 11), 8=142(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-54/53, 2-3=-111/91, 3-4=-69/89, 4-5=-69/89, 5-6=-111/91, 6-7=-16/32
BOT CHORD 2-8=-29/69, 6-8=-29/69
WEBS 4-8=-108/124

JOINT STRESS INDEX
2 = 0.18, 3 = 0.03, 4 = 0.07, 5 = 0.03, 6 = 0.18 and 8 = 0.07

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 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"

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925154
	P01	GABLE	1	1	Job Reference (optional)

NOTES

4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 32 lb uplift at joint 7, 90 lb uplift at joint 2, 71 lb uplift at joint 6 and 37 lb uplift at joint 8.
10) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

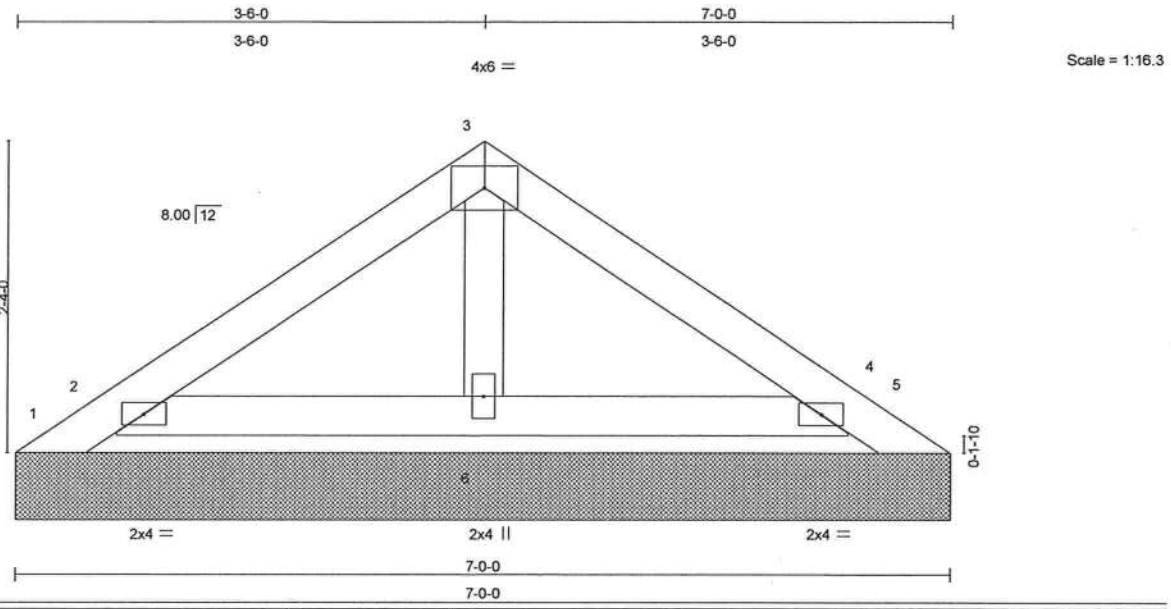
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925155
	P02	GABLE	3	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:03 2008 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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

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

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

REACTIONS (lb/size) 1=-72/7-0-0, 5=-72/7-0-0, 2=214/7-0-0, 4=214/7-0-0, 6=131/7-0-0
Max Horz 1=60(load case 5)
Max Uplift 1=-72(load case 1), 5=-72(load case 1), 2=-118(load case 6), 4=-108(load case 7)
Max Grav 1=78(load case 5), 5=56(load case 7), 2=214(load case 1), 4=214(load case 1), 6=131(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-90/79, 2-3=-68/46, 3-4=-68/46, 4-5=-46/51
BOT CHORD 2-6=-11/37, 4-6=-11/37
WEBS 3-6=-97/43

JOINT STRESS INDEX
2 = 0.22, 3 = 0.02, 4 = 0.22 and 6 = 0.03

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 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"

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925155
	P02	GABLE	3	1	Job Reference (optional)

NOTES

4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 1, 72 lb uplift at joint 5, 118 lb uplift at joint 2 and 108 lb uplift at joint 4.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

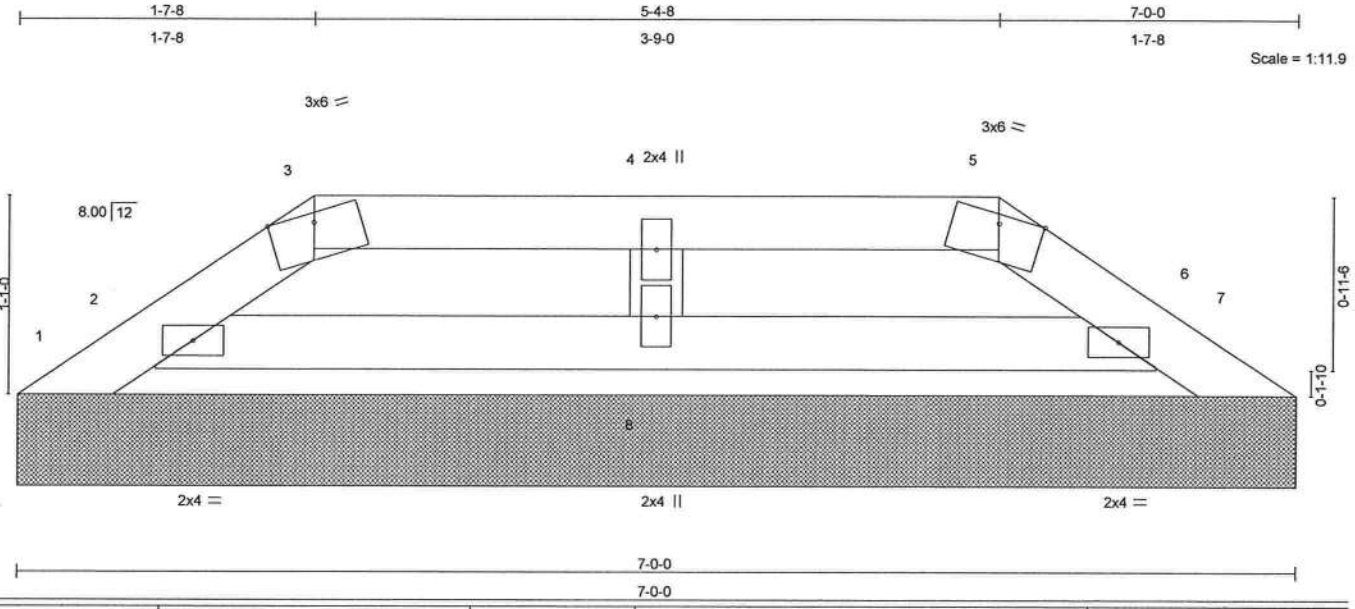
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925156
	P03	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:04 2008 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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	7	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
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 1=-6/7-0-0, 7=-6/7-0-0, 2=132/7-0-0, 6=132/7-0-0, 8=164/7-0-0
Max Horz 1=-26(load case 4)
Max Uplift 1=-22(load case 4), 7=-16(load case 11), 2=-69(load case 5), 6=-52(load case 4), 8=-49(load case 5)
Max Grav 1=34(load case 5), 7=17(load case 4), 2=143(load case 10), 6=143(load case 11), 8=164(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-39/37, 2-3=-100/90, 3-4=-62/81, 4-5=-62/81, 5-6=-100/90, 6-7=-8/24
BOT CHORD 2-8=-34/62, 6-8=-34/62
WEBS 4-8=-129/151

JOINT STRESS INDEX
2 = 0.15, 3 = 0.03, 4 = 0.08, 5 = 0.03, 6 = 0.15 and 8 = 0.08

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 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"

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1405 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925156
	P03	GABLE	1	1	Job Reference (optional)

NOTES

4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 16 lb uplift at joint 7, 69 lb uplift at joint 2, 52 lb uplift at joint 6 and 49 lb uplift at joint 8.
10) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1309 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925157
	T01G	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:05 2008 Page 1

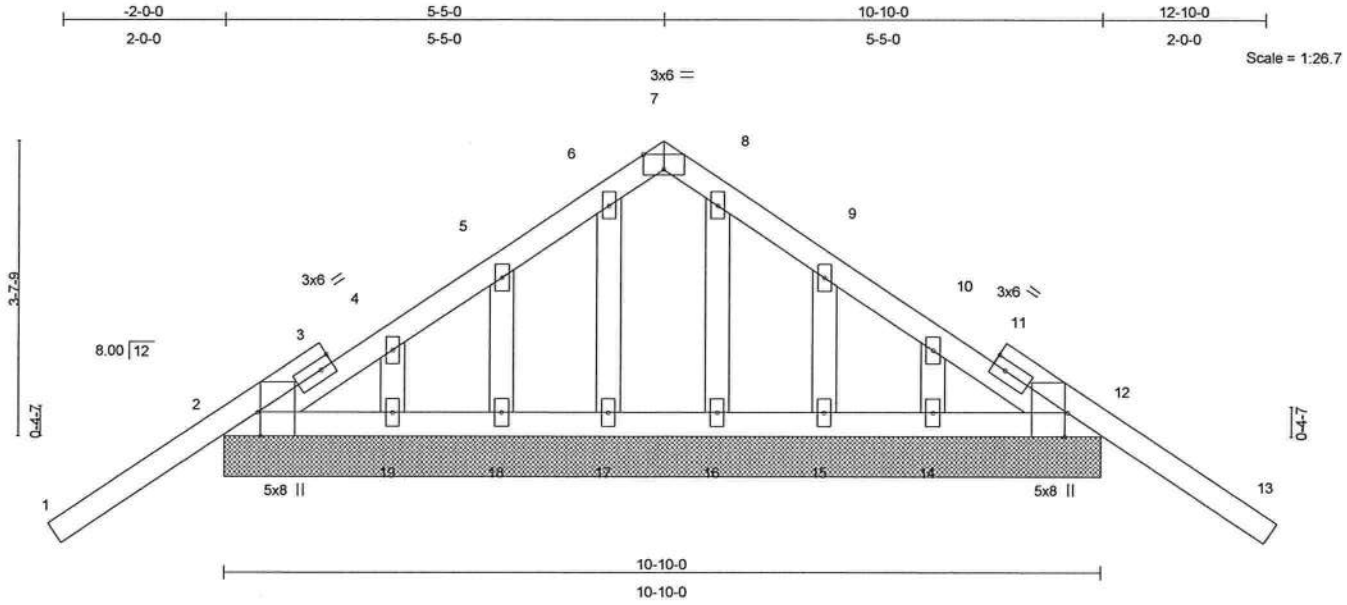


Plate Offsets (X,Y): [2:0-3-8,Edge], [7:0-3-0,Edge], [12:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.03	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.04	13	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.03	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 62 lb	

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

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

REACTIONS (lb/size) 2=243/10-10-0, 12=243/10-10-0, 17=73/10-10-0, 18=99/10-10-0, 19=44/10-10-0, 16=73/10-10-0, 15=99/10-10-0, 14=44/10-10-0
Max Horz 2=-122(load case 4)
Max Uplift 2=-221(load case 6), 12=-235(load case 7), 17=-18(load case 5), 18=-111(load case 6), 19=-16(load case 7), 15=-114(load case 7), 14=-12(load case 6)
Max Grav 2=243(load case 1), 12=243(load case 1), 17=73(load case 1), 18=101(load case 10), 19=68(load case 2), 16=73(load case 1), 15=101(load case 11), 14=68(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-3=-74/74, 3-4=-67/84, 4-5=-51/70, 5-6=-37/106, 6-7=-31/100, 7-8=-31/100, 8-9=-37/106, 9-10=-29/39, 10-11=-29/45, 11-12=-56/35, 12-13=0/61
BOT CHORD 2-19=-6/132, 18-19=-6/132, 17-18=-6/132, 16-17=-6/132, 15-16=-6/132, 14-15=-6/132, 12-14=-6/132
WEBS 6-17=-61/27, 5-18=-82/110, 4-19=-43/36, 8-16=-61/1, 9-15=-82/110, 10-14=-43/31

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

JOINT STRESS INDEX
2 = 0.46, 3 = 0.00, 3 = 0.16, 4 = 0.02, 5 = 0.06, 6 = 0.03, 7 = 0.12, 8 = 0.03, 9 = 0.06, 10 = 0.02, 11 = 0.00, 11 = 0.16, 12 = 0.46, 14 = 0.02, 15 = 0.06, 16 = 0.02, 17 = 0.02, 18 = 0.06 and 19 = 0.02

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925157
	T01G	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2, 235 lb uplift at joint 12, 18 lb uplift at joint 17, 111 lb uplift at joint 18, 16 lb uplift at joint 19, 114 lb uplift at joint 15 and 12 lb uplift at joint 14.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925158
	T02G	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jan 10 17:36:20 2008 Page 1

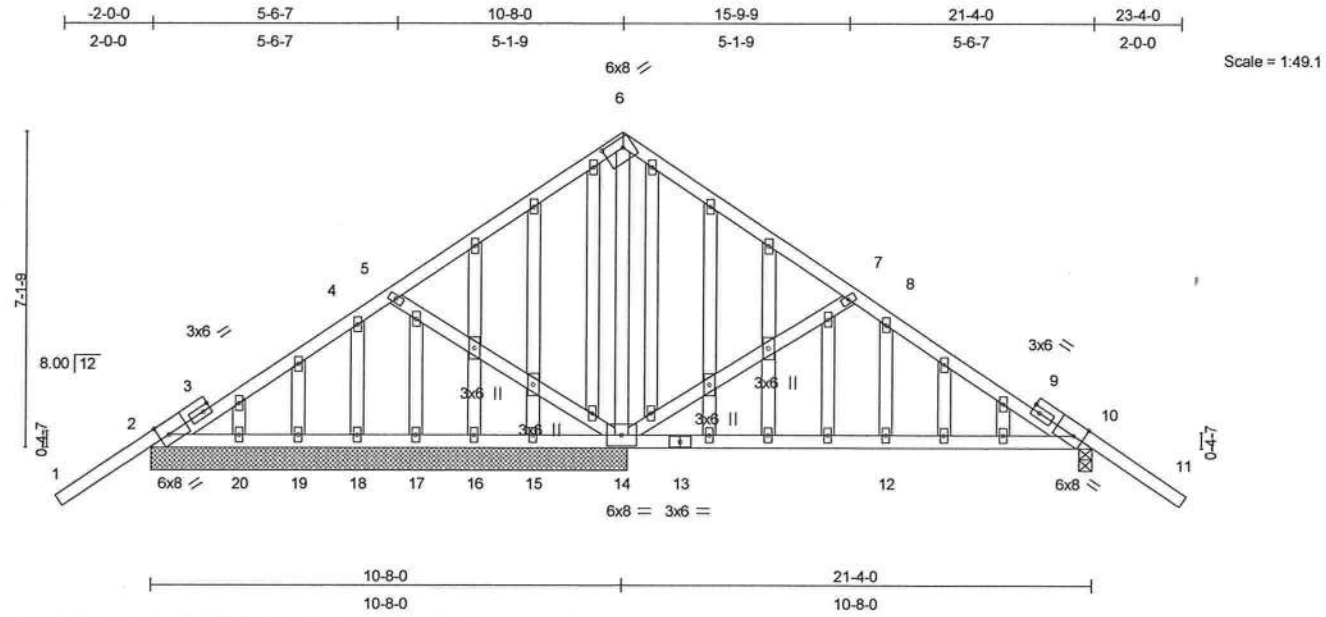


Plate Offsets (X,Y): [2:0-2-9,Edge], [6:0-5-4,0-2-8], [10:0-2-9,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	0.07	12-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	0.06	12-14	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.74	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 175 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 2=567/10-9-8, 14=1392/10-9-8, 15=-4/10-9-8, 16=21/10-9-8, 17=9/10-9-8, 18=293/10-9-8, 19=-16/10-9-8, 20=86/10-9-8, 10=462/0-3-8
Max Horz 2=-243(load case 4)
Max Uplift 2=-387(load case 6), 14=-1071(load case 7), 15=-17(load case 2), 16=-16(load case 5), 18=-204(load case 7), 19=-17(load case 10), 20=-52(load case 7), 10=-445(load case 7)
Max Grav 2=599(load case 10), 14=1392(load case 1), 15=69(load case 5), 16=64(load case 2), 17=32(load case 2), 18=293(load case 1), 19=32(load case 7), 20=90(load case 10), 10=485(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-79/128, 2-3=-323/172, 3-4=-208/106, 4-5=-220/162, 5-6=-237/347, 6-7=-275/378, 7-8=-319/353, 8-9=-378/503, 9-10=-476/474, 10-11=0/62
BOT CHORD	2-20=-177/188, 19-20=-177/188, 18-19=-177/188, 17-18=-177/188, 16-17=-177/188, 15-16=-177/188, 14-15=-177/188, 13-14=-258/356, 12-13=-258/356, 10-12=-258/356
WEBS	5-14=-312/401, 6-14=-900/860, 7-14=-547/783, 4-18=-272/235, 8-12=-275/173

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

JOINT STRESS INDEX

2 = 0.70, 3 = 0.00, 3 = 0.45, 4 = 0.34, 5 = 0.42, 6 = 0.94, 7 = 0.42, 8 = 0.34, 9 = 0.00, 9 = 0.45, 10 = 0.70, 12 = 0.34, 13 = 0.15, 14 = 0.25, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34, 22 = 0.34, 23 = 0.61, 24 = 0.34, 25 = 0.61, 26 = 0.34, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 31 = 0.34, 32 = 0.34, 33 = 0.34, 34 = 0.61, 35 = 0.34, 36 = 0.34, 37 = 0.61, 38 = 0.34, 39 = 0.34, 40 = 0.34, 41 = 0.34, 42 = 0.34 and 43 = 0.34

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925158
	T02G	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 2, 1071 lb uplift at joint 14 , 17 lb uplift at joint 15, 16 lb uplift at joint 16, 204 lb uplift at joint 18, 17 lb uplift at joint 19, 52 lb uplift at joint 20 and 445 lb uplift at joint 10.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-114(F=-60), 6-7=-141(F=-87), 7-11=-54, 2-10=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925159
	T03	COMMON	9	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:08 2008 Page 1

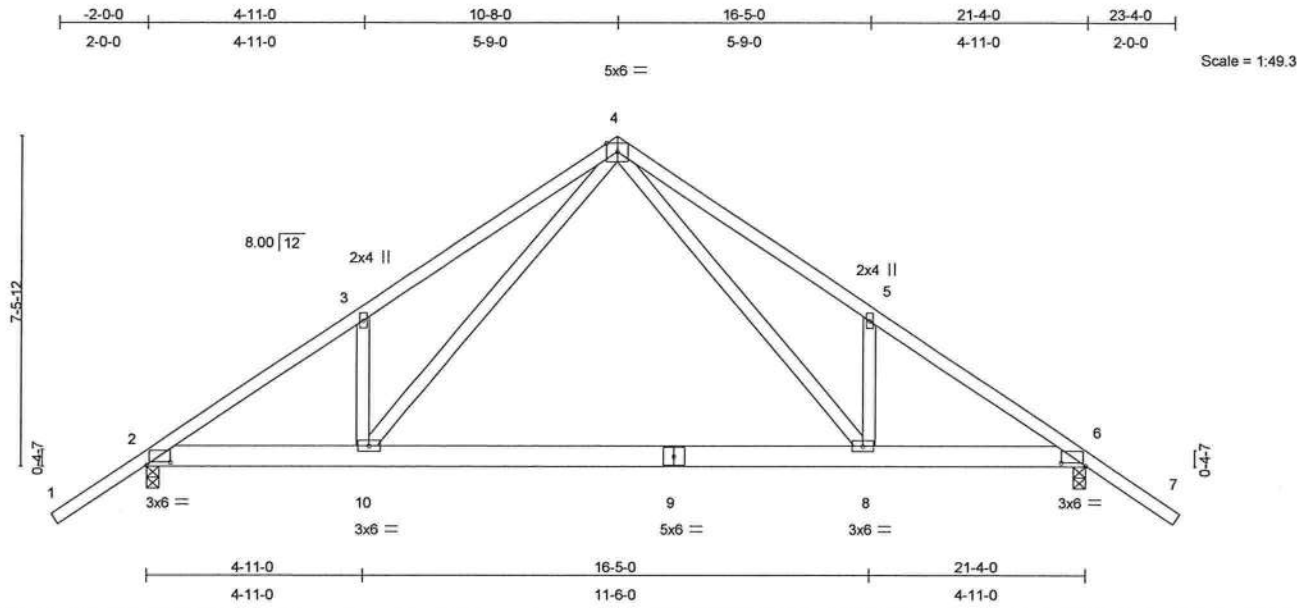


Plate Offsets (X,Y): [2:0-6-11,0-0-14], [6:0-6-11,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	0.25	8-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.48	8-10	>528	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.71	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1139/0-3-8, 6=1139/0-3-8
Max Horz 2=-194(load case 4)
Max Uplift 2=-336(load case 6), 6=-336(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/65, 2-3=-1810/731, 3-4=-1793/903, 4-5=-1793/903, 5-6=-1810/731, 6-7=0/65
BOT CHORD 2-10=-427/1429, 9-10=-116/797, 8-9=-116/797, 6-8=-427/1429
WEBS 3-10=-252/259, 4-10=-493/1023, 4-8=-493/1023, 5-8=-252/259

JOINT STRESS INDEX
2 = 0.78, 3 = 0.33, 4 = 0.50, 5 = 0.33, 6 = 0.78, 8 = 0.69, 9 = 0.86 and 10 = 0.69

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925159
	T03	COMMON	9	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 2 and 336 lb uplift at joint 6.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 2-10=-10, 8-10=-70(F=-60), 6-8=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925160
	T04	COMMON	1	2	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:09 2008 Page 1

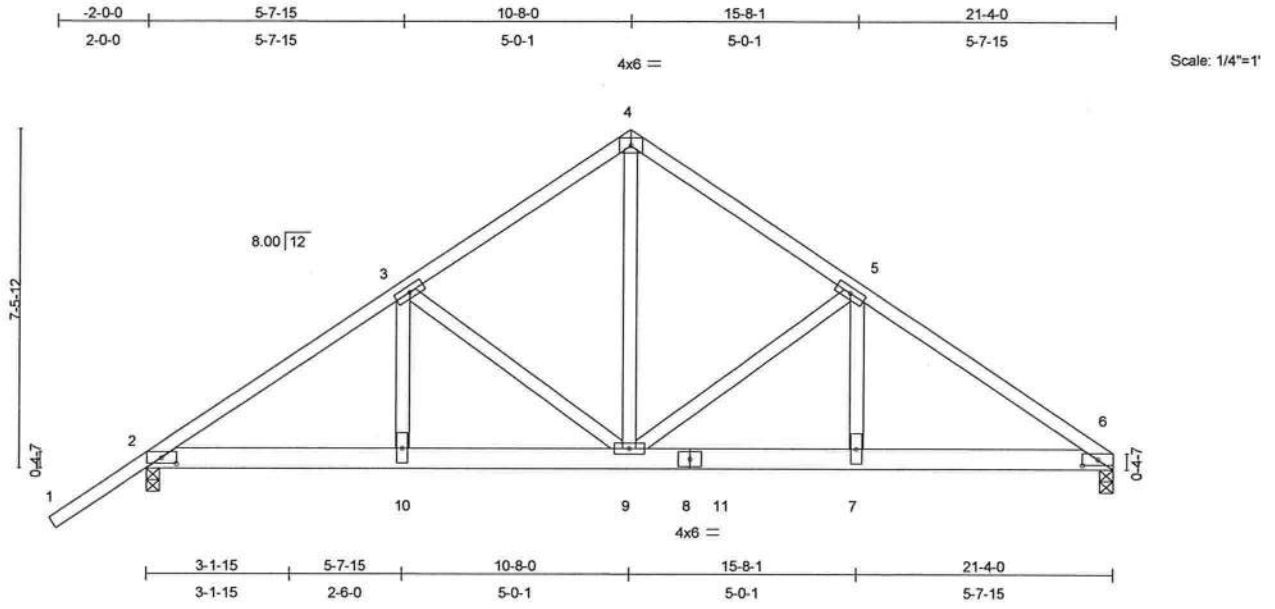


Plate Offsets (X,Y): [2:0-4-1,0-1-8], [6:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.08	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.15	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.45	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 259 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=3933/0-3-8, 2=1629/0-3-8
Max Horz 2=223(load case 4)
Max Uplift 6=-1103(load case 6), 2=-487(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/65, 2-3=-2424/606, 3-4=-2197/641, 4-5=-2202/633, 5-6=-4803/1329
BOT CHORD 2-10=-496/1935, 9-10=-496/1935, 8-9=-1036/3941, 8-11=-1036/3941, 7-11=-1036/3941, 6-7=-1036/3941
WEBS 3-10=-18/143, 3-9=-223/109, 4-9=-603/2090, 5-9=-2729/878, 5-7=-784/2784

JOINT STRESS INDEX
2 = 0.73, 3 = 0.81, 4 = 0.54, 5 = 0.81, 6 = 0.73, 7 = 0.44, 8 = 0.54, 9 = 0.64 and 10 = 0.44

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 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.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925160
	T04	COMMON	1	2	Job Reference (optional)

NOTES

3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 3x8 MT20 unless otherwise indicated.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1103 lb uplift at joint 6 and 487 lb uplift at joint 2.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-6=-54, 2-11=-10, 6-11=-491(F=-481)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925161
	T05	COMMON	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:10 2008 Page 1

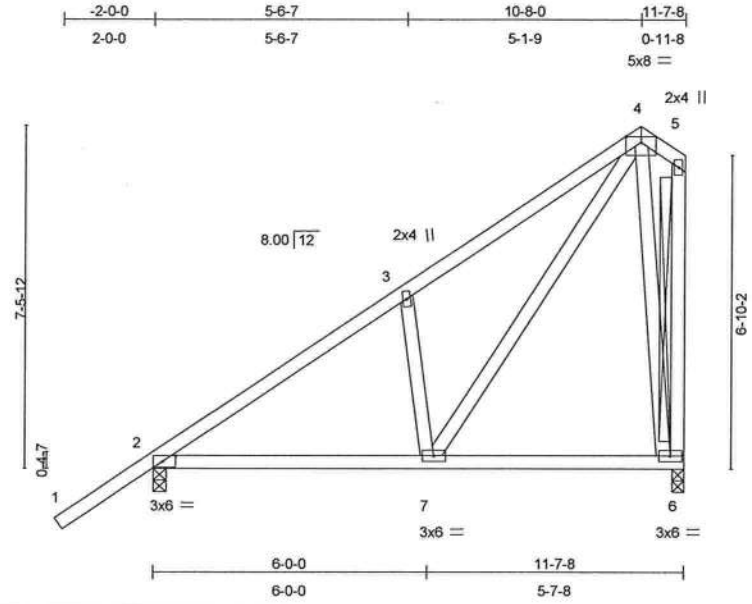


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.02	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.05	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 79 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*
5-6 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=495/0-3-8, 6=351/0-3-0
Max Horz 2=286(load case 6)
Max Uplift 2=-141(load case 6), 6=-144(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-439/27, 3-4=-392/176, 4-5=-47/54, 5-6=-88/79
BOT CHORD 2-7=-226/294, 6-7=-41/49
WEBS 3-7=-265/281, 4-7=-270/384, 4-6=-389/350

JOINT STRESS INDEX
2 = 0.41, 3 = 0.15, 4 = 0.27, 5 = 0.25, 6 = 0.23 and 7 = 0.27

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

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925161
	T05	COMMON	1	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 2 and 144 lb uplift at joint 6.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925162
	T06	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:10 2008 Page 1

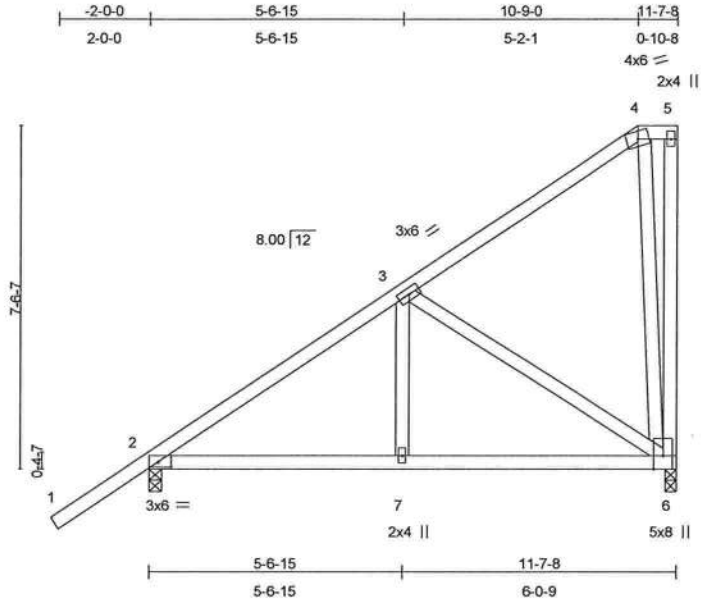


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.05	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 77 lb	

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

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

REACTIONS (lb/size) 6=351/0-3-0, 2=495/0-3-8
Max Horz 2=300(load case 6)
Max Uplift 6=-153(load case 6), 2=-133(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-443/0, 3-4=-116/39, 4-5=-8/3, 5-6=-113/87
BOT CHORD 2-7=-226/297, 6-7=-226/297
WEBS 3-7=0/193, 3-6=-319/235, 4-6=-240/275

JOINT STRESS INDEX
2 = 0.32, 3 = 0.14, 4 = 0.44, 5 = 0.21, 6 = 0.11 and 7 = 0.14

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1309 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925162
	T06	MONO HIP	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 6 and 133 lb uplift at joint 2.

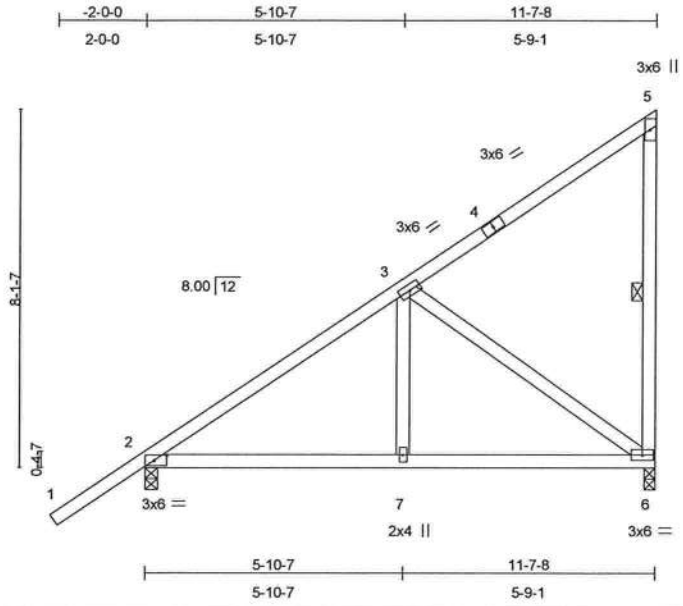
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925163
	T07	MONO TRUSS	8	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:11 2008 Page 1



Scale = 1:49.4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.02	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.04	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 68 lb	

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

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

REACTIONS (lb/size) 6=351/0-3-0, 2=495/0-3-8
Max Horz 2=315(load case 6)
Max Uplift 6=-171(load case 6), 2=-123(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-437/0, 3-4=-109/0, 4-5=-78/59, 5-6=-125/137
BOT CHORD 2-7=-225/291, 6-7=-225/291
WEBS 3-7=0/193, 3-6=-341/262

JOINT STRESS INDEX
2 = 0.36, 3 = 0.14, 4 = 0.24, 5 = 0.23, 6 = 0.18 and 7 = 0.14

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925163
	T07	MONO TRUSS	8	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 6 and 123 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925164
	T08G	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:12 2008 Page 1

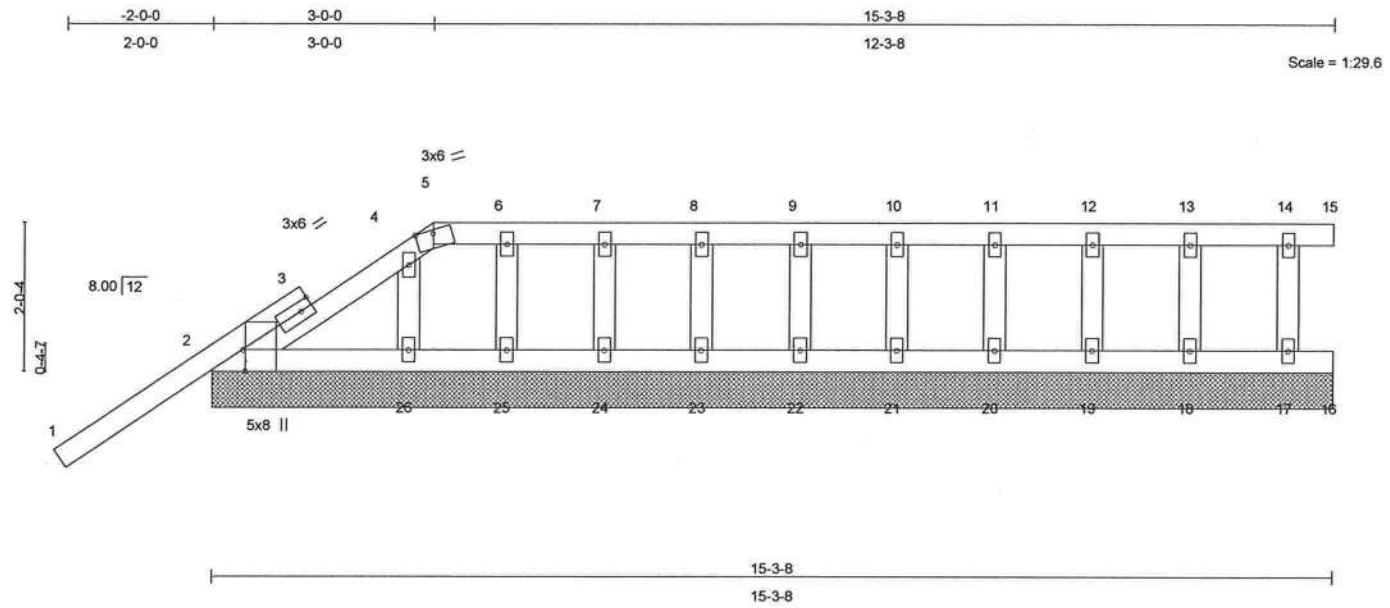


Plate Offsets (X,Y): [2:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	1	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.02	Horz(TL)	-0.00	15	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 73 lb	

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

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

REACTIONS (lb/size) 15=10/15-3-8, 2=239/15-3-8, 16=1/15-3-8, 26=85/15-3-8, 25=88/15-3-8, 24=85/15-3-8, 23=85/15-3-8, 22=85/15-3-8, 21=85/15-3-8, 20=85/15-3-8, 19=85/15-3-8, 18=89/15-3-8, 17=68/15-3-8
Max Horz 2=166(load case 6)
Max Uplift 15=-8(load case 4), 2=-209(load case 6), 26=-29(load case 7), 25=-74(load case 4), 24=-49(load case 4), 23=-54(load case 4), 22=-53(load case 4), 21=-53(load case 4), 20=-53(load case 4), 19=-53(load case 4), 18=-56(load case 4), 17=-41(load case 4)
Max Grav 15=10(load case 11), 2=239(load case 1), 16=4(load case 2), 26=94(load case 2), 25=88(load case 1), 24=86(load case 11), 23=85(load case 1), 22=85(load case 11), 21=85(load case 1), 20=85(load case 11), 19=85(load case 1), 18=89(load case 11), 17=68(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-3=-44/7, 3-4=-29/21, 4-5=-21/7, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0, 10-11=0/0, 11-12=0/0, 12-13=0/0, 13-14=0/0, 14-15=0/0
BOT CHORD 2-26=0/0, 25-26=0/0, 24-25=0/0, 23-24=0/0, 22-23=0/0, 21-22=0/0, 20-21=0/0, 19-20=0/0, 18-19=0/0, 17-18=0/0, 16-17=0/0
WEBS 4-26=-74/49, 6-25=-73/74, 7-24=-72/59, 8-23=-72/61, 9-22=-72/61, 10-21=-72/61, 11-20=-72/61, 12-19=-71/61, 13-18=-76/64, 14-17=-57/48

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925164
	T08G	GABLE	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.44, 3 = 0.00, 3 = 0.15, 4 = 0.04, 5 = 0.04, 6 = 0.04, 7 = 0.03, 8 = 0.03, 9 = 0.03, 10 = 0.03, 11 = 0.03, 12 = 0.03, 13 = 0.04, 14 = 0.03, 17 = 0.03, 18 = 0.04, 19 = 0.03, 20 = 0.03, 21 = 0.03, 22 = 0.03, 23 = 0.03, 24 = 0.03, 25 = 0.04 and 26 = 0.03

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; 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) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 1-4-0 oc.
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 15, 209 lb uplift at joint 2, 29 lb uplift at joint 26, 74 lb uplift at joint 25, 49 lb uplift at joint 24, 54 lb uplift at joint 23, 53 lb uplift at joint 22, 53 lb uplift at joint 21, 53 lb uplift at joint 20, 53 lb uplift at joint 19, 56 lb uplift at joint 18 and 41 lb uplift at joint 17.

LOAD CASE(S) Standard

Julius Lam
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925165
	T09	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:13 2008 Page 1

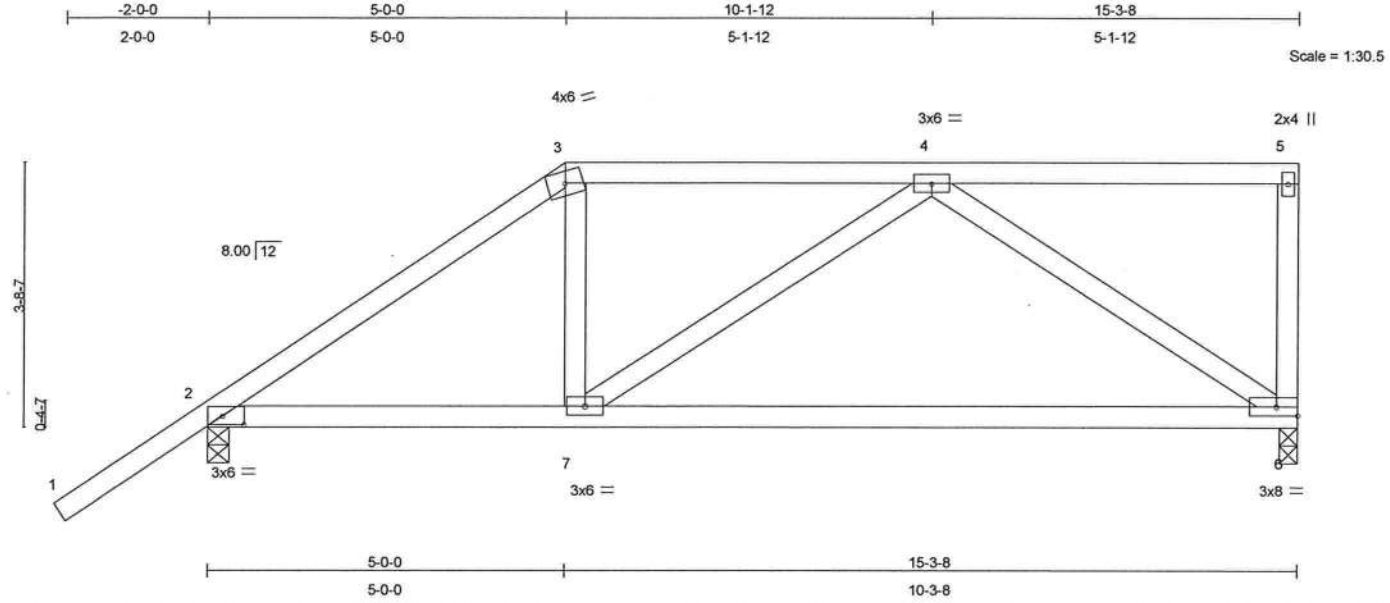


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.18	6-7	>989	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.32	6-7	>561	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 77 lb	

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

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

REACTIONS (lb/size) 6=471/0-3-0, 2=609/0-3-8
Max Horz 2=177(load case 6)
Max Uplift 6=-141(load case 4), 2=-184(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-667/251, 3-4=-487/263, 4-5=-79/4, 5-6=-127/93
BOT CHORD 2-7=-266/484, 6-7=-298/475
WEBS 3-7=0/193, 4-7=0/132, 4-6=-518/355

JOINT STRESS INDEX
2 = 0.43, 3 = 0.38, 4 = 0.16, 5 = 0.79, 6 = 0.62 and 7 = 0.12

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925165
	T09	MONO HIP	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 6 and 184 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925166
	T10	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:13 2008 Page 1

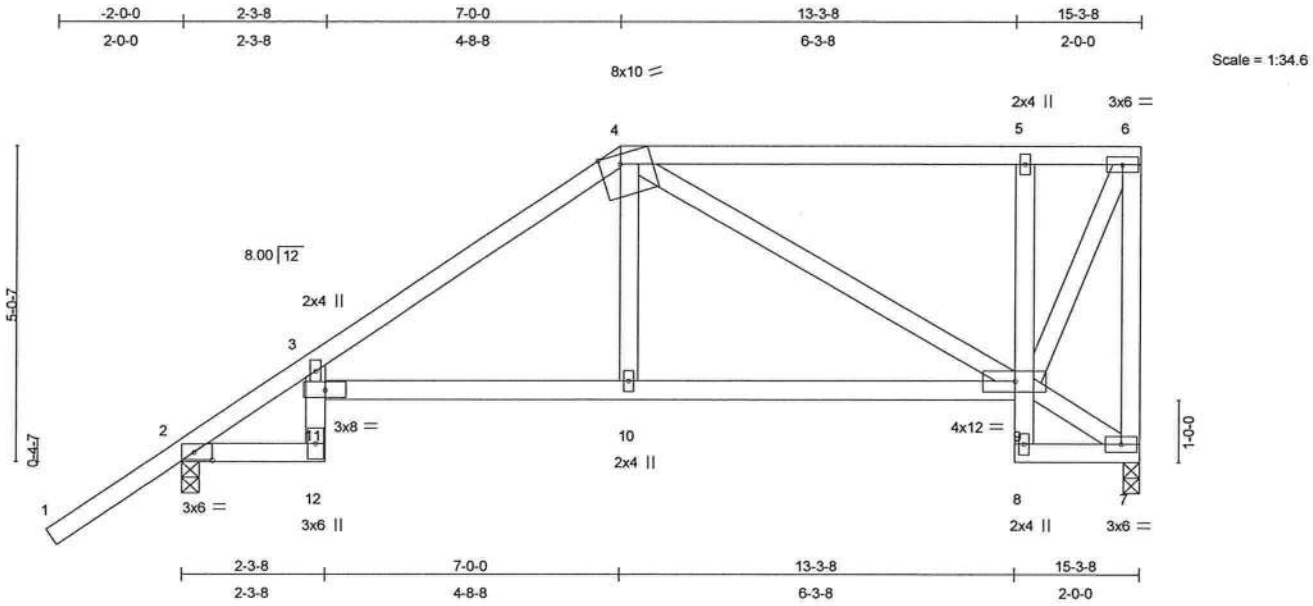


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [4:0-4-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.19	10-11	>950	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.27	10-11	>675	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.14	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 90 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
5-8 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 7=471/0-3-0, 2=609/0-3-8
Max Horz 2=220(load case 6)
Max Uplift 7=-132(load case 5), 2=-186(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-661/162, 3-4=-672/313, 4-5=-226/130, 5-6=-203/118, 6-7=-437/251
BOT CHORD 2-12=-247/437, 11-12=-12/84, 3-11=-2/91, 10-11=-348/548, 9-10=-348/554, 8-9=0/19, 5-9=-254/198, 7-8=-59/44
WEBS 4-10=-25/252, 4-9=-380/253, 6-9=-283/484, 7-9=-48/68

JOINT STRESS INDEX
2 = 0.53, 3 = 0.72, 4 = 0.68, 5 = 0.53, 6 = 0.42, 7 = 0.14, 8 = 0.09, 9 = 0.56, 10 = 0.18, 11 = 0.83 and 12 = 0.36

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925166
	T10	SPECIAL	1	1	Job Reference (optional)

NOTES

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 7 and 186 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925167
	T11	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:14 2008 Page 1

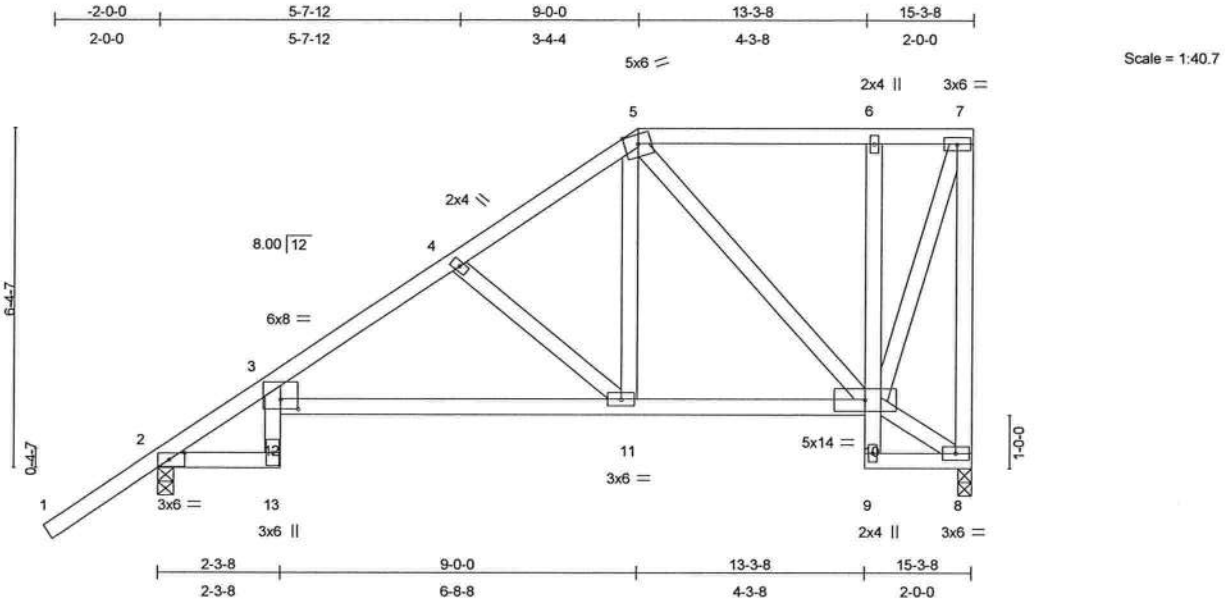


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-4-0,0-2-3]

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	11-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.28	11-12	>647	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.13	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 104 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 6-9 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-8 oc bracing.

REACTIONS (lb/size) 8=471/0-3-0, 2=609/0-3-8
Max Horz 2=263(load case 6)
Max Uplift 8=-133(load case 5), 2=-182(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-648/113, 3-4=-699/298, 4-5=-514/245, 5-6=-152/95, 6-7=-142/89, 7-8=-433/276
BOT CHORD 2-13=-258/417, 12-13=-14/90, 3-12=0/156, 11-12=-427/595, 10-11=-237/362, 9-10=0/24, 6-10=-200/150, 8-9=-38/50
WEBS 4-11=-291/239, 5-11=-152/347, 5-10=-319/216, 7-10=-276/437, 8-10=-55/42

JOINT STRESS INDEX
2 = 0.47, 3 = 0.82, 4 = 0.13, 5 = 0.20, 6 = 0.30, 7 = 0.41, 8 = 0.14, 9 = 0.09, 10 = 0.35, 11 = 0.22, 12 = 0.00 and 13 = 0.37

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.

julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925167
	T11	SPECIAL	1	1	Job Reference (optional)

NOTES

3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 8 and 182 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Crandel Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925168
	T12	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:15 2008 Page 1

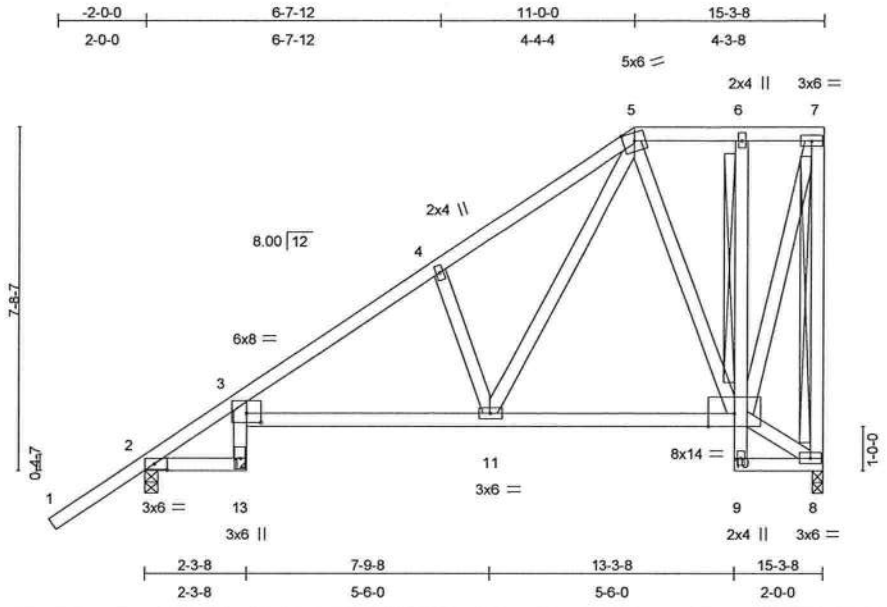


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-4-0,0-2-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	0.21	11-12	>851	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.67	Vert(TL)	-0.29	11-12	>616	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.14	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 113 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 6-9 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 6-10
WEBS T-Brace: 2 X 4 SYP No.3 - 7-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 8=471/0-3-0, 2=609/0-3-8
Max Horz 2=305(load case 6)
Max Uplift 8=-139(load case 6), 2=-171(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62, 2-3=-657/68, 3-4=-661/225, 4-5=-619/317, 5-6=-110/69, 6-7=-107/69, 7-8=-438/289
BOT CHORD 2-13=-283/431, 12-13=-14/86, 3-12=0/115, 11-12=-403/545, 10-11=-165/225, 9-10=0/20, 6-10=-97/69, 8-9=-47/36
WEBS 4-11=-308/283, 5-11=-324/488, 5-10=-323/267, 7-10=-259/401, 8-10=-38/52

Julius Lam
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

JOINT STRESS INDEX

2 = 0.48, 3 = 0.94, 4 = 0.15, 5 = 0.26, 6 = 0.12, 7 = 0.39, 8 = 0.15, 9 = 0.06, 10 = 0.12, 11 = 0.39, 12 = 0.00 and 13 = 0.36

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925168
	T12	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 8 and 171 lb uplift at joint 2.

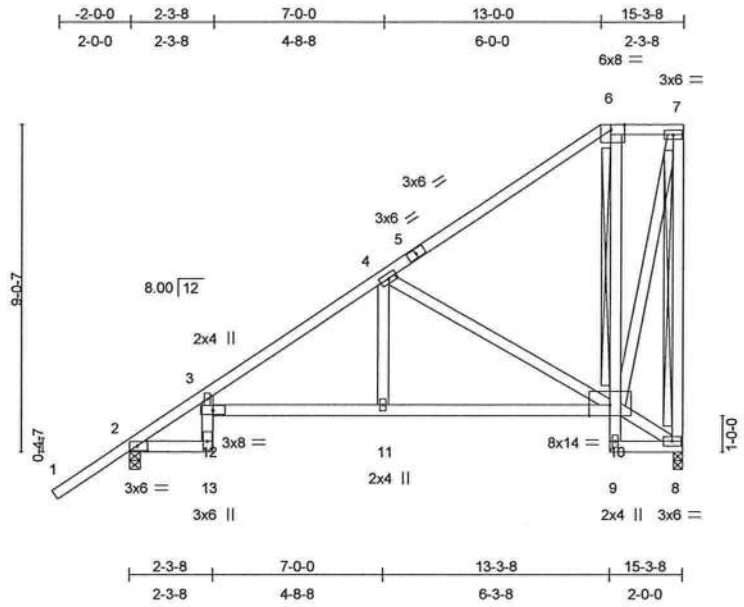
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925169
	T13	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:16 2008 Page 1



Scale = 1:60.0

Plate Offsets (X,Y): [2:0-3-9,0-1-8], [6:0-4-8,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	0.41	Vert(LL)	0.20	11-12	>894	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.26	11-12	>685	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.14	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 110 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
	T-Brace: 2 X 4 SYP No.3 - 6-10
WEBS	T-Brace: 2 X 4 SYP No.3 - 7-8
	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS (lb/size) 8=471/0-3-0, 2=609/0-3-8
Max Horz 2=349(load case 6)
Max Uplift 8=-185(load case 6), 2=-153(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/62, 2-3=-661/15, 3-4=-678/175, 4-5=-231/0, 5-6=-128/12, 6-7=-96/69, 7-8=-434/296
BOT CHORD	2-13=-299/438, 12-13=-14/83, 3-12=-7/85, 11-12=-414/552, 10-11=-414/552, 9-10=0/18, 6-10=-177/198, 8-9=-75/44
WEBS	4-11=-34/255, 4-10=-513/387, 7-10=-317/437, 8-10=-49/86

Julius Lenz
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

JOINT STRESS INDEX

2 = 0.47, 3 = 0.63, 4 = 0.19, 5 = 0.29, 6 = 0.77, 7 = 0.43, 8 = 0.15, 9 = 0.08, 10 = 0.14, 11 = 0.18, 12 = 0.85 and 13 = 0.36

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925169
	T13	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 8 and 153 lb uplift at joint 2.

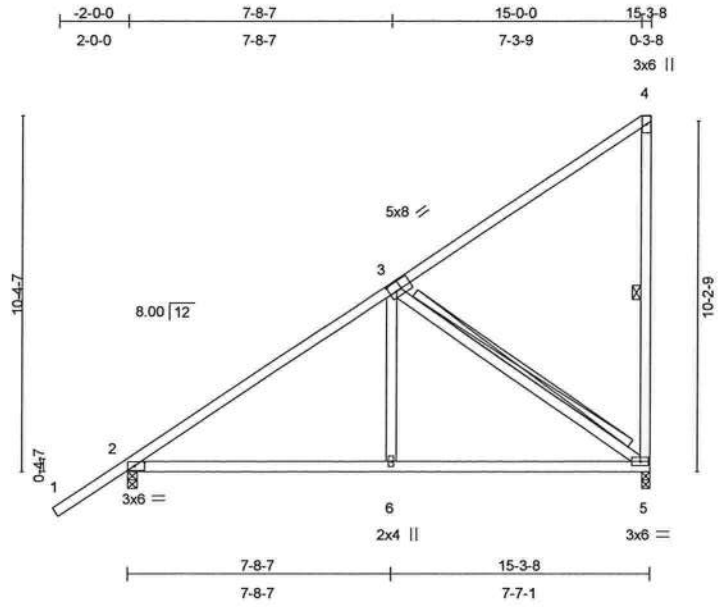
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925170
	T14	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:17 2008 Page 1



Scale: 3/16"=1'

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.06	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.13	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5
T-Brace: 2 X 4 SYP No.3 - 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=471/0-3-0, 2=609/0-3-8
Max Horz 2=393(load case 6)
Max Uplift 5=-233(load case 6), 2=-126(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-592/0, 3-4=-141/75, 4-5=-157/165
BOT CHORD 2-6=-299/398, 5-6=-301/395
WEBS 3-6=0/261, 3-5=-472/359

JOINT STRESS INDEX
2 = 0.45, 3 = 0.79, 4 = 0.32, 5 = 0.27 and 6 = 0.18

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1316 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925170
	T14	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 5 and 126 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925171
	T15	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:17 2008 Page 1

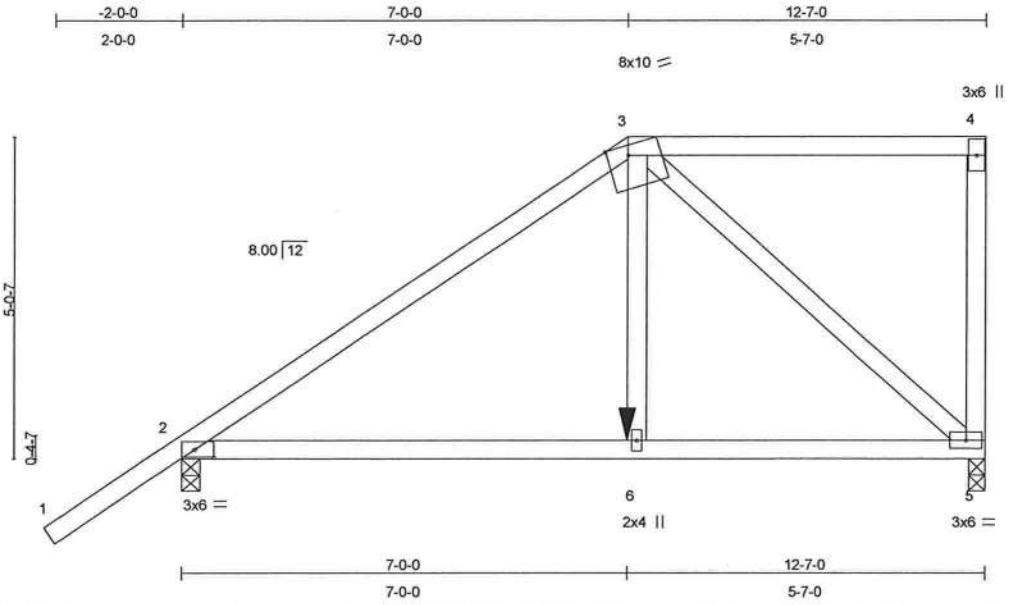


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-4-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.05	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.10	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.76	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 67 lb	

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

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

REACTIONS (lb/size) 5=937/0-3-0, 2=792/0-3-8
Max Horz 2=221(load case 5)
Max Uplift 5=-458(load case 4), 2=-340(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-937/354, 3-4=-53/38, 4-5=-300/245
BOT CHORD 2-6=-340/694, 5-6=-346/710
WEBS 3-6=-189/504, 3-5=-872/431

JOINT STRESS INDEX
2 = 0.55, 3 = 0.82, 4 = 0.48, 5 = 0.41 and 6 = 0.36

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 458 lb uplift at joint 5 and 340 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1893 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925171
	T15	MONO HIP	1	1	Job Reference (optional)

NOTES

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

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-118(F=-64), 2-6=-10, 5-6=-22(F=-12)
   Concentrated Loads (lb)
   Vert: 6=-411(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925172
	T16	MONO HIP	2	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:18 2008 Page 1

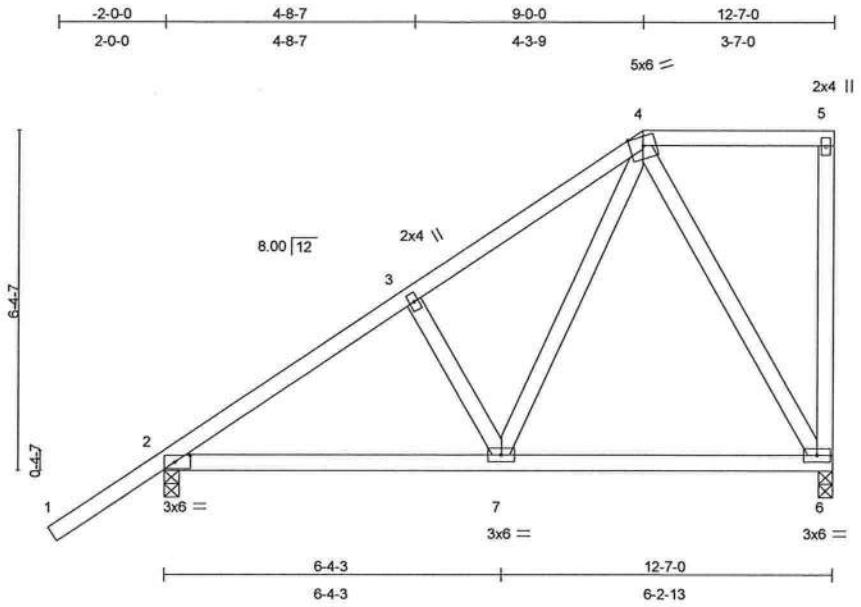


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.03	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.05	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 77 lb	

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

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

REACTIONS (lb/size) 6=382/0-3-0, 2=524/0-3-8
Max Horz 2=263(load case 6)
Max Uplift 6=-110(load case 6), 2=-161(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-503/102, 3-4=-383/142, 4-5=-11/1, 5-6=-76/57
BOT CHORD 2-7=-271/354, 6-7=-128/164
WEBS 3-7=-189/195, 4-7=-124/280, 4-6=-318/256

JOINT STRESS INDEX
2 = 0.52, 3 = 0.11, 4 = 0.32, 5 = 0.22, 6 = 0.21 and 7 = 0.23

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Crandall Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925172
	T16	MONO HIP	2	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 6 and 161 lb uplift at joint 2.

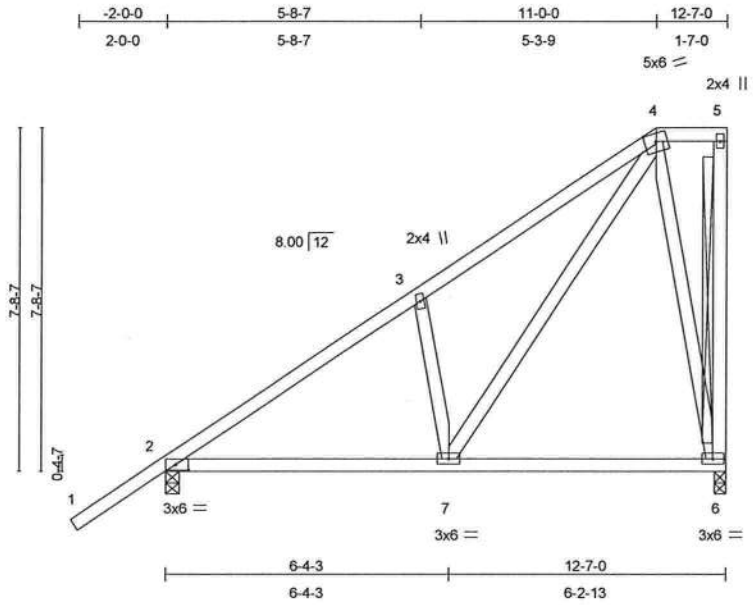
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1309 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925173
	T17	MONO HIP	2	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:18 2008 Page 1



Scale = 1:48.8

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.03	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.05	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 6=382/0-3-0, 2=524/0-3-8
Max Horz 2=305(load case 6)
Max Uplift 6=-152(load case 6), 2=-142(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-487/27, 3-4=-428/167, 4-5=-8/0, 5-6=-44/28
BOT CHORD 2-7=-257/332, 6-7=-66/77
WEBS 3-7=-269/282, 4-7=-267/392, 4-6=-386/352

JOINT STRESS INDEX
2 = 0.44, 3 = 0.15, 4 = 0.31, 5 = 0.18, 6 = 0.27 and 7 = 0.29

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1316 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925173
	T17	MONO HIP	2	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 6 and 142 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1309 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925174
	T18	MONO TRUSS	6	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:19 2008 Page 1

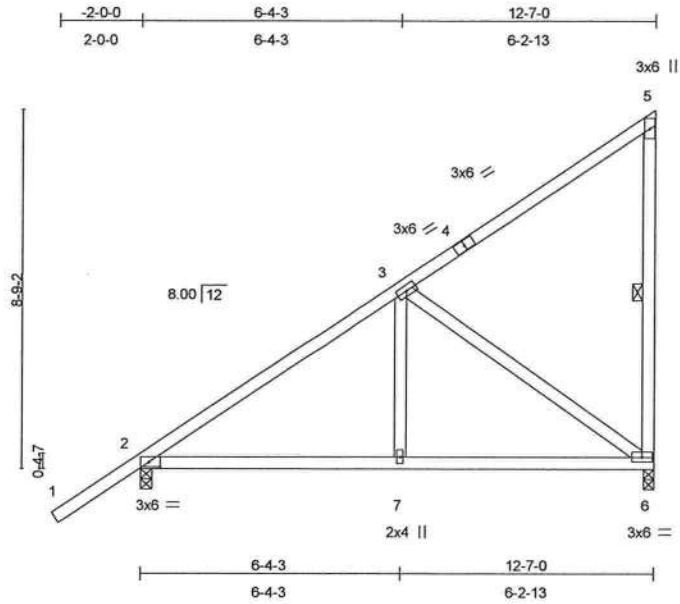


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.03	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 74 lb	

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

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

REACTIONS (lb/size) 6=382/0-3-0, 2=524/0-3-8
Max Horz 2=335(load case 6)
Max Uplift 6=-187(load case 6), 2=-124(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-479/0, 3-4=-118/0, 4-5=-84/64, 5-6=-135/146
BOT CHORD 2-7=-247/321, 6-7=-247/321
WEBS 3-7=0/210, 3-6=-376/288

JOINT STRESS INDEX
2 = 0.38, 3 = 0.16, 4 = 0.09, 5 = 0.26, 6 = 0.19 and 7 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925174
	T18	MONO TRUSS	6	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 6 and 124 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925175
	T19G	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:20 2008 Page 1

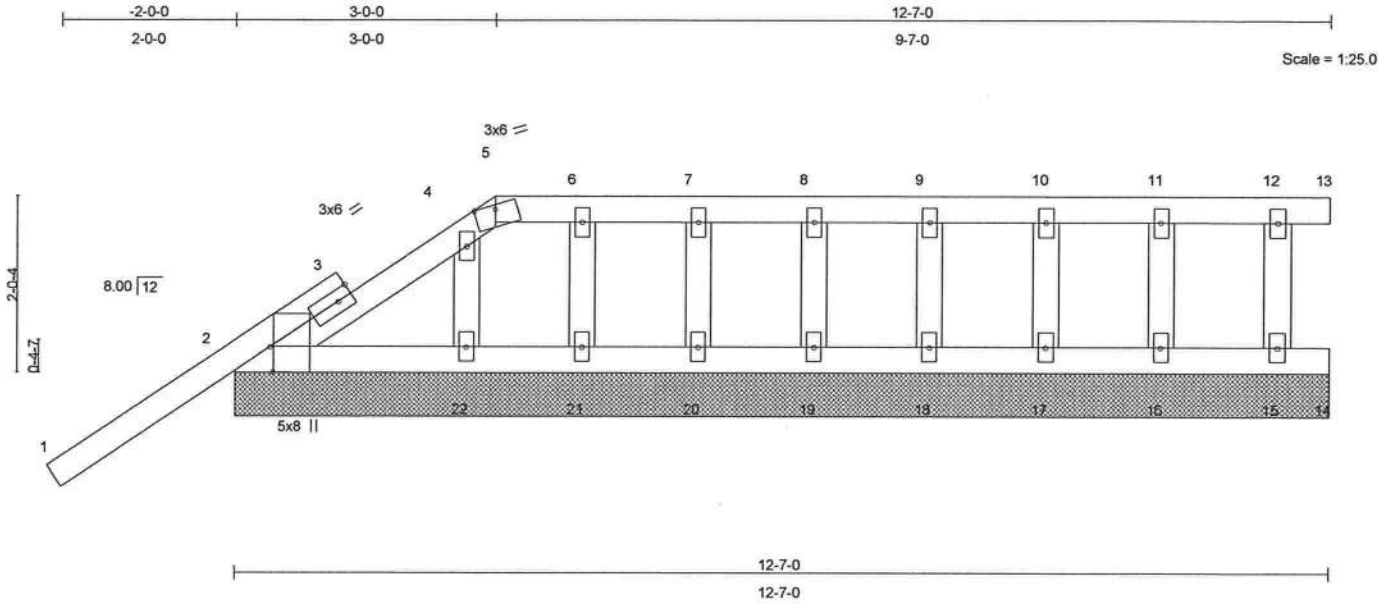


Plate Offsets (X,Y): [2:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	1	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.02	Horz(TL)	-0.00	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 60 lb	

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

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

REACTIONS (lb/size) 13=8/12-7-0, 2=239/12-7-0, 14=1/12-7-0, 22=85/12-7-0, 21=88/12-7-0, 20=85/12-7-0, 19=85/12-7-0, 18=85/12-7-0, 17=85/12-7-0, 16=90/12-7-0, 15=67/12-7-0
Max Horz 2=166(load case 6)
Max Uplift 13=-7(load case 4), 2=-209(load case 6), 22=-29(load case 7), 21=-74(load case 4), 20=-49(load case 4), 19=-54(load case 4), 18=-53(load case 4), 17=-53(load case 4), 16=-56(load case 4), 15=-41(load case 4)
Max Grav 13=8(load case 11), 2=239(load case 1), 14=3(load case 2), 22=94(load case 2), 21=88(load case 1), 20=86(load case 11), 19=85(load case 1), 18=86(load case 11), 17=85(load case 1), 16=90(load case 11), 15=67(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-3=-44/7, 3-4=-29/21, 4-5=-21/7, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0, 10-11=0/0, 11-12=0/0, 12-13=0/0
BOT CHORD 2-22=0/0, 21-22=0/0, 20-21=0/0, 19-20=0/0, 18-19=0/0, 17-18=0/0, 16-17=0/0, 15-16=0/0, 14-15=0/0
WEBS 4-22=-74/49, 6-21=-73/79, 7-20=-72/59, 8-19=-72/62, 9-18=-72/61, 10-17=-71/61, 11-16=-76/65, 12-15=-56/47

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925175
	T19G	GABLE	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.45, 3 = 0.00, 3 = 0.15, 4 = 0.04, 5 = 0.04, 6 = 0.04, 7 = 0.03, 8 = 0.03, 9 = 0.03, 10 = 0.03, 11 = 0.04, 12 = 0.03, 15 = 0.03, 16 = 0.04, 17 = 0.03, 18 = 0.03, 19 = 0.03, 20 = 0.03, 21 = 0.04 and 22 = 0.03

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; 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) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 1-4-0 oc.
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 13, 209 lb uplift at joint 2, 29 lb uplift at joint 22, 74 lb uplift at joint 21, 49 lb uplift at joint 20, 54 lb uplift at joint 19, 53 lb uplift at joint 18, 53 lb uplift at joint 17, 56 lb uplift at joint 16 and 41 lb uplift at joint 15.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925176
	T20	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:21 2008 Page 1

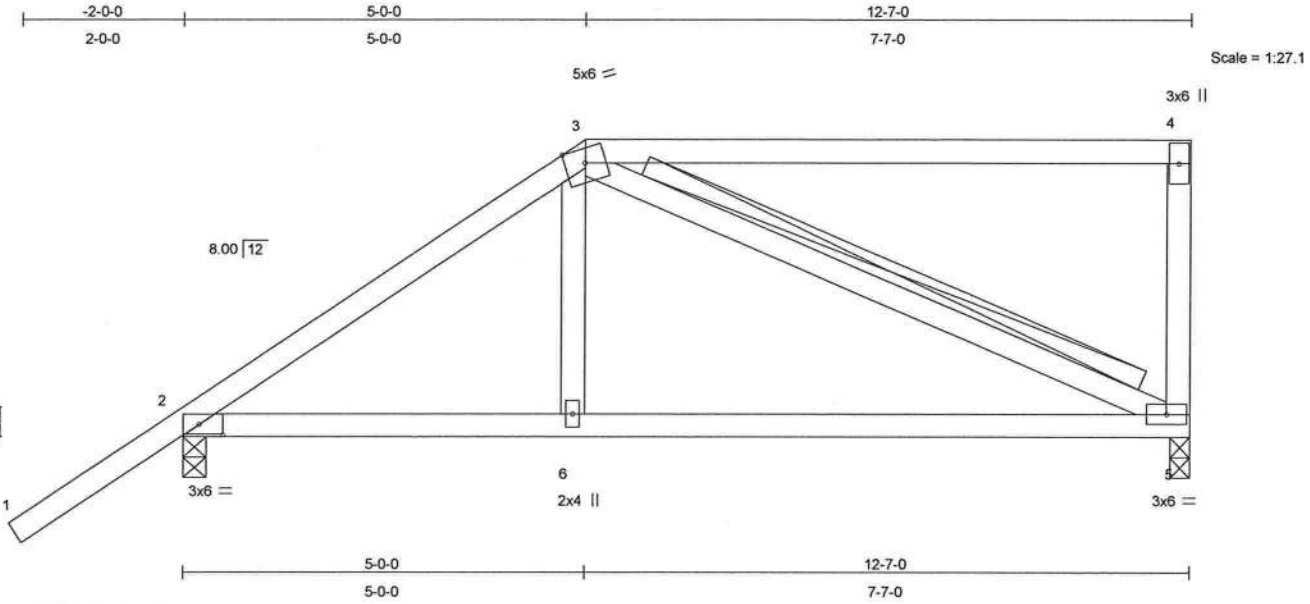


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.11	5-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 64 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=382/0-3-0, 2=524/0-3-8
Max Horz 2=177(load case 6)
Max Uplift 5=-108(load case 5), 2=-173(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-526/202, 3-4=-80/50, 4-5=-200/167
BOT CHORD 2-6=-238/381, 5-6=-242/379
WEBS 3-6=0/207, 3-5=-330/211

JOINT STRESS INDEX
2 = 0.61, 3 = 0.69, 4 = 0.54, 5 = 0.54 and 6 = 0.15

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925176
	T20	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 5 and 173 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925177
	T21	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:21 2008 Page 1

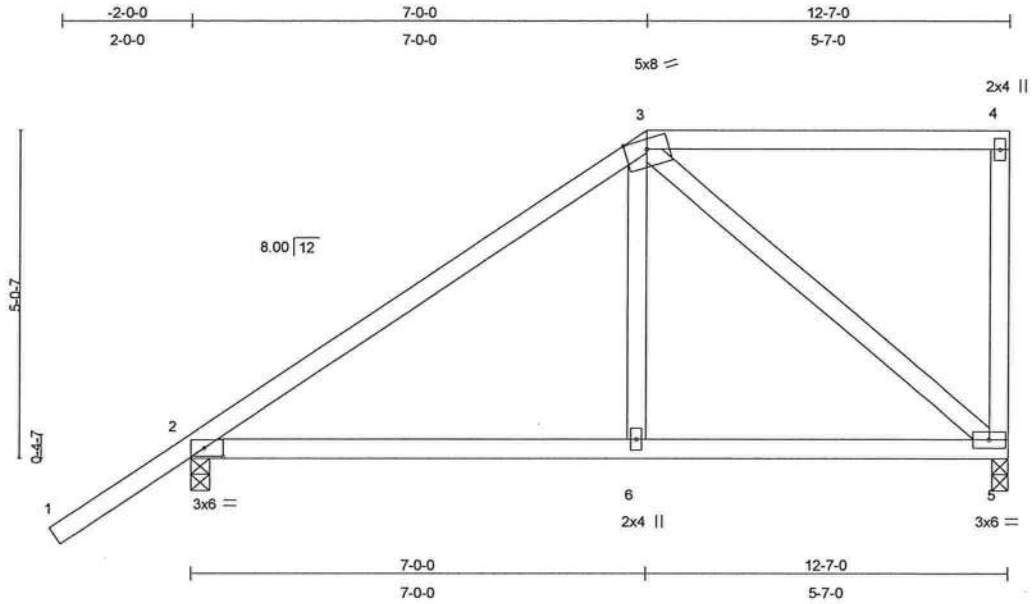


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.04	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.09	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 67 lb	

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

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

REACTIONS (lb/size) 5=382/0-3-0, 2=524/0-3-8
Max Horz 2=220(load case 6)
Max Uplift 5=-108(load case 5), 2=-171(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-460/134, 3-4=-17/15, 4-5=-119/96
BOT CHORD 2-6=-202/295, 5-6=-203/292
WEBS 3-6=0/213, 3-5=-366/257

JOINT STRESS INDEX
2 = 0.41, 3 = 0.51, 4 = 0.56, 5 = 0.16 and 6 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925177
	T21	MONO HIP	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 5 and 171 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925178
	T22G	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:22 2008 Page 1

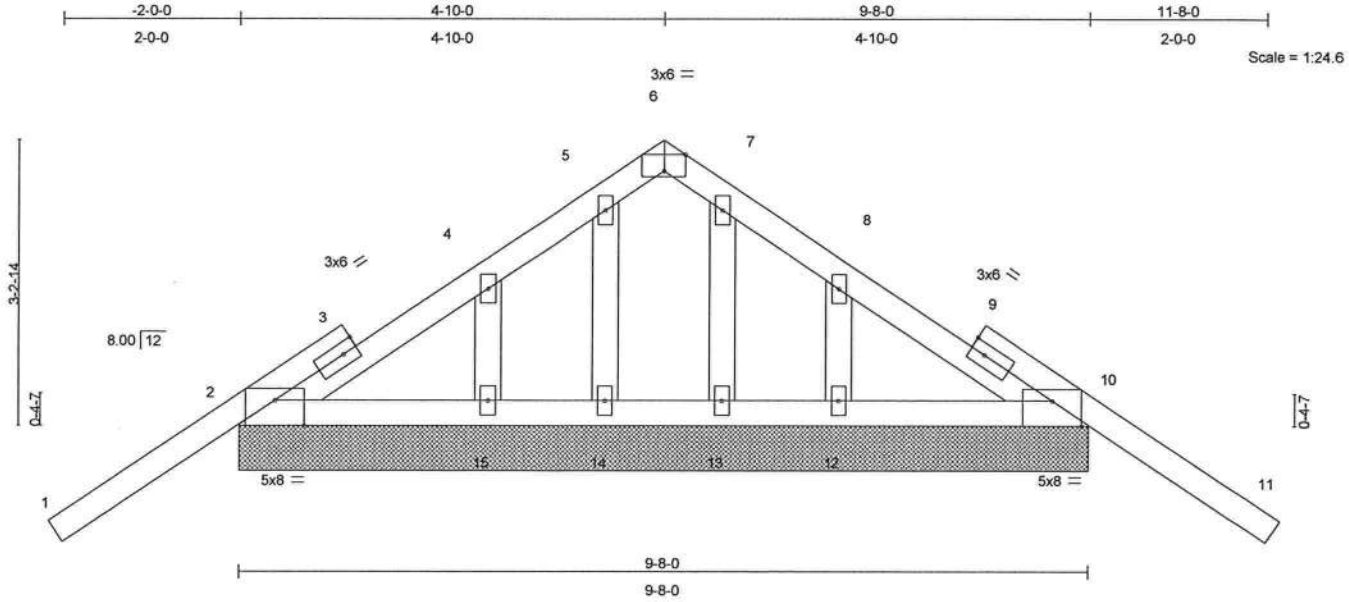


Plate Offsets (X,Y): [2:0-4-0,0-3-7], [6:0-3-0,Edge], [10:0-4-0,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.03	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.04	11	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.02	Horz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 53 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
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=245/9-8-0, 10=245/9-8-0, 14=76/9-8-0, 15=101/9-8-0, 13=76/9-8-0, 12=101/9-8-0
Max Horz 2=108(load case 5)
Max Uplift 2=-217(load case 6), 10=-231(load case 7), 14=-36(load case 6), 15=-58(load case 7), 13=-16(load case 7), 12=-51(load case 6)
Max Grav 2=245(load case 1), 10=245(load case 1), 14=76(load case 1), 15=101(load case 2), 13=76(load case 1), 12=101(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-3=-55/68, 3-4=-45/80, 4-5=-32/98, 5-6=-27/100, 6-7=-27/100, 7-8=-32/98, 8-9=-12/55, 9-10=-54/36, 10-11=0/61
BOT CHORD 2-15=-7/122, 14-15=-7/122, 13-14=-7/122, 12-13=-7/122, 10-12=-7/122
WEBS 5-14=-62/30, 4-15=-87/76, 7-13=-62/9, 8-12=-87/69

Julius Lee
Truss Design Engineer
Florida PE# No. 34183
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

JOINT STRESS INDEX
2 = 0.70, 3 = 0.00, 3 = 0.16, 4 = 0.04, 5 = 0.03, 6 = 0.12, 7 = 0.03, 8 = 0.04, 9 = 0.00, 9 = 0.16, 10 = 0.70, 12 = 0.04, 13 = 0.02 , 14 = 0.02 and 15 = 0.04

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

Continued on page 2

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925178
	T22G	GABLE	1	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2, 231 lb uplift at joint 10, 36 lb uplift at joint 14, 58 lb uplift at joint 15, 16 lb uplift at joint 13 and 51 lb uplift at joint 12.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925179
	T23G	GABLE	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jan 10 17:38:45 2008 Page 1

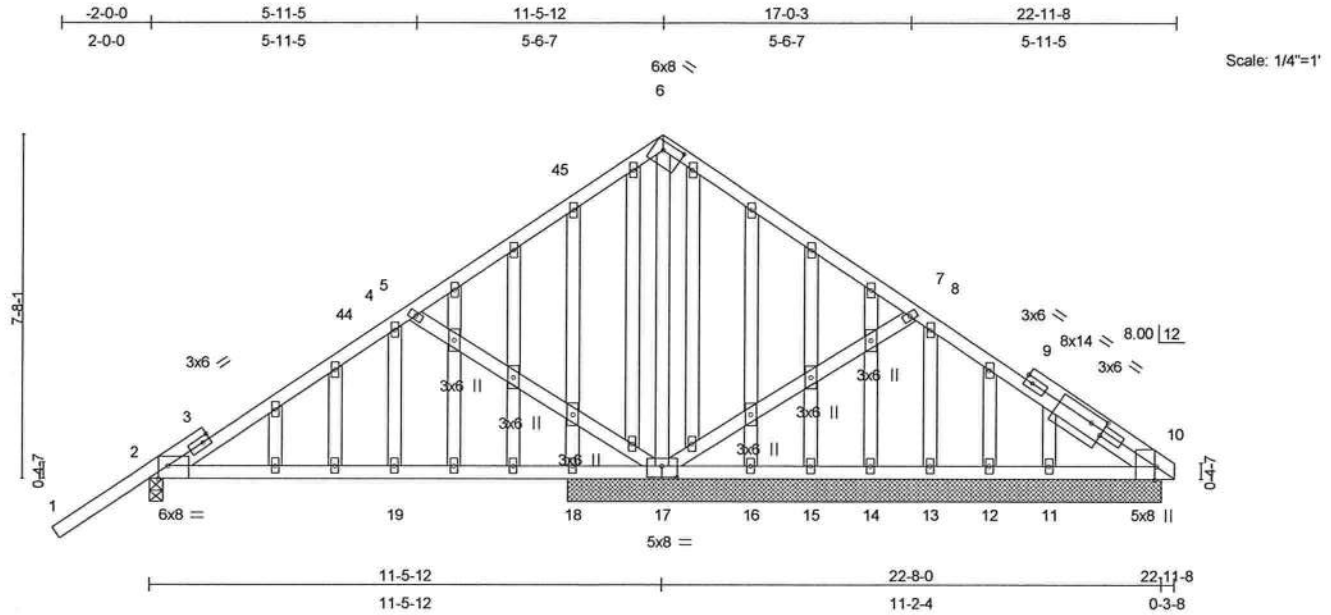


Plate Offsets (X,Y): [2:0-2-9,Edge], [6:0-5-4,0-2-4], [9:0-3-12,0-1-8], [10:0-3-8,Edge], [17:0-4-0,0-3-0], [29:1-5-5,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	0.06	2-19	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.04	2-19	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.87	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 196 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 2-19,18-19 9-7-6 oc bracing: 17-18.

REACTIONS (lb/size) 10=249/13-3-8, 17=1373/13-3-8, 16=20/13-3-8, 15=12/13-3-8, 14=10/13-3-8, 13=488/13-3-8, 12=-48/13-3-8, 11=133/13-3-8, 18=35/13-3-8, 2=526/0-3-8
Max Horz 18=286(load case 5)
Max Uplift 10=-147(load case 7), 17=-1062(load case 7), 13=-351(load case 7), 12=-48(load case 1), 11=-87(load case 7), 18=-49(load case 4), 2=-476(load case 6)
Max Grav 10=289(load case 11), 17=1373(load case 1), 16=57(load case 2), 15=35(load case 2), 14=39(load case 2), 13=494(load case 11), 12=58(load case 7), 11=133(load case 1), 18=95(load case 2), 2=540(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	6-7=-269/370, 7-8=-173/88, 8-9=-163/180, 9-10=-247/59, 1-2=0/62, 2-3=-555/528, 3-44=-430/542, 4-44=-421/547, 4-5=-346/384, 5-45=-152/178, 6-45=-286/384
BOT CHORD	2-19=-306/420, 18-19=-306/420, 17-18=-430/420, 16-17=-51/107, 15-16=-51/107, 14-15=-51/107, 13-14=-51/107, 12-13=-51/107, 11-12=-51/107, 10-11=-51/107
WEBS	7-17=-213/300, 6-17=-914/877, 5-17=-656/893, 8-13=-464/440, 4-19=-236/153

Julius Lee
Truss Design Engineer
Florida PE# No. 34183
1105 Coastal Bay Blvd.
Boynton Beach, FL 33435

JOINT STRESS INDEX

2 = 0.53, 3 = 0.00, 3 = 0.23, 4 = 0.34, 5 = 0.48, 6 = 0.94, 7 = 0.34, 8 = 0.34, 9 = 0.00, 9 = 0.58, 9 = 0.58, 10 = 0.29, 11 = 0.34, 12 = 0.34, 13 = 0.34, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.55, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34, 22 = 0.34, 23 = 0.62, 24 = 0.34, 25 = 0.62, 26 = 0.34, 27 = 0.62, 28 = 0.34, 29 = 0.68, 30 = 0.34, 31 = 0.34, 32 = 0.62, 33 = 0.34, 34 = 0.62, 35 = 0.34, 36 = 0.34, 37 = 0.62, 38 = 0.34, 39 = 0.34, 40 = 0.34, 41 = 0.34, 42 = 0.34 and 43 = 0.34

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925179
	T23G	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 10, 1062 lb uplift at joint 17, 351 lb uplift at joint 13, 48 lb uplift at joint 12, 87 lb uplift at joint 11, 49 lb uplift at joint 18 and 476 lb uplift at joint 2.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 6-10=-114(F=-60), 1-44=-54, 44-45=-141(F=-87), 6-45=-114(F=-60), 2-10=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925180
	T24	COMMON	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jan 10 17:39:31 2008 Page 1

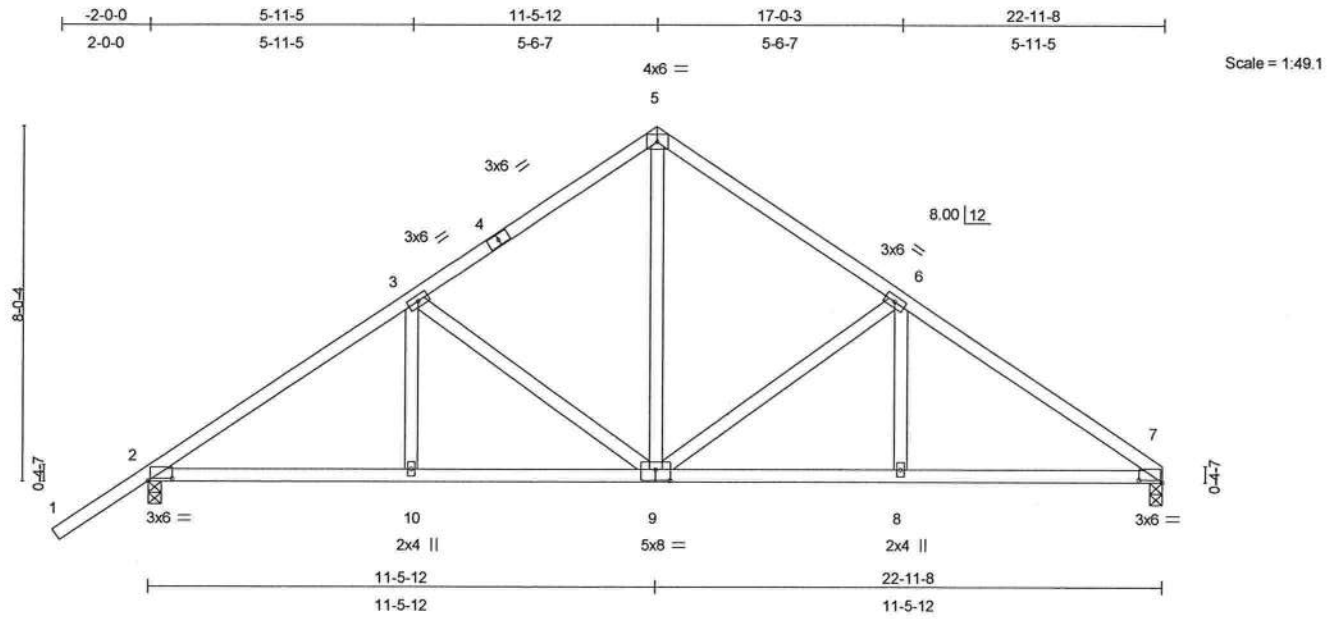


Plate Offsets (X,Y): [2:0-6-7,0-0-10], [7:0-6-7,0-0-10], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	0.13	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	0.11	7-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.90	Horz(TL)	0.03	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 121 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-3-6 oc bracing.

REACTIONS (lb/size) 7=719/0-3-8, 2=851/0-3-8
Max Horz 7=239(load case 5)
Max Uplift 7=-435(load case 7), 2=-536(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-740/962, 6-7=-1080/1295, 1-2=0/62, 2-3=-1057/1260, 3-4=-739/937, 4-5=-655/960
BOT CHORD 2-10=-851/797, 9-10=-851/797, 8-9=-889/822, 7-8=-889/822
WEBS 6-9=-359/551, 5-9=-864/433, 3-9=-327/505, 3-10=-276/182, 6-8=-305/187

JOINT STRESS INDEX
2 = 0.71, 3 = 0.43, 4 = 0.40, 5 = 0.50, 6 = 0.43, 7 = 0.71, 8 = 0.34, 9 = 0.35 and 10 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 7 and 536 lb uplift at joint 2.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925180
	T24	COMMON	1	1	Job Reference (optional)

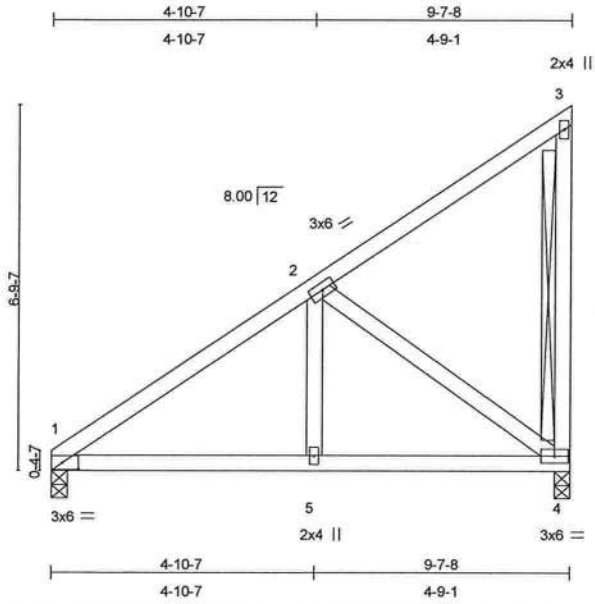
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925181
	T25	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:25 2008 Page 1



Scale = 1:40.3

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	0.05	1-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	0.04	1-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.17	Horz(TL)	-0.00	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 53 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-4
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=299/0-3-8, 4=299/0-3-8
Max Horz 4=204(load case 6)
Max Uplift 1=-130(load case 6), 4=-269(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-377/298, 2-3=-90/48, 3-4=-100/107
BOT CHORD 1-5=-170/257, 4-5=-170/257
WEBS 2-5=-307/163, 2-4=-305/560

JOINT STRESS INDEX
1 = 0.33, 2 = 0.29, 3 = 0.58, 4 = 0.38 and 5 = 0.12

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925181
	T25	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 1 and 269 lb uplift at joint 4.

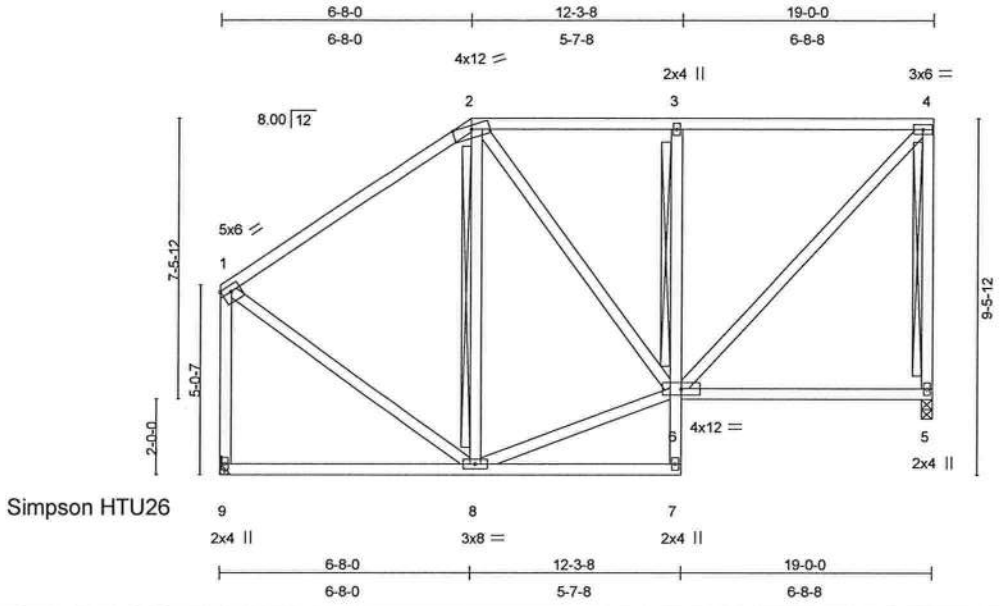
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925182
	T26	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:26 2008 Page 1



Simpson HTU26

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.05	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	-0.08	5-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.57	Horz(TL)	-0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 149 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-7 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
1-9 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-8.
T-Brace: 2 X 4 SYP No.3 - 3-6
WEBS T-Brace: 2 X 4 SYP No.3 - 4-5, 2-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=599/0-3-8, 9=599/Mechanical
Max Horz 5=140(load case 6)
Max Uplift 5=-181(load case 5), 9=-88(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-559/367, 2-3=-379/236, 3-4=-389/242, 1-2=-458/211, 1-9=-561/248
BOT CHORD 5-6=-13/179, 6-7=0/64, 3-6=-338/234, 8-9=-31/39, 7-8=-22/16
WEBS 4-6=-337/537, 6-8=-50/301, 2-6=-106/132, 2-8=-239/98, 1-8=-68/324

JOINT STRESS INDEX
1 = 0.74, 2 = 0.92, 3 = 0.48, 4 = 0.65, 5 = 0.68, 6 = 0.54, 7 = 0.36, 8 = 0.56 and 9 = 0.76

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925182
	T26	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 5 and 88 lb uplift at joint 9.

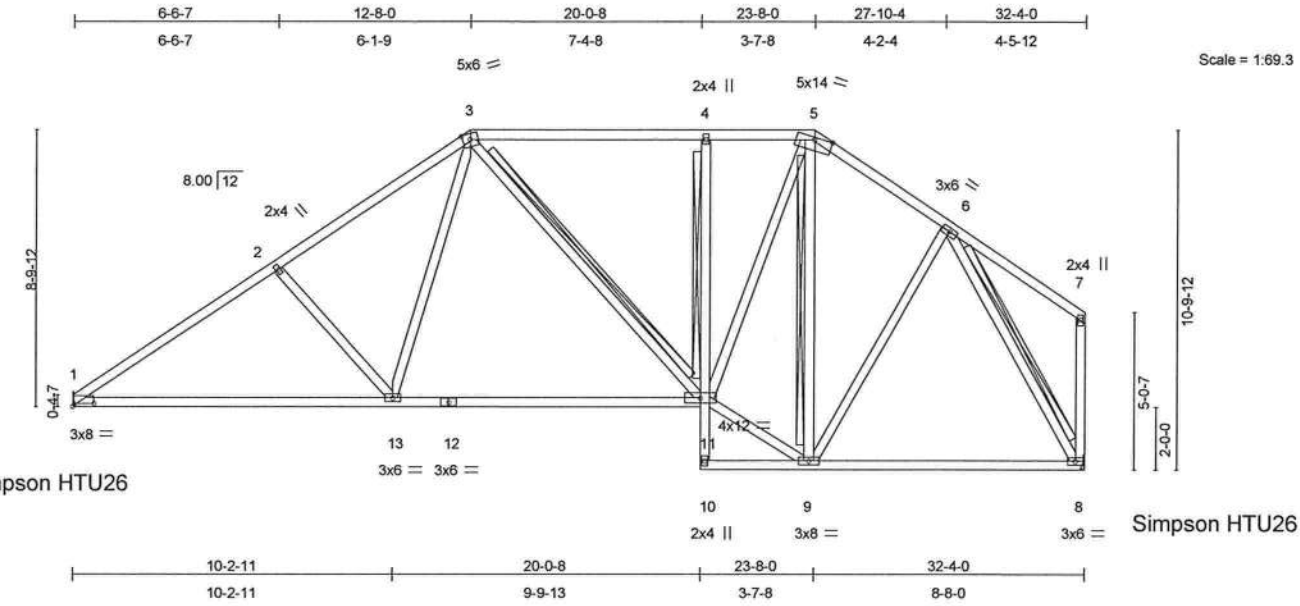
LOAD CASE(S) Standard

Julius Lam
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925183
	T27	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:27 2008 Page 1



Simpson HTU26

Simpson HTU26

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.20	1-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.40	1-13	>976	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.53	Horz(TL)	0.07	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 221 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 4-10 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except* 7-8 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 4-11
WEBS T-Brace: 2 X 4 SYP No.3 - 3-11, 5-9, 6-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=1028/Mechanical, 8=1028/Mechanical
Max Horz 1=233(load case 5)
Max Uplift 1=-198(load case 6), 8=-173(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1565/752, 2-3=-1355/745, 3-4=-938/626, 4-5=-925/620, 5-6=-821/524, 6-7=-90/82, 7-8=-125/105
BOT CHORD 1-13=-643/1241, 12-13=-400/952, 11-12=-400/952, 10-11=-16/0, 4-11=-337/220, 9-10=-90/0, 8-9=-236/503
WEBS 2-13=-291/294, 3-13=-177/419, 3-11=-146/128, 5-11=-365/810, 5-9=-507/204, 9-11=-224/722, 6-9=-113/289, 6-8=-983/474

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925183
	T27	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

1 = 0.67, 2 = 0.33, 3 = 0.71, 4 = 0.72, 5 = 0.38, 6 = 0.35, 7 = 0.60, 8 = 0.64, 9 = 0.67, 10 = 0.47, 11 = 0.96, 12 = 0.37 and 13 = 0.49

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 1 and 173 lb uplift at joint 8.

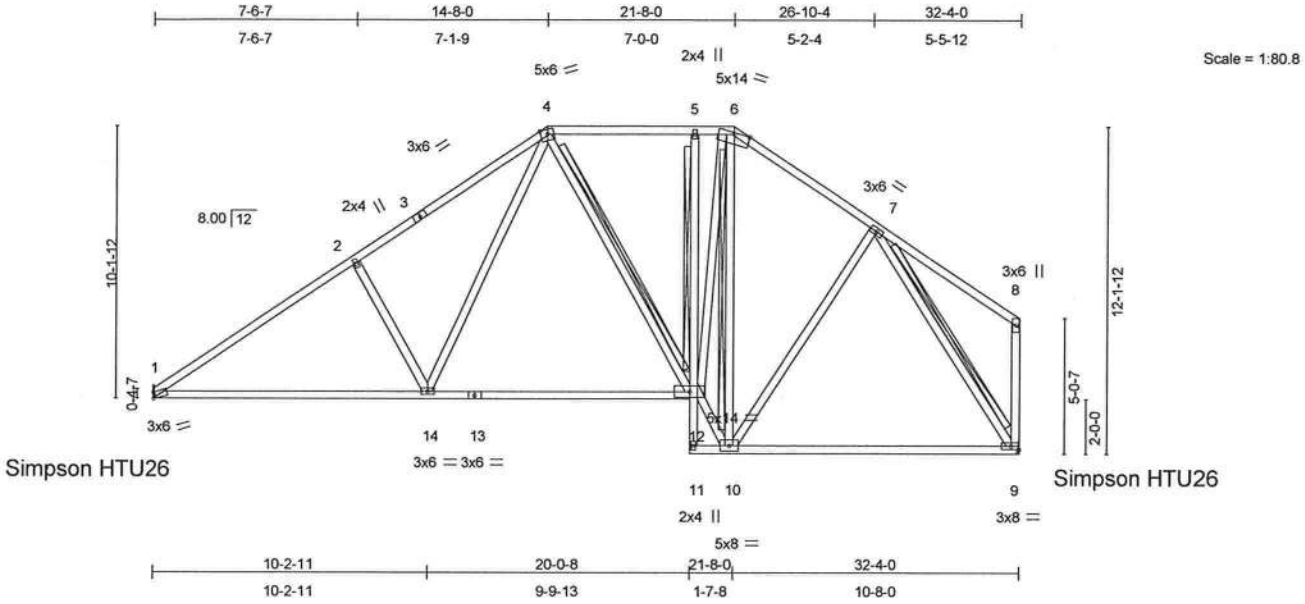
LOAD CASE(S) Standard

Julius Lenz
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925184
	T28	SPECIAL	2	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:28 2008 Page 1



Simpson HTU26

Simpson HTU26

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.21	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.42	1-14	>916	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.12	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 232 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 5-11 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except* 8-9 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 5-12
WEBS T-Brace: 2 X 4 SYP No.3 - 4-12, 6-10, 7-9
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=1028/Mechanical, 9=1028/Mechanical
Max Horz 1=270(load case 5)
Max Uplift 1=-244(load case 6), 9=-201(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1567/726, 2-3=-1374/762, 3-4=-1260/792, 4-5=-793/574, 5-6=-781/571, 6-7=-845/546, 7-8=-116/104, 8-9=-157/132
BOT CHORD 1-14=-608/1217, 13-14=-318/848, 12-13=-318/848, 11-12=-265/0, 5-12=-150/126, 10-11=-94/22, 9-10=-251/554
WEBS 2-14=-354/355, 4-14=-291/484, 4-12=-190/156, 6-12=-397/1068, 10-12=-272/1082, 6-10=-878/273, 7-10=-70/216, 7-9=-972/456

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925184
	T28	SPECIAL	2	1	Job Reference (optional)

JOINT STRESS INDEX

1 = 0.81, 2 = 0.33, 3 = 0.39, 4 = 0.69, 5 = 0.52, 6 = 0.79, 7 = 0.34, 8 = 0.26, 9 = 0.62, 10 = 0.55, 11 = 0.73, 12 = 0.85, 13 = 0.35 and 14 = 0.46

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 1 and 201 lb uplift at joint 9.

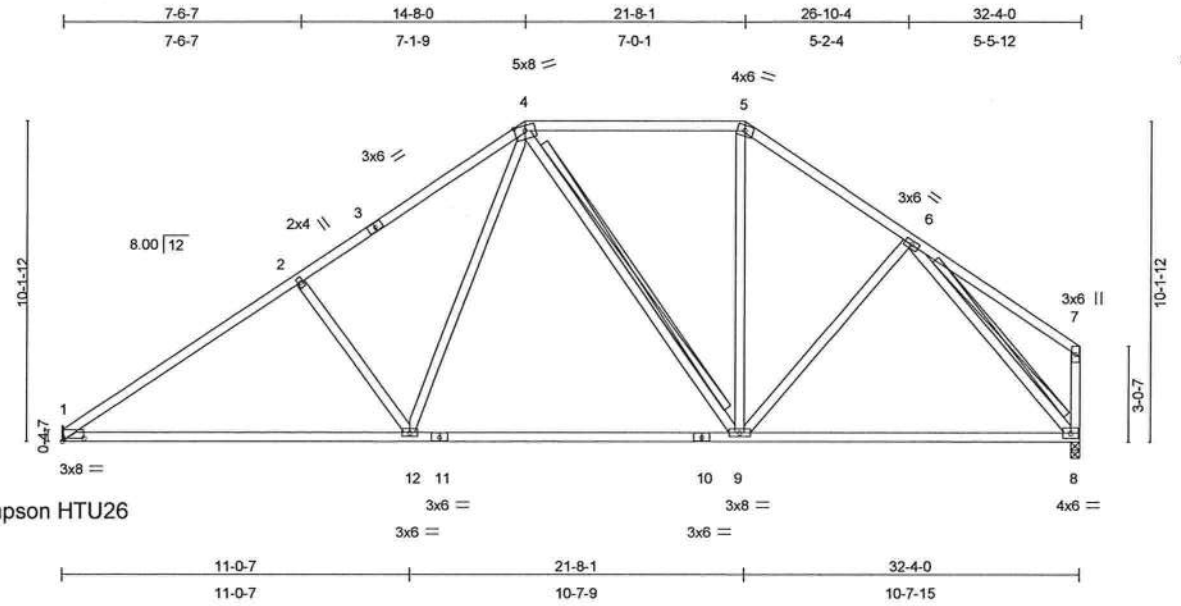
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925185
	T30	HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:29 2008 Page 1



Simpson HTU26

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.28	1-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.56	1-12	>683	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.05	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 187 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* 7-8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-9, 6-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=1028/Mechanical, 8=1028/0-3-8
Max Horz 1=270(load case 5)
Max Uplift 1=-208(load case 6), 8=-185(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1557/728, 2-3=-1323/721, 3-4=-1128/752, 4-5=-768/562, 5-6=-993/594, 6-7=-172/122, 7-8=-195/147
BOT CHORD 1-12=-609/1210, 11-12=-319/854, 10-11=-319/854, 9-10=-319/854, 8-9=-326/723
WEBS 2-12=-350/351, 4-12=-250/465, 4-9=-243/175, 5-9=-103/267, 6-9=-103/171, 6-8=-1011/480

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

JOINT STRESS INDEX
1 = 0.76, 2 = 0.33, 3 = 0.38, 4 = 0.64, 5 = 0.62, 6 = 0.35, 7 = 0.34, 8 = 0.74, 9 = 0.56, 10 = 0.45, 11 = 0.65 and 12 = 0.48

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925185
	T30	HIP	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 1 and 185 lb uplift at joint 8.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925186
	T31	SPECIAL	3	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:30 2008 Page 1

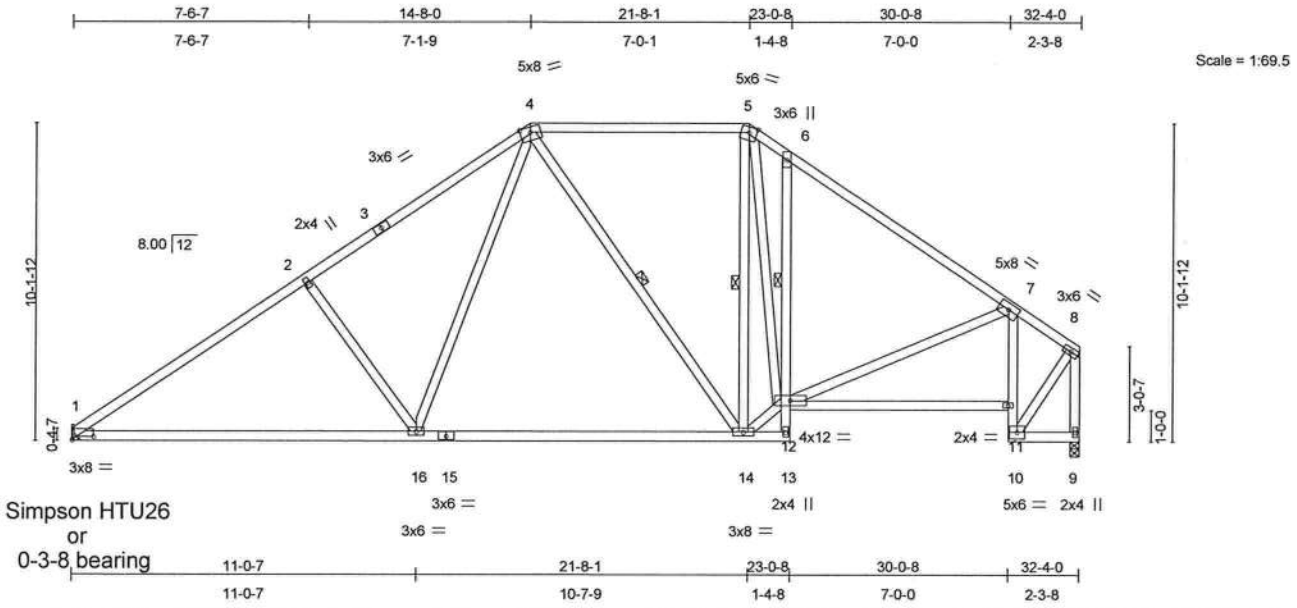


Plate Offsets (X,Y): [1:0-8-3,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.27	1-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-0.53	1-16	>719	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.13	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 214 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
6-13 2 X 4 SYP No.3, 7-10 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
8-9 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-12
WEBS 1 Row at midpt 4-14, 5-14

REACTIONS (lb/size) 1=1025/Mechanical, 9=1025/0-3-8
Max Horz 1=316(load case 5)
Max Uplift 1=-246(load case 6), 9=-197(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1545/730, 2-3=-1313/724, 3-4=-1119/754, 4-5=-765/570, 5-6=-1019/745, 6-7=-1164/607, 7-8=-658/355, 8-9=-1143/532
BOT CHORD 1-16=-504/1196, 15-16=-220/849, 14-15=-220/849, 13-14=-157/16, 12-13=-188/0, 6-12=-289/255, 11-12=-245/673, 10-11=-610/301, 7-11=-585/325, 9-10=-24/59
WEBS 2-16=-341/345, 4-16=-242/465, 4-14=-233/165, 5-14=-320/89, 5-12=-355/637, 12-14=-94/931, 7-12=-93/256, 8-10=-416/917

Julius Lam
Truss Design Engineer
Florida FIE No. 34569
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

JOINT STRESS INDEX

1 = 0.73, 2 = 0.33, 3 = 0.38, 4 = 0.61, 5 = 0.49, 6 = 0.25, 7 = 0.52, 8 = 0.69, 9 = 0.42, 10 = 0.56, 11 = 0.74, 12 = 0.70, 13 = 0.62, 14 = 0.88, 15 = 0.67 and 16 = 0.48

NOTES

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

Continued on page 2

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925186
	T31	SPECIAL	3	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 1 and 197 lb uplift at joint 9.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925187
	T32	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:31 2008 Page 1

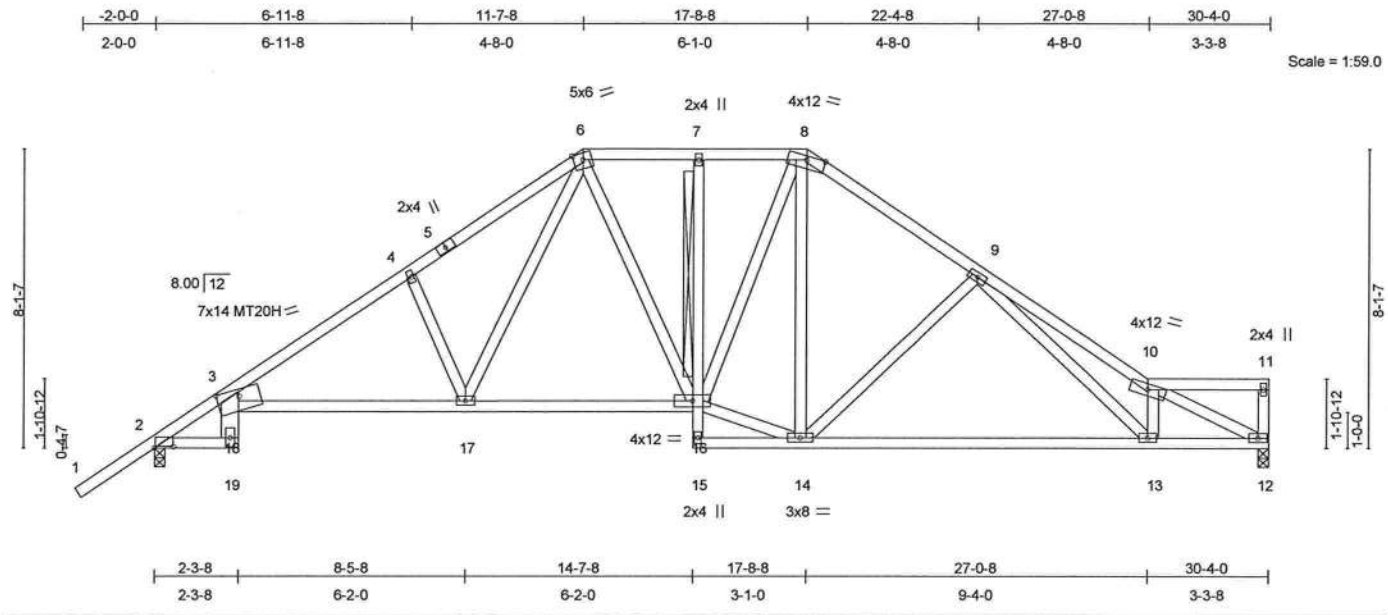


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-7-0,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	0.34	17-18	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.66	17-18	>547	240	MT20H	187/143
BCLL	10.0	* Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.30	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 195 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-19 2 X 6 SYP No.1D, 16-18 2 X 4 SYP No.1D
7-15 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 7-16

REACTIONS (lb/size) 12=957/0-3-8, 2=1086/0-3-8
Max Horz 2=267(load case 5)
Max Uplift 12=-193(load case 7), 2=-285(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-1416/522, 3-4=-1699/771, 4-5=-1626/826, 5-6=-1596/847, 6-7=-1043/629, 7-8=-1041/630, 8-9=-1165/642, 9-10=-2139/1081, 10-11=-68/71, 11-12=-106/61
BOT CHORD 2-19=-344/1039, 18-19=-5/69, 3-18=-56/123, 17-18=-537/1423, 16-17=-286/997, 15-16=-51/0, 7-16=-159/95, 14-15=-62/67, 13-14=-486/1191, 12-13=-741/1702
WEBS 4-17=-392/293, 6-17=-321/644, 6-16=-147/231, 8-16=-197/388, 14-16=-209/891, 8-14=-101/181, 9-14=-400/319, 9-13=-401/778, 10-13=-498/354, 10-12=-1832/818

Julius Lee
Truss Design Engineer
Florida PE No. 34834
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

JOINT STRESS INDEX

2 = 0.66, 3 = 0.91, 4 = 0.33, 5 = 0.42, 6 = 0.38, 7 = 0.33, 8 = 0.66, 9 = 0.51, 10 = 0.66, 11 = 0.67, 12 = 0.51, 13 = 0.47, 14 = 0.80, 15 = 0.41, 16 = 0.77, 17 = 0.53, 18 = 0.00 and 19 = 0.56

Continued on page 2

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925187
	T32	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 3x6 MT20 unless otherwise indicated.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 12 and 285 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925188
	T33	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:32 2008 Page 1

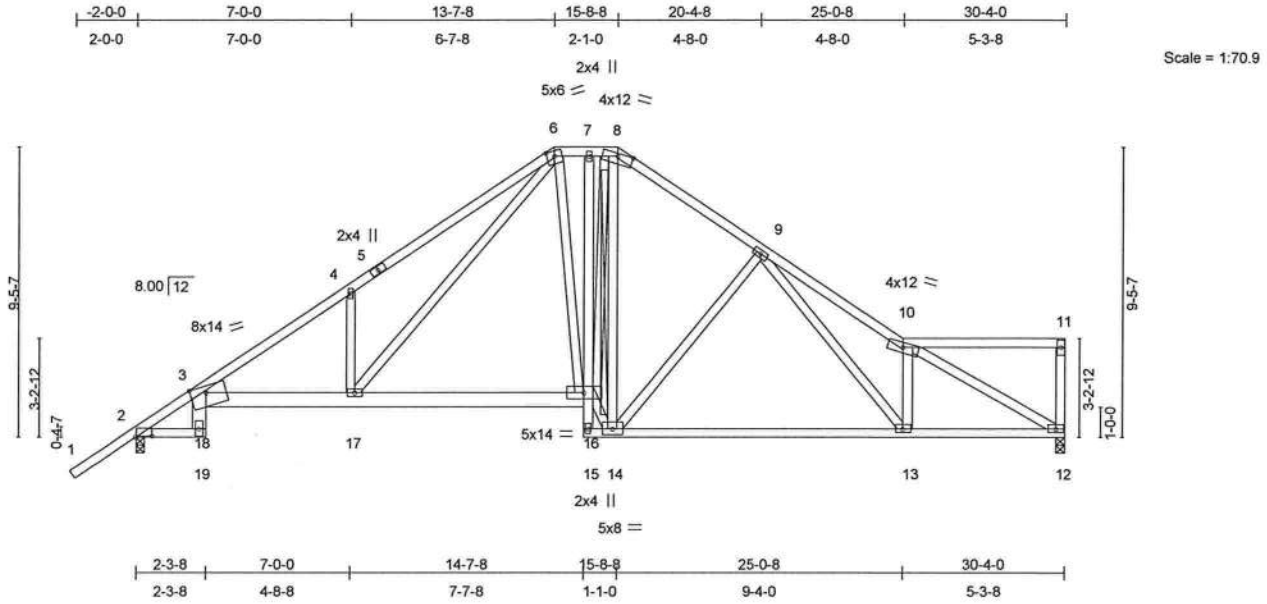


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-6-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.18	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.37	13-14	>976	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.20	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 224 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-19 2 X 6 SYP No.1D, 16-18 2 X 6 SYP No.1D
7-15 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 8-14
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 12=957/0-3-8, 2=1086/0-3-8
Max Horz 2=325(load case 5)
Max Uplift 12=-202(load case 7), 2=-295(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62, 2-3=-1424/512, 3-4=-1809/788, 4-5=-1885/986, 5-6=-1784/1014, 6-7=-872/574, 7-8=-860/570, 8-9=-1032/601, 9-10=-1807/960, 10-11=-50/83, 11-12=-144/100
BOT CHORD 2-19=-346/1051, 18-19=-5/65, 3-18=-191/159, 17-18=-547/1485, 16-17=-214/888, 15-16=-337/0, 7-16=-249/321, 14-15=-101/166, 13-14=-387/1057, 12-13=-600/1429
WEBS 4-17=-378/351, 6-17=-525/939, 6-16=-274/233, 8-16=-242/607, 14-16=-191/1059, 8-14=-377/194, 9-14=-418/341, 9-13=-369/629, 10-13=-434/346, 10-12=-1586/721

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925188
	T33	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.66, 3 = 0.84, 4 = 0.33, 5 = 0.39, 6 = 0.69, 7 = 0.33, 8 = 0.62, 9 = 0.42, 10 = 0.57, 11 = 0.29, 12 = 0.45, 13 = 0.43, 14 = 0.54, 15 = 0.49, 16 = 0.57, 17 = 0.63, 18 = 0.00 and 19 = 0.56

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 12 and 295 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925189
	T34	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:33 2008 Page 1

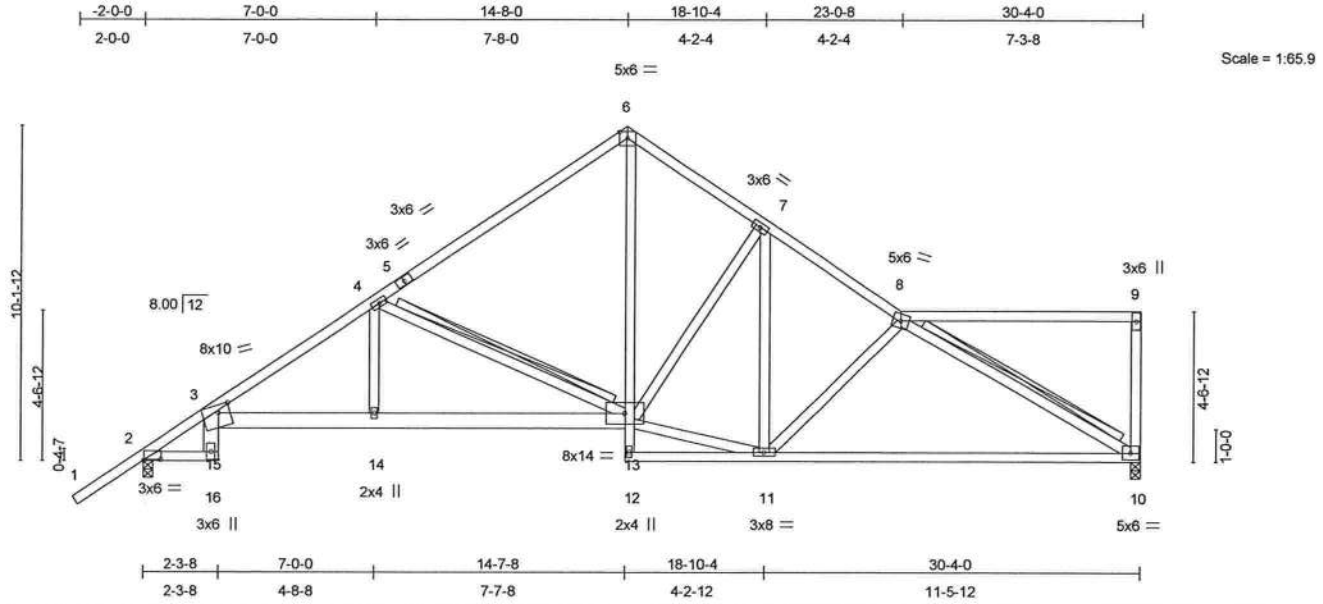


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-4-2,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.96	Vert(LL)	-0.32	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.58	10-11	>617	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.57	Horz(TL)	0.17	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 198 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-16 2 X 6 SYP No.1D, 13-15 2 X 6 SYP No.1D
6-12 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-13, 8-10
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 10=957/0-3-8, 2=1086/0-3-8
Max Horz 2=363(load case 5)
Max Uplift 10=-207(load case 7), 2=-299(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62, 2-3=-1423/506, 3-4=-1823/799, 4-5=-1119/545, 5-6=-1002/577, 6-7=-1044/606, 7-8=-1247/648, 8-9=-84/99, 9-10=-193/137
BOT CHORD 2-16=-348/1050, 15-16=-6/66, 3-15=-187/156, 14-15=-571/1504, 13-14=-571/1504, 12-13=-17/7, 6-13=-407/756, 11-12=-82/83, 10-11=-529/1249
WEBS 4-14=-55/411, 4-13=-739/437, 7-13=-298/227, 11-13=-226/918, 7-11=-106/216, 8-11=-398/326, 8-10=-1373/687

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd.
Boynton Beach, FL 33435

JOINT STRESS INDEX

2 = 0.66, 3 = 0.85, 4 = 0.41, 5 = 0.31, 6 = 0.88, 7 = 0.41, 8 = 0.66, 9 = 0.51, 10 = 0.57, 11 = 0.81, 12 = 0.44, 13 = 0.66, 14 = 0.33, 15 = 0.00 and 16 = 0.56

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925189
	T34	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 10 and 299 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925190
	T35	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:34 2008 Page 1

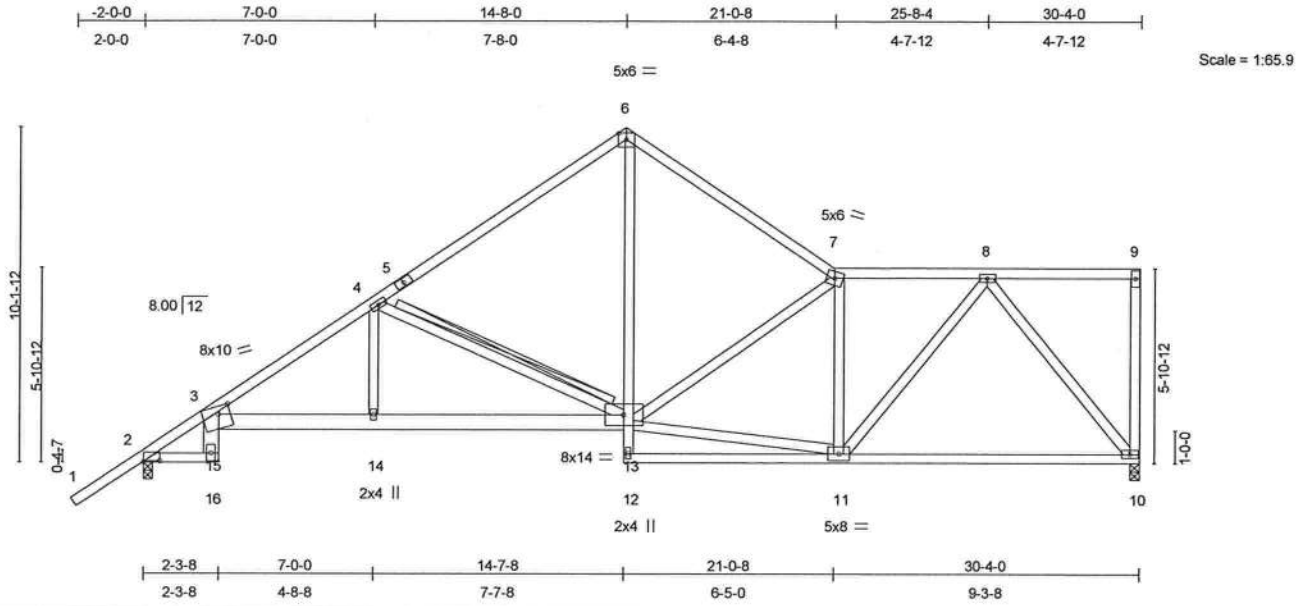


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-4-2,0-2-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.28	14-15	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.17	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 202 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-16 2 X 6 SYP No.1D, 13-15 2 X 6 SYP No.1D
6-12 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
7-3-12 oc bracing: 15-16
9-10-6 oc bracing: 14-15.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 10=957/0-3-8, 2=1086/0-3-8
Max Horz 2=384(load case 5)
Max Uplift 10=-216(load case 5), 2=-300(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-1423/508, 3-4=-1825/804, 4-5=-1115/547, 5-6=-1001/579, 6-7=-1090/591, 7-8=-1104/625, 8-9=-50/111, 9-10=-116/99
BOT CHORD 2-16=-380/1050, 15-16=-9/65, 3-15=-191/160, 14-15=-582/1504, 13-14=-582/1504, 12-13=0/78, 6-13=-366/712, 11-12=-63/144, 10-11=-217/661
WEBS 4-14=-62/420, 4-13=-741/437, 7-13=-383/293, 11-13=-366/990, 7-11=-642/355, 8-11=-316/707, 8-10=-1021/505

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925190
	T35	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.66, 3 = 0.85, 4 = 0.41, 5 = 0.31, 6 = 0.98, 7 = 0.57, 8 = 0.48, 9 = 0.28, 10 = 0.63, 11 = 0.44, 12 = 0.80, 13 = 0.58, 14 = 0.33, 15 = 0.00 and 16 = 0.56

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 10 and 300 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925191
	T36	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:36 2008 Page 1

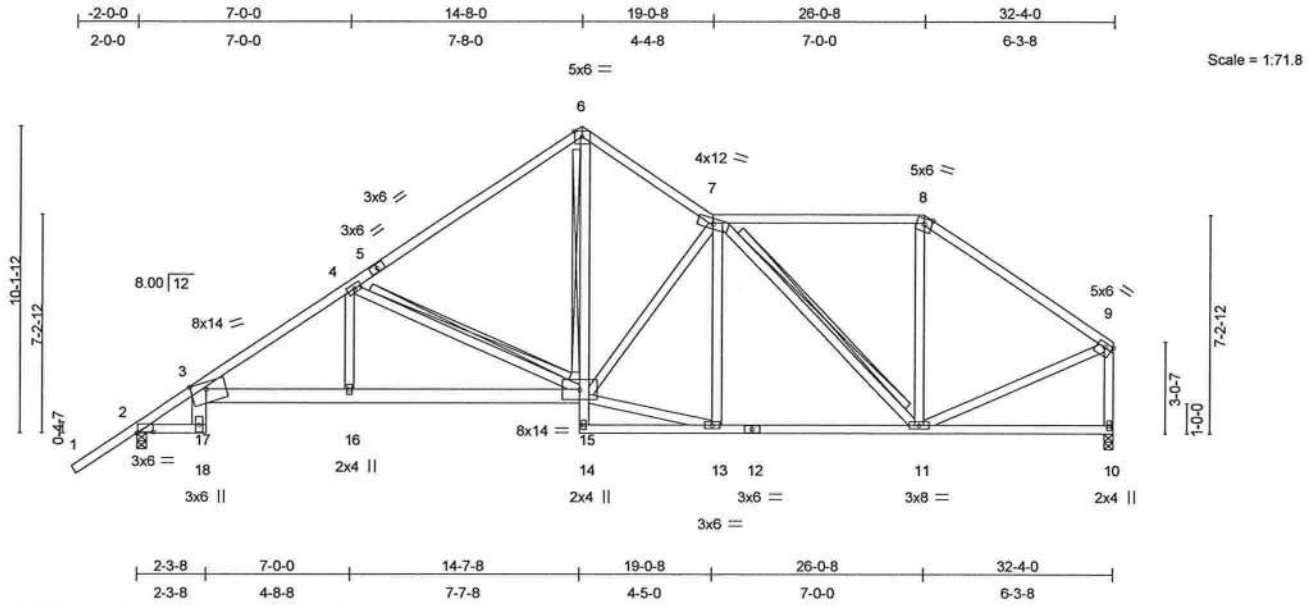


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-6-2,Edge], [9:Edge,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.16	16-17	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.31	16-17	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.18	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 217 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-18 2 X 6 SYP No.1D, 15-17 2 X 6 SYP No.1D
6-14 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
9-10 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-3-12 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 6-15
WEBS T-Brace: 2 X 4 SYP No.3 - 4-15, 7-11
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1150/0-3-8, 10=1021/0-3-8
Max Horz 2=341(load case 5)
Max Uplift 2=-308(load case 6), 10=-227(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-1530/564, 3-4=-1972/876, 4-5=-1243/612, 5-6=-1125/644, 6-7=-1185/678, 7-8=-779/520, 8-9=-1015/526, 9-10=-988/494
BOT CHORD 2-18=-385/1132, 17-18=-8/69, 3-17=-199/161, 16-17=-628/1630, 15-16=-628/1630, 14-15=0/57, 6-15=-492/919, 13-14=-77/133, 12-13=-406/1163, 11-12=-406/1163, 10-11=0/56
WEBS 4-16=-63/429, 4-15=-766/449, 7-15=-429/324, 13-15=-342/1064, 7-13=-205/122, 7-11=-546/242, 8-11=-19/257, 9-11=-265/788

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925191
	T36	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.71, 3 = 0.88, 4 = 0.41, 5 = 0.34, 6 = 0.83, 7 = 0.73, 8 = 0.72, 9 = 0.70, 10 = 0.74, 11 = 0.71, 12 = 0.39, 13 = 0.57, 14 = 0.52, 15 = 0.74, 16 = 0.33, 17 = 0.00 and 18 = 0.61

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 2 and 227 lb uplift at joint 10.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925192
	T37	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:37 2008 Page 1

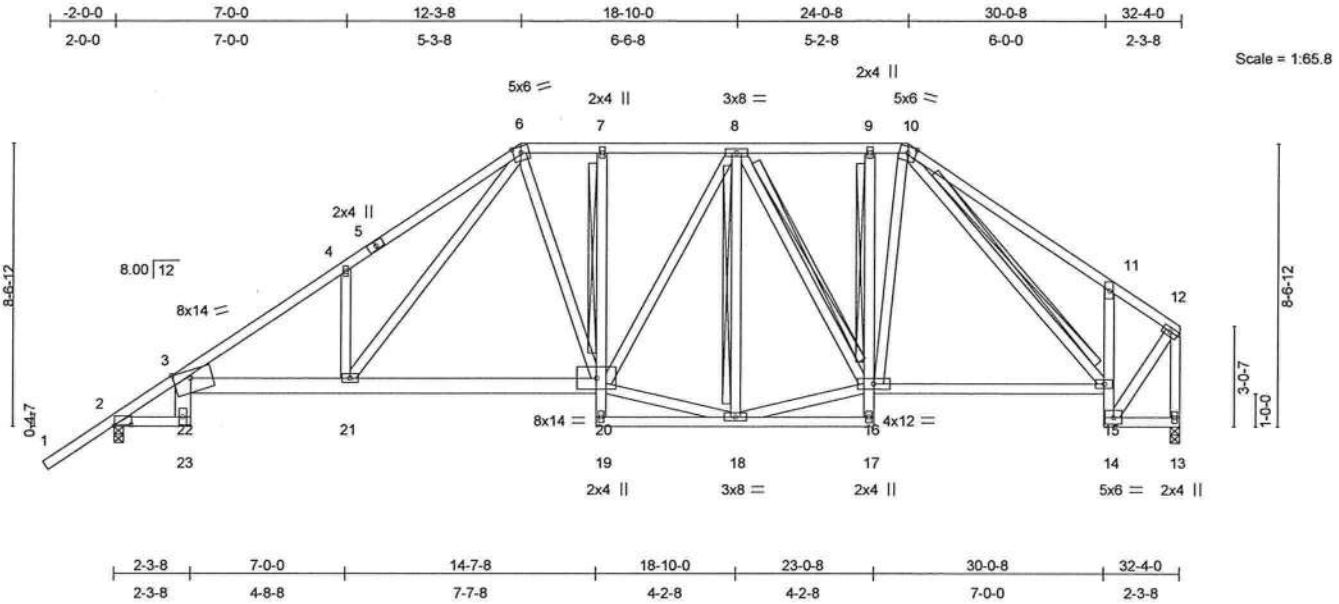


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-6-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	0.18	21-22	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.96	Vert(TL)	-0.33	21-22	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.25	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 257 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-23 2 X 6 SYP No.1D, 20-22 2 X 6 SYP No.1D
7-19 2 X 4 SYP No.3, 9-17 2 X 4 SYP No.3
11-14 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
12-13 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 7-20, 9-16
WEBS T-Brace: 2 X 4 SYP No.3 - 8-18, 8-16, 10-15
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1150/0-3-8, 13=1021/0-3-8
Max Horz 2=297(load case 5)
Max Uplift 2=-297(load case 6), 13=-173(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/62, 2-3=-1531/583, 3-4=-1953/885, 4-5=-2013/1063, 5-6=-1927/1085, 6-7=-1117/685, 7-8=-1118/688, 8-9=-933/602, 9-10=-939/603, 10-11=-865/579, 11-12=-656/358, 12-13=-1137/533
BOT CHORD 2-23=-449/1134, 22-23=-12/69, 3-22=-208/174, 21-22=-623/1601, 20-21=-393/1074, 19-20=0/60, 7-20=-161/105, 18-19=-53/101, 17-18=-67/0, 16-17=0/59, 9-16=-80/101, 15-16=-247/878, 14-15=-588/283, 11-15=-288/275, 13-14=-23/54
WEBS 4-21=-349/316, 6-21=-488/888, 6-20=-186/273, 8-20=-145/320, 18-20=-268/900, 8-18=-445/173, 8-16=-152/99, 16-18=-294/1007, 10-16=-231/506, 10-15=-411/204,

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Ray Blvd.
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925192
	T37	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.71, 3 = 0.91, 4 = 0.33, 5 = 0.39, 6 = 0.46, 7 = 0.33, 8 = 0.59, 9 = 0.33, 10 = 0.62, 11 = 0.50, 12 = 0.67, 13 = 0.40, 14 = 0.55, 15 = 0.69, 16 = 0.82, 17 = 0.46, 18 = 0.89, 19 = 0.50, 20 = 0.65, 21 = 0.62, 22 = 0.00 and 23 = 0.61

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 3.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 2 and 173 lb uplift at joint 13.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE# No. 34183
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925193
	T38	SPECIAL	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jan 10 17:42:47 2008 Page 1

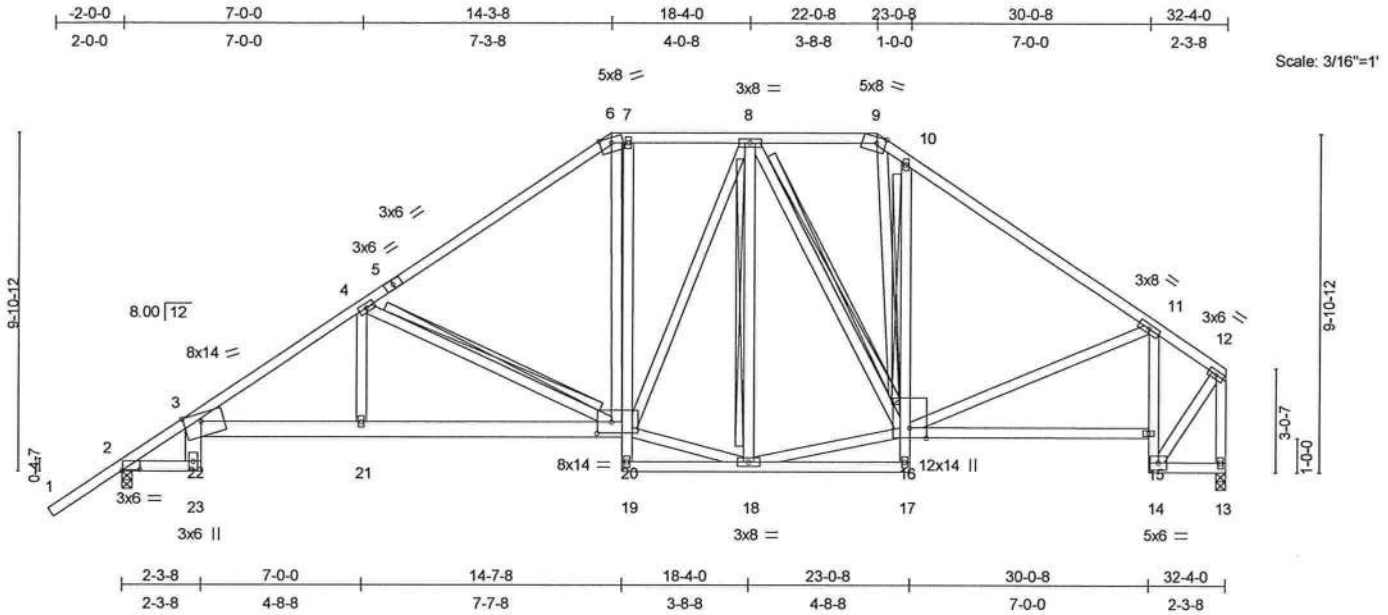


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [3:0-6-2,Edge], [9:0-3-0,Edge], [20:0-5-0,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.16	21-22	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-0.30	21-22	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.25	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 267 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-23 2 X 6 SYP No.1D, 20-22 2 X 6 SYP No.1D
7-19 2 X 4 SYP No.3, 10-17 2 X 4 SYP No.3
11-14 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
12-13 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-7-8 oc bracing.
Except:
T-Brace: 2 X 4 SYP No.3 - 10-16
WEBS T-Brace: 2 X 4 SYP No.3 - 4-20, 8-18, 8-16
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1150/0-3-8, 13=1021/0-3-8
Max Horz 2=334(load case 5)
Max Uplift 2=-306(load case 6), 13=-179(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62, 2-3=-1530/572, 3-4=-1970/885, 4-5=-1245/623, 5-6=-1135/654, 6-7=-958/640, 7-8=-946/629, 8-9=-808/567, 9-10=-1078/772, 10-11=-1160/601, 11-12=-655/351, 12-13=-1138/526
BOT CHORD 2-23=-426/1132, 22-23=-11/69, 3-22=-202/165, 21-22=-633/1625, 20-21=-633/1625, 19-20=0/48, 7-20=-238/247, 18-19=-56/98, 17-18=-46/25, 16-17=0/69, 10-16=-287/315, 15-16=-241/668, 14-15=-607/298, 11-15=-584/323, 13-14=-24/59
WEBS 4-21=-68/428, 4-20=-752/438, 8-18=-374/137, 18-20=-192/774, 8-20=-153/308, 16-18=-225/834, 8-16=-174/124, 9-16=-398/497, 11-16=-131/262, 12-14=-411/912, 6-20=-129/254

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

January 10,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	0 0 J1925193
	T38	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.73, 3 = 0.90, 4 = 0.43, 5 = 0.32, 6 = 0.64, 7 = 0.34, 8 = 0.65, 9 = 0.35, 10 = 0.75, 11 = 0.95, 12 = 0.71, 13 = 0.43, 14 = 0.57, 15 = 0.77, 16 = 0.30, 17 = 0.61, 18 = 0.75, 19 = 0.40, 20 = 0.89, 21 = 0.34, 22 = 0.00 and 23 = 0.63

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 2 and 179 lb uplift at joint 13.

LOAD CASE(S) Standard

Julius Lam
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925194
	T39	HIP	1	2	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Jan 10 17:30:39 2008 Page 1

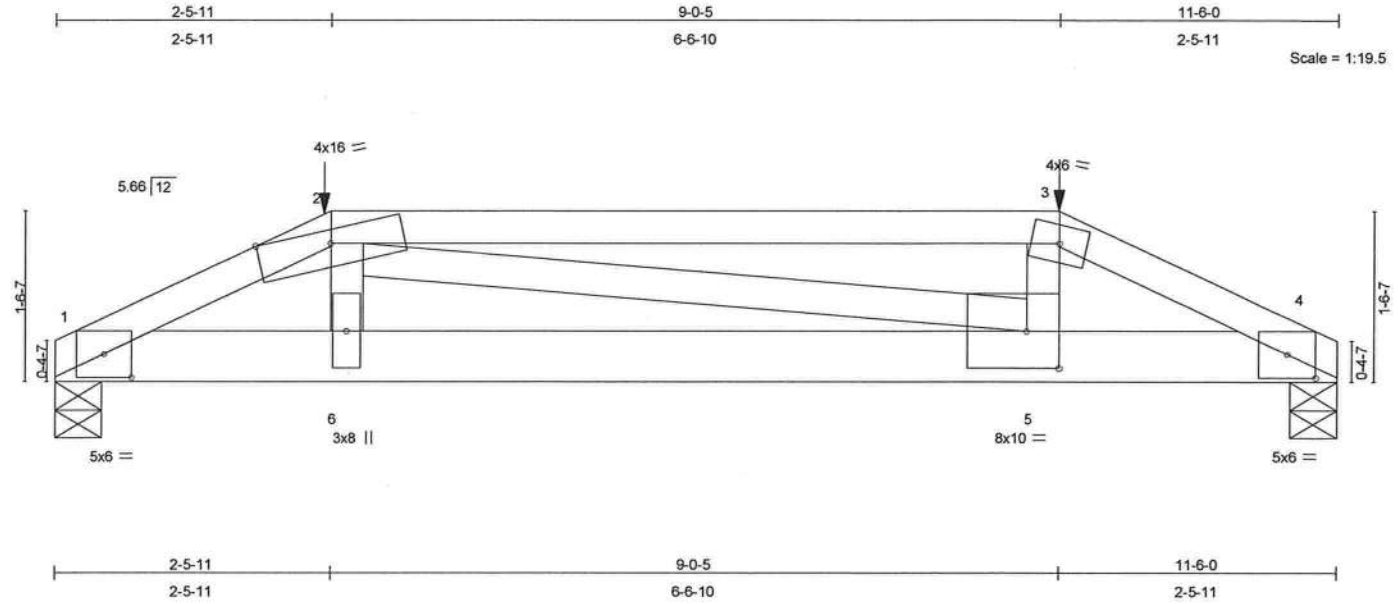


Plate Offsets (X,Y): [1:0-3-0,0-2-9], [4:0-3-0,0-2-9], [5:0-3-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.12	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.24	5-6	>563	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.42	Horz(TL)	0.03	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 113 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=3052/0-4-15, 4=3052/0-4-15
Max Horz 1=14(load case 5)
Max Uplift 1=-832(load case 4), 4=-832(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-6331/1744, 2-3=-5815/1616, 3-4=-6176/1700
BOT CHORD 1-6=-1558/5636, 5-6=-1641/5961, 4-5=-1509/5500
WEBS 2-6=-677/2613, 2-5=-192/57, 3-5=-653/2517

JOINT STRESS INDEX
1 = 0.75, 2 = 0.74, 3 = 0.63, 4 = 0.73, 5 = 0.26 and 6 = 0.41

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 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) Unbalanced roof live loads have been considered for this design.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

January 10,2008

Job	Truss	Truss Type	Qty	Ply	0 0 J1925194
	T39	HIP	1	2	Job Reference (optional)

NOTES

4) Wind: ASCE 7-02; 110mph (3-second gust); h=19ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 832 lb uplift at joint 1 and 832 lb uplift at joint 4.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

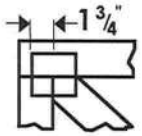
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-3=-56(F=-2), 3-4=-54, 1-4=-491(F=-481)
   Concentrated Loads (lb)
   Vert: 2=-22(F) 3=-22(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

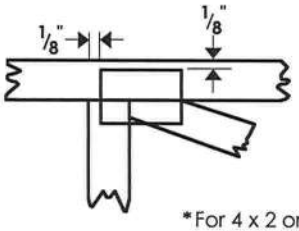
January 10,2008

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

PLATE SIZE

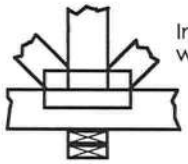
4 x 4

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

LATERAL BRACING

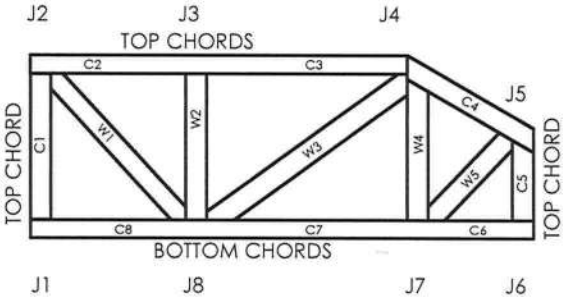
Indicates location of required continuous lateral bracing.

BEARING



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

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

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

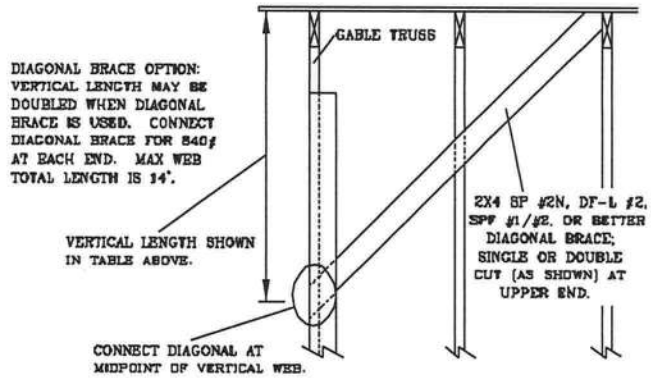
Failure to Follow Could Cause Property Damage or Personal Injury

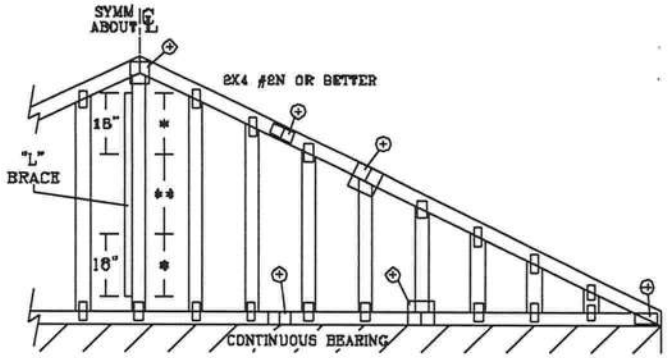
1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless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

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

MAX GABLE VERTICAL LENGTH

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

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

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

GABLE VERTICAL PLATE SIZES

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

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

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

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

No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

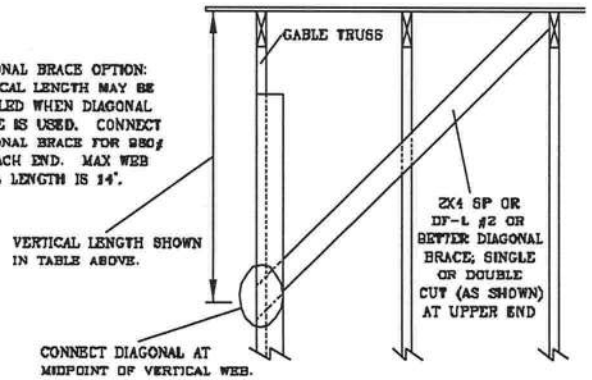
REF ASCE7-02-GAB13015
DATE 11/26/03
DRWG MITEK STD GABLE 15 E HT
-ENG

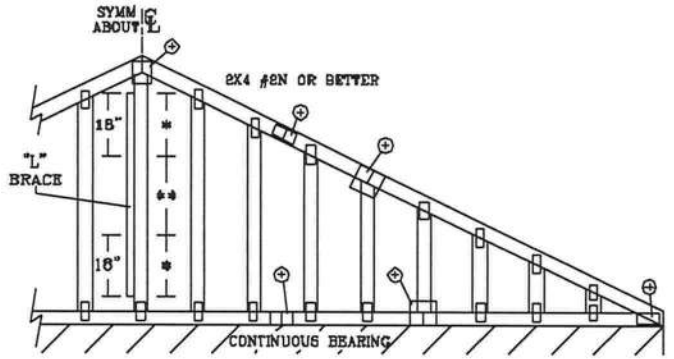
ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

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

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 950# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

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

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

GABLE VERTICAL PLATE SIZES

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

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

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

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

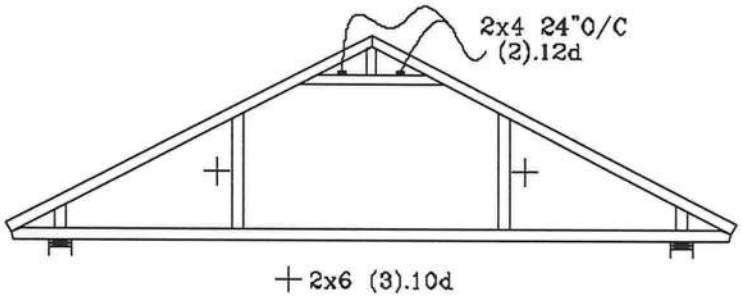
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

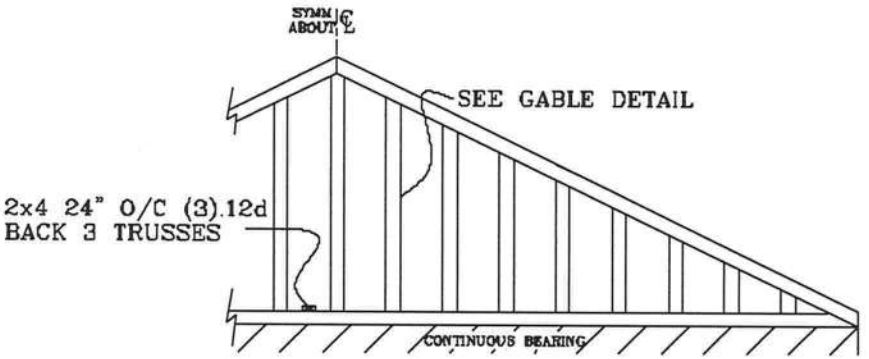
MAX. SPACING 24.0"

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

TYPICAL ATTIC TRUSS BRACING

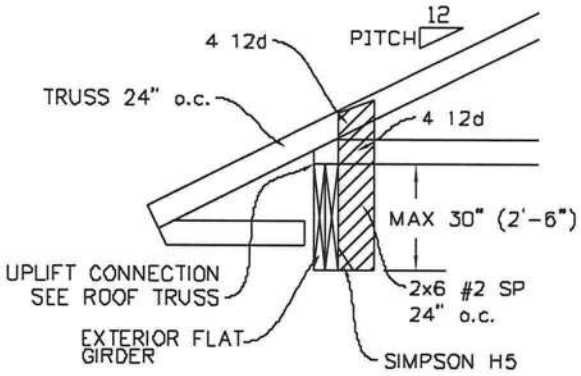


GABLE END TRUSS DETAIL

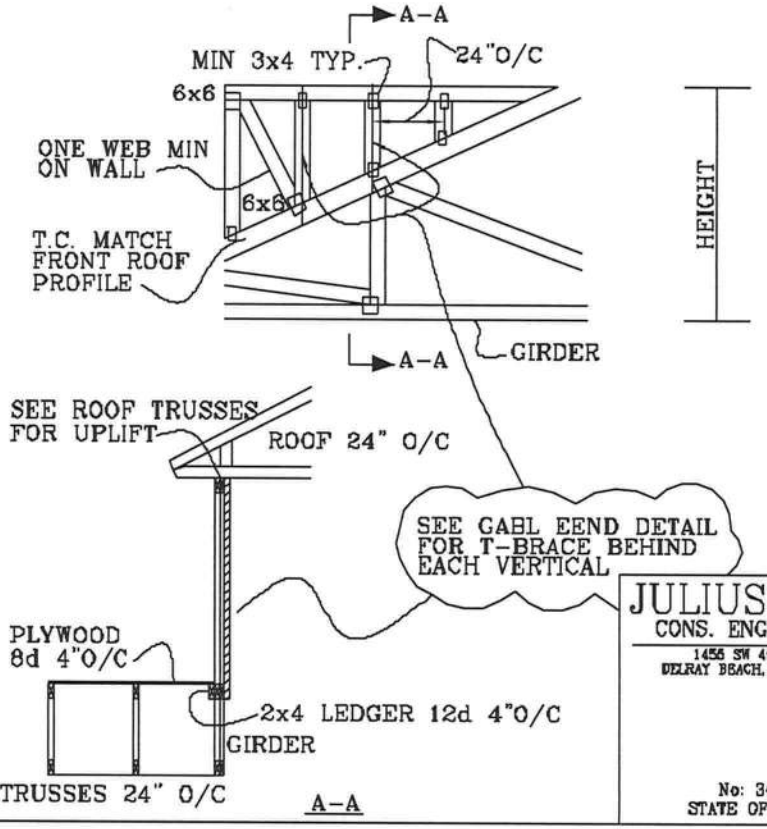


MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



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

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

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

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

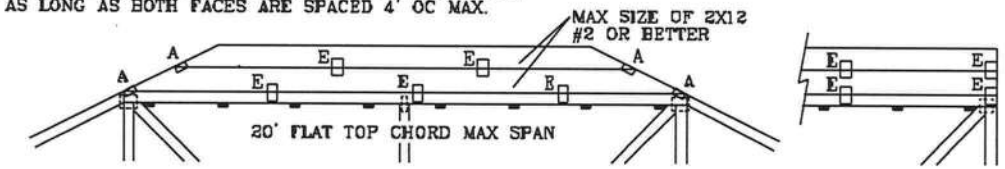
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

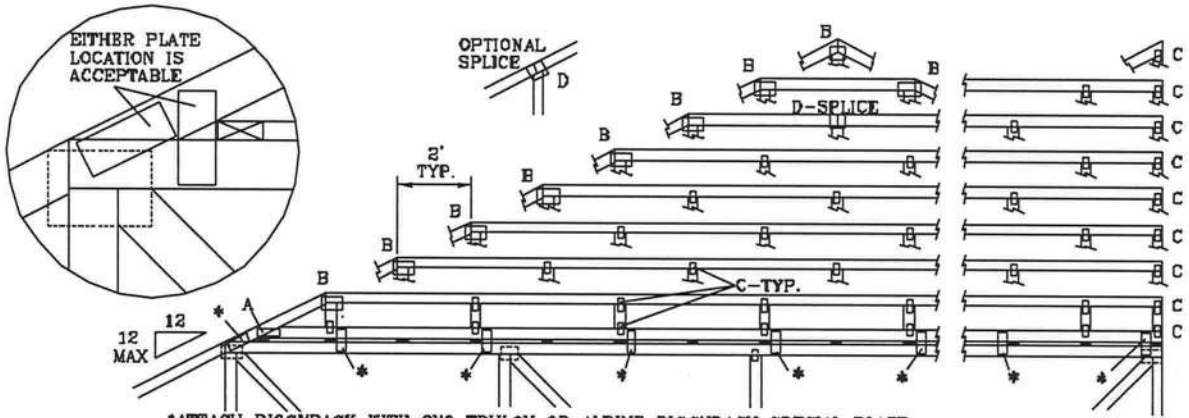
REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

- 110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF
- 130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

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





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

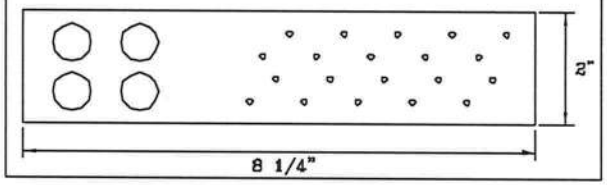
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

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

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

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



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

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

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

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

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

VALLEY TRUSS DETAIL

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

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

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

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

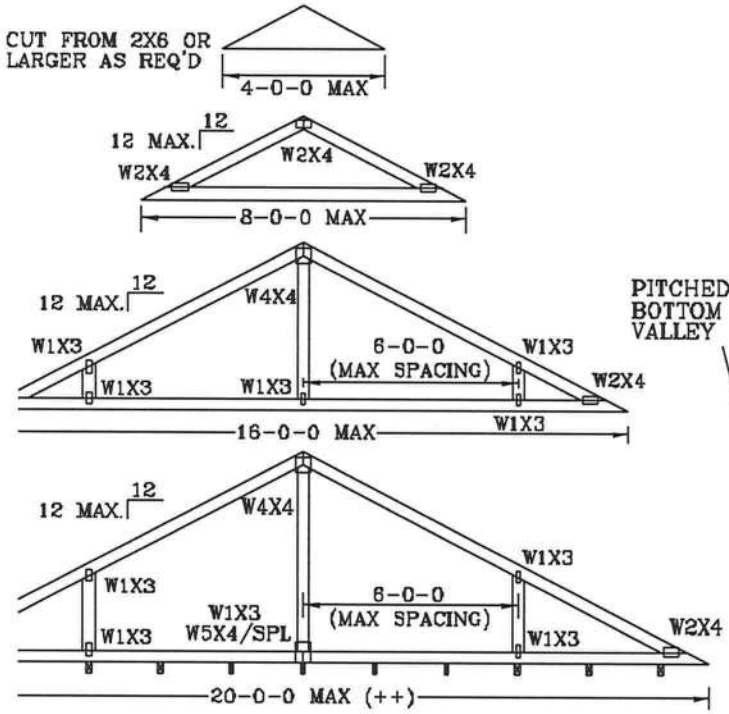
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

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

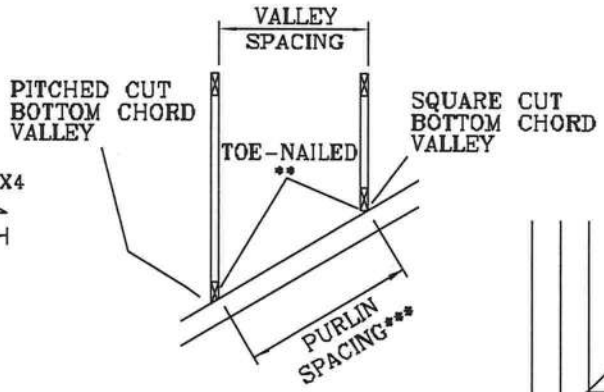
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

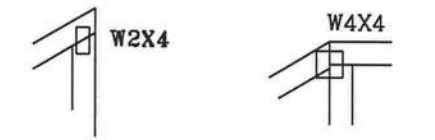
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

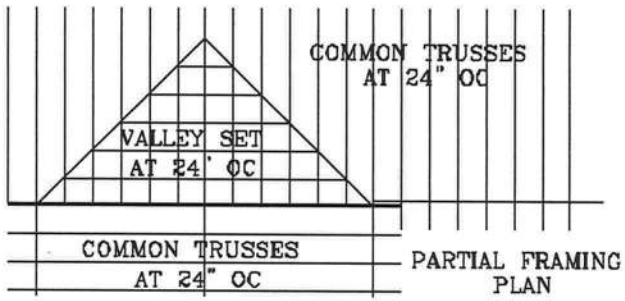
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

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

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

No: 34869
STATE OF FLORIDA

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

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

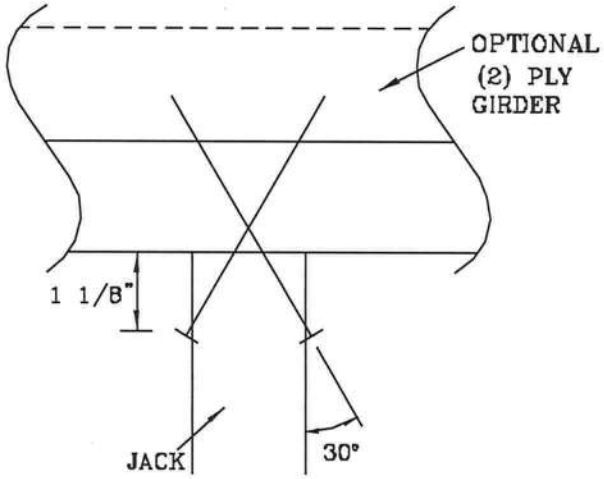
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

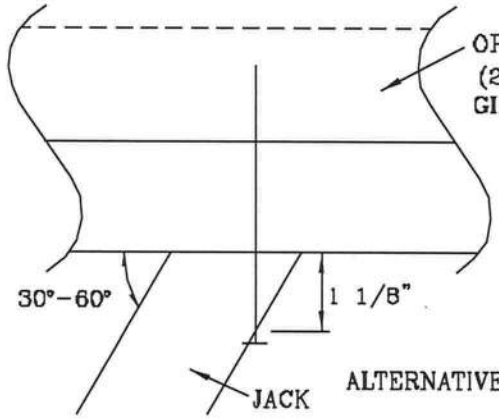
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

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





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

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

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

No: 34869
STATE OF FLORIDA

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

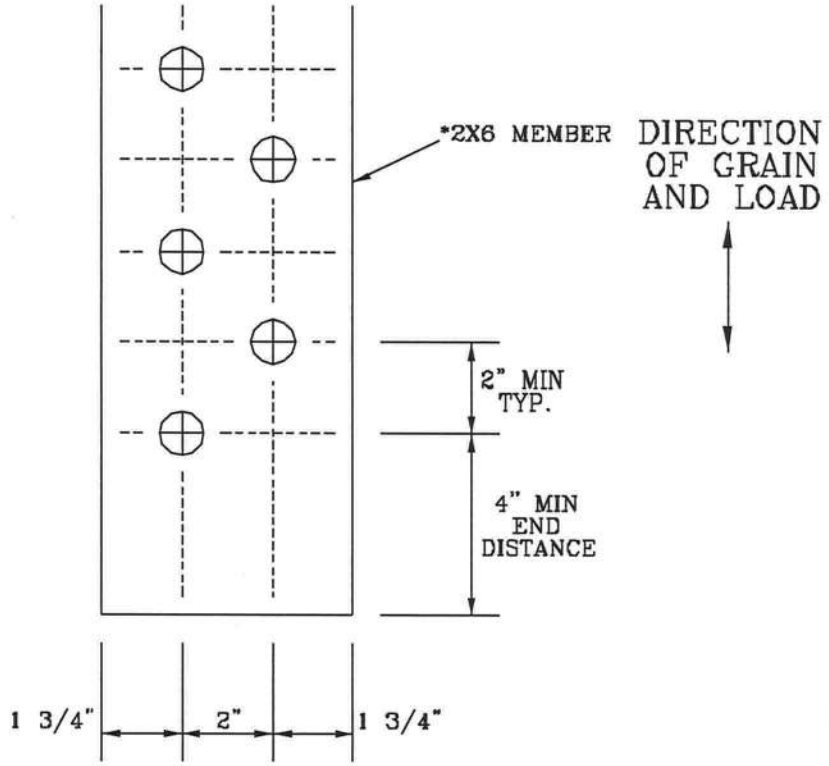
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

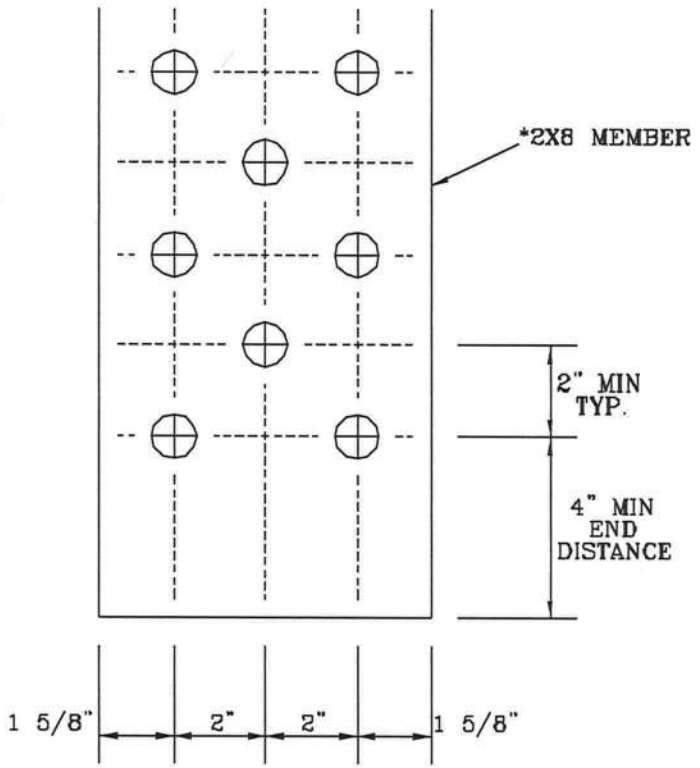
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016

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

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

No: 34869
STATE OF FLORIDA

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

TRULOX CONNECTION DETAIL

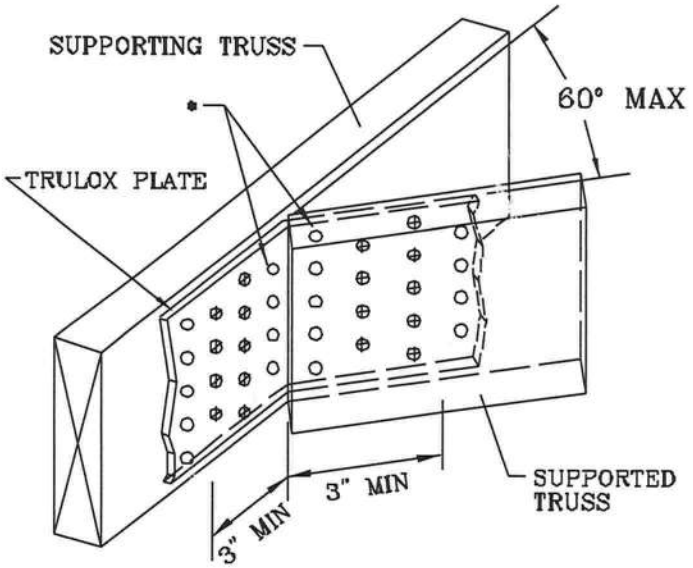
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

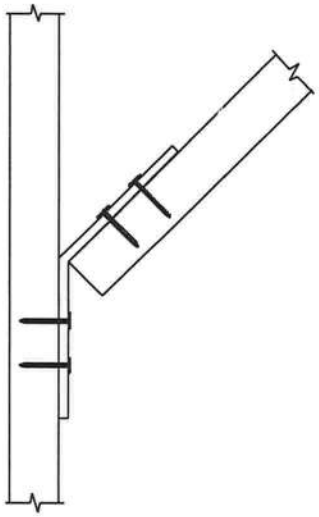
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

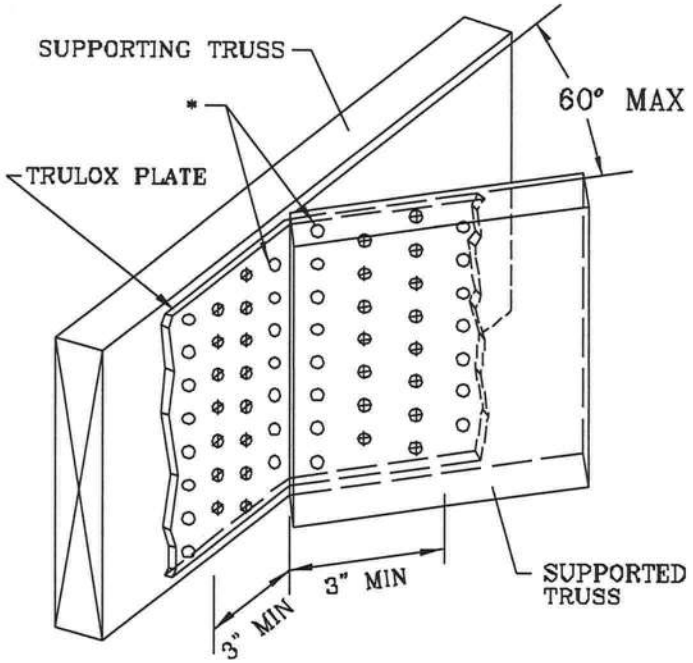
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

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

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

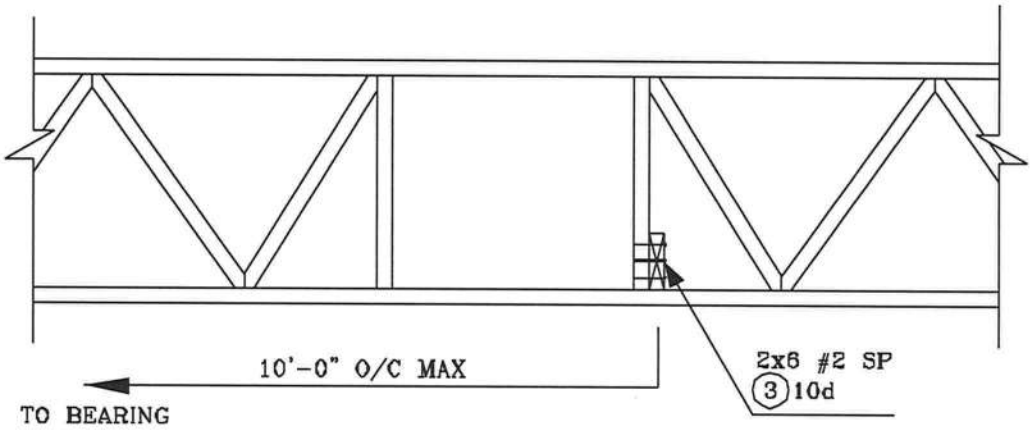
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

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

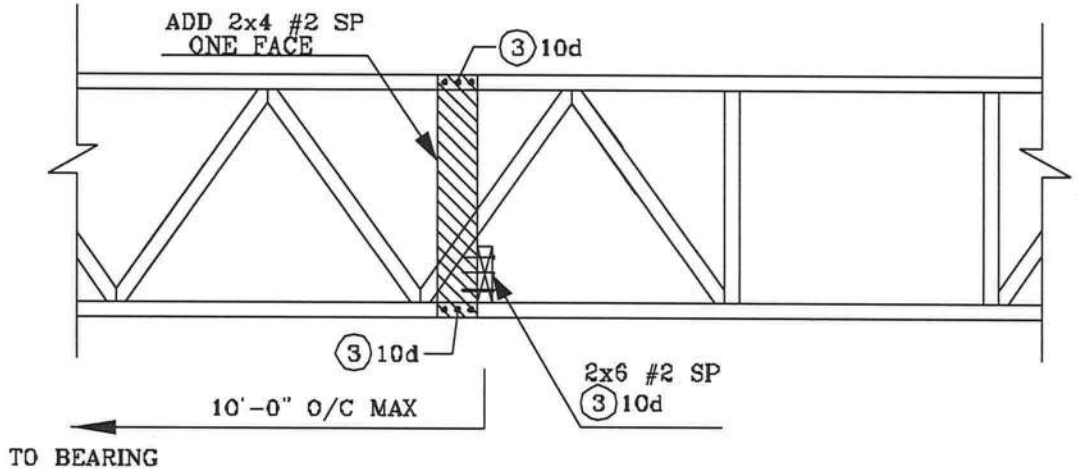
No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

STRONG BACK DETAIL
SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP

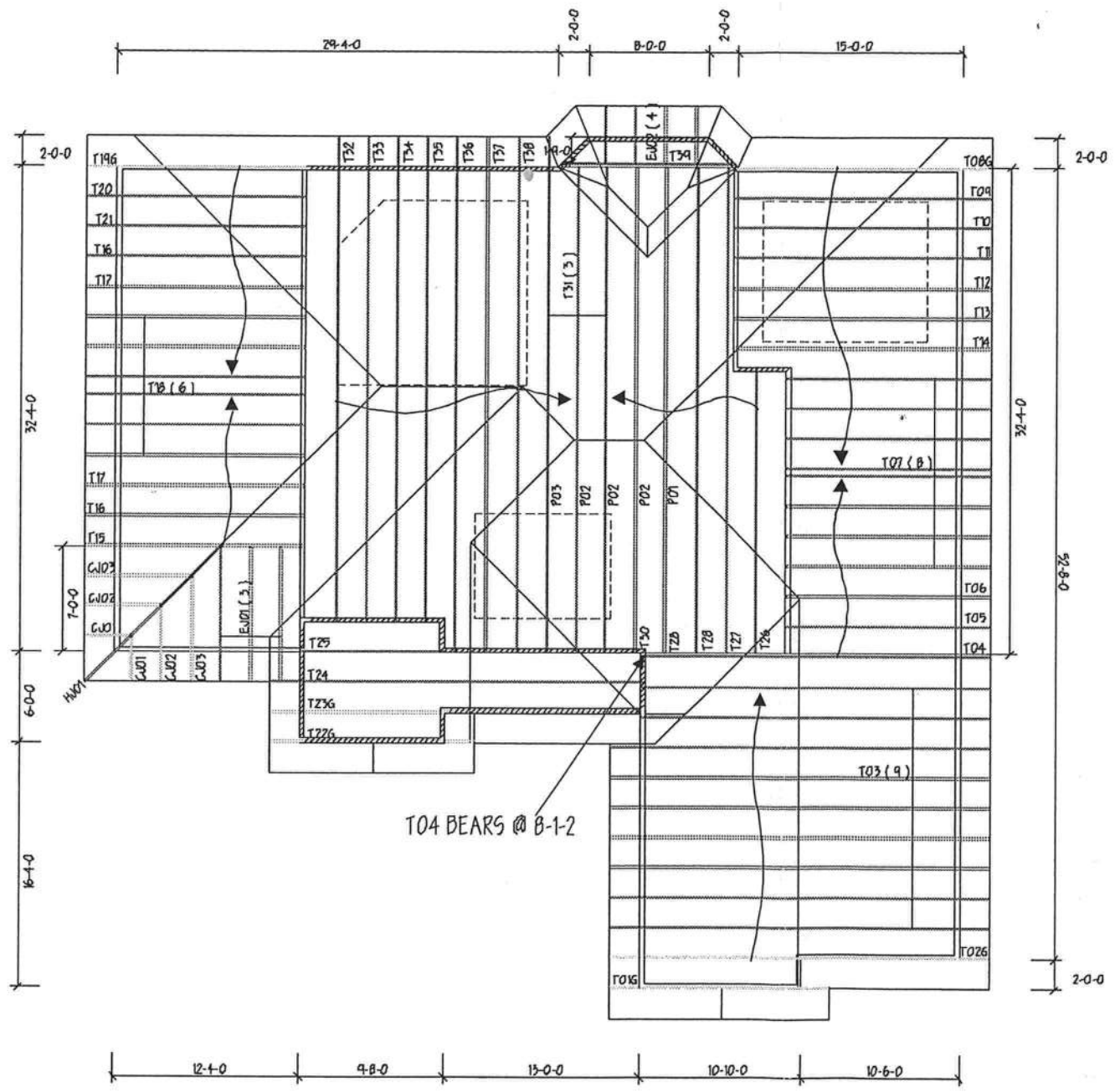


JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

CONVENTIONAL FRAME
ALL OPEN AREAS

INDICATES DIRECTION OF LAYOUT (24" O.C, U.O.N.)



BEARING HEIGHT SCHEDULE

- 8' 1-1/8"
- 10' 1-1/8"

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 V105 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) ST42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
7) BEAM/HEADER/LINTEL (TYP) TO BE FURNISHED BY BUILDER.

Builders FirstSource

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

Bunnell
PHONE: 386-437-3344 FAX: 386-437-3994

Lake City
PHONE: 386-755-6844 FAX: 386-755-7473

Sanford
PHONE: 407-322-0054 FAX: 407-322-9993

Freeport
PHONE: 850-835-4541 FAX: 850-835-6855

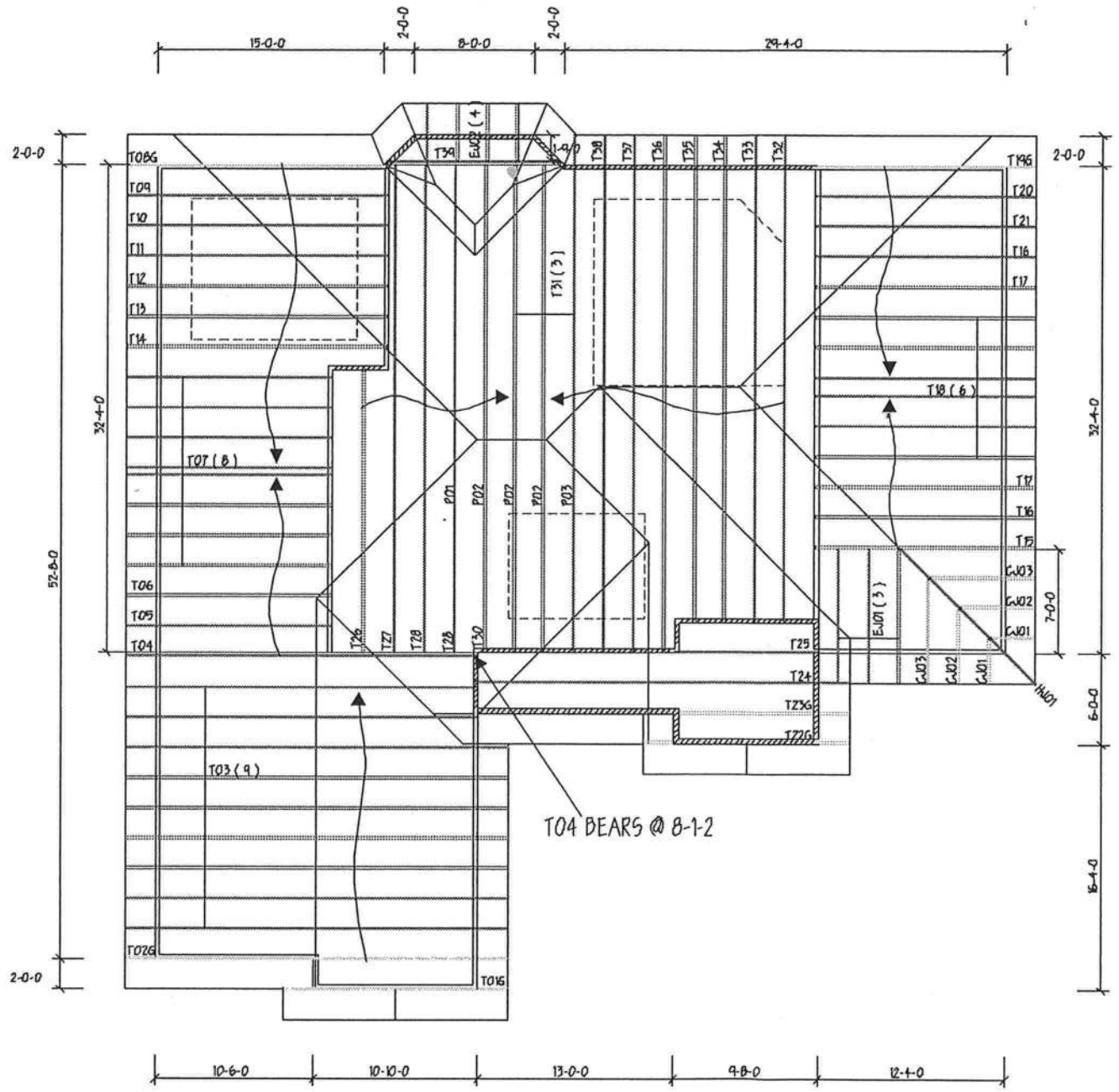
Treasure Coast
PHONE: 772-468-8160 FAX: 772-468-8181

Tampa
PHONE: 813-621-9831 FAX: 813-628-8836

BUILDER:	COMPASS BUILDERS
LEAN WINDOW:	54-1 ROLLING MEADOWS
DRWG: KAILEE	REVISION:
SCALE: NTS	
DATE: 01/10/08	PLANT: SGG
JOB#: L265564	

CONVENTIONAL FRAME
ALL OPEN AREAS

INDICATES DIRECTION OF LAYOUT (24" O.C, U.O.N.)



BEARING HEIGHT SCHEDULE

- 8' 1-1/8"
- 10' 1-1/8"

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 DESIGNED OR REFER TO DETAIL VI05 FOR ALTERNATE BRACING REQUIREMENTS.
3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
4) ALL TRUSSES ARE DESIGNED FOR 7 o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING UNLESS OTHERWISE NOTED.
6) ST42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
7) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973
Bunnell
PHONE: 386-437-3349 FAX: 386-437-3494
Lake City
PHONE: 386-755-6894 FAX: 386-755-7975
Sanford
PHONE: 407-322-0059 FAX: 407-322-5993
Freeport
PHONE: 850-835-4541 FAX: 850-835-6885
Treasure Coast
PHONE: 772-468-8160 FAX: 772-468-8181
Tampa
PHONE: 813-621-9831 FAX: 813-628-8456

BUILDER:	COMPASS BUILDERS
LEGAL ENTITY:	54-1 ROLLING MEADOWS
MODEL:	KAILEE
EDITION:	
SCALE:	NTS
DATE:	01/10/08
DRAWN BY:	SGG
JOB #:	L265564