

DA 09/20/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000024989

APPLICANT LINDA RODER PHONE 386.752.2281
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024
OWNER ISAAC HOLDINGS,INC. PHONE 386.719.7143
ADDRESS 377 SW FIELDSTONE COURT LAKE CITY FL 32055
CONTRACTOR ISAAC CONSTRUCTION,LLC PHONE 386.719.7143
LOCATION OF PROPERTY 90-W TO HEATHRIDGE DR,TL TO FIELDSTONE,TR AND ITS @ THE END
(11TH LOT DOWN ON L).

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 123150.00
HEATED FLOOR AREA 2463.00 TOTAL AREA 3524.00 HEIGHT 22.80 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC
LAND USE & ZONING RSF-2 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO.

PARCEL ID 33-3S-16-02438-154 SUBDIVISION EMERALD COVE
LOT 54 BLOCK PHASE UNIT TOTAL ACRES 0.50

000001207 CBC059323
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
18"X32"MITERED 06-0764-N BLK JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: 1 FOOT ABOVE ROAD.
Check # or Cash 6338

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic
date/app. by date/app. by date/app. by
Under slab rough-in plumbing Slab Sheathing/Nailing
date/app. by date/app. by date/app. by
Framing Rough-in plumbing above slab and below wood floor
date/app. by date/app. by
Electrical rough-in Heat & Air Duct Peri. beam (Lintel)
date/app. by date/app. by date/app. by
Permanent power C.O. Final Culvert
date/app. by date/app. by date/app. by
M/H tie downs, blocking, electricity and plumbing Pool
date/app. by date/app. by
Reconnection Pump pole Utility Pole
date/app. by date/app. by date/app. by
M/H Pole Travel Trailer Re-roof
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 620.00 CERTIFICATION FEE \$ 17.62 SURCHARGE FEE \$ 17.62
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 755.24
INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only: Application # 0608-75 Date Received 8/2/06 By G Permit # 1207-24989
 Application Approved by - Zoning Official BLK Date 30-09-06 Plans Examiner AKJTH Date 8-3-06
 Flood Zone AP-1 Development Permit N/A Zoning RSF 2 Land Use Plan Map Category RES. Lnd Dev.
 Comments 1/NOC - CR# 6328

Applicants Name Linda Roder or Melanie Roder Phone 752-2281
 Address 387 SW Kemp Court Lake City, FL 32024
 Owners Name ISAAC Construction (Isaac Holdings) Phone 719-7143
 911 Address 377 SW Field Stone Ct Lake City FL 32024
 Contractors Name Isaac Construction, LLC Phone 386-719-7143
 Address 2109 W US Hwy 90 Lake City FL 32055
 Fee Simple Owner Name & Address NA
 Bonding Co. Name & Address NA
 Architect/Engineer Name & Address WJL Myers/Mark Disosway
 Mortgage Lenders Name & Address Atlas Financial

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 33-39-16-02438-154 Estimated Cost of Construction 155 K
 Subdivision Name Emerald Cove Lot 54 Block Unit Phase
 Driving Directions Hwy 90 West Turn L on Heathridge Dr. Turn R on Fieldstone Court to end on Left (11th lot down on left)

Type of Construction SFD Number of Existing Dwellings on Property 0
 Total Acreage .5 Lot Size Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 50' side 21'8" Side 32'4" Rear 37'8"
 Total Building Height 22'8" Number of Stories 1 Heated Floor Area 2463 Roof Pitch 8-12
TOTAL 3529

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 COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (including Commission # DD329279)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 02 day of August 2006

Contractor Signature Isaac Construction
 Contractors License Number CR 659323
 Competency Card Number
 NOTARY STAMP/SEAL

Barbara C Webster

JW Talked by Linda
again 9-20-06

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0764N

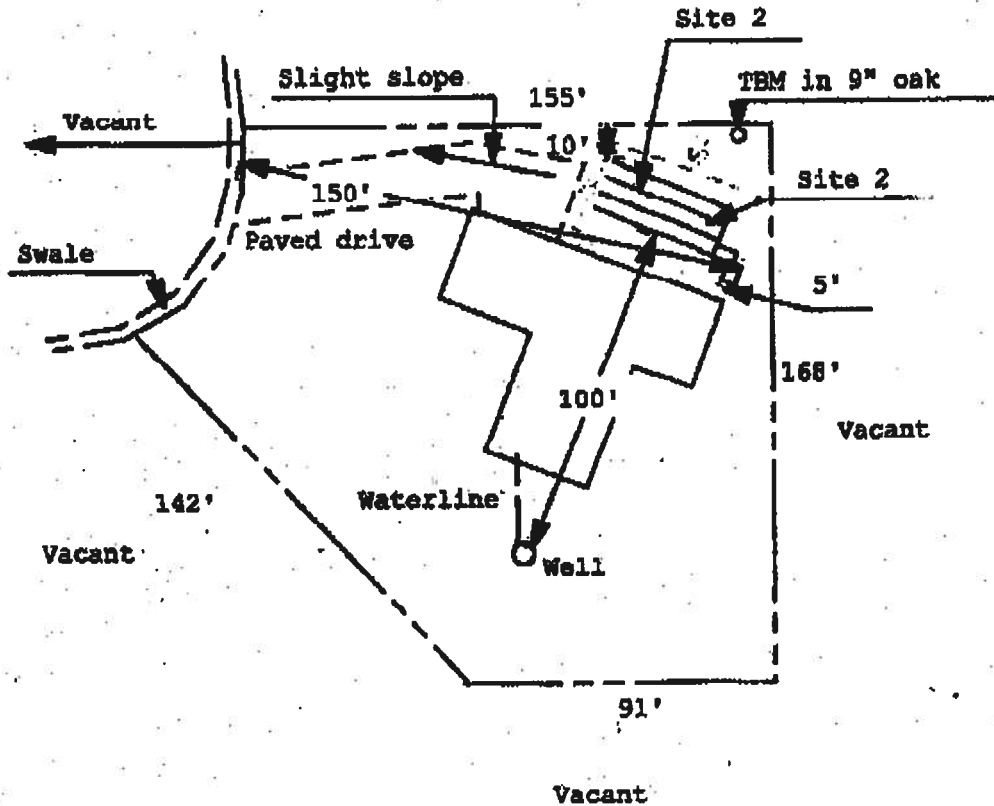
ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MIELE/CM 06-3649

Emerald Cove, Lot 54

Vacant

North



1 inch = 50 feet

Site Plan Submitted By Paul L. L... Date 8/15/06
 Plan Approved ☒ Not Approved ☐ Date 8/23/06
 By M. L. L... Columbia CPHU

Notes: _____

#06-0343

Sierra Title, LLC
619 SW Baya Dr., Ste 102
Lake City, FL 32025

Permit Number:

Tax Folio Number:

State of: Florida
 County of: Columbia

File Number: 06-0343

Inst: 2006025796 Date: 10/30/2006 Time: 16:19

S. J. DC, P. DeWitt Cason, Columbia County B: 1100 P: 1593

NOTICE OF COMMENCEMENT

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

1. Description of Property:

Lot 54, EMERALD COVE, PHASE 2, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 68-69, of the Public Records of Columbia County, Florida

2. General Description of Improvements: Construction of Single Family Residence

3. Owner Information:

a. Name and Address: Robert F. Miele, and his wife Stephanie L. Miele
 1960 Bearview Drive, Apopka, FL 32703

b. Interest in property: Fee Simple

c. Names and address of the simple title holder (if other than owner):

STATE OF FLORIDA, COUNTY OF COLUMBIA
 I HEREBY CERTIFY that the above and foregoing
 is a true copy of the original filed in this office.
 P. DeWITT CASON, CLERK OF COURTS

By: Sharon Seagle
 Deputy Clerk

Date: 10-30-2006

4. Contractor: Isaac Construction, LLC
 144 SW Waterford Court, Suite 101, Lake City, Florida 32025

5. Surety:

6. Lender: National City Bank, 400 International Pkwy
 Ste 150, Heston, Florida 32746

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

8. In addition to himself, Owner designates the following persons to receive a copy of the Lender's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified):

Rob & H2 10/26/06
 ROBERT F. MIELE
Stephanie L. Miele 10/24/06
 STEPHANIE L. MIELE

State of Virginia
 County of Hanover

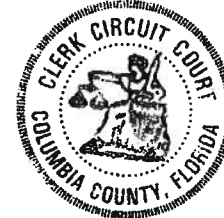
Sworn to and subscribed before me October 26, 2006 by ROBERT F. MIELE who is personally known to me or who did provide Driver's License as identification.

Notary Public
 My Commission Expires: 12/31/07

State of Florida
 County of SEMINOLE

Sworn to and subscribed before me October 27, 2006 by STEPHANIE L. MIELE who is personally known to me or who did provide as identification.

Notary Public
 My Commission Expires: May 23rd 2010



24383

Corporate Warranty Deed

Inst:2006025794 Date:10/30/2006 Time:16:19
Doc Stamp-Deed : 350.00
DC, P. DeWitt Cason, Columbia County B:1100 P:1566

This Indenture, made this October 30th, 2006 A.D.

Between

ISAAC HOLDINGS, INC., a Florida corporation, whose post office address is:
144 SW Waterford Court, Ste 101, Lake City, FL 32025, Grantor and ROBERT F.
MIELE and his wife, STEPHANIE L. MIELE whose post office address is:
1960 Bearview Drive, Apopka, FL 32703, Grantee,

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:

Lot 54, EMERALD COVE, PHASE 2, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 68-69, 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:

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, 2005.

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.

Isaac Holdings, Inc.
a Florida corporation

Signed and Sealed in Our Presence:

By:

Isaac Bratkovich
Its: President

Melinda M. Weaver
Witness Print Name: MELINDA M. WEAVER

Lisa Kraus
Witness Print Name: Lisa Kraus

State of Florida
County of Columbia

(Corporate Seal)

The foregoing instrument was acknowledged before me this 30th day of October, 2006, by Isaac Bratkovich, the President of Isaac Holdings, Inc., a Florida corporation, on behalf of the corporation.
He is personally known to me or has produced Drivers License as identification.

Notary Public
Notary Printed Name: Lisa Kraus

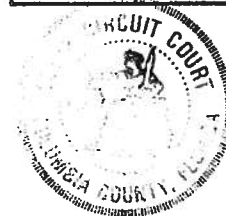
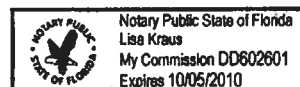
My Commission Expires::

#06-0343

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

STATE OF FLORIDA COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DEWITT CASON, CLERK OF COURTS

By: Sharon Teague
Deputy Clerk
Date: 10-30-2006



24589

PREPARED BY AND RETURN TO:

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

Property Appraiser's
Identification Number R-02438-000

Inst:2006007778 Date:03/29/2006 Time:13:41
Doc Stamp-Deed : 945.00

TM File No: 06-124

16 DC, P. DeWitt Cason, Columbia County B:1078 P:2659

WARRANTY DEED

This Warranty Deed, made this 24th day of March, 2006, BETWEEN D D P CORPORATION, a Florida corporation, whose post office address is 4158 US Highway 90 West, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantor*, and ISAAC HOLDINGS, INC., a Florida corporation, whose post office address is 144 SW Waterford Court, Suite 101, Lake City, FL 32025, grantee*.

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

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

Lot 51, 54 and 56, Emerald Cove, Phase 2, a subdivision according to the plat thereof recorded in Plat Book 8, Pages 68-69, public records, Columbia County, Florida.

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

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

D D P CORPORATION


(Signature of First Witness)
TERRY McDAVID
(Typed Name of First Witness)

BY:  (SEAL)
O. P. Daughtry, III,
President

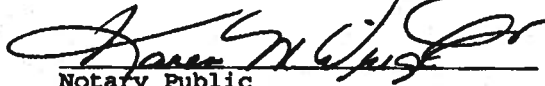
(Corporate Seal)


(Signature of Second Witness)
KAREN M. WRIGHT
(Typed Name of Second Witness)

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 24th day of March, 2006, by O. P. Daughtry, III, President of D D P Corporation, a Florida corporation, on behalf of said corporation, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

My Commission Expires:


Notary Public
Printed, typed, or stamped name:



Inst:2006007778 Date:03/29/2006 Time:13:41
Doc Stamp-Deed : 945.00
DC,P.Dewitt Cason,Columbia County B:1078 P:2660

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001207

DATE 09/20/2006 PARCEL ID # 33-3S-16-02438-154

APPLICANT LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER ISAAC HOLDINGS, INC. PHONE 386.719.7143

ADDRESS 377 SW FIELDSTONE COURT LAKE CITY FL 32055

CONTRACTOR ISAAC CONSTRUCTION, LLC PHONE 386.719.7143

LOCATION OF PROPERTY 90-W TO HEATHRIDGE DR, TL TO FIELDSTONE, TR AND IT'S @ THE END ON THE L.
(11TH LOT DOWN ON L).

SUBDIVISION/LOT/BLOCK/PHASE/UNIT EMERALD COVE 54

SIGNATURE 

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length 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.



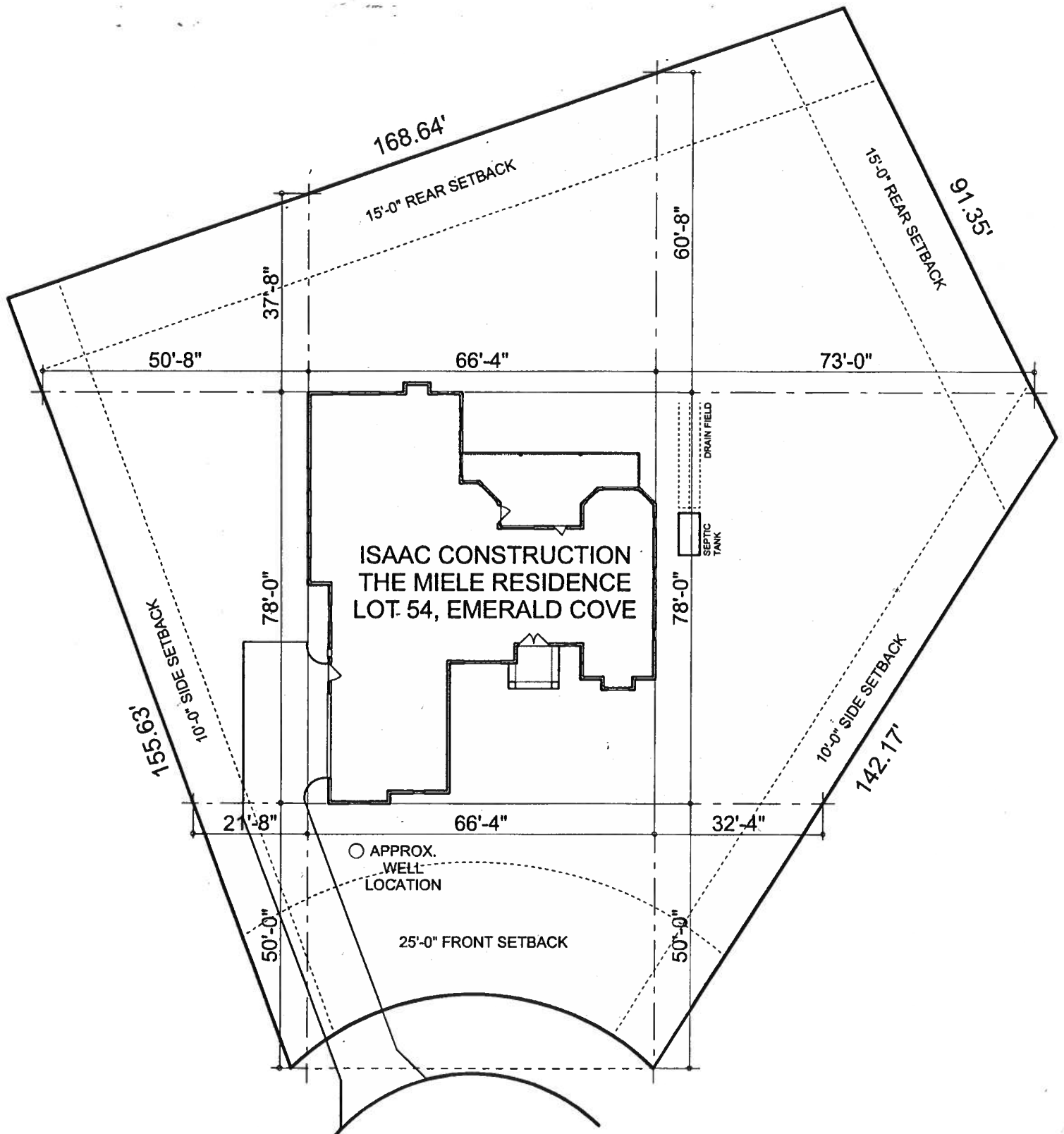
Other _____

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION 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





SCALE: 1" = 25'

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	Isaac Construction - Miele	Builder:	Isaac Construction
Address:	Lot: 54, Sub: Emerald Cove, Plat:	Permitting Office:	Columbia
City, State:	Lake City, FL 32025-	Permit Number:	
Owner:	Robert & Stephanie Miele	Jurisdiction Number:	22100e
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 60.0 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)	2463 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 60.0 kBtu/hr
(or Single or Double DEFAULT) 7a(Sngle Default)	435.8 ft²		HSPF: 7.60
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	435.8 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Stem Wall	R=0.0, 2463.0ft²	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1707.2 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 164.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT,
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 2600.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 60.0 ft		
b. N/A			

Glass/Floor Area: 0.18

Total as-built points: 31983

Total base points: 33066

PASS

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

PREPARED BY: Jon Moccis

DATE: 8-2-06

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

OWNER/AGENT: Isaac Miele

DATE: 8-14-06

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 54, Sub: Emerald Cove, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2463.0	20.04	8884.5	Single, Clear	W	1.5	10.0	15.0	43.84	0.98	643.7
				Single, Clear	W	1.5	10.0	42.0	43.84	0.98	1802.4
				Single, Clear	N	1.5	10.0	28.0	21.73	0.98	597.4
				Single, Clear	N	2.5	10.0	28.0	21.73	0.94	571.1
				Single, Clear	W	6.5	10.0	17.5	43.84	0.65	496.1
				Single, Clear	NW	10.5	10.0	28.0	29.42	0.63	518.6
				Single, Clear	N	15.5	10.0	23.0	21.73	0.65	324.7
				Single, Clear	W	15.5	10.0	42.0	43.84	0.44	815.5
				Single, Clear	W	15.5	10.0	13.3	43.84	0.44	258.2
				Single, Clear	SW	6.5	10.0	15.0	45.75	0.59	406.0
				Single, Clear	W	6.5	10.0	30.0	43.84	0.65	850.5
				Single, Clear	NW	1.5	8.0	15.0	29.42	0.96	425.1
				Single, Clear	N	1.5	8.0	20.0	21.73	0.97	420.3
				Single, Clear	N	1.5	8.0	6.0	21.73	0.97	126.1
				Single, Clear	N	1.5	10.0	24.0	21.73	0.98	512.0
				Single, Clear	E	1.5	10.0	6.0	47.92	0.98	281.3
				Single, Clear	E	1.5	10.0	49.0	47.92	0.98	2297.0
				Single, Clear	S	1.5	8.0	30.0	40.81	0.92	1130.4
				Single, Clear	S	1.5	8.0	4.0	40.81	0.92	150.7
				As-Built Total:		435.8			12627.2		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	164.0	0.70	114.8	Frame, Wood, Exterior	13.0		1707.2	1.50		2560.8	
Exterior	1707.2	1.70	2902.2	Frame, Wood, Adjacent	13.0		164.0	0.60		98.4	
Base Total: 1871.2 3017.0				As-Built Total:		1871.2		2659.2			
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	20.0	1.60	32.0	Adjacent Insulated			20.0	1.60		32.0	
Exterior	0.0	0.00	0.0								
Base Total: 20.0 32.0				As-Built Total:		20.0		32.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	2463.0	1.73	4261.0	Under Attic	30.0		2600.0	1.73 X 1.00		4498.0	
Base Total: 2463.0 4261.0				As-Built Total:		2600.0		4498.0			

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 54, Sub: Emerald Cove, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES	Area	X	BSPM = Points	Type	R-Value	Area	X SPM = Points
Slab	0.0(p)	0.0	0.0	Stem Wall	0.0	2463.0	-4.70 -11576.1
Raised	2463.0	-3.99	-9827.4				
Base Total:			-9827.4	As-Built Total:		2463.0	-11576.1
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
	2463.0	10.21	25147.2			2463.0	10.21 25147.2
Summer Base Points: 31514.4				Summer As-Built Points: 33387.5			
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier X Credit Multiplier = Cooling Points
31514.4	0.4266		13444.1	(sys 1: Central Unit 60000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R8.0(INS) 33387	1.00 (1.09 x 1.000 x 1.00)	0.263	0.950 9076.7
				33387.5	1.00	1.090	0.263 0.950 9076.7

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 54, Sub: Emerald Cove, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	2463.0	12.74	5648.2	Single, Clear	W	1.5	10.0	15.0	28.84	1.01	435.1
				Single, Clear	W	1.5	10.0	42.0	28.84	1.01	1218.2
				Single, Clear	N	1.5	10.0	28.0	33.22	1.00	930.3
				Single, Clear	N	2.5	10.0	28.0	33.22	1.00	932.4
				Single, Clear	W	6.5	10.0	17.5	28.84	1.12	563.4
				Single, Clear	NW	10.5	10.0	28.0	32.93	1.03	945.5
				Single, Clear	N	15.5	10.0	23.0	33.22	1.02	781.6
				Single, Clear	W	15.5	10.0	42.0	28.84	1.21	1461.9
				Single, Clear	W	15.5	10.0	13.3	28.84	1.21	462.9
				Single, Clear	SW	6.5	10.0	15.0	24.09	1.36	493.0
				Single, Clear	W	6.5	10.0	30.0	28.84	1.12	965.8
				Single, Clear	NW	1.5	8.0	15.0	32.93	1.00	494.3
				Single, Clear	N	1.5	8.0	20.0	33.22	1.00	665.0
				Single, Clear	N	1.5	8.0	6.0	33.22	1.00	199.5
				Single, Clear	N	1.5	10.0	24.0	33.22	1.00	797.4
				Single, Clear	E	1.5	10.0	6.0	26.41	1.01	160.5
				Single, Clear	E	1.5	10.0	49.0	26.41	1.01	1310.5
				Single, Clear	S	1.5	8.0	30.0	20.24	1.04	632.1
				Single, Clear	S	1.5	8.0	4.0	20.24	1.04	84.3
				As-Built Total:			435.8			13533.7	
WALL TYPES		Area X BWPM = Points		Type	R-Value		Area X WPM		= Points		
Adjacent	164.0	3.60	590.4	Frame, Wood, Exterior	13.0		1707.2	3.40	5804.5		
Exterior	1707.2	3.70	6316.6	Frame, Wood, Adjacent	13.0		164.0	3.30	541.2		
Base Total:		1871.2	6907.0	As-Built Total:		1871.2		6345.7			
DOOR TYPES		Area X BWPM = Points		Type			Area X WPM		= Points		
Adjacent	20.0	8.00	160.0	Adjacent Insulated			20.0	8.00	160.0		
Exterior	0.0	0.00	0.0								
Base Total:		20.0	160.0	As-Built Total:		20.0		160.0			
CEILING TYPES		Area X BWPM = Points		Type	R-Value		Area X WPM X WCM =		Points		
Under Attic	2463.0	2.05	5049.1	Under Attic	30.0		2600.0	2.05 X 1.00	5330.0		
Base Total:		2463.0	5049.1	As-Built Total:		2600.0		5330.0			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 54, Sub: Emerald Cove, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points			
Slab	0.0(p)	0.0	0.0	Stem Wall	0.0	2463.0 3.50 8620.5			
Raised	2463.0	0.96	2364.5						
Base Total:		2364.5		As-Built Total:		2463.0 8620.5			
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
2463.0 -0.59 -1453.2				2463.0 -0.59 -1453.2					
Winter Base Points:		18675.7		Winter As-Built Points:		32536.8			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points
18675.7		0.6274	11717.1	(sys 1: Electric Heat Pump 60000 btuh ,EFF(7.6) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 32536.8 1.000 (1.069 x 1.000 x 1.00) 0.449 0.950 14825.7					
				32536.8 1.00 1.069 0.449 0.950 14825.7					

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 54, Sub: Emerald Cove, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Total	Volume	Bedrooms		Ratio	Multiplier
Bedrooms									
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	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
13444		11717		7905		33066	9077		14826
									8081
									31983

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 54, Sub: Emerald Cove, 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 circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.2

The higher the score, the more efficient the home.

Robert & Stephanie Miele, Lot: 54, Sub: Emerald Cove, Plat: , Lake City, FL, 32025-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 60.0 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 (ft ²)	2463 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 60.0 kBtu/hr
(or Single or Double DEFAULT)	7a(Sngle Default) 435.8 ft ²		HSPF: 7.60
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 435.8 ft ²	c. N/A	
8. Floor types			
a. Stem Wall	R=0.0, 2463.0ft ²	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.90
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 1707.2 ft ²	c. Conservation credits	
b. Frame, Wood, Adjacent	R=13.0, 164.0 ft ²	(HR-Heat recovery, Solar	
c. N/A		DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	PT,
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 2600.0 ft ²	PT-Programmable Thermostat,	
b. N/A		MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 60.0 ft		
b. N/A			

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.*

Energy Code Compliance

Duct System Performance Report

Project Name: Isaac Construction - Miele Address: City, State: Lake City, FL 32025- Owner: Robert & Stephanie Miele Climate Zone: North	Builder: Isaac Construction Permitting Office: Permit Number: Jurisdiction Number:
--	---

Total Duct System Leakage Test Results

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

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

Signature: _____
Printed Name: _____
Florida Rater Certification #: _____
DATE: _____

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



BUILDING OFFICIAL: _____
DATE: _____

FROM :

FRK NO. : 386-755-7022

Sep. 17 2002 01:52PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (804) 788-1234
FAX (804) 788-7022
JENNIFER HALL
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

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

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

Thank you,


Donald D. Hall
DDH/jk



From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: **0608-75**

Contractor Isaac Construction Owner Isaac Construction property ID# 33-3s-16-2438-154 Lot 54 of Emerald Cove Subdivision

On the date of August 25, 2006 application 0608-75 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0608-75 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

To help ensure compliance with the Florida Residential Code 2004 the comments below need to be addressed on the plans.

- 1.** Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
- 2.** Please submit a recorded (with the Columbia County Clerk Office) notice of commencement before any inspections can be preformed by the Columbia County Building Department.
- 3.** In the garage area show compliance with the FRC-2004 sections R309 R309.1

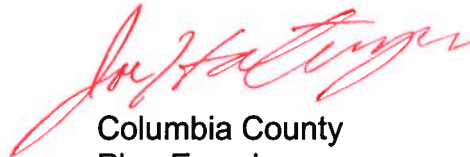
Opening protection: Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.
- 4.** The attic access opening (pull down ladder type attic egress door) in the garage ceiling shall have the same protection requirements of FRC-2004 C: R309.2

Separation required. The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35

mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

5. In the garage area show compliance with the FRC-2004 sections R309.1.1 Duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

Joe Haltiwanger



Columbia County
Plan Examiner



FLORIDA BUILDING CODE

- Overview
- User Registration
- Organization Registration
- User Authentication
- Organization Search
- Organization Accreditation

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

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308597000	Product Manufacturer	01/01/2009	Approved
Org Code: PDM		System ID: 3085		Site Link: www.gadco.com		

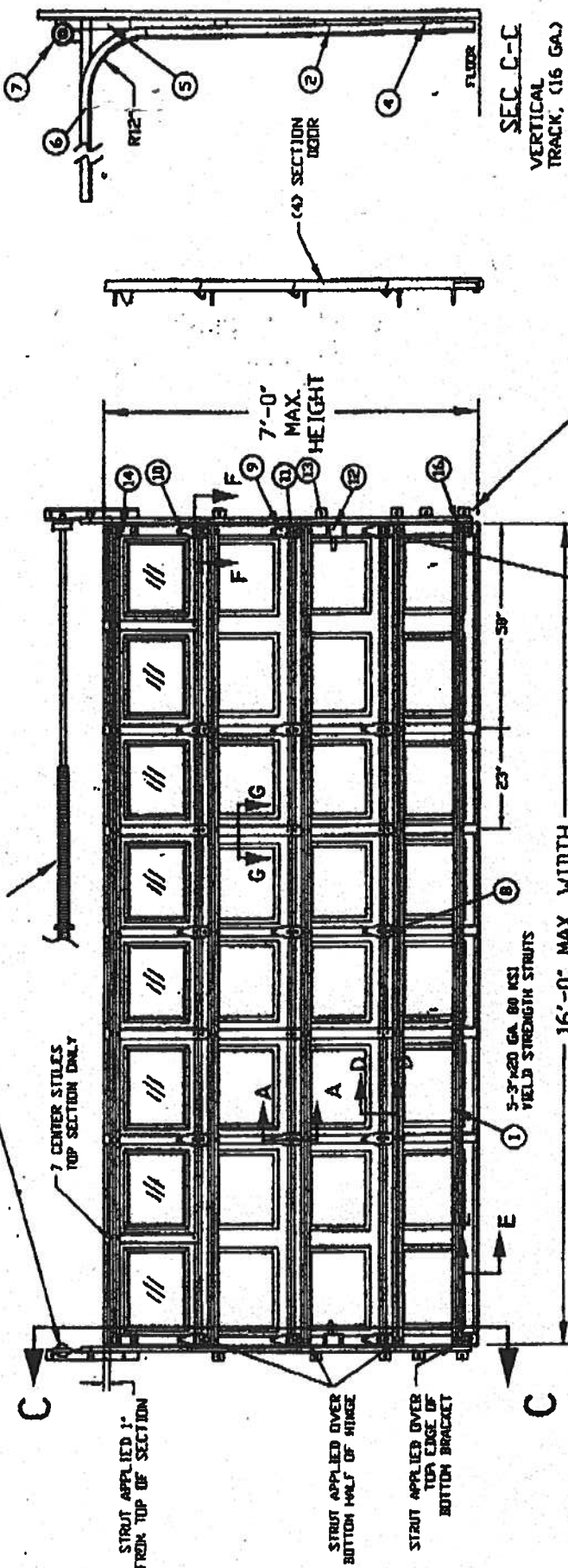
Displaying 1-1 of 1

Copyright 2004 Columbia Door Company. All rights reserved. This software is the property of Columbia Door Company and is not to be distributed, copied, or otherwise used without the express written permission of Columbia Door Company.

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT: 21'
3. SECTION HEIGHTS OF 21'0" AND 19'0" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS
4. VISIONS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" HSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION
5. MAXIMUM LENGTH OF ROLLER STUD IS 3/4" AS TESTED
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWAL
7. STRUTS SECURED AT ALL LOCATIONS WITH TIE SCREWS
8. QUANTITY OF SIDE LOCKS CAN BE Q1 OR Q2 AS TESTED
9. DROP IN TYPE OF INSULATION IS OPTIONAL

NOT PART OF VOID LOAD SYSTEM
EXTENSION SPRING COUNTERBALANCE
TORSION SPRING COUNTERBALANCE



SEC C-C
VERTICAL
TRACK, (16 GA.)

12 GA. JAMB BRACKETS, MAXIMUM SPACING = 19-1/2" WITH
LOWEST BRACKET APPROX. 3" FROM FLOOR, 2ND BRACKET
NEAR THE HORIZONTAL 6" OF THE BOTTOM SECTION, AND 3RD
BRACKET NEAR THE TOP OF THE BOTTOM SECTION

ALL ROLLER CARRIERS
AND HINGES ARE 14 GA.

INSIDE ELEVATION

DESIGN LOAD +200 PSF & -200 PSF
TEST LOAD +300 PSF & -300 PSF



GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

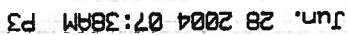
GADED DOORS
SERIES 7400, EXTERIOR STEEL = 0.017 MIN GAS TESTED
SERIES 7825, EXTERIOR STEEL = 0.017 MIN A
SERIES 7524, EXTERIOR STEEL = 0.024 MIN A
(TESTED WITH VISIONS)

DATE: 10-20-10	APPROVED BY: A. VICKHAM
REVISED: (A) 11-10-20	
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD 20 PSF	
PROJECT NUMBER: VI3220-1	PAGE 1 OF 2



REPORT No. 2202

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



2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2X6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" FASTENERS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION" SST9 10, CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUILDINGS STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2500 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4".
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, AND AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

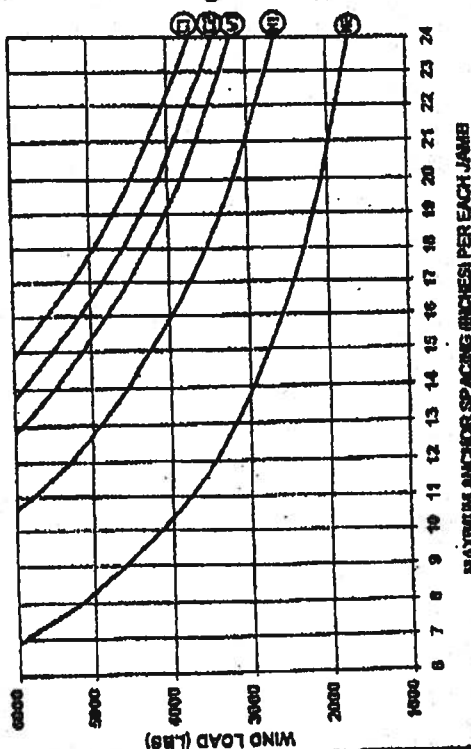
① CONCRETE EMBEDMENT
MIN. 3" FOR 1/2" DIA.
1-5/8" EMBEDMENT

② CONCRETE EMBEDMENT
MIN. 3" FOR 1/2" DIA.
1-5/8" EMBEDMENT

③ REINFORCED CONCRETE
MIN. 3" FOR 1/2" DIA.
1-5/8" EMBEDMENT

④ REINFORCED CONCRETE
MIN. 3" FOR 1/2" DIA.
1-5/8" EMBEDMENT

⑤ WOOD STUD EMBEDMENT
LAG SCREWS
5/16" DIA.
1-1/2" EMBEDMENT



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

MAXIMUM ANCHOR SPACING (INCHES) PER EACH JAMB

EXAMPLE

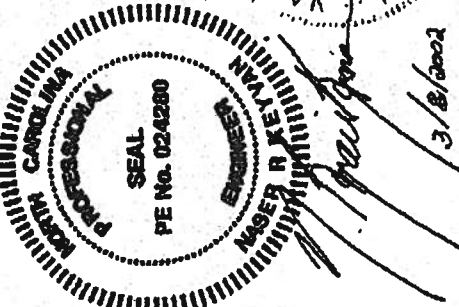
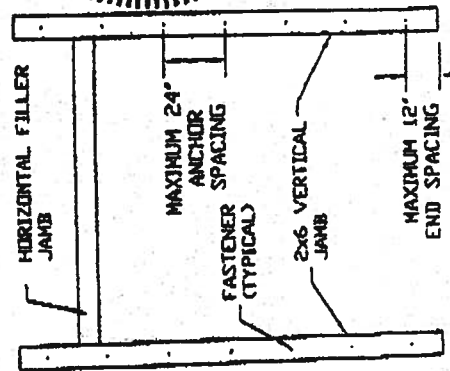
30 LBS X 0.6 FT WIDE X 8 FT HIGH = 3640 LBS

① USE 22" SPACING

② USE 21" SPACING

③ USE 19" SPACING

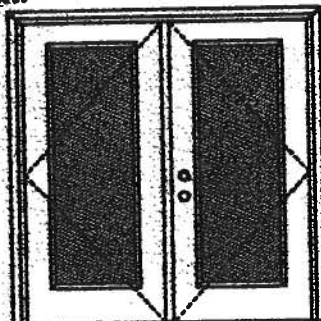
SEE NOTE 11 FOR ADDITIONAL
REQUIRED 2X6 WOOD JAMB ANCHORS



GENERAL AMERICAN DOOR COMPANY	
5600 BASILAR ROAD MONTGOMERY, IL 60538	
DATE: 8-30-99	REVISED BY: DV
SUBJECT: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS	
PROJECT NO: 10560	REVISION: 1

XX**Glazed Outswing Unit**

COP-WL-JH1162-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:**

Double Door
Minimum unit size = 6'0" x 6'0"

Design Pressure
+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

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

Note:

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:**1/4 GLASS:**

100 Series



130, 135 Series



135 Series



600 Series



622 Series

1/2 GLASS:

105 Series*



106, 160 Series*



120 Series*



200 Series*



12 RA, 20 RA, 34 RA Series*



107 Series*



108 Series



304 Series

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

Johnson
EntrySystems

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

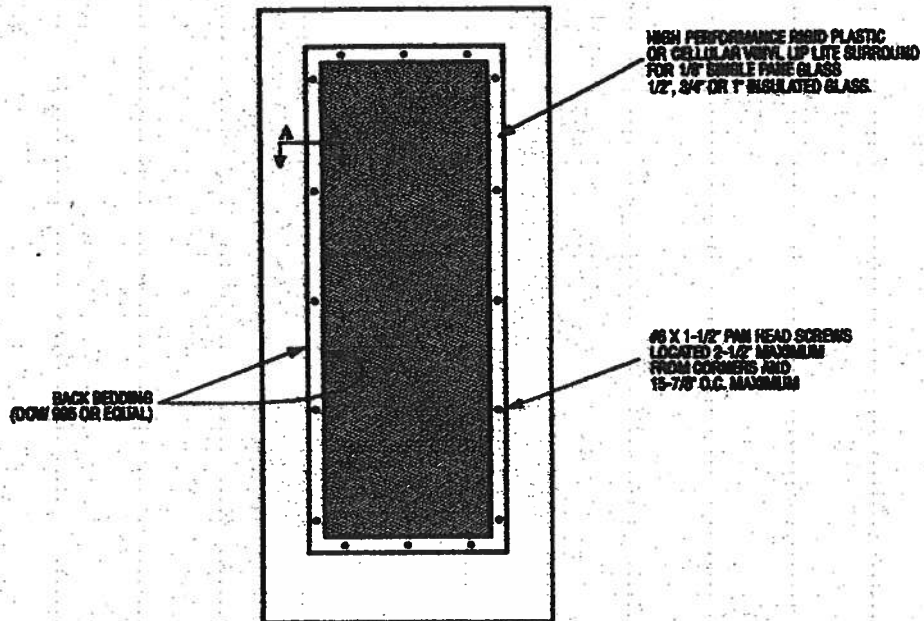
PREMDORICollection
Premium Quality Doors



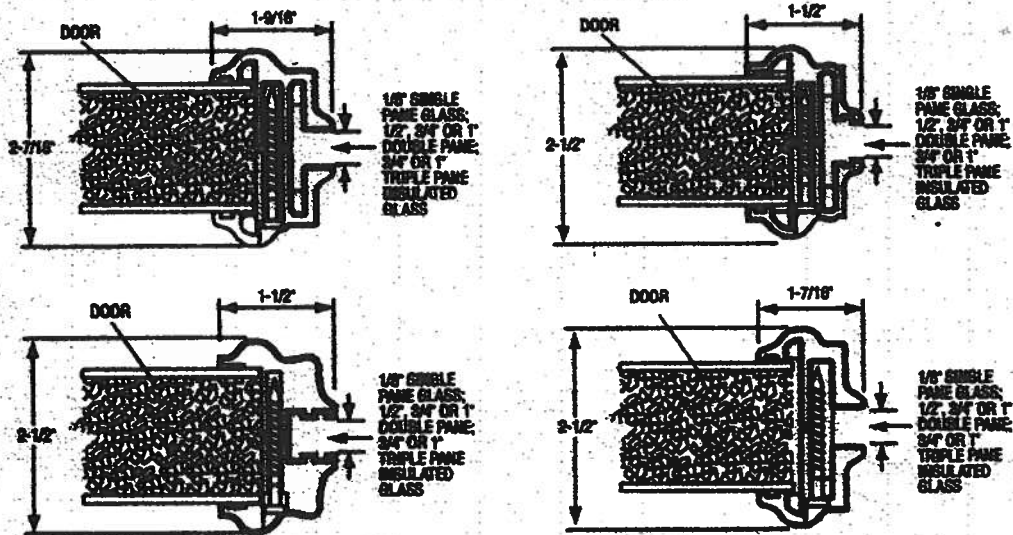
Exclusively from

Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX

Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

404 Series



410 Series



450 Series

FULL GLASS:

100 Series



114, 120, 132 Series



152 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

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

Johnson
EntrySystems

March 25, 2002

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PRENDOR
Premium Quality Doors



Exclusively from

Masonite

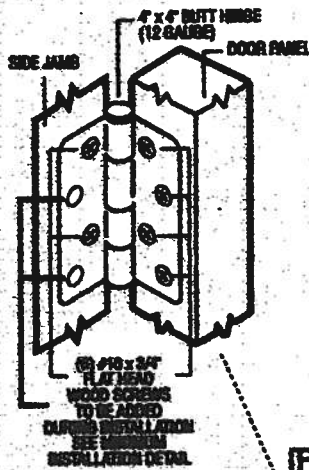
Masonite International Corporation

XX
Unit

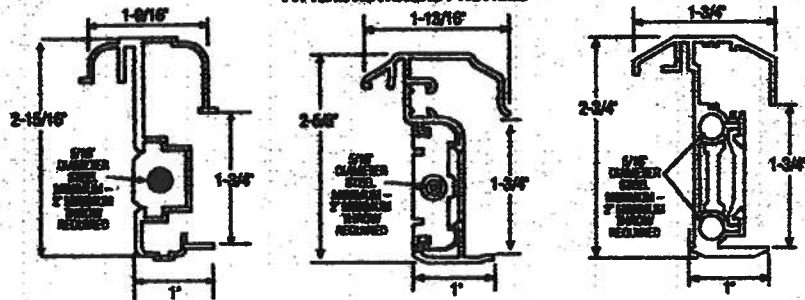
11AD-WL 11A0012-02

OUTSWING UNITS WITH DOUBLE DOOR

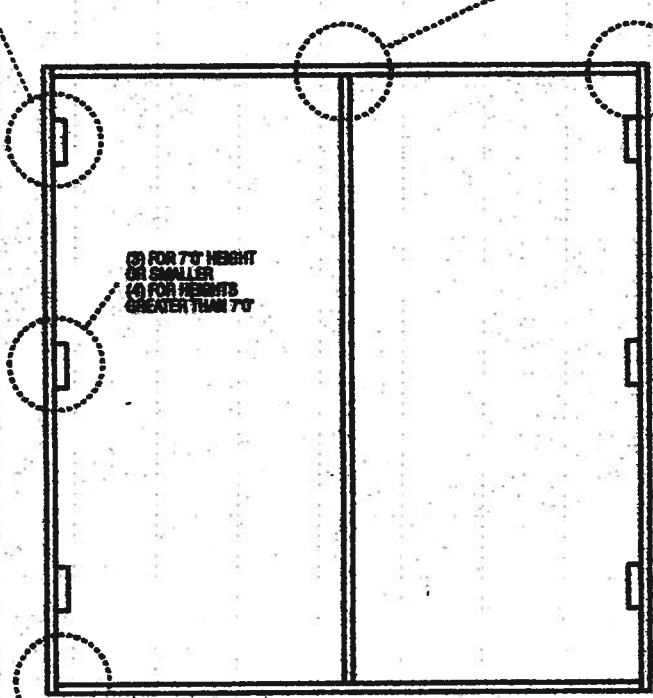
TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAGAL PROFILES



ALUMINUM EXTRUDED ASTRAGAL (0.08\"/>



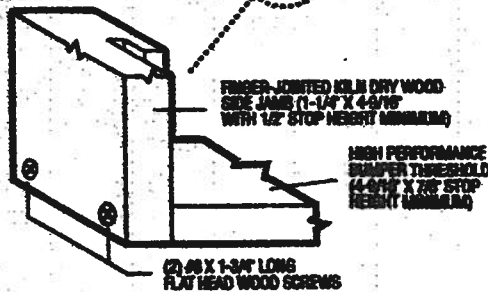
TYPICAL HEADER & SIDE JAMP ATTACHMENT

FINGER-JOINTED KILN DRY WOOD
FRAME HEADER (1-1/4\"/>

(3) 2\"/>

FINGER-JOINTED
KILN DRY WOOD
SIDE JAMP
(1-1/4\"/>

TYPICAL THRESHOLD & SIDE JAMP ATTACHMENT



March 25, 2002
Our ongoing program of product improvement makes specifications,
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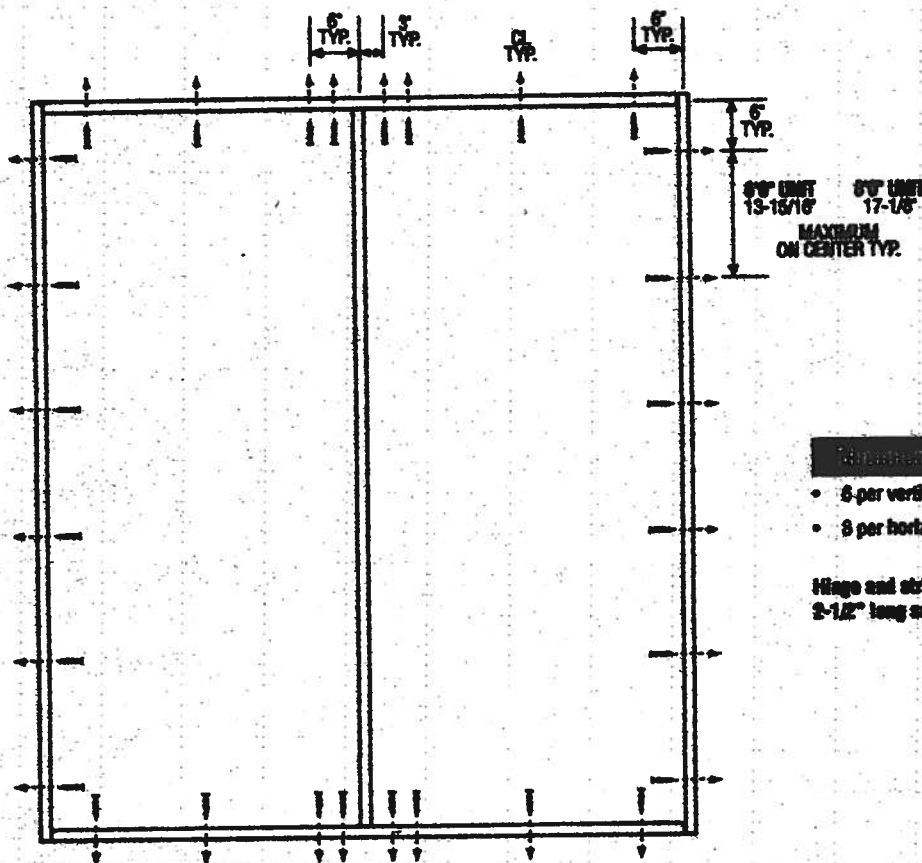


Exclusively from
Masonite
Masonite International Corporation

XX
Unit

MID-WL MA0002-02

DOUBLE DOOR



Minimum Fastener Count

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

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

Latching Hardware:

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

Notes:

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

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



**AAMA/NWWDA 101/LS-2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

**SERIES/MODEL: 650 Fm
TYPE: Aluminum Single Hung Window**

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess
Mark A. Hess, Technician

MAH:nb

Allen R. Reeves
1 APRIL 2002



II

Architectural Testing

AAMA/NWWDA 101/LS-2-97 TEST REPORT

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

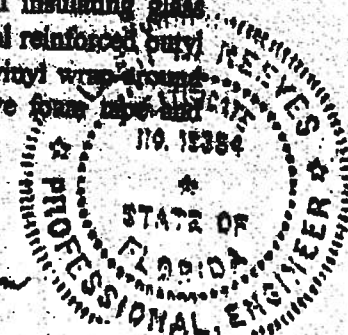
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

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

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

Allen G. Reeves
1 APRIL 2002



III

Test Specimen Description: (Continued)

Weatherstripping:

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

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

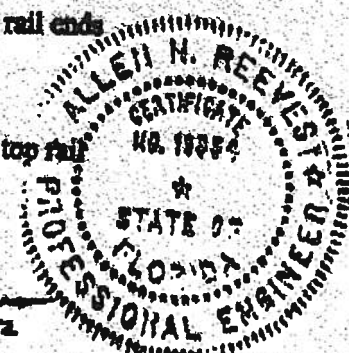
Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

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

Hardware:

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

Allen N. Reeves
1 APRIL 2002



IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

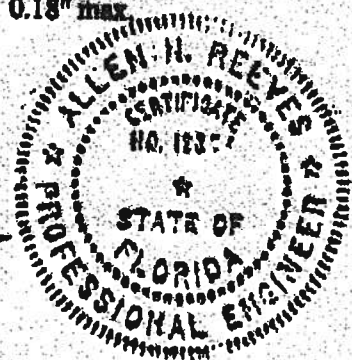
The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max
	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42" 0.43"	0.26" max. 0.26" max.

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

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

Allen H. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

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

Optional Performance

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

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

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



VI

01-41134.01
Page 5 of 5

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

For ARCHITECTURAL TESTING, INC:



Mark A. Hens
Technician

MAH:nlb
01-41134.01



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





FEB - 4 REC'D

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

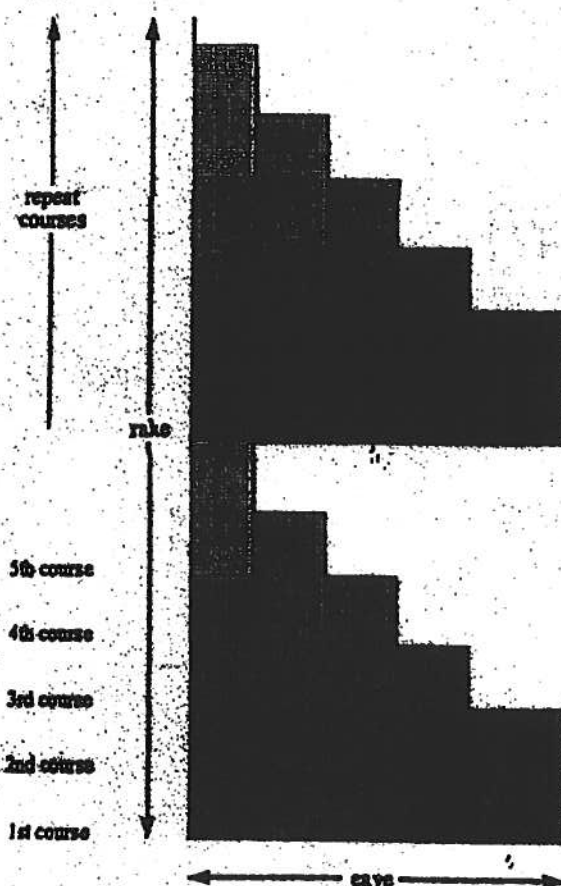
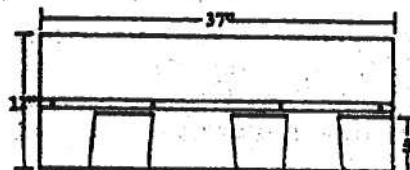
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

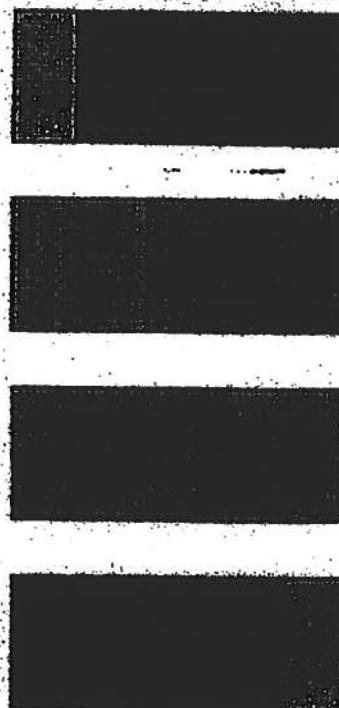


Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

TAMKO

ROOFING PRODUCTS

Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSURES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

2. VENTILATION

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

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.

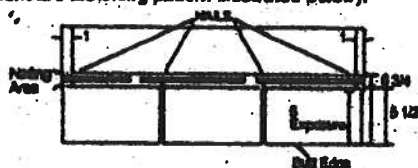
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

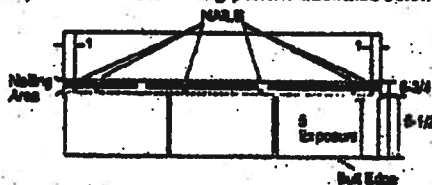
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 8-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

- 1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



- 2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fasteners per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

Visit Our Web Site at
www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801
Northeast District	4500 Tamko Dr., Frederick, MD 21701
Southeast District	2300 35th St., Tuscaloosa, AL 35401
Southwest District	7910 S. Central Exp., Dallas, TX 75218
Western District	5300 East 43rd Ave., Denver, CO 80216

800-841-4691
800-368-2066
800-228-2886
800-443-1834
800-530-8888

07/01

TAMKO

ROOFING PRODUCTS

(CONTINUED FROM Pg. 2)

• Glass-Seal • Glass-Seal AR

• Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

5. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and replace in a new location. Remove all drip edge metal and replace with new.

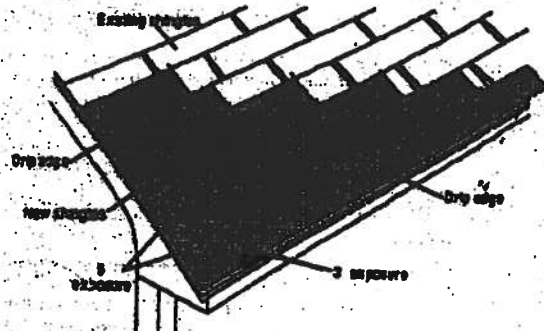
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nailing procedure described below is the preferred method for re-roofing over square tab shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tab from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of this first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Subsequent Courses: According to the off-set application method you choose to use, remove the appropriate length from the



take end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingles used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

6. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Pass® or a minimum 50 lb. re-roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

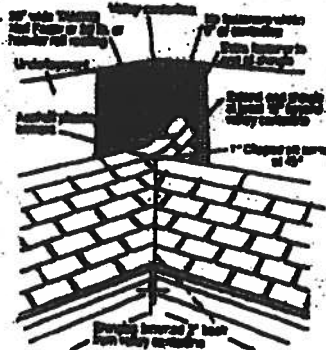
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

Visit Our Web Site at
www.tamko.com

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Southeast District 2300 36th St., Tuscaloosa, AL 35401
Southwest District 7910 S. Central Exp., Dallas, TX 75216
Western District 5300 East 43rd Ave., Denver, CO 80216

800-841-4891
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800-830-8868

0701



(CONTINUED from Pg. 3)

• Glass-Seal
• Glass-Seal AR

• Elite Glass-Seal®
• Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

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

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

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



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

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

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2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

800-841-4691
800-388-2066
800-228-2656
800-443-1834
800-530-8868

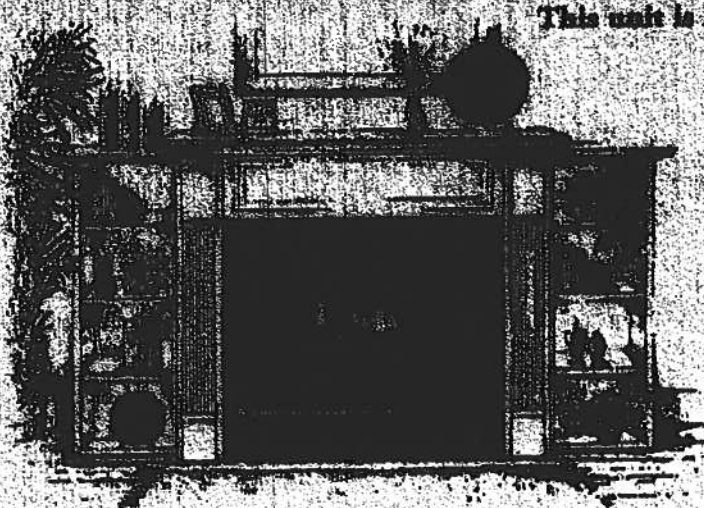
07/01

VENT-FREE

This unit is A.C.A. certified as a heater with 99% heat efficiency

No chimney or flue system required

Wide selection of factory installed options offered



VF-4000

- 14,000 - 25,000 Btu/hr with manual control valve
- 19,500 - 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening

VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



VF-6000

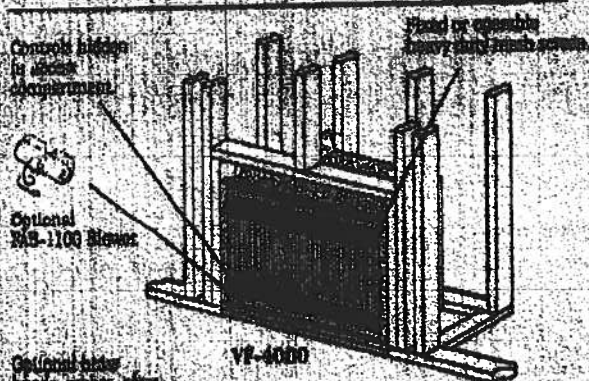
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

SUPERIOR

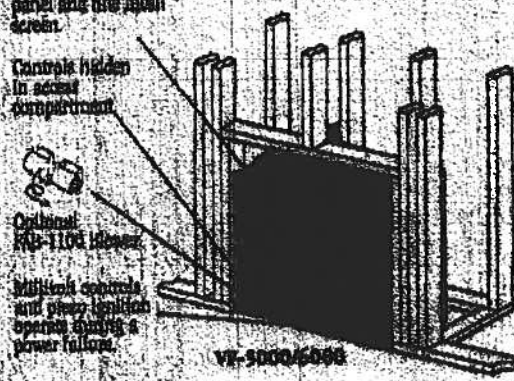
VF-1000/5000/6000



VF-5000 photo



VF-4000



VF-5000/6000

SURROUNDS

The Chantillon Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



Distributed by:



Refractory hot brick panels



Gas Dux liner kit



Screen panel kit



Brass Louver Kit (For VF-4 only)



Screen panel kit (For VF-5 & VF-6 only)



Arch kit (For VF-5 & VF-6 only)



Glass door kit (For VF-5 & VF-6 only)



Brass band (For VF-5 & VF-6 only)

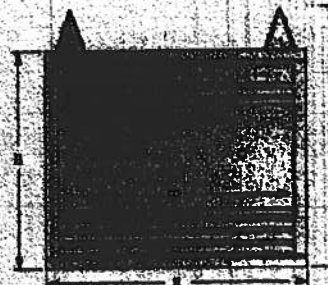


Wall switch or optional wireless remote available (For VF-4 only, VF-5 & VF-6)

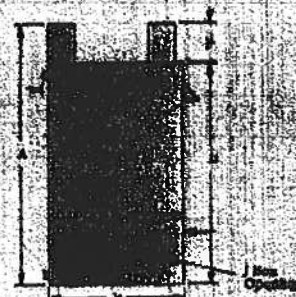


Wall thermostat (For VF-4 only, VF-5 & VF-6)

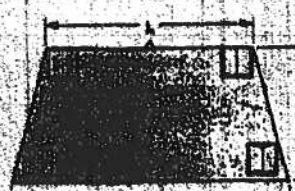
Front View



Left Side View



Top View



Veneer Product Dimensions

	VF-1000/5000C	VF-6000C
Overall Width	36 1/2"	36 5/8"
Overall Height	36"	36"
Overall Depth	16"	16"
Overall Weight	5 1/2"	5 1/2"
Overall Length	36 1/2"	36 5/8"
Overall Thickness	3"	3"
Overall Volume	16 1/2"	16 1/2"
Overall Area	36 1/2"	36 5/8"

Size Chart

Model	Normal	Propane
VF-4000 normal	14,000 - 25,000	14,000 - 35,000
VF-4000/5000 natural	19,500 - 25,000	19,500 - 25,000
VF-6000	25,000 - 32,000	25,000 - 32,000

Finishing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37 1/4"	15 1/2"
VF-6000	41"	42 3/4"	19 1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice, subject to ASH 221.11.2 standard and approved by AIAA, (report # 12970017).

Consult your distributor for local fireplace code information.



SUPERIOR

www.LannoxHearthProducts.com

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Lannox Hearth Products does not intend and its appliances include a 20-year limited warranty.

VF-4000/5000 RAY 2/00

May 01 2003 07:51AM P2

FAX NO.: +386 758 4735

FROM: LAKE CITY INDUSTRIES

Residential System Sizing Calculation

Summary

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

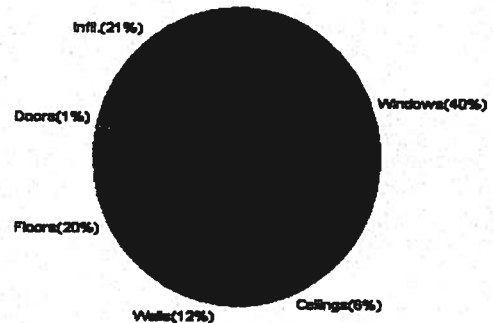
8/2/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	50643 Btuh	Total cooling load calculation	61182 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.5 60000	Sensible (SHR = 0.75)	87.2 45000
Heat Pump + Auxiliary(0.0kW)	118.5 60000	Latent	156.2 15000
		Total (Electric Heat Pump)	98.1 60000

WINTER CALCULATIONS

Winter Heating Load (for 2463 sqft)

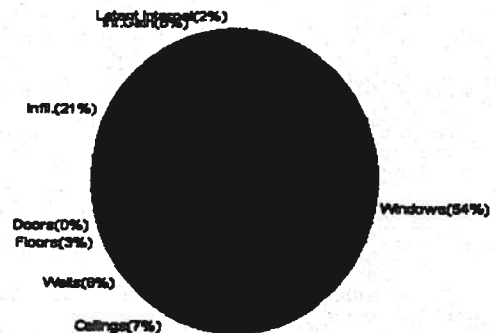
Load component			Load	
Window total	436 sqft		20478	Btuh
Wall total	1871 sqft		6145	Btuh
Door total	20 sqft		259	Btuh
Ceiling total	2600 sqft		3064	Btuh
Floor total	2463 sqft		10055	Btuh
Infiltration	263 cfm		10642	Btuh
Duct loss			0	Btuh
Subtotal			50643	Btuh
Ventilation	0 cfm		0	Btuh
TOTAL HEAT LOSS			50643	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2463 sqft)

Load component			Load	
Window total	436 sqft		33239	Btuh
Wall total	1871 sqft		3808	Btuh
Door total	20 sqft		196	Btuh
Ceiling total	2600 sqft		4306	Btuh
Floor total			1973	Btuh
Infiltration	230 cfm		4278	Btuh
Internal gain			3780	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0 cfm		0	Btuh
Total sensible gain			51581	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			8401	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			9601	Btuh
TOTAL HEAT GAIN			61182	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: John Morales

DATE: 8-2-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

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

8/2/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	15.0	47.0	705 Btuh
2	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
3	1, Clear, Metal, 1.27	N	28.0	47.0	1316 Btuh
4	1, Clear, Metal, 1.27	N	28.0	47.0	1316 Btuh
5	1, Clear, Metal, 1.27	W	17.5	47.0	822 Btuh
6	1, Clear, Metal, 1.27	NW	28.0	47.0	1316 Btuh
7	1, Clear, Metal, 1.27	N	23.0	47.0	1081 Btuh
8	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
9	1, Clear, Metal, 1.27	W	13.3	47.0	625 Btuh
10	1, Clear, Metal, 1.27	SW	15.0	47.0	705 Btuh
11	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
12	1, Clear, Metal, 1.27	NW	15.0	47.0	705 Btuh
13	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
14	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
15	1, Clear, Metal, 1.27	N	24.0	47.0	1128 Btuh
16	1, Clear, Metal, 1.27	E	6.0	47.0	282 Btuh
17	1, Clear, Metal, 1.27	E	49.0	47.0	2303 Btuh
18	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
19	1, Clear, Metal, 1.27	S	4.0	47.0	188 Btuh
Window Total			436(sqft)		20478 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1707	3.3	5607 Btuh
2	Frame - Wood - Adj(0.09)	13.0	164	3.3	539 Btuh
Wall Total			1871		6145 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
Door Total			20		259Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2600	1.2	3064 Btuh
Ceiling Total			2600		3064Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Stem Wall with Stem Wall I	0	2463.0 sqft	4.1	10055 Btuh
Floor Total			2463		10055 Btuh
Zone Envelope Subtotal:					40001 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	19704	262.7	10642 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				50643 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

8/2/2006

HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	50643 Btuh 0 Btuh 50643 Btuh
--	--	------------------------------------

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

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

8/2/2006

Zone #1 Subtotal					
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	15.0	47.0	705 Btuh
2	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
3	1, Clear, Metal, 1.27	N	28.0	47.0	1316 Btuh
4	1, Clear, Metal, 1.27	N	28.0	47.0	1316 Btuh
5	1, Clear, Metal, 1.27	W	17.5	47.0	822 Btuh
6	1, Clear, Metal, 1.27	NW	28.0	47.0	1316 Btuh
7	1, Clear, Metal, 1.27	N	23.0	47.0	1081 Btuh
8	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
9	1, Clear, Metal, 1.27	W	13.3	47.0	625 Btuh
10	1, Clear, Metal, 1.27	SW	15.0	47.0	705 Btuh
11	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
12	1, Clear, Metal, 1.27	NW	15.0	47.0	705 Btuh
13	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
14	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
15	1, Clear, Metal, 1.27	N	24.0	47.0	1128 Btuh
16	1, Clear, Metal, 1.27	E	6.0	47.0	282 Btuh
17	1, Clear, Metal, 1.27	E	49.0	47.0	2303 Btuh
18	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
19	1, Clear, Metal, 1.27	S	4.0	47.0	188 Btuh
Window Total			436(sqft)		20478 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1707	3.3	5607 Btuh
2	Frame - Wood - Adj(0.09)	13.0	164	3.3	539 Btuh
Wall Total			1871		6145 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
Door Total			20		259 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2600	1.2	3064 Btuh
Ceiling Total			2600		3064 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Stem Wall with Stem Wall I	0	2463.0 sqft	4.1	10055 Btuh
Floor Total			2463		10055 Btuh
Zone Envelope Subtotal:					40001 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	19704	262.7	10642 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				50643 Btuh

EnergyGauge® FLRCPB v4.1

Manual J Winter Calculations

Residential Load - Component Details (continued)

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

8/2/2006



	Subtotal Sensible Ventilation Sensible Total Btuh Loss	50643 Btuh 0 Btuh 50643 Btuh
--	--	------------------------------------

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

8/2/2006

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	15.0	0.0	15.0	37	94	1411 Btuh	
2	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	42.0	0.0	42.0	37	94	3950 Btuh	
3	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	28.0	0.0	28.0	37	37	1049 Btuh	
4	1, Clear, 1.27, None,N,N	N	2.5ft	10ft.	28.0	0.0	28.0	37	37	1049 Btuh	
5	1, Clear, 1.27, None,N,N	W	6.5ft	10ft.	17.5	6.0	11.5	37	94	1307 Btuh	
6	1, Clear, 1.27, None,N,N	NW	10.5f	10ft.	28.0	0.0	28.0	37	72	2023 Btuh	
7	1, Clear, 1.27, None,N,N	N	15.5f	10ft.	23.0	0.0	23.0	37	37	861 Btuh	
8	1, Clear, 1.27, None,N,N	W	15.5f	10ft.	42.0	42.0	0.0	37	94	1573 Btuh	
9	1, Clear, 1.27, None,N,N	W	15.5f	10ft.	13.3	13.3	0.0	37	94	498 Btuh	
10	1, Clear, 1.27, None,N,N	SW	6.5ft	10ft.	15.0	15.0	0.0	37	75	562 Btuh	
11	1, Clear, 1.27, None,N,N	W	6.5ft	10ft.	30.0	2.4	27.6	37	94	2687 Btuh	
12	1, Clear, 1.27, None,N,N	NW	1.5ft	8ft.	15.0	0.0	15.0	37	72	1084 Btuh	
13	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	37	37	749 Btuh	
14	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	6.0	0.0	6.0	37	37	225 Btuh	
15	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	24.0	0.0	24.0	37	37	899 Btuh	
16	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	6.0	0.0	6.0	37	94	564 Btuh	
17	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	49.0	0.0	49.0	37	94	4608 Btuh	
18	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124 Btuh	
19	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	37	43	150 Btuh	
Excursion									6868 Btuh		
Window Total						436 (sqft)			33239 Btuh		
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		1707.2			2.1		3561 Btuh		
2	Frame - Wood - Adj	13.0/0.09		184.0			1.5		247 Btuh		
Wall Total						1871 (sqft)			3808 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				20.0		9.8		196 Btuh		
Door Total						20 (sqft)		196 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0		2600.0			1.7		4306 Btuh		
Ceiling Total						2600 (sqft)			4306 Btuh		
Floors	Type	R-Value		Size			HTM		Load		
1	Stem Wall with Stem Wall Insul	0.0		2463 (sqft)			0.8		1973 Btuh		
Floor Total						2463.0 (sqft)			1973 Btuh		
Zone Envelope Subtotal:									43523 Btuh		
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
SensibleNatural		0.70		19704			229.9		4278 Btuh		
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
		6		X 230 +		2400		3780 Btuh			
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load									51581 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

8/2/2006



Whole House Totals for Cooling	Sensible Envelope Load All Zones	51581 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	51581 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	51581 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	8401 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	9601 Btuh
	TOTAL GAIN	61182 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))

(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

8/2/2006

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	15.0	0.0	15.0	37	94	1411	Btuh
2	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	42.0	0.0	42.0	37	94	3950	Btuh
3	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	28.0	0.0	28.0	37	37	1049	Btuh
4	1, Clear, 1.27, None,N,N	N	2.5ft	10ft.	28.0	0.0	28.0	37	37	1049	Btuh
5	1, Clear, 1.27, None,N,N	W	6.5ft	10ft.	17.5	6.0	11.5	37	94	1307	Btuh
6	1, Clear, 1.27, None,N,N	NW	10.5f	10ft.	28.0	0.0	28.0	37	72	2023	Btuh
7	1, Clear, 1.27, None,N,N	N	15.5f	10ft.	23.0	0.0	23.0	37	37	861	Btuh
8	1, Clear, 1.27, None,N,N	W	15.5f	10ft.	42.0	42.0	0.0	37	94	1573	Btuh
9	1, Clear, 1.27, None,N,N	W	15.5f	10ft.	13.3	13.3	0.0	37	94	498	Btuh
10	1, Clear, 1.27, None,N,N	SW	6.5ft	10ft.	15.0	15.0	0.0	37	75	562	Btuh
11	1, Clear, 1.27, None,N,N	W	6.5ft	10ft.	30.0	2.4	27.6	37	94	2687	Btuh
12	1, Clear, 1.27, None,N,N	NW	1.5ft	8ft.	15.0	0.0	15.0	37	72	1084	Btuh
13	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	37	37	749	Btuh
14	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	6.0	0.0	6.0	37	37	225	Btuh
15	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	24.0	0.0	24.0	37	37	899	Btuh
16	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	6.0	0.0	6.0	37	94	564	Btuh
17	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	49.0	0.0	49.0	37	94	4608	Btuh
18	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124	Btuh
19	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	37	43	150	Btuh
	Excursion									6868	Btuh
	Window Total				436 (sqft)					33239	Btuh
Walls	Type		R-Value/U-Value		Area(sqft)		HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		1707.2		2.1		3561 Btuh		
2	Frame - Wood - Adj		13.0/0.09		164.0		1.5		247 Btuh		
	Wall Total				1871 (sqft)				3808 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Adjacent				20.0		9.8		196 Btuh		
	Door Total				20 (sqft)				196 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle		30.0		2600.0		1.7		4306 Btuh		
	Ceiling Total				2600 (sqft)				4306 Btuh		
Floors	Type		R-Value		Size		HTM		Load		
1	Stem Wall with Stem Wall Insul		0.0		2463 (sqft)		0.8		1973 Btuh		
	Floor Total				2463.0 (sqft)				1973 Btuh		
			Zone Envelope Subtotal:								43523 Btuh
Infiltration	Type		ACH		Volume(cuft)		CFM=		Load		
	SensibleNatural		0.70		19704		229.9		4278 Btuh		
Internal gain			Occupants		Btuh/occupant		Appliance		Load		
			6		X 230 +		2400		3780 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh
			Sensible Zone Load								51581 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

8/2/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	51581 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	51581 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	51581 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	8401 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	9601 Btuh
	TOTAL GAIN	61182 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))
(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Robert & Stephanie Miele

Project Title:
Isaac Construction - Miele

Lake City, FL 32025-

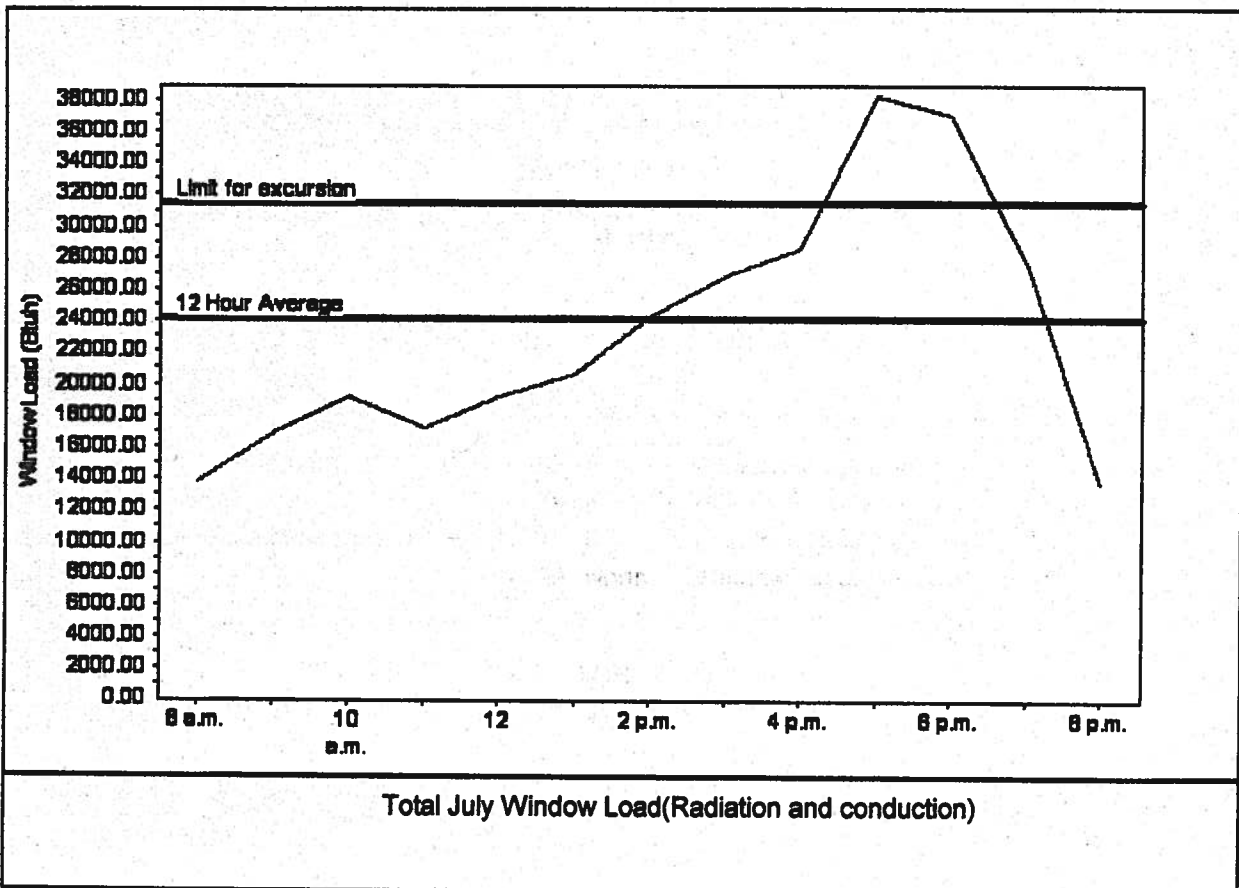
Code Only
Professional Version
Climate: North

8/2/2006

Summer design conditions - Defaults

Summer design temperature	92 F	Average window load for July	24149 Btu
Summer setpoint	75 F	Peak window load for July	38262 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	31394 Btu
Latitude	29 North	Window excursion (July)	6868 Btu/h

WINDOW Average and Peak Loads



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: _____

EnergyGauge® FLRCPB v4.1



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Floor Plan including:

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accesssable bathroom)

Foundation Plan including:

- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

Roof System:

- a) Truss package including:
 - 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
 - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 - 1. Rafter size, species and spacing
 - 2. Attachment to wall and uplift
 - 3. Ridge beam sized and valley framing and support details
 - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- a) Masonry wall
 - 1. All materials making up wall
 - 2. Block size and mortar type with size and spacing of reinforcement
 - 3. Lintel, tie-beam sizes and reinforcement
 - 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
 - 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
 - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
 - 7. Fire resistant construction (if required)
 - 8. Fireproofing requirements
 - 9. Shoe type of termite treatment (termicide 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)

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b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide 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)

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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

HVAC information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

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

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

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PREPARED BY AND RETURN TO:

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

Property Appraiser's
Identification Number R-02438-000

Inst:2006007778 Date:03/29/2006 Time:13:41

Doc Stamp-Deed : 945.00

B DC, P. DeWitt Cason, Columbia County B:1078 P:2659

TM File No: 06-124

WARRANTY DEED

This Warranty Deed, made this 24th day of March, 2006, BETWEEN D D P CORPORATION, a Florida corporation, whose post office address is 4158 US Highway 90 West, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantor*, and ISAAC HOLDINGS, INC., a Florida corporation, whose post office address is 144 SW Waterford Court, Suite 101, Lake City, FL 32025, grantee*.

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

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

Lot 51, 54 and 56, Emerald Cove, Phase 2, a subdivision according to the plat thereof recorded in Plat Book 8, Pages 68-69, public records, Columbia County, Florida.

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

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

D D P CORPORATION


(Signature of First Witness)
TERRY McDAWID
(Typed Name of First Witness)

BY:  (SEAL)
O. P. Daughtry, III,
President

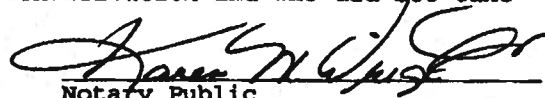
(Corporate Seal)

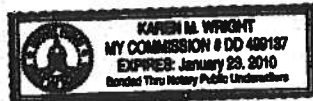

(Signature of Second Witness)
KAREN M. WRIGHT
(Typed Name of Second Witness)

STATE OF FLORIDA
COUNTY OF COLUMBIA

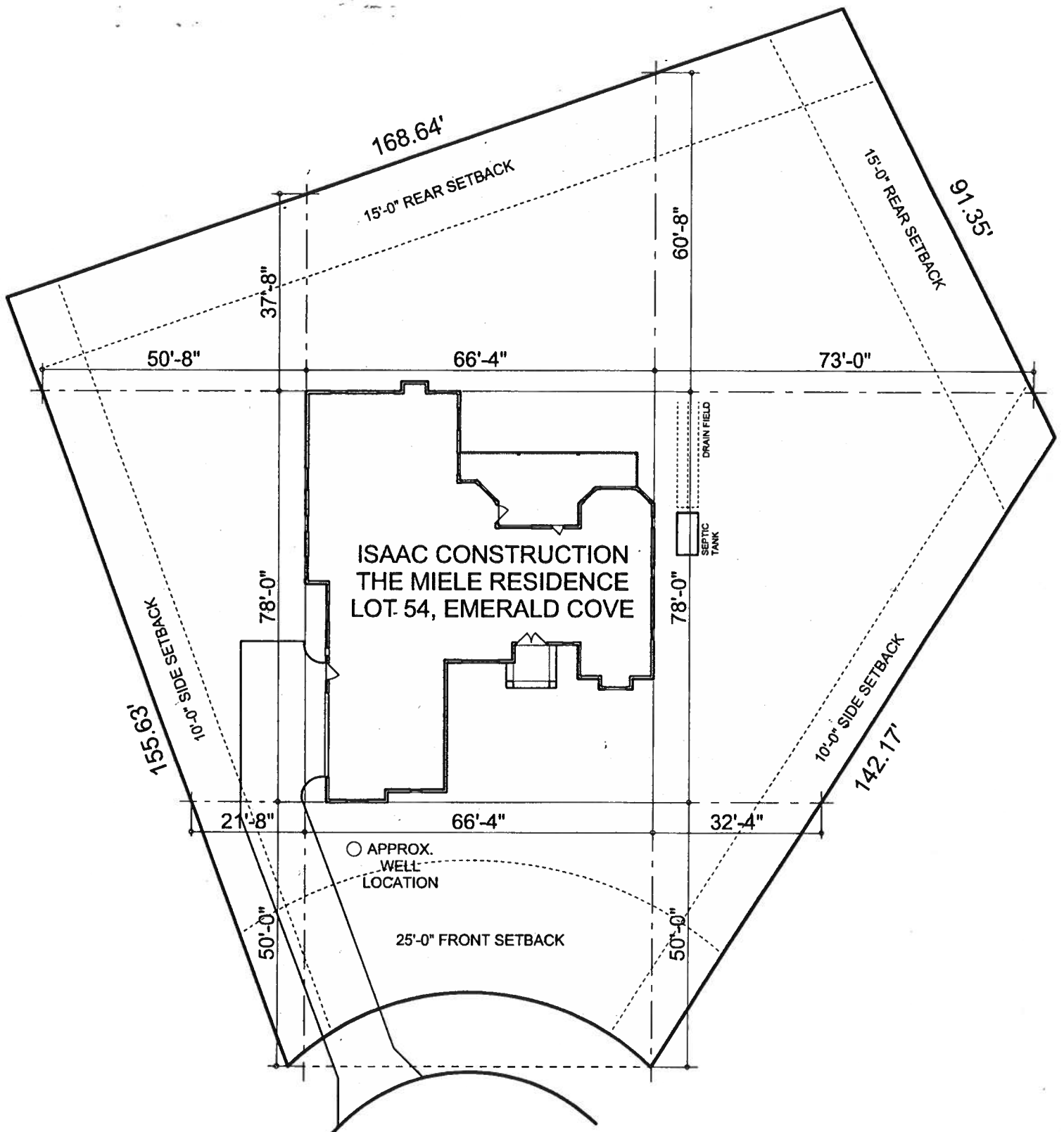
24th The foregoing instrument was acknowledged before me this
day of March, 2006, by O. P. Daughtry, III, President of D
D P Corporation, a Florida corporation, on behalf of said
corporation, who is/are personally known to me or who has/have
produced _____ as identification and who did not take
an oath.

My Commission Expires:


Notary Public
Printed, typed, or stamped name:



Inst:2006007778 Date:03/29/2006 Time:13:41
Doc Stamp-Deed : 945.00
DC,P.Dewitt Cason,Columbia County B:1078 P:2660



SCALE: 1" = 25'

Isaac Construction
2109 W US Hwy 90
Suite 170 PMB 338
Lake City, FL 32055

5/15/07

Dear Isaac Construction:

This letter is to clarify the use of the duplex outlets under and above the marine aquarium cut out as well as the duplex located near the pressure tank in the garage.

All outlets will be used for life sustaining equipment for the marine environment and can not be GFI circuits. If any of the circuits trip it could be catastrophic to the balance of the ecosystem and cause death to the livestock not to mention ruin years of study.

If further clarification is needed please do not hesitate to contact me.

Thank you

Robert Miele

321-883-5841



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ICC Bulletin Board » Code Chat » Plumbing, Mechanical and Fuel Gas Codes » Residential Range/Vent Hood

Author

willsdad03
Contributor

Topic: Residential Range/Vent Hood

☐ posted 12-16-2005 01:08 PM   

Member Rated:
★★★★★

A quick and to the point question....Is a range hood required for an electric range? Code section please. 2003 IRC

Posts: **71** | From: **oxford, ms, usa** | Registered: **Dec 2004** | IP: [Logged](#) | [Report Post](#)

packsaddle
Frequent Contributor

☐ posted 12-16-2005 01:23 PM   

no.

Posts: **1171** | From: **texas** | Registered: **Jun 2004** | IP: [Logged](#) | [Report Post](#)

dsjtecserv
Frequent Contributor

☐ posted 12-16-2005 01:58 PM   

Not required for gas ranges either. No code section = no requirement.

Member Rated:
★★★★★

Dave

<http://www.pbace.com/dsjtecserv>

Posts: **391** | From: **Washington, DC** | Registered: **Jun 2003** | IP: [Logged](#) | [Report Post](#)

willsdad03
Contributor

☐ posted 12-16-2005 02:39 PM   

Member Rated:
★★★★★

IRC M1504.1.....Domestic open-top broiler units shall be provided with a metal exhaust hood, etc. Does this only apply to gas cooktops?

Posts: **71** | From: **oxford, ms, usa** | Registered: **Dec 2004** | IP: [Logged](#) | [Report Post](#)

jboren
Frequent Contributor

☐ posted 12-16-2005 08:43 PM   

Member Rated:
★★★★★

What is an open-top broiler unit? That doesn't sound like the typical cooktop or top burners of a range.

If I ever see one and recognize that it is an "open-top broiler unit", I will require a venthood regardless of gas or electric.

This is the only picture I can find of an "open-top broiler". We need an appliance guy to confirm what is a domestic open-top broiler.

<http://www.poorboyssteakhouse.net/menu.htm>

Posts: **1161** | From: **garland, tx (near dallas)** | Registered: **Jan 2005** | IP: [Logged](#) | [Report Post](#)

maniac
Frequent Contributor

 posted 12-17-2005 09:10 AM   

As stated by jboren, IRC M1504.1 does not apply to gas or electric cooktops, only open-top broiler units.

CBC,CFC,CMC,CPC,CEC
IBC,IFC,IRC,IFGC,IPC,IMC
NEC

Posts: **4253** | From: **Orange, CA** | Registered: **Feb 2001** | IP: [Logged](#) | 

CRob
Contributor

 posted 12-19-2005 09:12 AM   

jboren, thanks for the link now i am really hungry and its only 9am

[Rate Member](#)

Posts: **52** | From: **Arcata, CA** | Registered: **Dec 2003** | IP: [Logged](#) | 

Frank Castelvechi
Frequent Contributor

 posted 12-20-2005 08:30 AM   

Jenn air and others have grill cartridges have electric or gas broiler heating elements and open grill for cooking--tends to make a mess from spatters.

[Member Rated:](#)
★★★★★

tried link but it did not survive translation

[12-20-2005, 08:35 AM: Message edited by: Frank Castelvechi]

Posts: **1027** | From: **Richmond, VA** | Registered: **Apr 2000** | IP: [Logged](#) | 

infotechtx
Contributor

 posted 06-21-2006 02:14 PM   

This question was asked today to our code department; therefore, I would like to revive this thread and ask the same question that jboren has:

[Member Rated:](#)
★★★★★

What is a domestic open top broiler unit?

Hopefully someone will have more insight or a definition.

Thanks to all who reply.

Posts: **22** | From: **Texas** | Registered: **Dec 2005** | IP: [Logged](#) | 

fatboy
Frequent Contributor

 posted 06-21-2006 03:48 PM   

How about this?

<http://www.southbendnc.com/sectionalchar.shtml>

or this is even better, I would vote for the one in the middle;

<http://imperialrange.com/specsheets/snc36.pdf>

[06-21-2006, 03:50 PM: Message edited by: swansont]

If you find yourself in a hole, the first thing to do is stop digging.

1997 FLSTF

Posts: **1122** | From: **Northern Colorado** | Registered: **Jun 2000** | IP: [Logged](#) | 

cda
Frequent Contributor

 posted 06-22-2006 09:32 AM   

ifgc 2003 Broiler a general term including salamanders, barbecues, and other appliances cooking primarily by radiated heat, excepting toasters.

[Member Rated:](#)
★★★★★

Posts: **2807** | Registered: **Oct 2000** | IP: [Logged](#) | 

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COLUMBIA COUNTY OFFICE CITY OF ALEXANDRIA

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 33-3S-16-02438-154

Building permit No. 000024989

Use Classification SFD/UTILITY

Fire: 27.90

Permit Holder ISAAC CONSTRUCTION,LLC

Waste: 83.75

Owner of Building ISAAC HOLDINGS,INC.

Total: 111.65

Location: 377 SW FIELDSTONE COURT, LAKE CITY, FL

Date: 05/17/2007



John D. Hove

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Project Information for: L205488
Builder: ISAAC CONSTRUCTION
Lot: LOT 54 EMERALD COVE
Subdivision: N/A
County or City: COLUMBIA COUNTY
Truss Page Count: 88
Date: 8/11/2006
Start Number: 1035
SEI Ref: L205488

Truss Design Load Information (UNO) Design Program: MiTek
Gravity **Wind** **Building Code:** FBC2004
Roof (psf): 42 **Wind Standard:** ASCE 7-02
Floor (psf): 55 **Wind Speed (mph):** 110

Note: See individual truss drawings for special loading conditions

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

BRATKOVICH, ISAAC P. CBC059323
Address: 1005 SW WALTER AVE.
 LAKE CITY, FL. 32024

Designer: 11

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address: 16105 N. Florida Ave, Ste B, Lutz, FL 33549 **Phone:** 813-849-5769

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for vertical loads only, unless noted otherwise.
5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitability and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0811061035	8/11/2006	41	T01	0811061075	8/11/2006
2	CJ1A	0811061036	8/11/2006	42	T01G	0811061076	8/11/2006
3	CJ1B	0811061037	8/11/2006	43	T02	0811061077	8/11/2006
4	CJ1C	0811061038	8/11/2006	44	T02G	0811061078	8/11/2006
5	CJ3	0811061039	8/11/2006	45	T03	0811061079	8/11/2006
6	CJ3A	0811061040	8/11/2006	46	T04	0811061080	8/11/2006
7	CJ3B	0811061041	8/11/2006	47	T05	0811061081	8/11/2006
8	CJ3C	0811061042	8/11/2006	48	T06	0811061082	8/11/2006
9	CJ4	0811061043	8/11/2006	49	T06G	0811061083	8/11/2006
10	CJ5	0811061044	8/11/2006	50	T07	0811061084	8/11/2006
11	CJ5B	0811061045	8/11/2006	51	T08	0811061085	8/11/2006
12	CJ6	0811061046	8/11/2006	52	T09	0811061086	8/11/2006
13	CJ8	0811061047	8/11/2006	53	T10	0811061087	8/11/2006
14	EJ2	0811061048	8/11/2006	54	T11	0811061088	8/11/2006
15	EJ2A	0811061049	8/11/2006	55	T12	0811061089	8/11/2006
16	EJ3	0811061050	8/11/2006	56	T13	0811061090	8/11/2006
17	EJ4	0811061051	8/11/2006	57	T14	0811061091	8/11/2006
18	EJ4A	0811061052	8/11/2006	58	T15	0811061092	8/11/2006
19	EJ5	0811061053	8/11/2006	59	T16	0811061093	8/11/2006
20	EJ5A	0811061054	8/11/2006	60	T17	0811061094	8/11/2006
21	EJ6	0811061055	8/11/2006	61	T18	0811061095	8/11/2006
22	EJ6A	0811061056	8/11/2006	62	T18A	0811061096	8/11/2006
23	EJ6B	0811061057	8/11/2006	63	T19	0811061097	8/11/2006
24	FJ5	0811061058	8/11/2006	64	T19G	0811061098	8/11/2006
25	HJ3	0811061059	8/11/2006	65	T20	0811061099	8/11/2006
26	HJ5	0811061060	8/11/2006	66	T21	0811061100	8/11/2006
27	HJ5A	0811061061	8/11/2006	67	T22	0811061101	8/11/2006
28	HJ5B	0811061062	8/11/2006	68	T23	0811061102	8/11/2006
29	HJ7	0811061063	8/11/2006	69	T24	0811061103	8/11/2006
30	HJ8	0811061064	8/11/2006	70	T25	0811061104	8/11/2006
31	HJ9A	0811061065	8/11/2006	71	T26	0811061105	8/11/2006
32	PB06	0811061066	8/11/2006	72	T27	0811061106	8/11/2006
33	PB06A	0811061067	8/11/2006	73	T28	0811061107	8/11/2006
34	PB10	0811061068	8/11/2006	74	T29	0811061108	8/11/2006
35	PB10A	0811061069	8/11/2006	75	T32	0811061109	8/11/2006
36	PB10B	0811061070	8/11/2006	76	T33	0811061110	8/11/2006
37	PB13	0811061071	8/11/2006	77	T34	0811061111	8/11/2006
38	PB13A	0811061072	8/11/2006	78	T35	0811061112	8/11/2006
39	PB13B	0811061073	8/11/2006	79	T36	0811061113	8/11/2006
40	PB13C	0811061074	8/11/2006	80	T37	0811061114	8/11/2006

AUG 11 2006

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Licensee Details**Licensee Information**

Name: **BRATKOVICH, ISAAC PAUL (Primary Name)**
ISAAC CONSTRUCTION (Alternate Name)
Main Address: **1005 SW WALTER AVE**
LAKE CITY, Florida 32024-8946
Lic. Location: **RR 9 BOX 646**
LAKE CITY, FL 32024-8946
Columbia

License Information

License Type: **Certified Building Contractor**
Rank: **Cert Building**
License Number: **CBC059323**
Status: **Current, Active**
Licensure Date: **02/09/2000**
Expires: **08/31/2006**

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Job L205488	Truss CJ1	Truss Type JACK	Qty 10	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:06:27 2006 Page 1

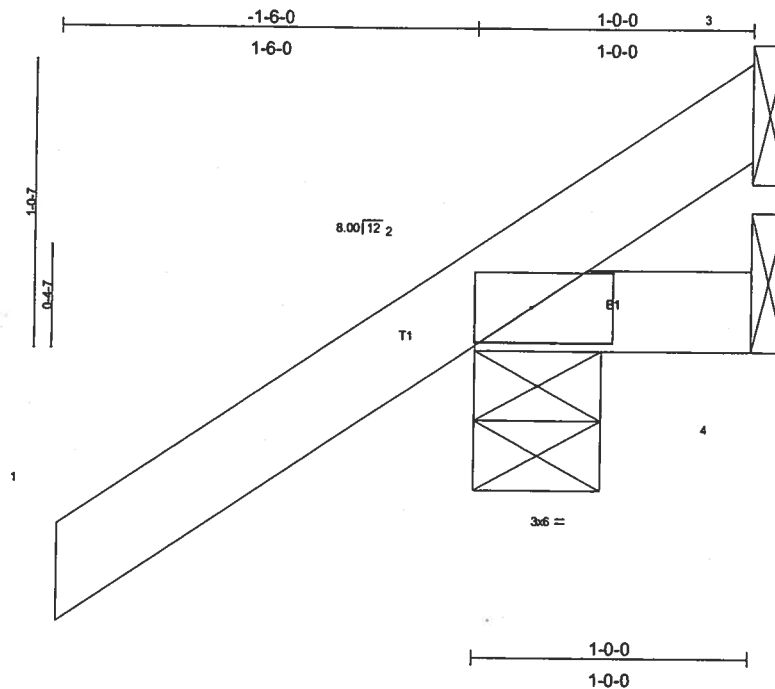


Plate Offsets (X,Y): [2-0-3-9-0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(TL)	-0.00	2	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 6 lb	

LUMBER

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

BRACING

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

REACTIONS

(lb/size) 2=192/0-5-8, 4=14/Mechanical, 3=43/Mechanical
Max Horz 2=94(load case 5)
Max Uplift 2=192(load case 5), 3=43(load case 1)
Max Grav 2=192(load case 1), 4=14(load case 1), 3=72(load case 5)

FORCES

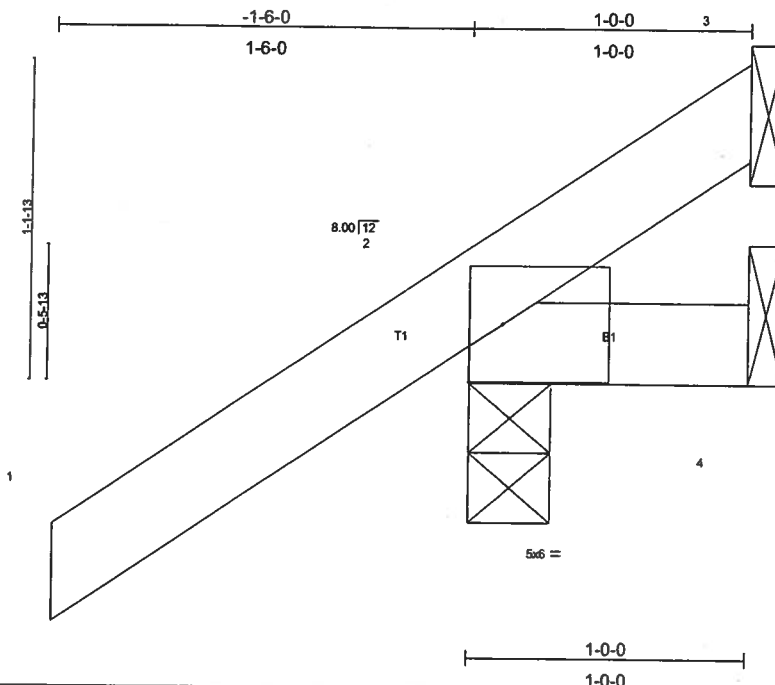
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=56/50
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 43 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L205488	Truss CJ1A	Truss Type JACK	Qty 4	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:06:32 2006 Page 1		



Scale = 1/8" = 1'-0"

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.00 2 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 6 lb	

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

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

REACTIONS (lb/size) 2=189/0-3-8, 4=14/Mechanical, 3=40/Mechanical
Max Horz 2=92(load case 5)
Max Uplift 2=189(load case 5), 4=11(load case 3), 3=40(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=57(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=60/44
BOT CHORD 2-4=0/0

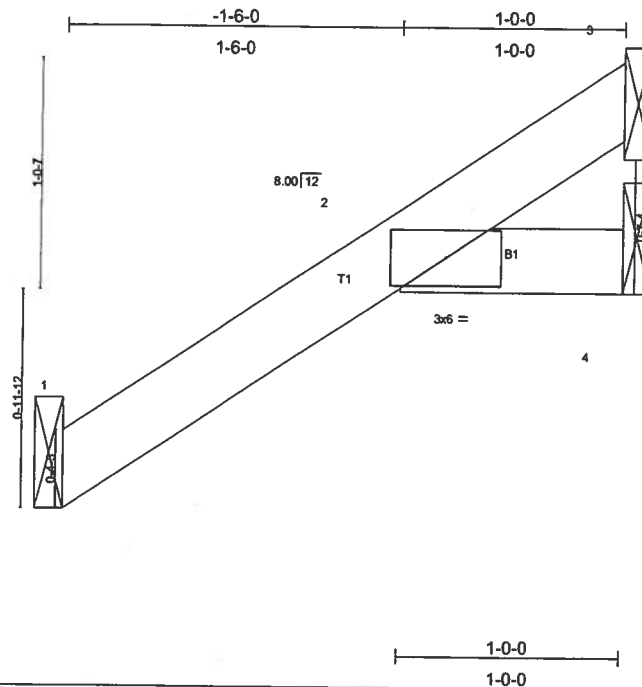
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2, 11 lb uplift at joint 4 and 40 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L205488	Truss CJ1B	Truss Type JACK	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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Scale = 1:9.9

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	0.01	2	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(TL)	0.01	2	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.01	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 6 lb	

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

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

REACTIONS (lb/size) 1=84/Mechanical, 4=15/Mechanical, 3=79/Mechanical
 Max Horz 1=75(load case 5)
 Max Uplift 1=18(load case 5), 4=-12(load case 3), 3=-73(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=53/8, 2-3=59/43
 BOT CHORD 2-4=0/0

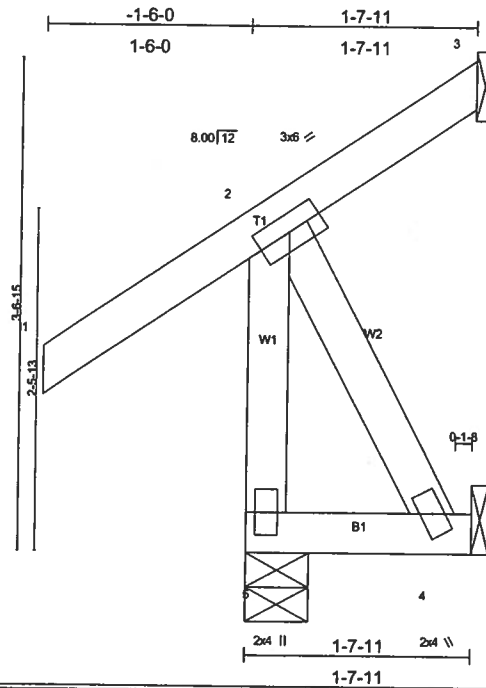
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 12 lb uplift at joint 4 and 73 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L205488	Truss CJ1C	Truss Type JACK	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, Fl 32055

Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:06:41 2006 Page 1

Scale: 3/4"=1'

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.01	Vert(LL) -0.00 5 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.07	Vert(TL) -0.00 5 >999 180		
BCCL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TP12002				
				Weight: 15 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 1-7-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=197/0-5-8, 4=19/Mechanical, 3=9/Mechanical
 Max Horz 5=116(load case 5)
 Max Uplift 4=202(load case 5), 3=9(load case 1)
 Max Grav 5=197(load case 1), 4=19(load case 1), 3=34(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-5=-178/0, 1-2=0/49, 2-3=-50/22
 BOT CHORD 4-5=-131/0
 WEBS 2-4=-0/266

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCCL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to glider(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 4 and 9 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L205488	Truss CJ3	Truss Type JACK	Qty 8	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

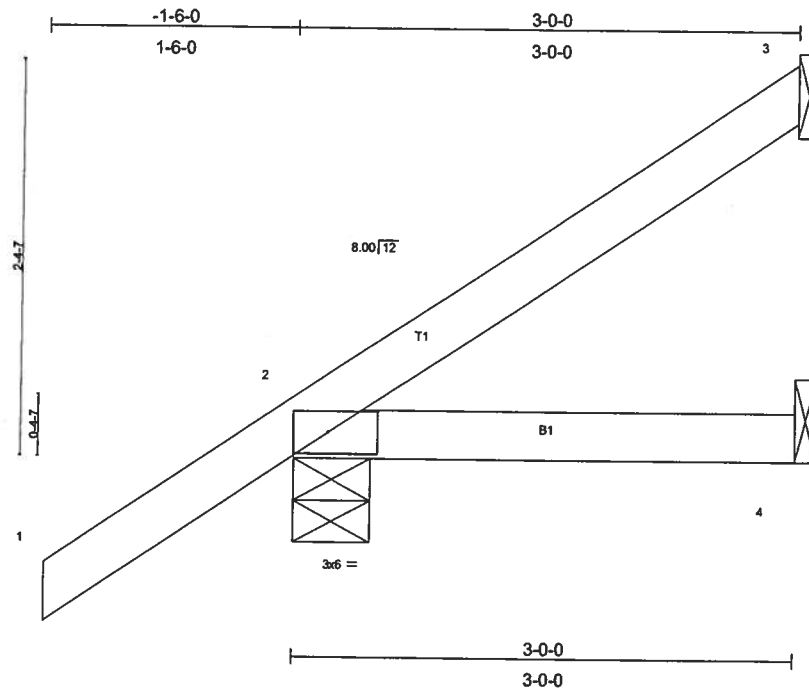
Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:06:45 2006 Page 1

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 0.19	Vert(LL)	-0.00	2-4	>999	240	
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	-0.00	2-4	>999	180	
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a	
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 13 lb

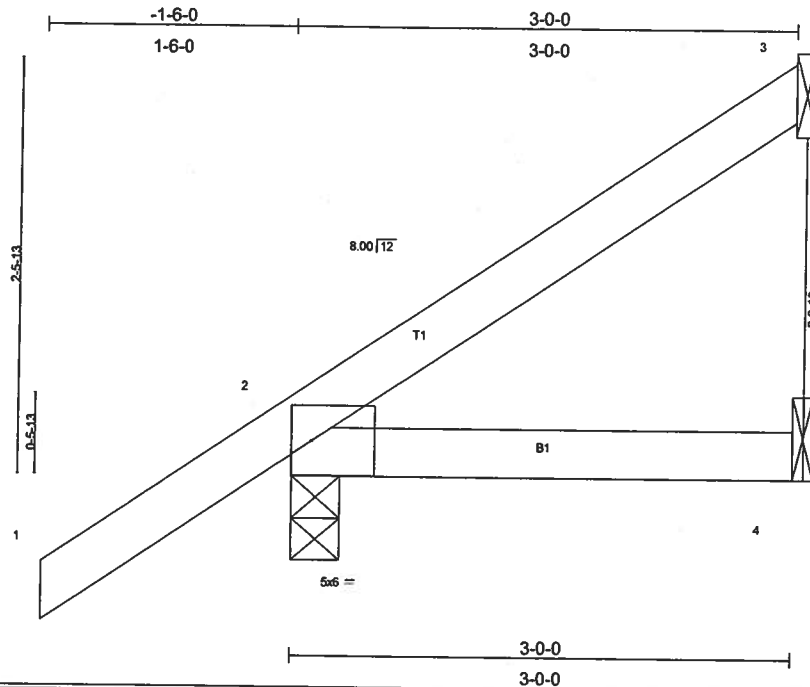
LUMBERTOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2**BRACING**TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.**REACTIONS** (lb/size) 3=43/Mechanical, 2=237/0-5-8, 4=41/Mechanical
Max Horz 2=154(load case 5)
Max Uplift 3=44(load case 5), 2=-147(load case 5)**FORCES** (lb) - Maximum Compression/Maximum TensionTOP CHORD 1-2=0/45, 2-3=-61/17
BOT CHORD 2-4=0/0**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 147 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L205488	Truss CJ3A	Truss Type JACK	Qty 4	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:06:49 2006 Page 1



Scale = 1:13.1

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCDL 20.0	2-0-0	TC 0.16	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(TL)	0.01	2-4	>999	180		
BCDL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 13 lb	

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

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

REACTIONS (lb/size) 3=49/Mechanical, 2=232/0-3-8, 4=42/Mechanical
 Max Horz 2=152(load case 5)
 Max Uplift 3=55(load case 5), 2=170(load case 5), 4=33(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-61/21
 BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 3, 170 lb uplift at joint 2 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	CJ3B	JACK	2	1	Job Reference (optional)

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:06:54 2006 Page 1



Plate Offsets (X,Y): [2:0-3-9.0-1-8]

[illegible]

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

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=0/Mechanical, 2=328/0-9-4, 4=39/Mechanical
Max Horz 2=154(load case 5)
Max Uplift 3=-33(load case 6), 2=-188(load case 5)
Max Grav 3=25(load case 3), 2=328(load case 1), 4=39(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-9/69, 2-3=-86/14
BOT CHORD 2-4=0/0

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 188 lb uplift at joint 2.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 22 lb up at -1-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

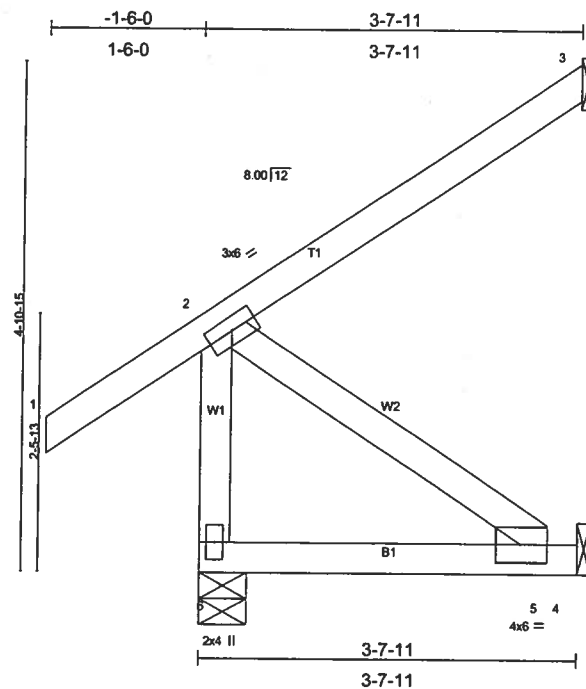
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=54, 2-4=30
Concentrated Loads (lb)
Vert: 1=50(F)

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=54, 2-4=30
Concentrated Loads (lb)
Vert: 1=50(F)

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

Job L205488	Truss CJ3C	Truss Type JACK	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:06:57 2006 Page 1



Scale = 1:212

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

LOADING (psf)	SPACING	CSI	DEFL	In	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.08	Vert(TL)	-0.01	5-6	>999	180		
BCCL 10.0	Lumber Increase 1.25	WB 0.08	Horz(TL)	-0.01	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 23 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=254/0-5-8, 3=71/Mechanical, 4=52/Mechanical

Max Horz 6=229(load case 5)

Max Uplift 6=12(load case 5), 3=67(load case 5), 4=123(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-6=-203/14, 1-2=0/49, 2-3=-63/29

BOT CHORD 5-6=-251/14, 4-5=0/0

WEBS 2-5=-18/307

NOTES

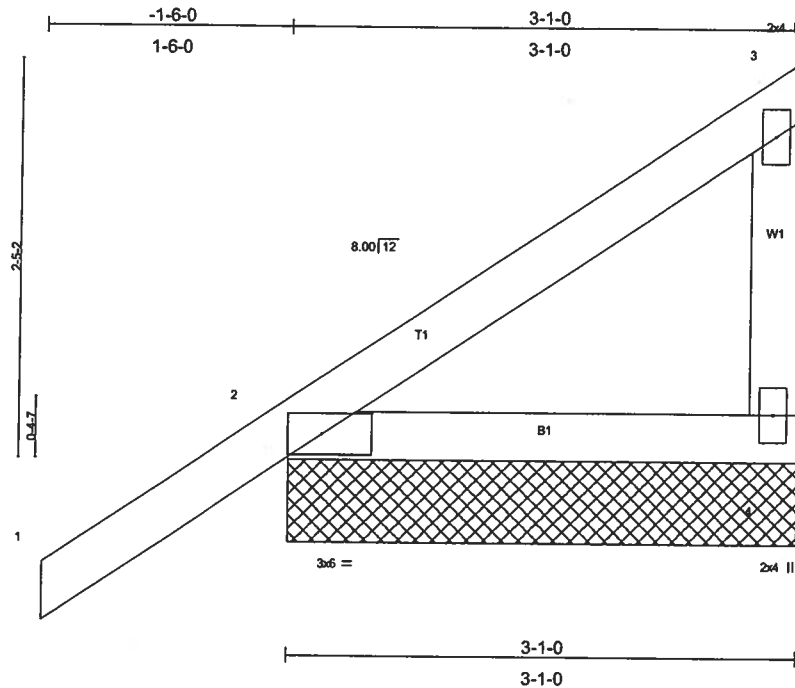
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) Refer to girder(s) for truss to truss connections.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 6, 67 lb uplift at joint 3 and 123 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	CJ4	JACK	1	1	
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
			6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:07:01 2006 Page 1		



Scale = 1:13.4

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.22	Vert(LL)	-0.01	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.07	Vert(TL)	-0.02	1	n/r	90		
BCLL 10.0	Rep Stress Incr NO	WB 0.02	Horz(TL)	0.00		n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 16 lb

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=336/3-1-0, 4=138/3-1-0
 Max Horz 2=154(load case 5)
 Max Uplift 2=172(load case 5), 4=60(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-5/70, 2-3=-91/39
 BOT CHORD 2-4=0/0
 WEBS 3-4=-94/76

NOTES

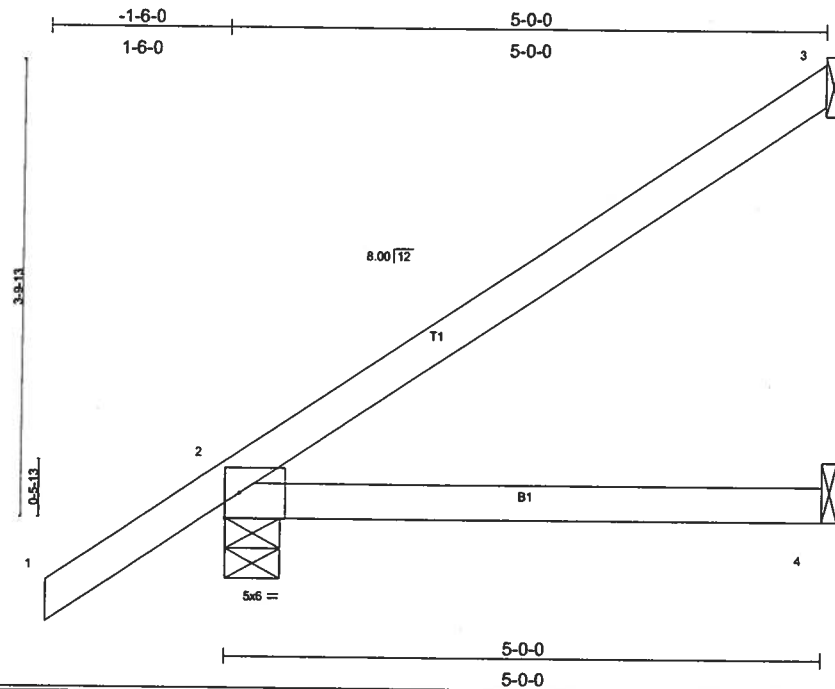
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2 and 60 lb uplift at joint 4.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-87(F=-33), 2-4=-30

Job L205488	Truss CJ5	Truss Type JACK	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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Scale = 1:18.4

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.16	Vert(LL) -0.03 2-4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.05 2-4 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 19 lb	

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

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

REACTIONS (lb/size) 3=110/Mechanical, 2=308/0-5-8, 4=71/Mechanical
 Max Horz 2=213(load case 5)
 Max Uplift 3=125(load case 5), 2=136(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/41, 2-3=-105/50
 BOT CHORD 2-4=0/0

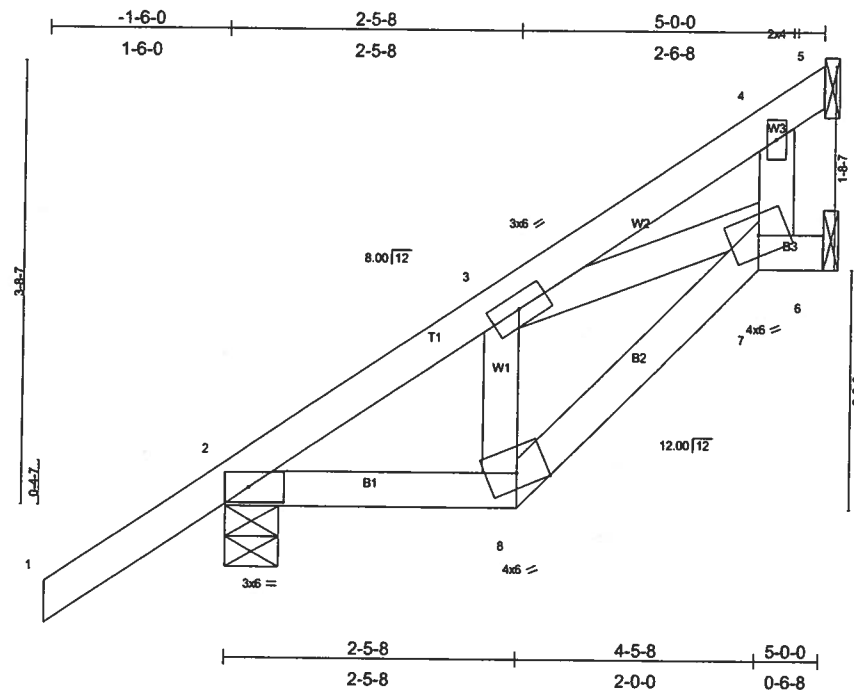
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 3 and 136 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L205488	Truss CJ5B	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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Scale = 1:18.4

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

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	0.01	7	>999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.06	Vert(TL)	-0.01	7-8	>999		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Horz(TL)	-0.00	6	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code F8C2004/TPI2002							
							Weight: 28 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 5=173/Mechanical, 2=308/0-5-8, 6=7/Mechanical
 Max Horz 2=215(load case 5)
 Max Uplift 5=107(load case 5), 2=141(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/45, 2-3=214/0, 3-4=75/0, 4-5=68/95
 BOT CHORD 2-8=80/130, 7-8=105/192, 6-7=0/0
 WEBS 3-8=59/84, 3-7=107/66, 4-7=52/141

NOTES

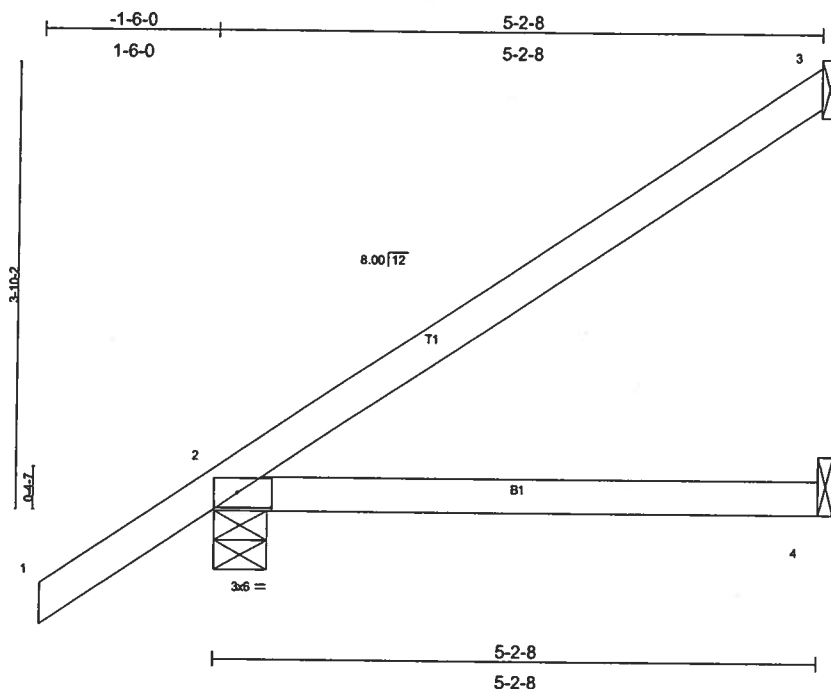
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 5 and 141 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	CJ6	JACK	1	1	Job Reference (optional)
Buildup FirstSource, John Al. 51 60000					

Builders FirstSource, Lake City, FL 32055

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Scale = 1:18.9

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

[illegible]

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 5-2-8 cc purlins

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

REACTIONS (lb/size) 3=116/Mechanical, 2=316/0-5-8, 4=74/Mechanical

Max Horiz 2=222(load case 5)

Max Uplift3=-126(load case 5), 2=-141(load case 5)

FORCES

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-105/52

BOT CHORD 2-4=0/0

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDF=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

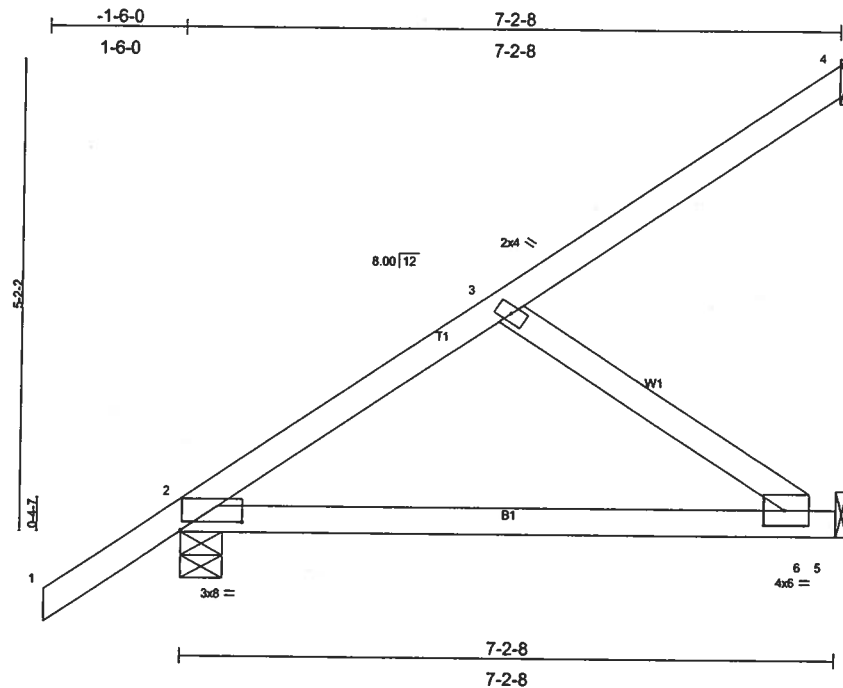
2) Refer to girder(s) for truss to truss connections.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 3 and 141 lb uplift at joint 2.

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	CJ8	JACK	1	1	Job Reference (optional)
Builders FirstSource, Lake City, Fl 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:07:17 2006 Page 1		



Scale: 1/2"=1'

Plate Offsets (X,Y): [2:0-8-3,0-1-2], [6:0-2-12,0-1-15]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.18	Vert(LL) -0.08 2-6	>999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.14 2-6	>614 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.07	Horz(TL) 0.00 5	n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)				
					Weight: 33 lb	

LUMBER

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

BRACING

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

REACTIONS

(lb/size) 4=76/Mechanical, 2=395/0-5-8, 5=203/Mechanical
Max Horz 2=283(load case 5)
Max Uplift 4=89(load case 5), 2=146(load case 5), 5=81(load case 5)

FORCES (lb)

TOP CHORD 1-2=0/45, 2-3=-237/1, 3-4=-71/31
BOT CHORD 2-6=-166/179, 5-6=0/0
WEBS 3-6=-217/201

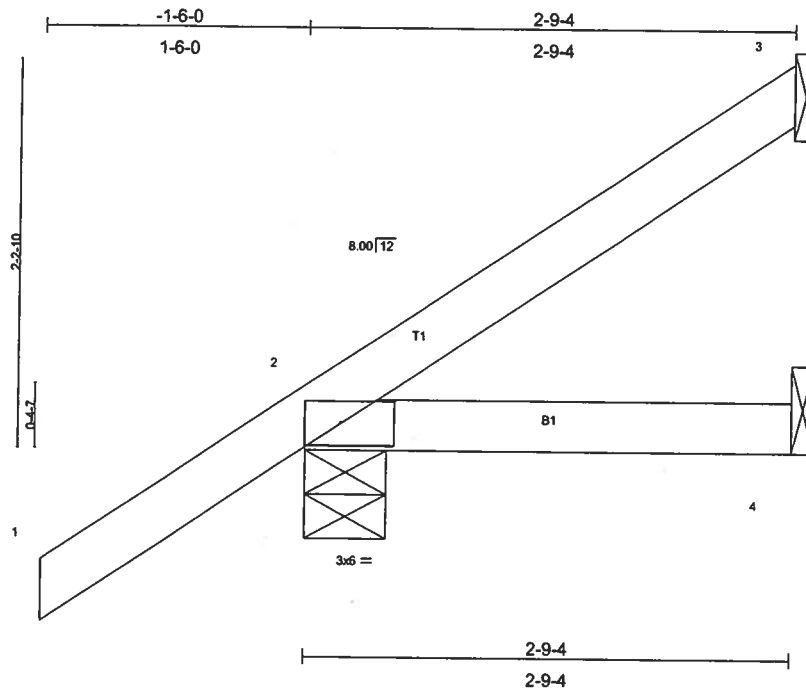
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 4, 146 lb uplift at joint 2 and 81 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L205488	Truss EJ2	Truss Type JACK	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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Scale = 1/12.5

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.19	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.04	Vert(TL)	-0.00	2-4	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 12 lb

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=34/Mechanical, 2=230/0-5-8, 4=37/Mechanical
Max Horz 2=147(load case 5)
Max Uplift 3=37(load case 6), 2=150(load case 5)

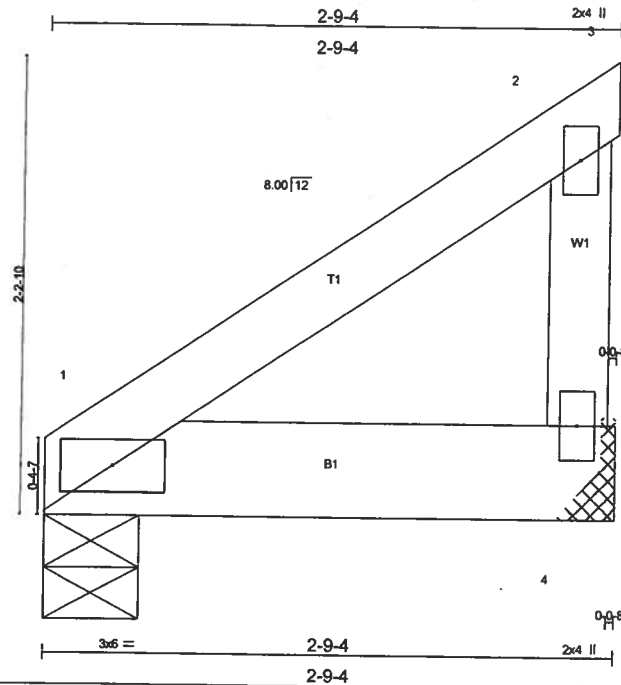
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-60/15
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 3 and 150 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L205488	Truss EJ2A	Truss Type JACK	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:07:27 2006 Page 1		



Scale = 1:10.7

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.26	Vert(LL) 0.01 1-4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.02	Vert(TL) -0.01 1-4 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 n/a n/a		
	Code FBC2004/TPI2002				
				Weight: 14 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=668/0-5-8, 4=671/Mechanical
 Max Horz 1=83(load case 4)
 Max Uplift 1=228(load case 4), 4=298(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-59/30, 2-3=-1/0
 BOT CHORD 1-4=0/0
 WEBS 2-4=-66/82

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 1 and 298 lb uplift at joint 4.
- 4) Girder carries tie-in span(s): 25-4-0 from 0-0-0 to 2-9-4
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

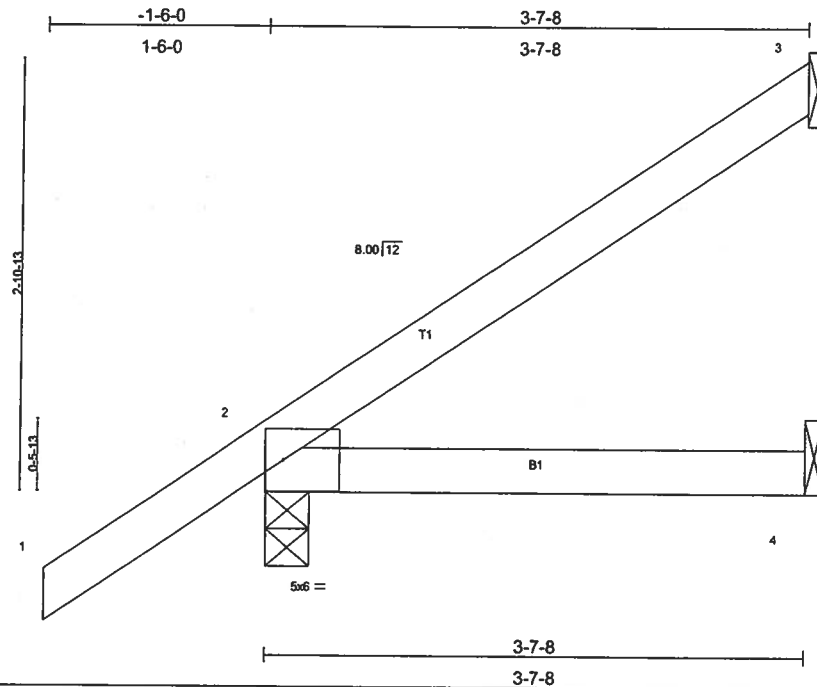
LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-3=-14, 1-4=-514(F=-484)

Job L205488	Truss EJ3	Truss Type JACK	Qty 3	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

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Scale = 1:14.8

LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.12	Vert(LL) 0.02 2-4 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Vert(TL) 0.02 2-4 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
				Weight: 15 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 3-7-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=71/Mechanical, 2=254/0-3-8, 4=51/Mechanical
 Max Horz 2=171(load case 5)
 Max Uplift 3=79(load case 5), 2=175(load case 5), 4=40(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-69/31
 BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 3, 175 lb uplift at joint 2 and 40 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L205488	Truss EJ4	Truss Type JACK	Qty 5	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:07:34 2006 Page 1		

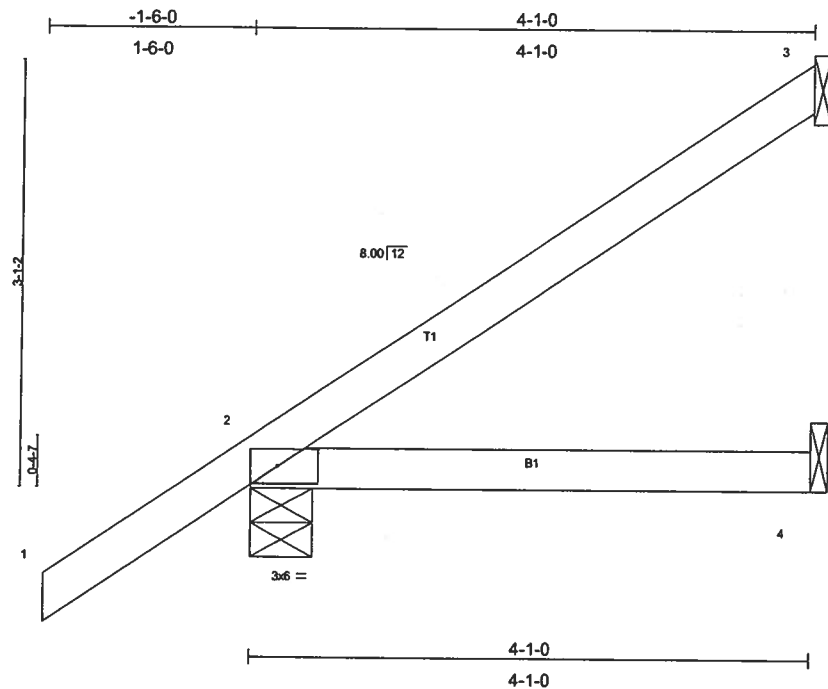


Plate Offsets (X,Y): [2-0-3-9,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	-0.01	2-4	>999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(TL)	-0.02	2-4	>999		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 16 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=81/Mechanical, 2=274/0-5-8, 4=57/Mechanical
Max Horz 2=187(load case 5)
Max Uplift 3=-87(load case 5), 2=-142(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-75/35
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3 and 142 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L205488	Truss EJ4A	Truss Type JACK	Qty 9	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:07:39 2006 Page 1		

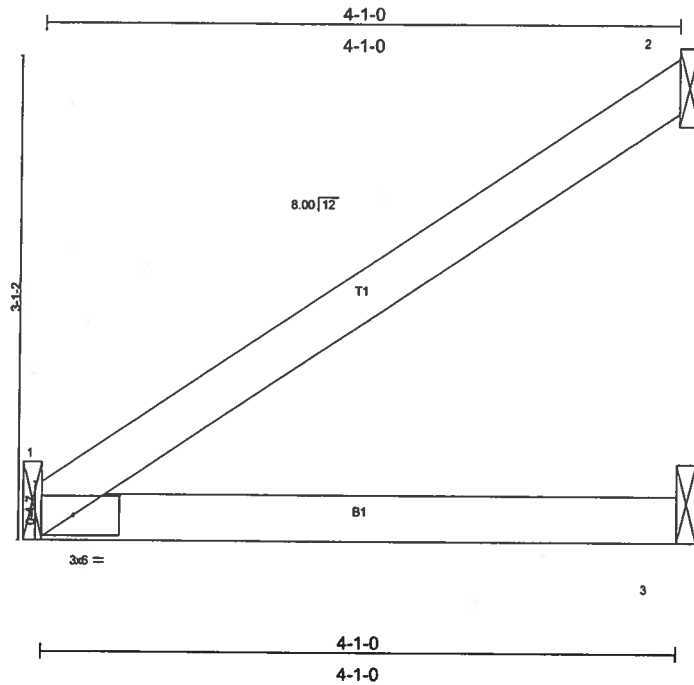


Plate Offsets (X,Y): [1:0-3-9,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	-0.01	1-3	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.11	Vert(TL)	-0.02	1-3	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								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 4-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=166/Mechanical, 2=107/Mechanical, 3=59/Mechanical
Max Horz 1=126(load case 5)
Max Uplift 1=19(load case 5), 2=-118(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

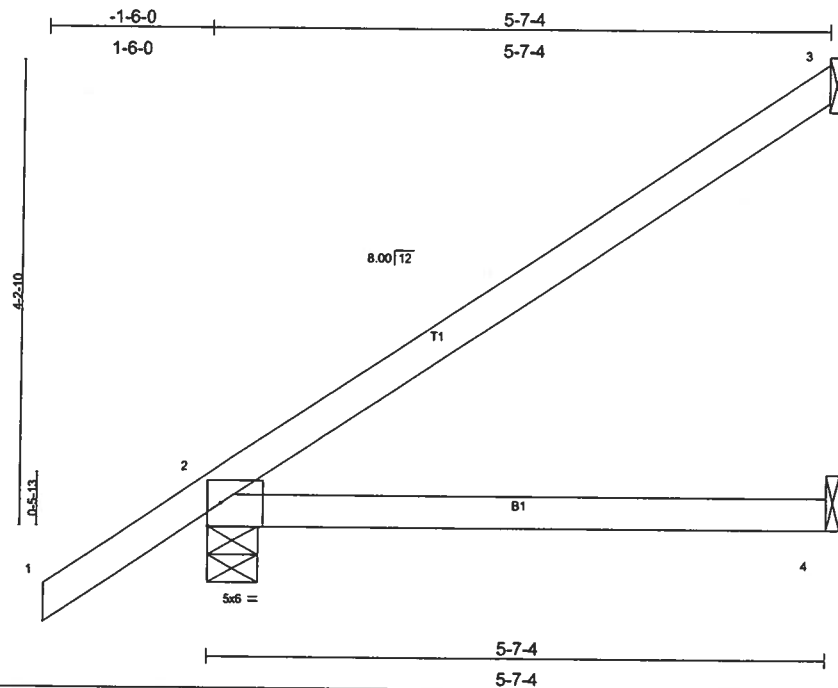
TOP CHORD 1-2=92/49
BOT CHORD 1-3=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 118 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	EJ5	JACK	7	1	
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6:200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:07:42 2006 Page 1					



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.28	Vert(LL) -0.04 2-4 >999 240	MT20	244/190
BCDL 7.0	Lumber Increase 1.25	BC 0.20	Vert(TL) -0.07 2-4 >871 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)			
				Weight: 21 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 5-7-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=128/Mechanical, 2=332/0-5-8, 4=80/Mechanical
Max Horz 2=232(load case 5)
Max Uplift 3=145(load case 5), 2=137(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-3=-120/58
BOT CHORD 2-4=0/0

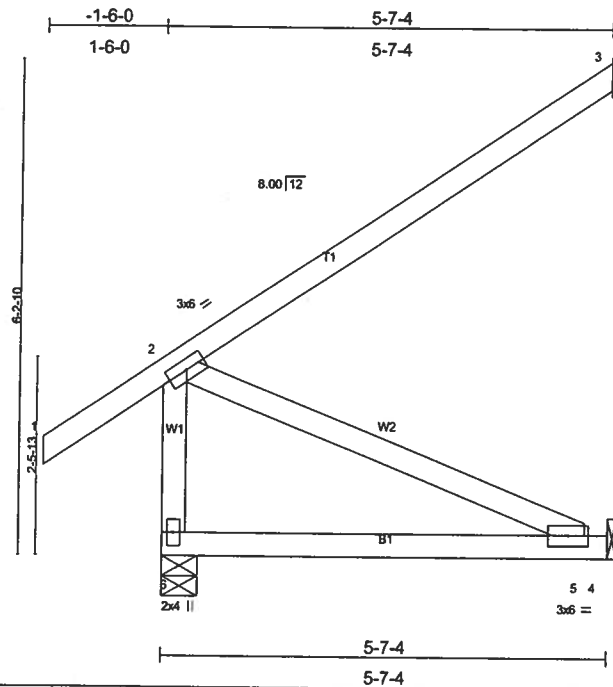
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCFL=4.2psf; BCDL=3.0psf; Category II; Exp B: enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 3 and 137 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L205488	Truss EJ5A	Truss Type JACK	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional)		

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Scale = 1:27.6

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.21	Vert(LL) -0.04 5-6 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.09	Vert(TL) -0.08 5-6 >832 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.01 3 n/a n/a		
	Code FBC2004/TP12002				
				Weight: 32 lb	

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

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

REACTIONS (lb/size) 6=329/0-5-8, 3=132/Mechanical, 4=81/Mechanical
 Max Horz 6=289(load case 5)
 Max Uplift 6=-34(load case 5), 3=-136(load case 5), 4=-94(load case 5)

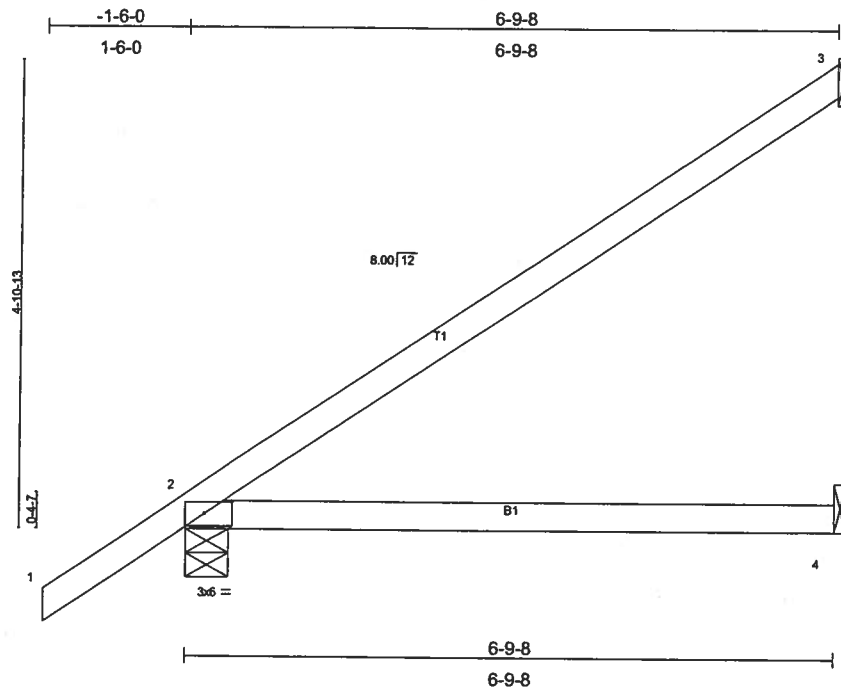
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-6=-248/47, 1-2=0/49, 2-3=-108/57
 BOT CHORD 5-6=-315/20, 4-5=0/0
 WEBS 2-5=-21/344

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 6, 136 lb uplift at joint 3 and 94 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L205488	Truss EJ6	Truss Type JACK	Qty 5	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:07:50 2006 Page 1		



Scale = 1:23.1

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.30	Vert(LL) -0.09 2-4 >833 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.16 2-4 >476 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TP12002			Weight: 25 lb	

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

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

REACTIONS (lb/size) 3=163/Mechanical, 2=379/0-5-8, 4=98/Mechanical
 Max Horz 2=271(load case 5)
 Max Uplift 3=-178(load case 5), 2=-145(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/45, 2-3=-141/73
 BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 3 and 145 lb uplift at joint 2.

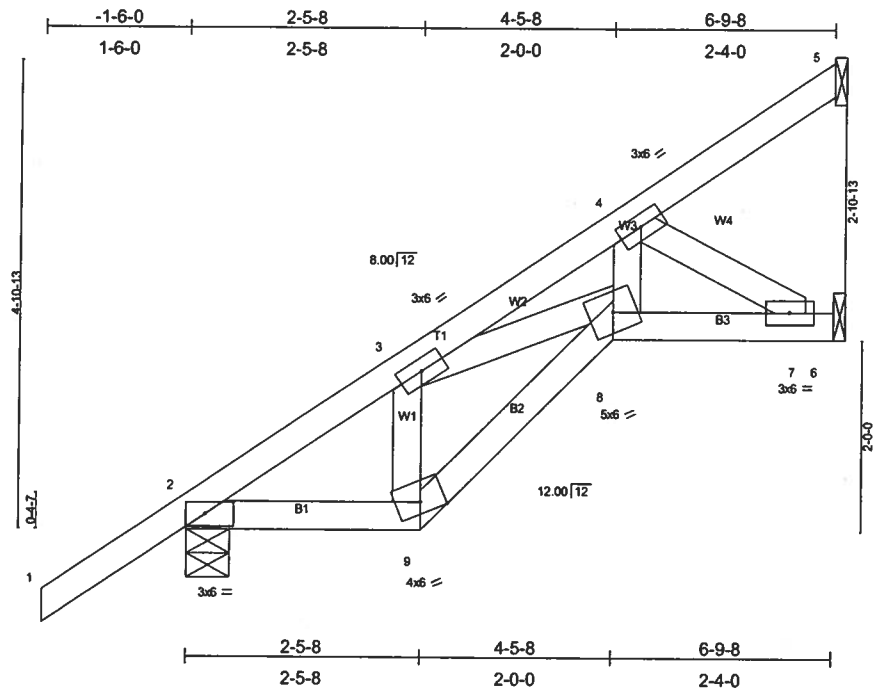
LOAD CASE(S) Standard

Job L205488	Truss EJ6A	Truss Type SPECIAL	Qty 6	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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Scale = 1/23.1

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 0.18	Vert(LL)	0.01	8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.15	Vert(TL)	-0.01	8	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.11	Horz(TL)	0.01	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 36 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 5=50/Mechanical, 2=379/0-5-8, 6=211/Mechanical

Max Horz 2=271 (load case 5)

Max Uplift 5=-49 (load case 5), 2=-145 (load case 5), 6=-110 (load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-322/0, 3-4=-487/186, 4-5=-39/21

BOT CHORD 2-9=-131/210, 8-9=-172/297, 7-8=-245/342, 6-7=0/0

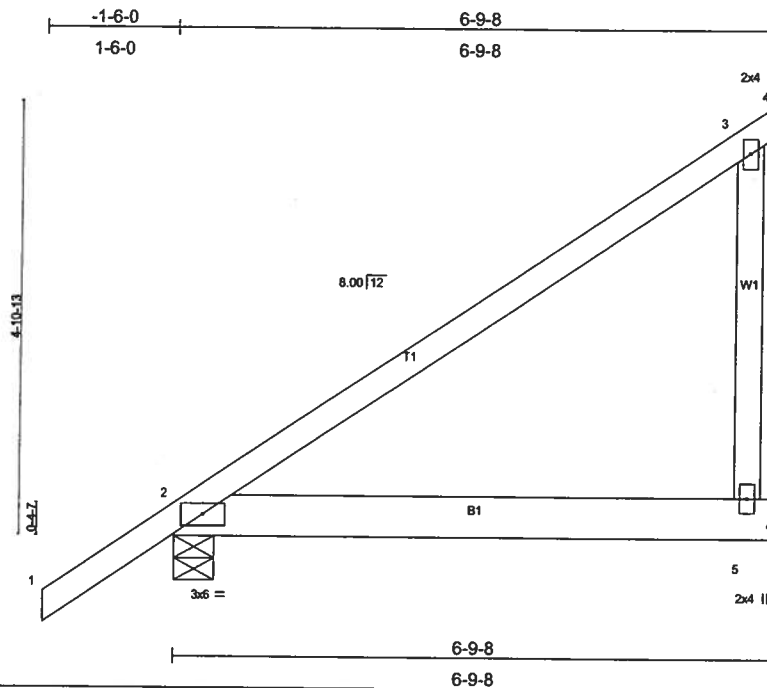
WEBS 3-9=-132/130, 3-8=-149/191, 4-8=-155/328, 4-7=-397/284

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5, 145 lb uplift at joint 2 and 110 lb uplift at joint 6.

LOAD CASE(S) Standard

Job L205488	Truss EJ6B	Truss Type JACK	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mittek Industries, Inc. Thu Aug 10 16:07:57 2006 Page 1		



Scale = 1:24.8

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(LL) -0.02 2-5 >999 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.03 2-5 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 n/a n/a		
	Code FBC2004/TPI2002			Weight: 37 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=370/0-5-8, 5=255/Mechanical
 Max Horz 2=273(load case 5)
 Max Uplift 2=142(load case 5), 5=163(load case 5)

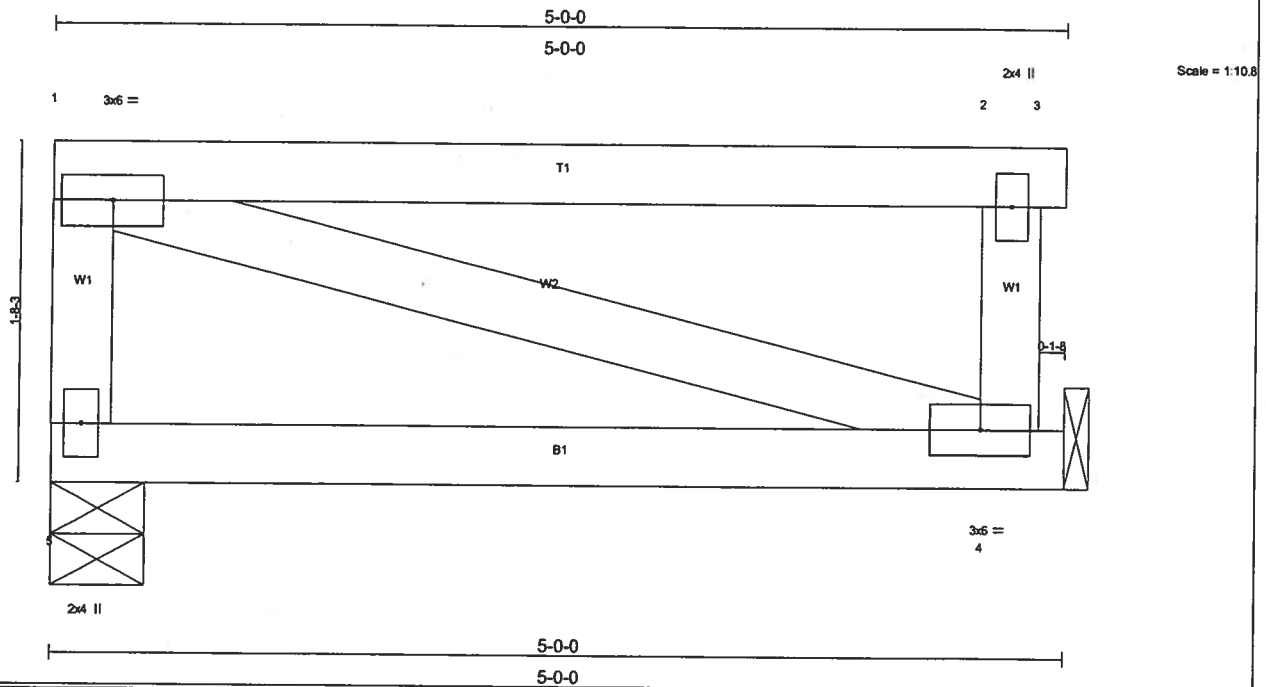
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/48, 2-3=-134/69, 3-4=-2/0
 BOT CHORD 2-5=0/0
 WEBS 3-5=-161/182

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2 and 163 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L205488	Truss FJ5	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:08:00 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/180
TCDL 7.0	Plates Increase 1.25	BC 0.15	Vert(LL) -0.02 4-5 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.04 4-5 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 4 n/a n/a		
	Code FBC2004/TPI2002			Weight: 25 lb	

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

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

REACTIONS (lb/size) 5=192/0-5-8, 4=197/Mechanical
 Max Uplift 5=73(load case 3), 4=81(load case 4)

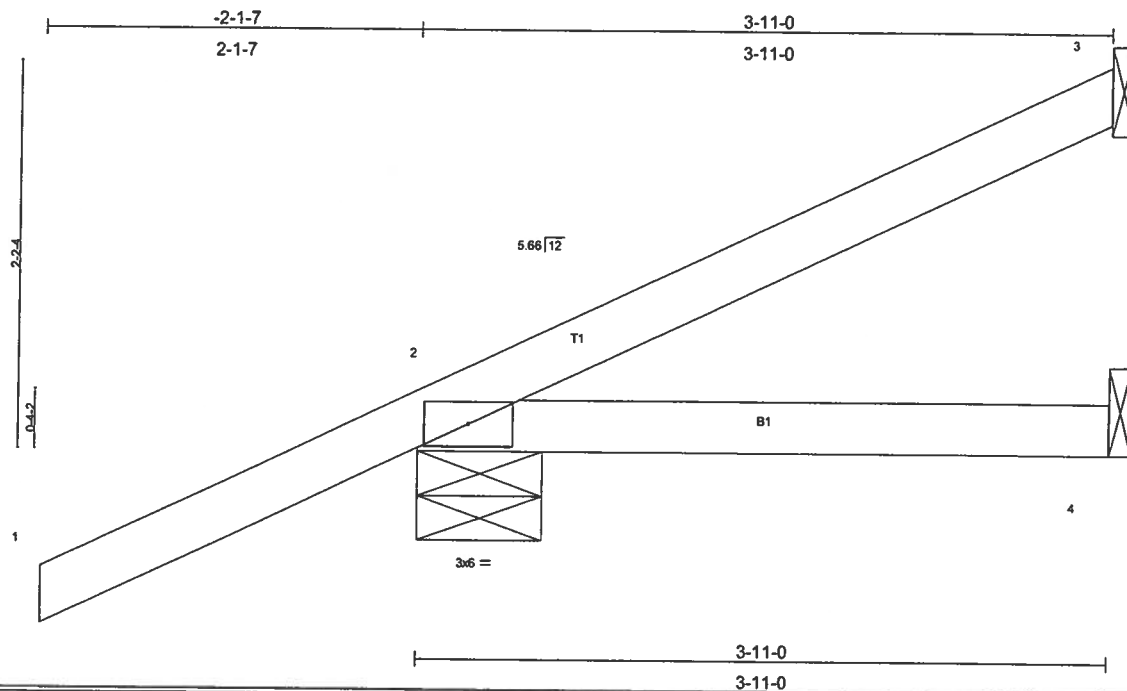
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-5=-124/148, 1-2=0/0, 2-3=0/0, 2-4=-128/146
 BOT CHORD 4-5=0/0
 WEBS 1-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 5 and 81 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	HJ3	JACK	1	1	
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
			6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:08:04 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(LL) -0.01 2-4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.01 2-4 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002				Weight: 16 lb

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

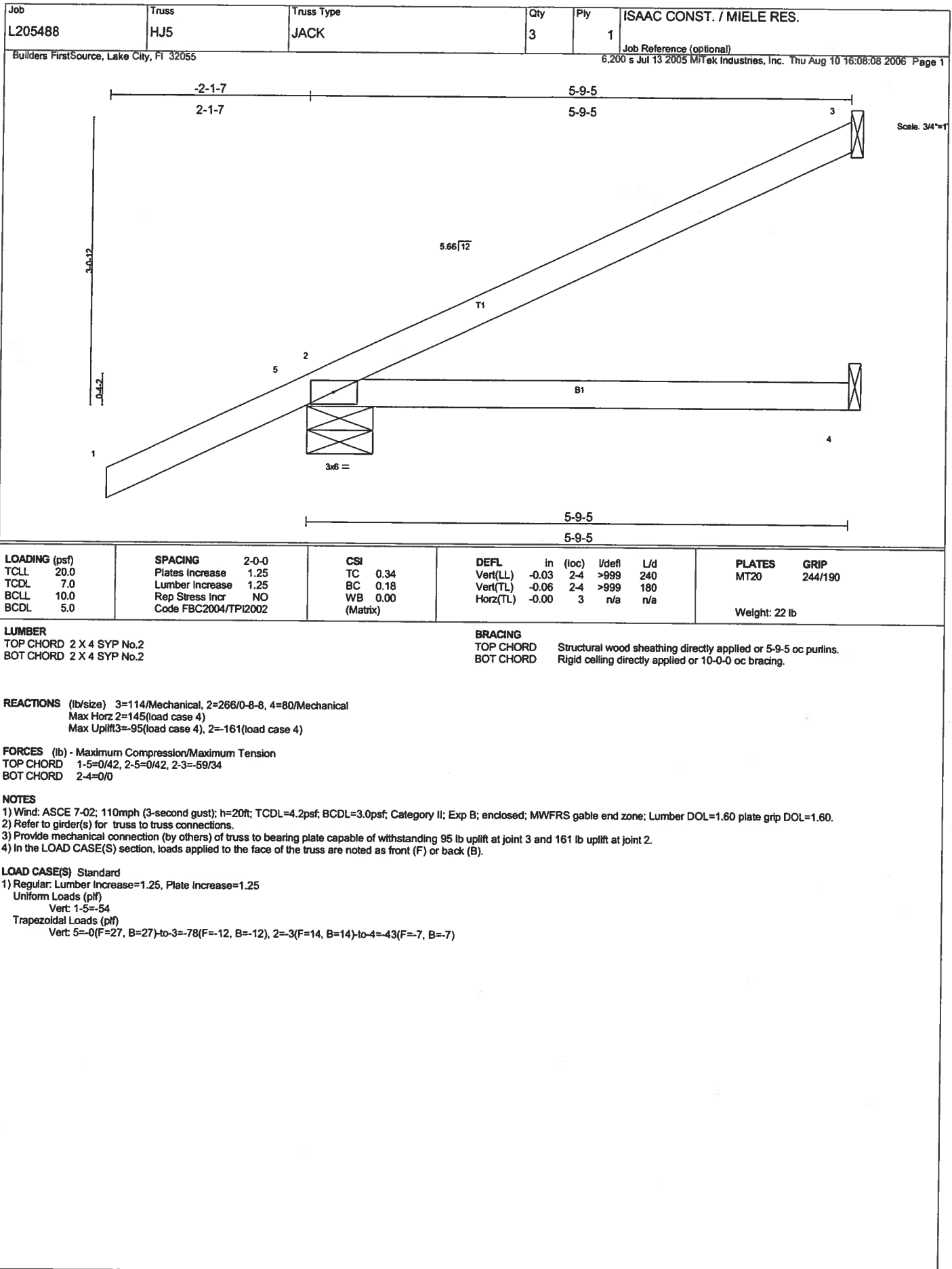
REACTIONS (lb/size) 3=49/Mechanical, 2=327/0-8-8, 4=53/Mechanical
Max Horz 2=148(load case 4)
Max Uplift 3=39(load case 5), 2=228(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-66/14
BOT CHORD 2-4=0/0

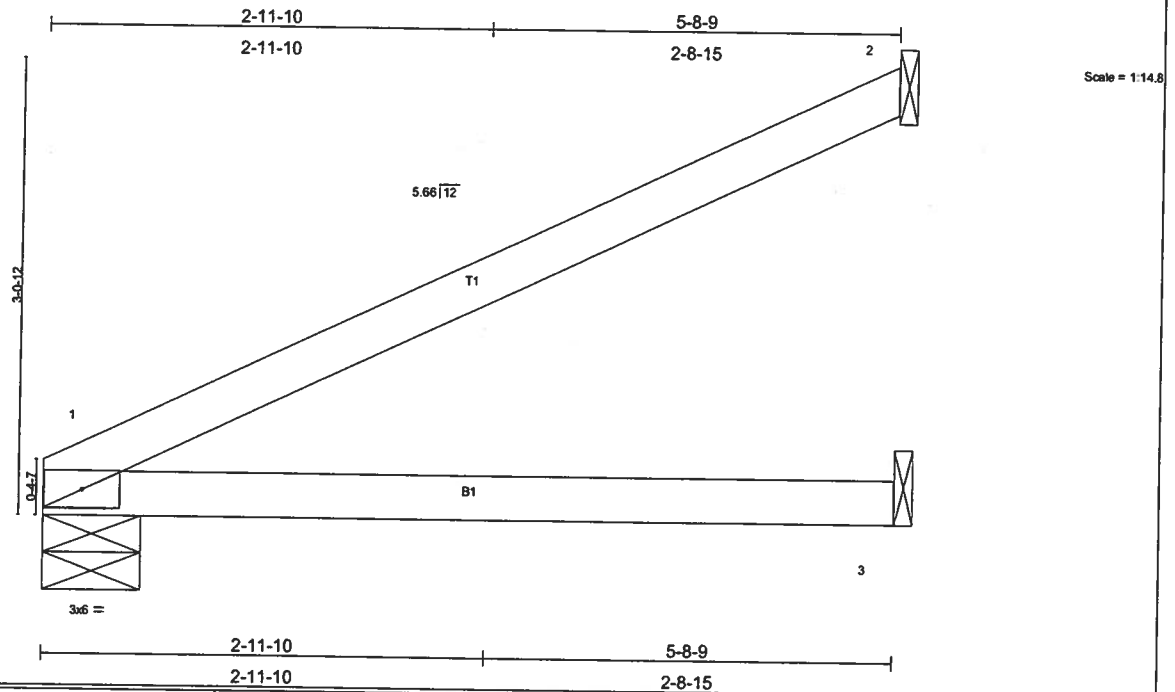
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 228 lb uplift at joint 2.

LOAD CASE(S) Standard



Job L205488	Truss HJ5A	Truss Type JACK	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:08:11 2006 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.17	Vert(LL) -0.03 1-3 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.06 1-3 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 2 n/a n/a		
	Code FBC2004/TPI2002			Weight: 18 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=120/0-7-12, 2=142/Mechanical, 3=79/Mechanical
Max Horz 1=89(load case 4)
Max Uplift 1=-1(load case 4), 2=-131(load case 4)

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

NOTES

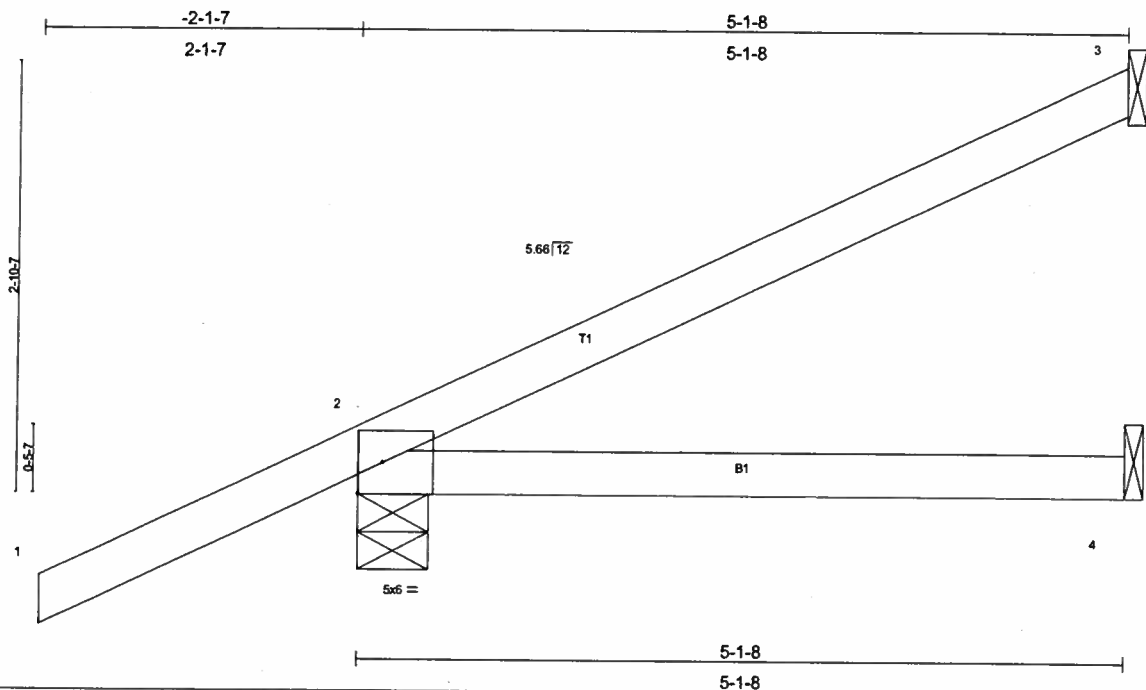
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 131 lb uplift at joint 2.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Trapezoidal Loads (plf)

Vert: 1=-4(F=25, B=25)-to-2=-78(F=-12, B=-12), 1=-2(F=14, B=14)-to-3=-43(F=-7, B=-7)

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	HJ5B	JACK	1	1	
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:08:15 2006 Page 1					



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(LL) 0.04 2-4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) 0.03 2-4 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			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 5-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=83/Mechanical, 2=250/0-5-11, 4=62/Mechanical
Max Horz 2=125(load case 4)
Max Uplift 3=65(load case 4), 2=-227(load case 4), 4=-48(load case 2)

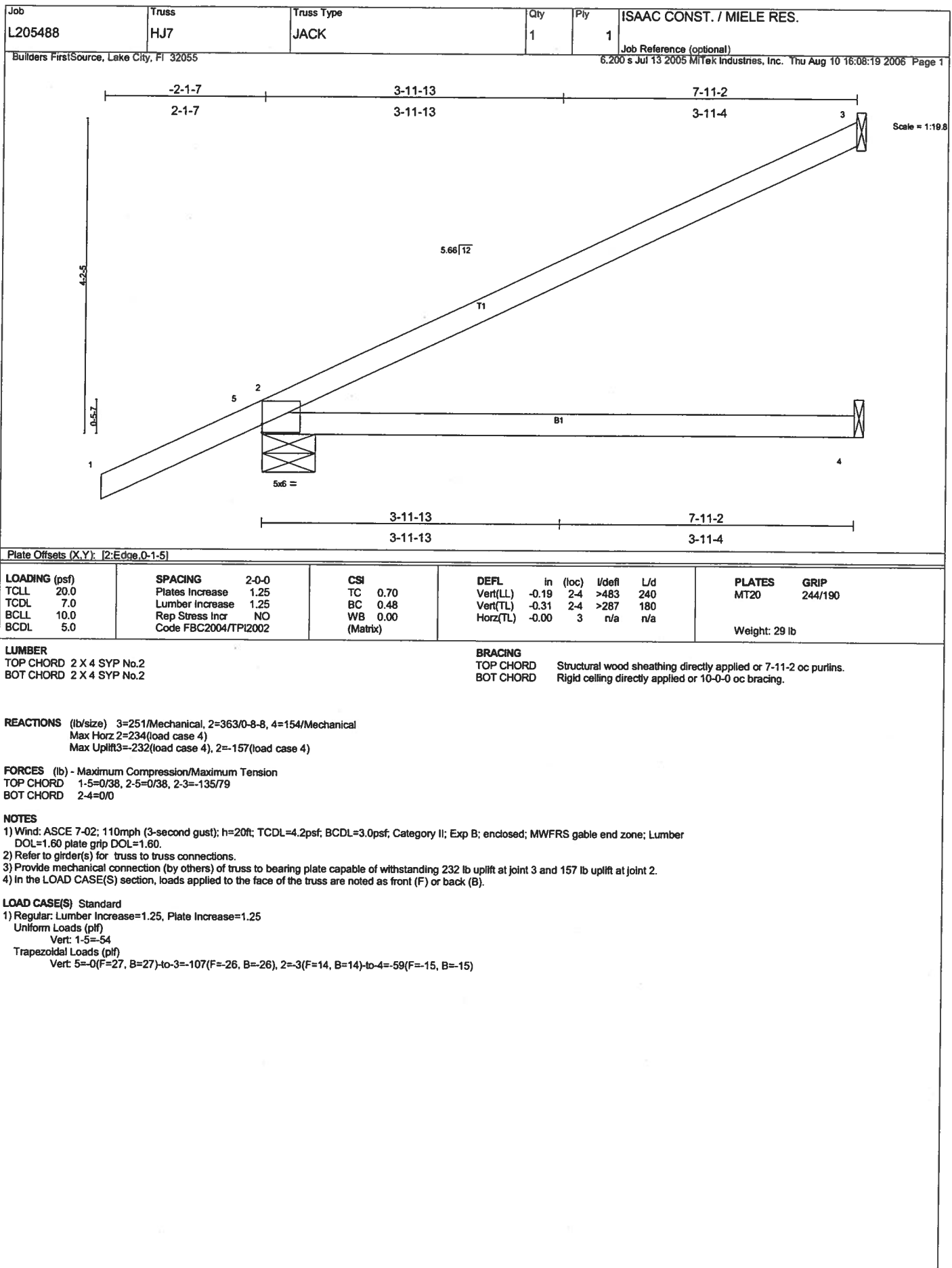
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-43/24
BOT CHORD 2-4=0/0

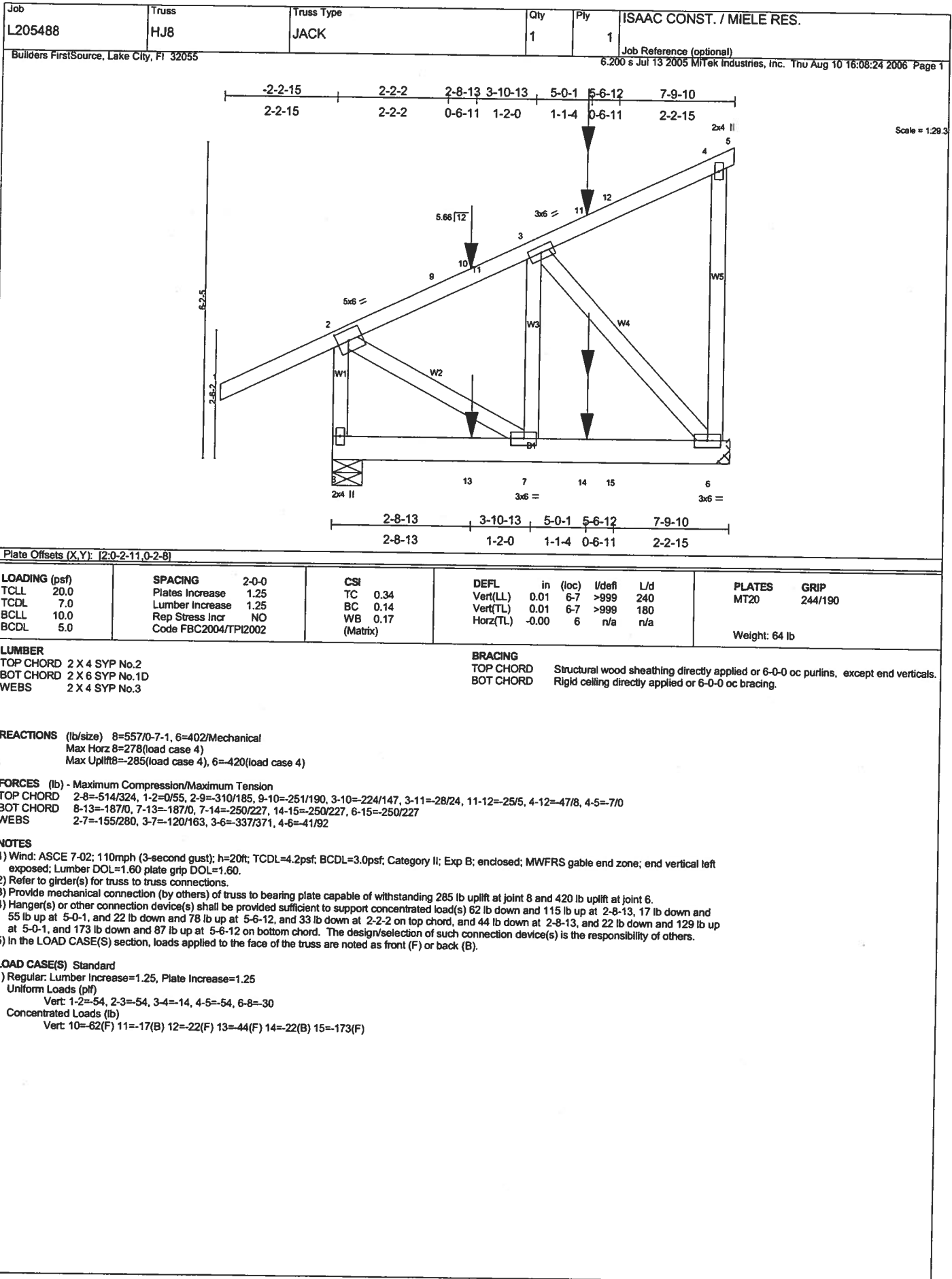
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 3, 227 lb uplift at joint 2 and 48 lb uplift at joint 4.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

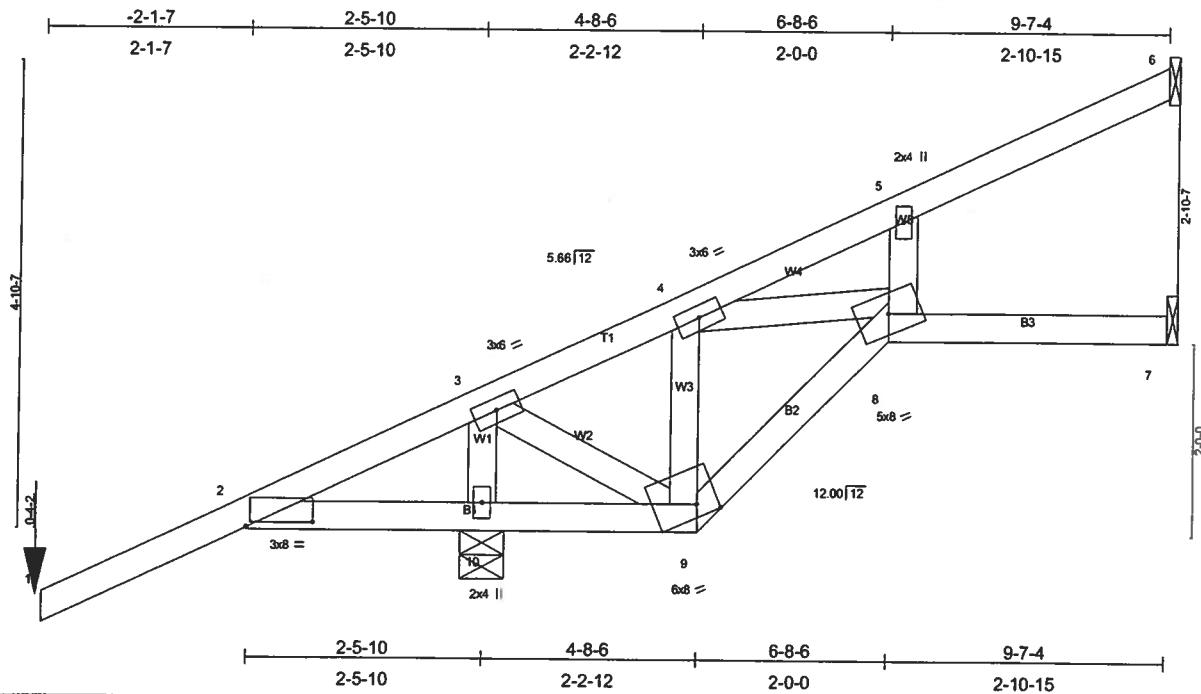
LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-3(F=25, B=25)-to-3=-69(F=-8, B=-8), 2=0(F=15, B=15)-to-4=-38(F=-4, B=-4)





Job L205488	Truss HJ9A	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:08:27 2006 Page 1		



Scale = 1:22.9

Plate Offsets (X,Y): [2-0-8-7, 0-0-10], [9-0-2-11, Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.53	Vert(LL) -0.11 8 >744 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.30	Vert(TL) -0.19 8 >459 180		
BCCL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.08 7 n/a n/a		
	Code FBC2004/TP2002				
				Weight: 47 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
 10-0-0 oc bracing: 8-9.

REACTIONS (lb/size) 6=103/Mechanical, 7=311/Mechanical, 10=753/0-5-8
 Max Horz 10=175(load case 4)
 Max Uplift 6=15(load case 4), 7=139(load case 5), 10=453(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-13/85, 2-3=-617/793, 3-4=-91/93, 4-5=-100/123, 5-6=-7/44
 BOT CHORD 2-10=-742/630, 9-10=-742/455, 8-9=-93/113, 7-8=-3/2
 WEBS 3-10=-722/423, 3-9=-574/941, 4-9=-167/98, 4-8=-132/0, 5-8=-218/272

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 6, 139 lb uplift at joint 7 and 453 lb uplift at joint 10.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 34 lb up at -2-1-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

Concentrated Loads (lb)

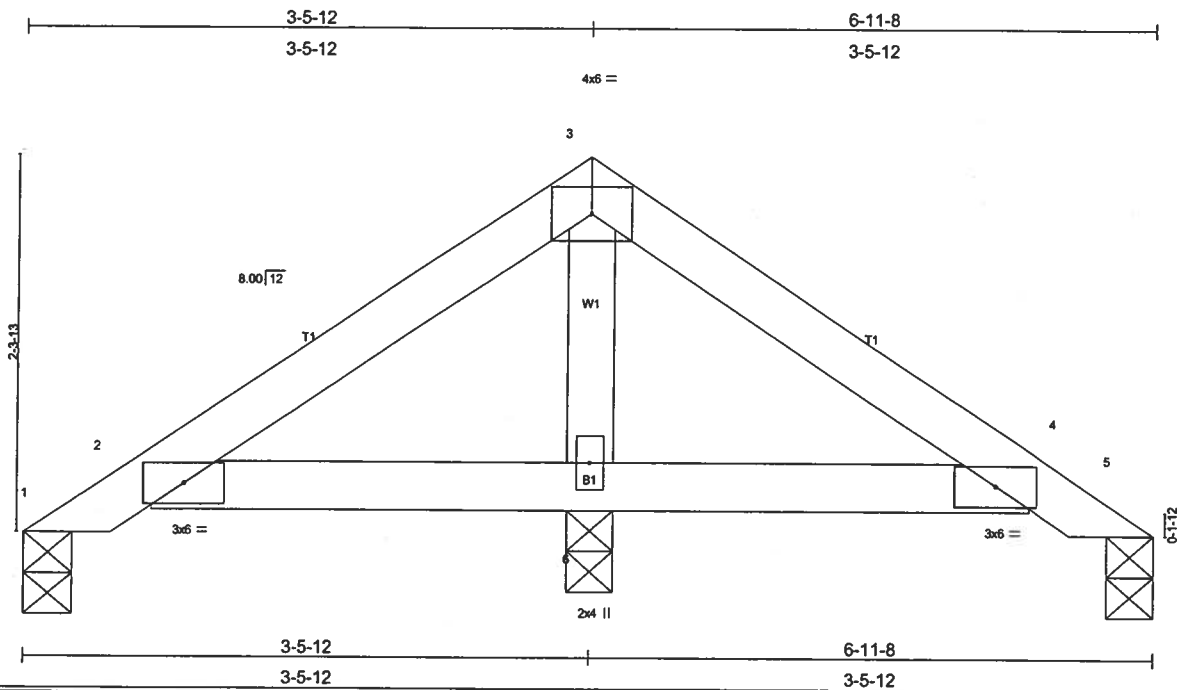
Vert: 1=-90(F)

Trapezoidal Loads (plf)

Vert: 2=0(F=15, B=15)-to-9=-99(F=-35, B=-35), 9=-99(F=-35, B=-35)-to-8=-142(F=-56, B=-56), 8=-142(F=-56, B=-56)-to-7=-202(F=-86, B=-86)

Job L205488	Truss PB06	Truss Type PIGGYBACK	Qty 4	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:08:32 2006 Page 1

Scale = 1:13.5

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.09	Vert(LL)	-0.01	2-6	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.08	Vert(TL)	-0.01	2-6	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	5	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
 WEBS 2 X 4 SYP No.3

BRACING

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

REACTIONS

(lb/size) 1=41/0-3-8, 6=454/0-3-8, 5=41/0-3-8
 Max Horz 1=77(load case 4)
 Max Uplift 1=15(load case 6), 6=148(load case 5), 5=32(load case 3)
 Max Grav 1=62(load case 9), 6=454(load case 1), 5=62(load case 10)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-67/71, 2-3=-59/183, 3-4=-59/183, 4-5=-29/21
 BOT CHORD 2-6=-109/104, 4-6=-109/104
 WEBS 3-6=-327/187

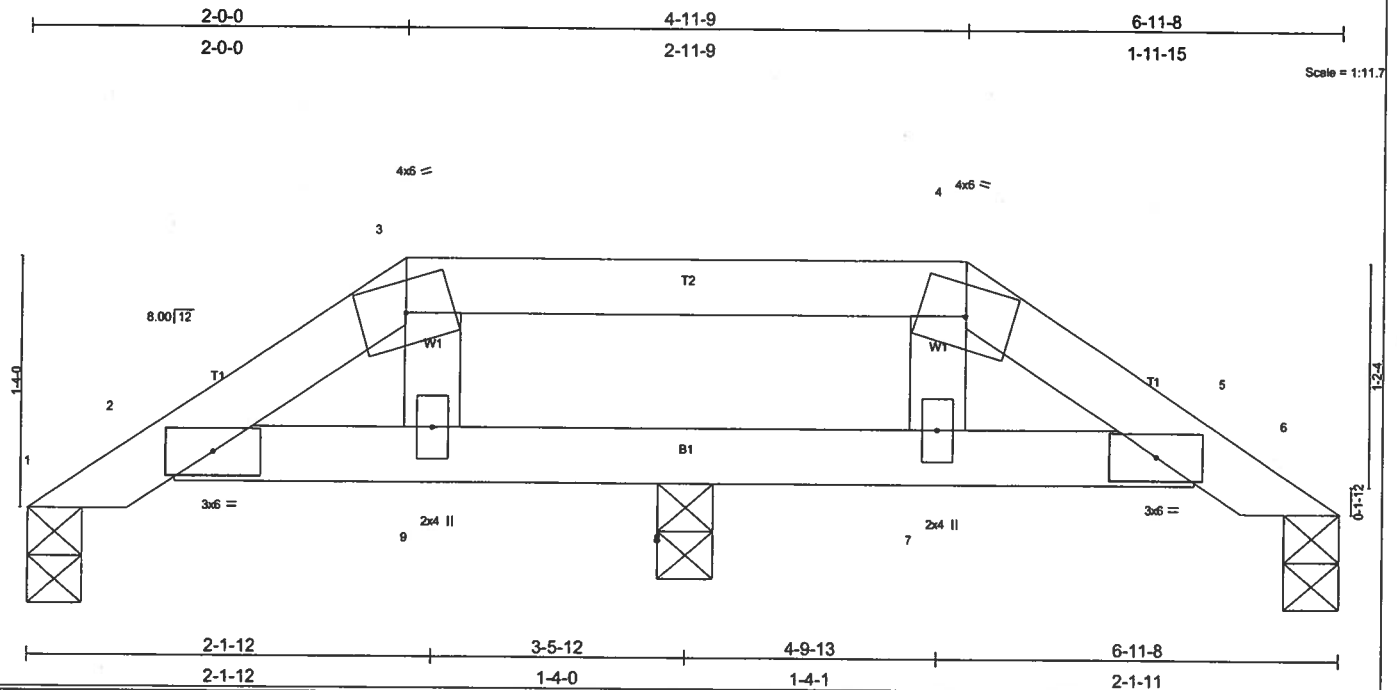
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 148 lb uplift at joint 6 and 32 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L205488	Truss PB06A	Truss Type HIP CAP	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:08:36 2006 Page 1		

Scale = 1:11.7



LOADING (psf) TCLL 20.0 TCCL 7.0 BCLL 10.0 BCCL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2004/TPI2002	CSI TC 0.14 BC 0.20 WB 0.02 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) 0.01 7 >999 240 Vert(TL) -0.01 5-7 >999 180 Horz(TL) 0.01 6 n/a n/a	PLATES GRIP MT20 244/190 Weight: 21 lb
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LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 1=141/0-3-8, 6=141/0-3-8, 8=256/0-3-8
Max Horz 1=43(load case 3)
Max Uplift 1=51(load case 5), 6=55(load case 6), 8=68(load case 4)
Max Grav 1=143(load case 9), 6=143(load case 10), 8=256(load case 1)

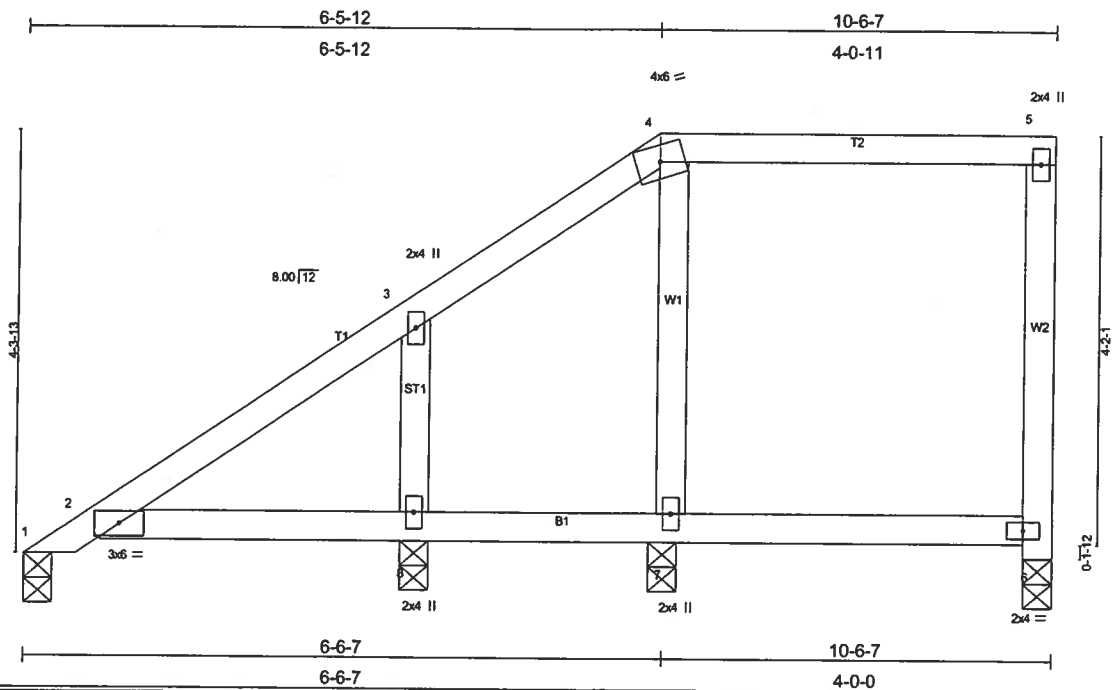
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-70/49, 2-3=-146/115, 4-5=-146/115, 5-6=-70/49, 3-4=-124/126
BOT CHORD 2-9=-80/138, 8-9=-69/124, 7-8=-69/124, 5-7=-78/138
WEBS 3-9=-89/96, 4-7=-89/96

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCCL=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.
- Provide adequate drainage to prevent water ponding.
- Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1, 55 lb uplift at joint 6 and 68 lb uplift at joint 8.

LOAD CASE(S) Standard

Job L205488	Truss PB10	Truss Type MONO HIP PIGGYBACK	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 M/Tek Industries, Inc. Thu Aug 10 16:08:40 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	In (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(LL) 0.01 2-8 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.02 2-8 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 6 n/a n/a		
	Code FBC2004/TPI2002			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
 OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 1=136/0-3-8, 7=242/0-3-8, 6=160/0-3-8, 8=311/0-3-8
 Max Horz 1=196(load case 5)
 Max Uplift 7=83(load case 4), 6=81(load case 3), 8=204(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-193/12, 2-3=-159/41, 3-4=-67/11, 4-5=-18/10, 5-6=-103/96
 BOT CHORD 2-8=-17/23, 7-8=-17/23, 6-7=-11/17
 WEBS 4-7=-157/171, 3-8=-179/190

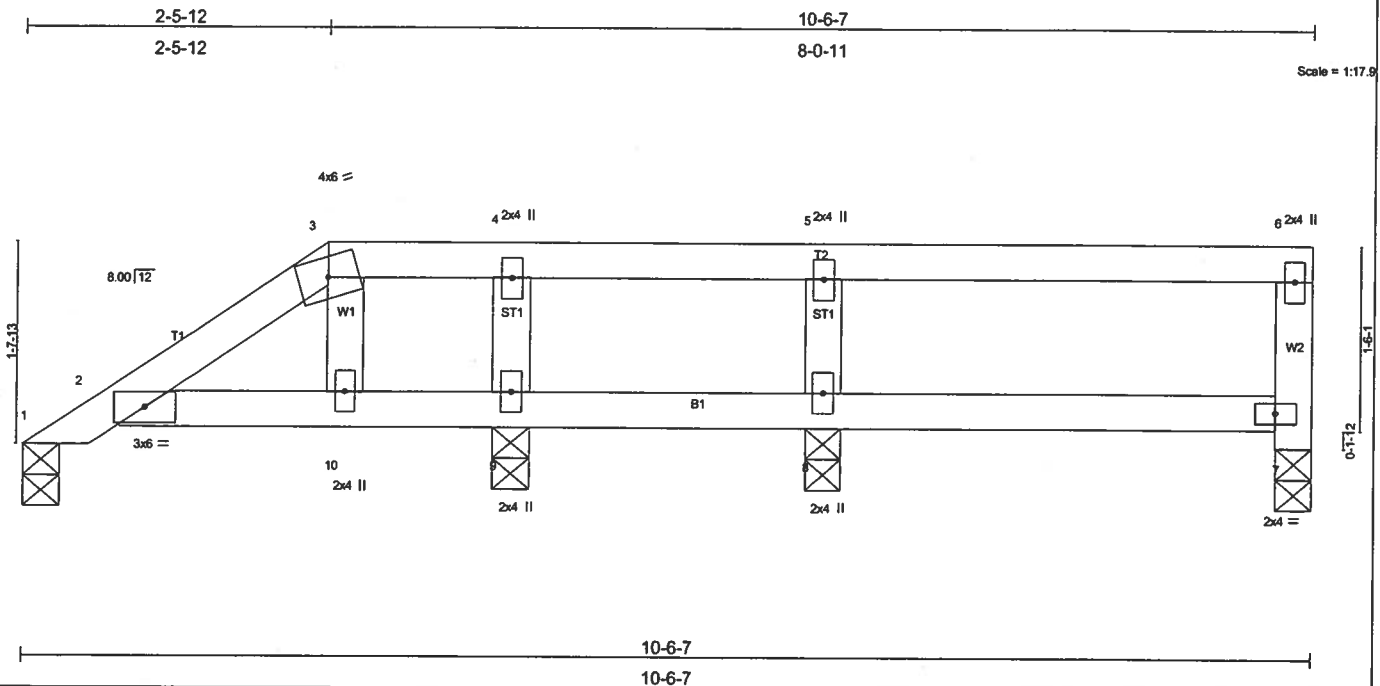
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 7, 81 lb uplift at joint 6 and 204 lb uplift at joint 8.

LOAD CASE(S) Standard

Job L205488	Truss PB10A	Truss Type MONO HIP PIGGYBACK	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:06:44 2006 Page 1		

Scale = 1:17.9



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.11	Vert(LL) 0.01 2-10 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Vert(TL) -0.02 2-10 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2004/TPI2002			Weight: 37 lb	

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

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

REACTIONS (lb/size) 1=152/0-3-8, 7=168/0-3-8, 8=253/0-3-8, 9=276/0-3-8
 Max Horz 1=73(load case 5)
 Max Uplift 1=37(load case 5), 7=75(load case 3), 8=146(load case 3), 9=100(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-75/5, 2-3=-112/41, 3-4=-80/44, 4-5=-80/45, 5-6=-80/45, 6-7=-106/99
 BOT CHORD 2-10=-50/80, 9-10=-45/80, 8-9=-45/80, 7-8=-45/80
 WEBS 3-10=-3/40, 5-8=-172/173, 4-9=-149/121

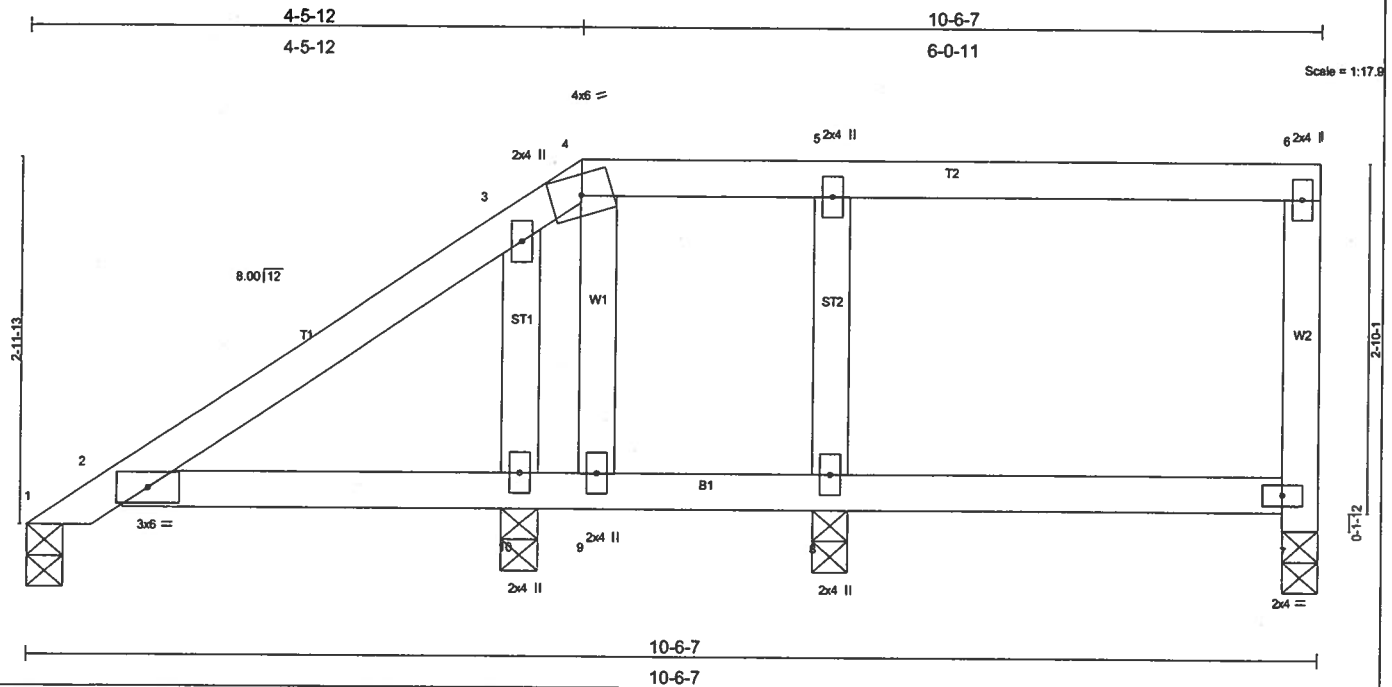
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 75 lb uplift at joint 7, 146 lb uplift at joint 8 and 100 lb uplift at joint 9.

LOAD CASE(S) Standard

Job L205488	Truss PB10B	Truss Type MONO HIP PIGGYBACK	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mirtek Industries, Inc. Thu Aug 10 16:08:49 2006 Page 1		

Scale = 1:17.8



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.15	Vert(LL)	0.01	2-10	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.12	Vert(TL)	-0.02	2-10	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.01	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 45 lb	

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

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

REACTIONS (lb/size) 1=138/0-3-8, 7=159/0-3-8, 8=256/0-3-8, 10=296/0-3-8
 Max Horz 1=134(load case 5)
 Max Uplift 7=75(load case 3), 8=151(load case 3), 10=175(load case 5)

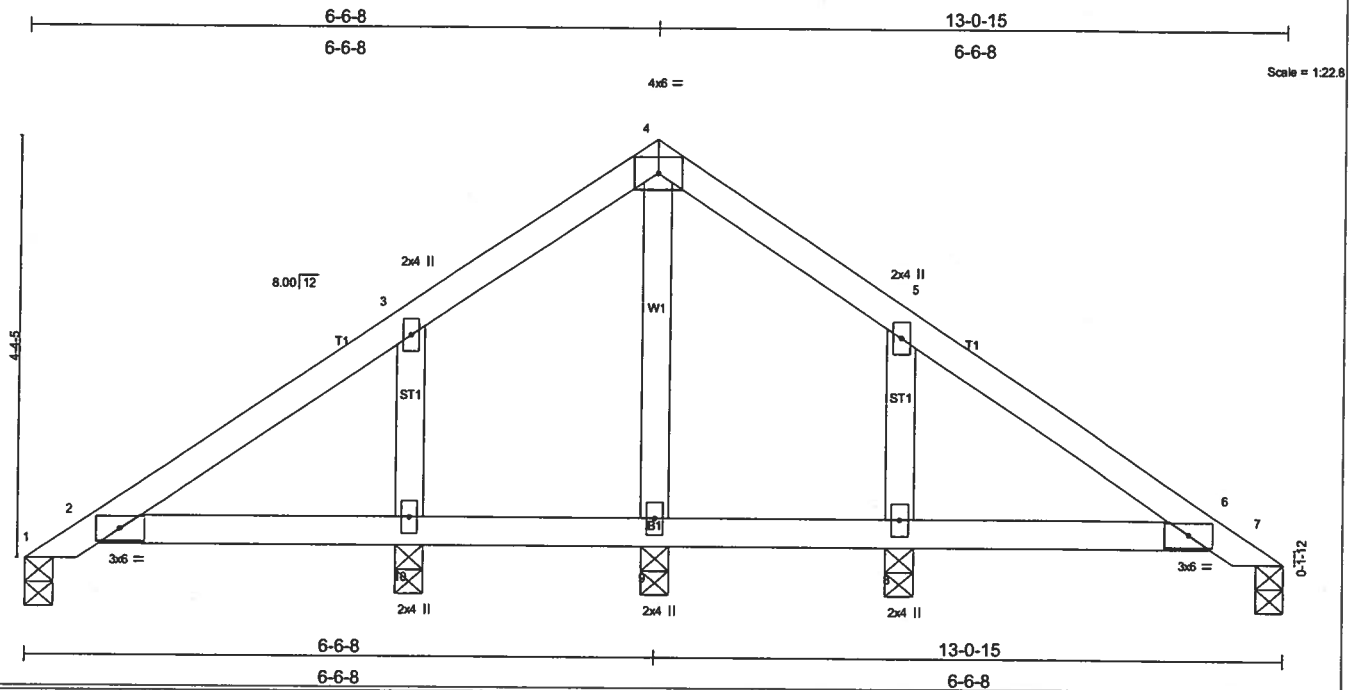
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-118/5, 2-3=-90/35, 3-4=-64/41, 4-5=-26/15, 5-6=-26/16, 6-7=-101/95
 BOT CHORD 2-10=-16/25, 9-10=-16/25, 8-9=-16/26, 7-8=-16/26
 WEBS 4-9=-18/6, 5-8=-171/173, 3-10=-167/184

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 7, 151 lb uplift at joint 8 and 175 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	PB13	PIGGYBACK	8	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6/2005 Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:08:53 2006 Page 1		



LOADING (psf)		SPACING 2-0-0		CSI		DEFL	In	(loc)	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vent(LL)	0.01	2-10	>999	MT20	244/190
BCDL	7.0	Lumber Increase	1.25	BC	0.09	Vent(TL)	-0.01	2-10	>999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.01	7	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 52 lb	

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

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

REACTIONS (lb/size) 1=55/0-3-8, 7=55/0-3-8, 9=306/0-3-8, 8=317/0-3-8, 10=317/0-3-8
 Max Horiz 1=-148(load case 3)
 Max Uplift 1=-34(load case 3), 7=-14(load case 6), 9=-23(load case 5), 8=-187(load case 6), 10=-193(load case 5)
 Max Grav 1=70(load case 9), 7=70(load case 10), 9=306(load case 1), 8=324(load case 10), 10=324(load case 9)

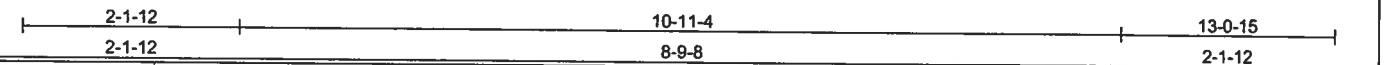
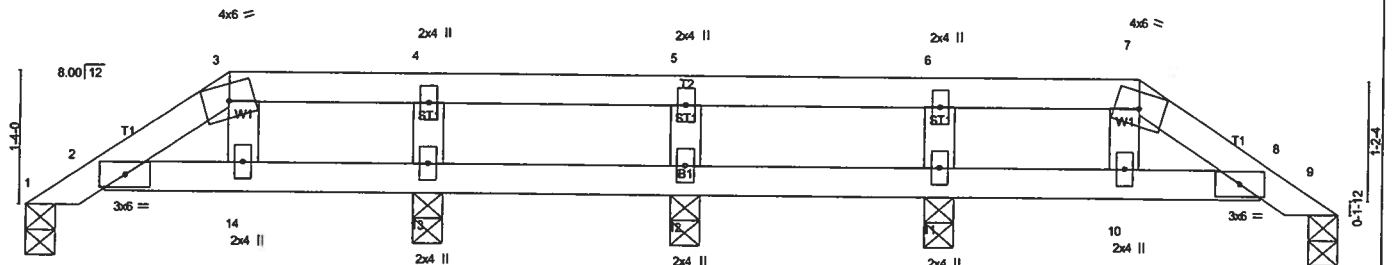
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-150/150, 2-3=-120/206, 3-4=-34/174, 4-5=-10/174, 5-6=-89/206, 6-7=-34/12
BOT CHORD 2-10=-122/133, 9-10=-122/133, 8-9=-122/133, 6-8=-122/133
WEBS 4-9=-263/48, 5-8=-197/186, 3-10=-197/190

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; $TCDF=4.2psf$; $BCDL=3.0psf$; 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) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 14 lb uplift at joint 7, 23 lb uplift at joint 9, 187 lb uplift at joint 8 and 193 lb uplift at joint 10.

LOAD CASE(S) Standard

Job L205488	Truss PB13A	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:08:58 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.11	Vert(LL) 0.01 14 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.03	Vert(TL) -0.01 14 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 42 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) 1=152/0-3-8, 9=152/0-3-8, 12=149/0-3-8, 11=299/0-3-8, 13=299/0-3-8
 Max Horz 1=43(load case 4)
 Max Uplift 1=51(load case 5), 9=55(load case 6), 12=95(load case 3), 11=128(load case 3), 13=140(load case 4)
 Max Grav 1=152(load case 1), 9=152(load case 1), 12=159(load case 10), 11=301(load case 10), 13=301(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-75/45, 2-3=-146/70, 7-8=-146/70, 8-9=-75/39, 3-4=-116/76, 4-5=-116/77, 5-6=-116/77, 6-7=-116/76
 BOT CHORD 2-14=-42/114, 13-14=-37/116, 12-13=-37/116, 11-12=-37/116, 10-11=-37/116, 8-10=-39/114
 WEBS 3-14=0/30, 7-10=0/26, 5-12=-113/116, 6-11=-173/130, 4-13=-173/130

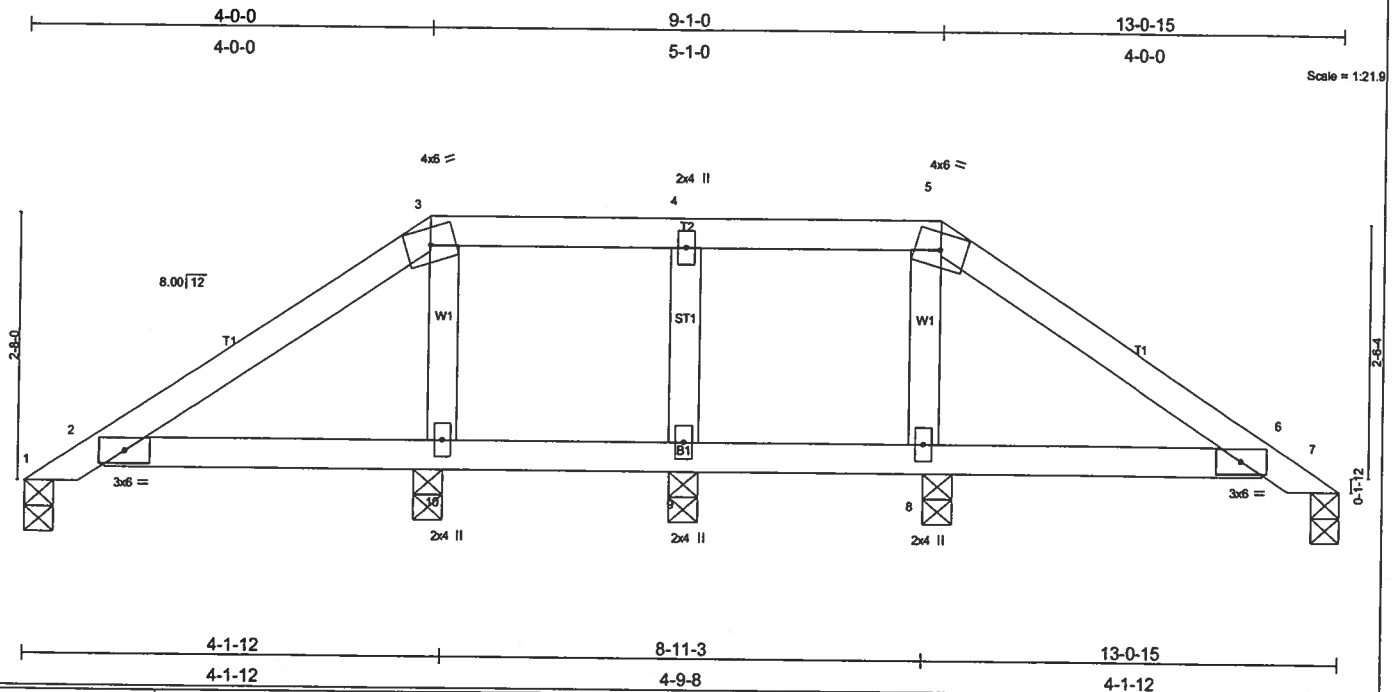
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Provide adequate drainage to prevent water ponding.
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1, 55 lb uplift at joint 9, 95 lb uplift at joint 12, 128 lb uplift at joint 11 and 140 lb uplift at joint 13.

LOAD CASE(S) Standard

Job L205488	Truss PB13B	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:09:02 2006 Page 1		

Scale = 1:21.9



LOADING (psf)		SPACING		CSI		DEFL				PLATES		GRIP	
TCCL	20.0	2-0-0		TC	0.13	in	(loc)	I/defl	L/d	MT20		244/190	
TCOL	7.0	Plates Increase	1.25	BC	0.09	Vert(LL)	0.01	2-10	>999				
BCCL	10.0	Lumber Increase	1.25	WB	0.05	Vert(TL)	-0.01	2-10	>999				
BCDL	5.0	Rep Stress Incr	YES	(Matrix)		Horz(TL)	0.00	7	n/a				
		Code FBC2004/TPI2002								Weight: 48 lb			

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

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

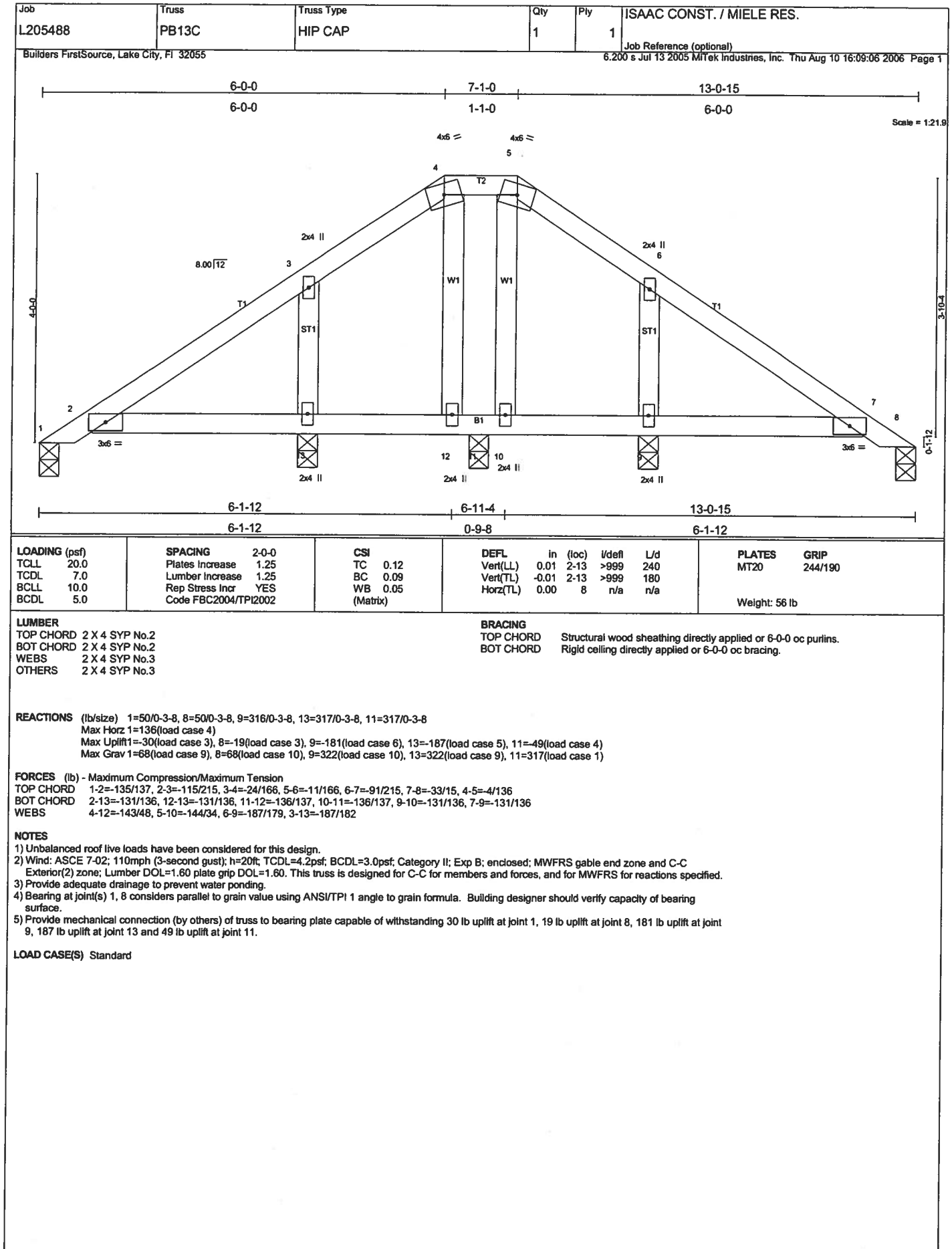
REACTIONS (lb/size) 1=45/0-3-8, 7=45/0-3-8, 10=410/0-3-8, 8=410/0-3-8, 9=142/0-3-8
 Max Horz 1=90(load case 4)
 Max Uplift 1=15(load case 6), 7=34(load case 3), 10=159(load case 5), 8=142(load case 6), 9=115(load case 3)
 Max Grav 1=67(load case 9), 7=67(load case 10), 10=410(load case 1), 8=410(load case 1), 9=165(load case 9)

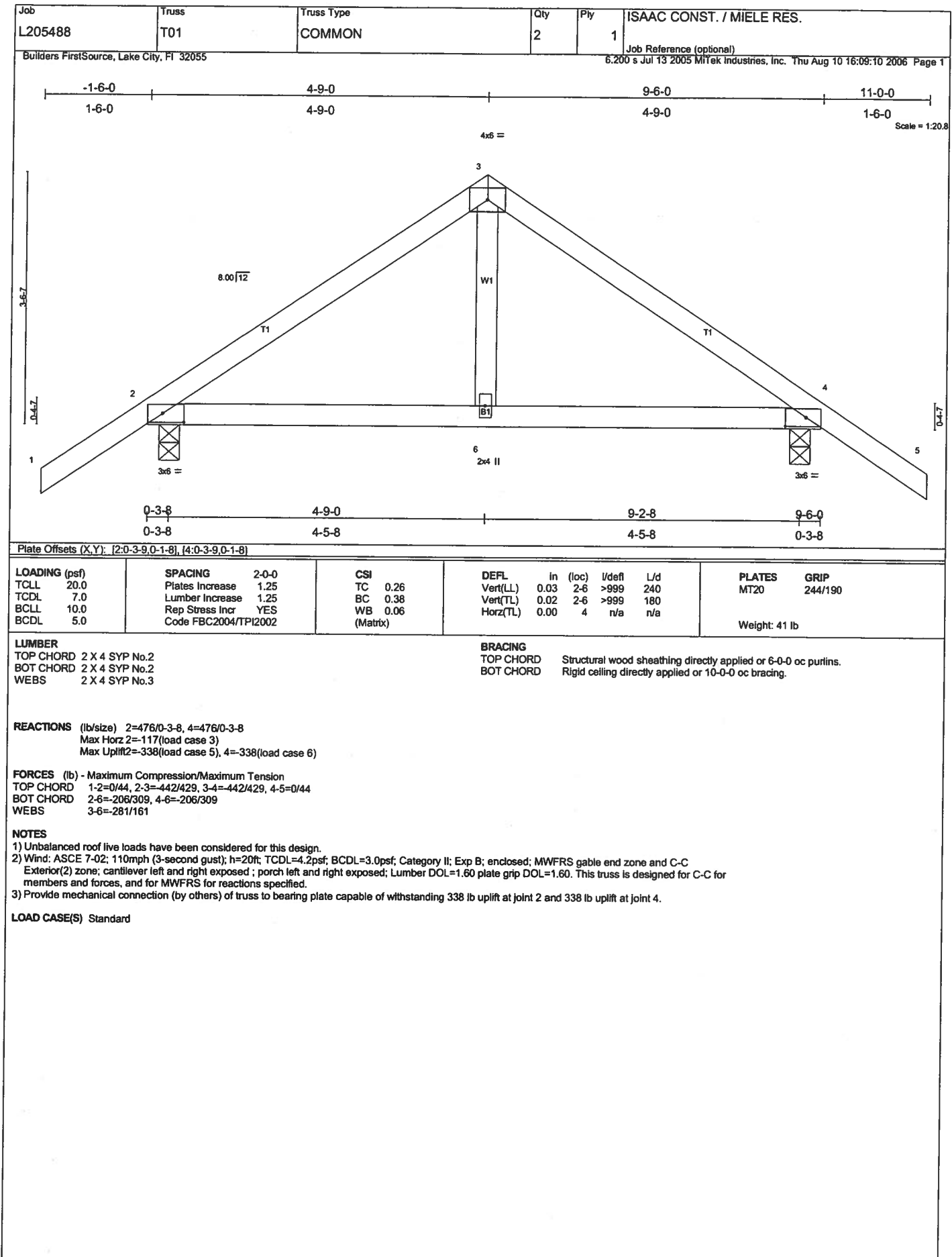
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=80/86, 2-3=83/232, 5-6=72/232, 6-7=32/22, 3-4=19/163, 4-5=19/163
 BOT CHORD 2-10=144/119, 9-10=162/131, 8-9=162/131, 6-8=144/119
 WEBS 3-10=285/176, 5-8=285/176, 4-9=124/126

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Provide adequate drainage to prevent water ponding.
- Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 34 lb uplift at joint 7, 159 lb uplift at joint 10, 142 lb uplift at joint 8 and 115 lb uplift at joint 9.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	T01G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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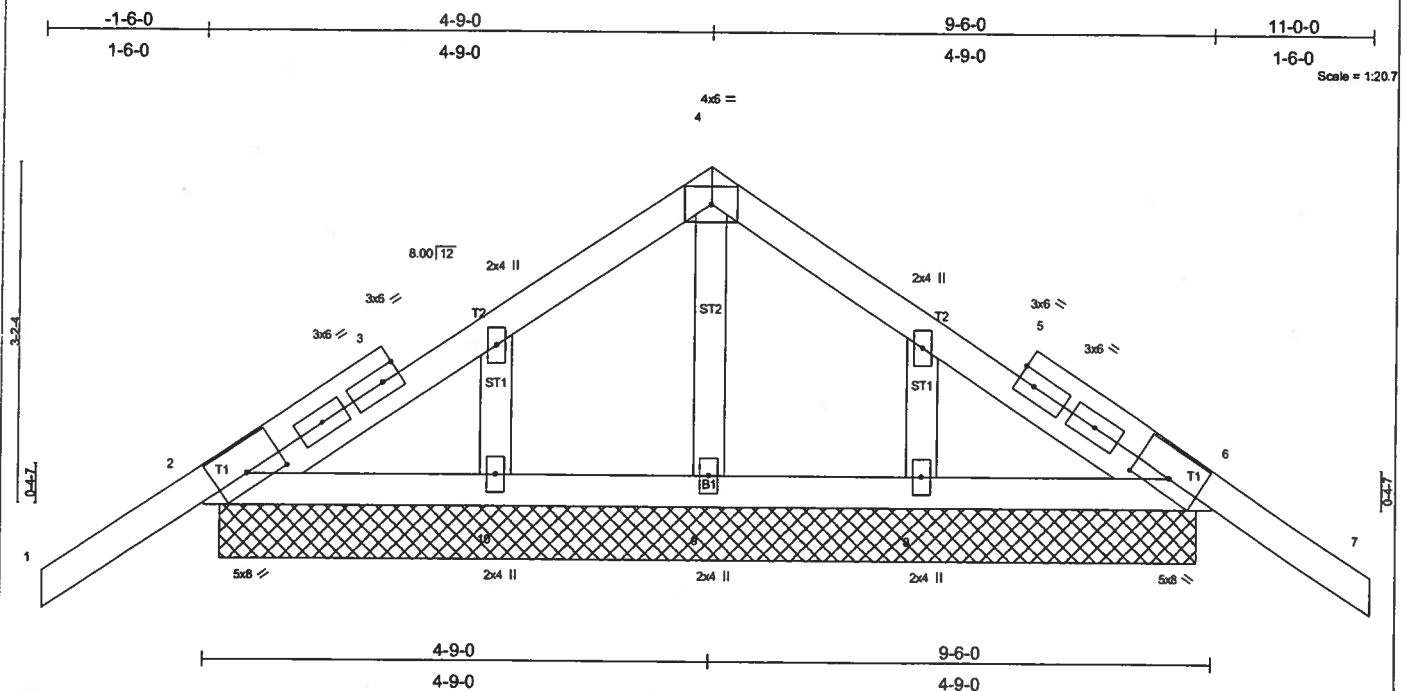


Plate Offsets (X,Y): [2:0-4-5,0-1-12], [6:0-4-5,0-1-12]

[illegible]

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=403/9-2-8, 6=403/9-2-8, 9=12/9-2-8, 10=133/9-2-8, 8=133/9-2-8
 Max Horz 2=104(load case 3)
 Max Uplift2=240(load case 5), 6=-241(load case 6), 10=-19(load case 5), 8=-19(load case 6)
 Max Grav 2=403(load case 1), 6=403(load case 1), 9=31(load case 5), 10=135(load case 9), 8=135(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-3=-362/170, 3-4=-302/184, 4-5=-302/184, 5-6=-362/170, 6-7=0/51
BOT CHORD 2-10=-68/251, 9-10=-68/251, 8-9=-68/251, 6-8=-68/251

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) Gable studs spaced at 2'-0" o.c.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 2, 241 lb uplift at joint 6, 19 lb uplift at joint 10 and 19 lb uplift at joint 8.
- 6) Non Standard bearing condition. Review required.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular. Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert 1-4=-64(F=10), 4-7=-64(F=10), 2-6=-30

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

Job L205488	Truss T02	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MilTek Industries, Inc. Thu Aug 10 16:09:19 2006 Page 1		

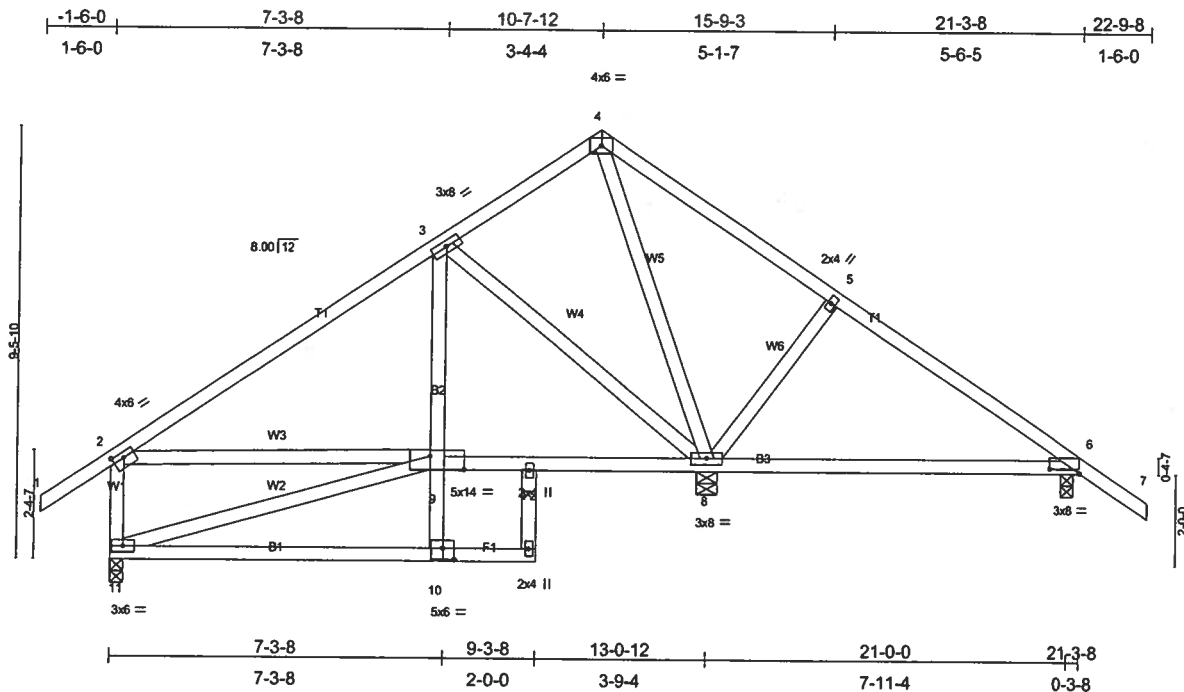


Plate Offsets (X,Y): [2:0-3-0-0-1-8], [6:0-8-3-0-1-2], [9:0-8-13-0-3-8], [10:0-3-0-0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.39	Vert(LL) 0.27 6-8 >363 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.44	Vert(TL) 0.23 6-8 >423 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 6 n/a n/a		
	Code FBC2004/TPI2002			Weight 142 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 "Except"
 B2 2 X 4 SYP No.3
 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) 6=320/0-3-8, 8=1055/0-5-8, 11=568/0-3-8
 Max Horz 11=313(load case 4)
 Max Uplift 6=-284(load case 6), 8=-472(load case 5), 11=-217(load case 5)
 Max Grav 6=359(load case 10), 8=1055(load case 1), 11=568(load case 1)

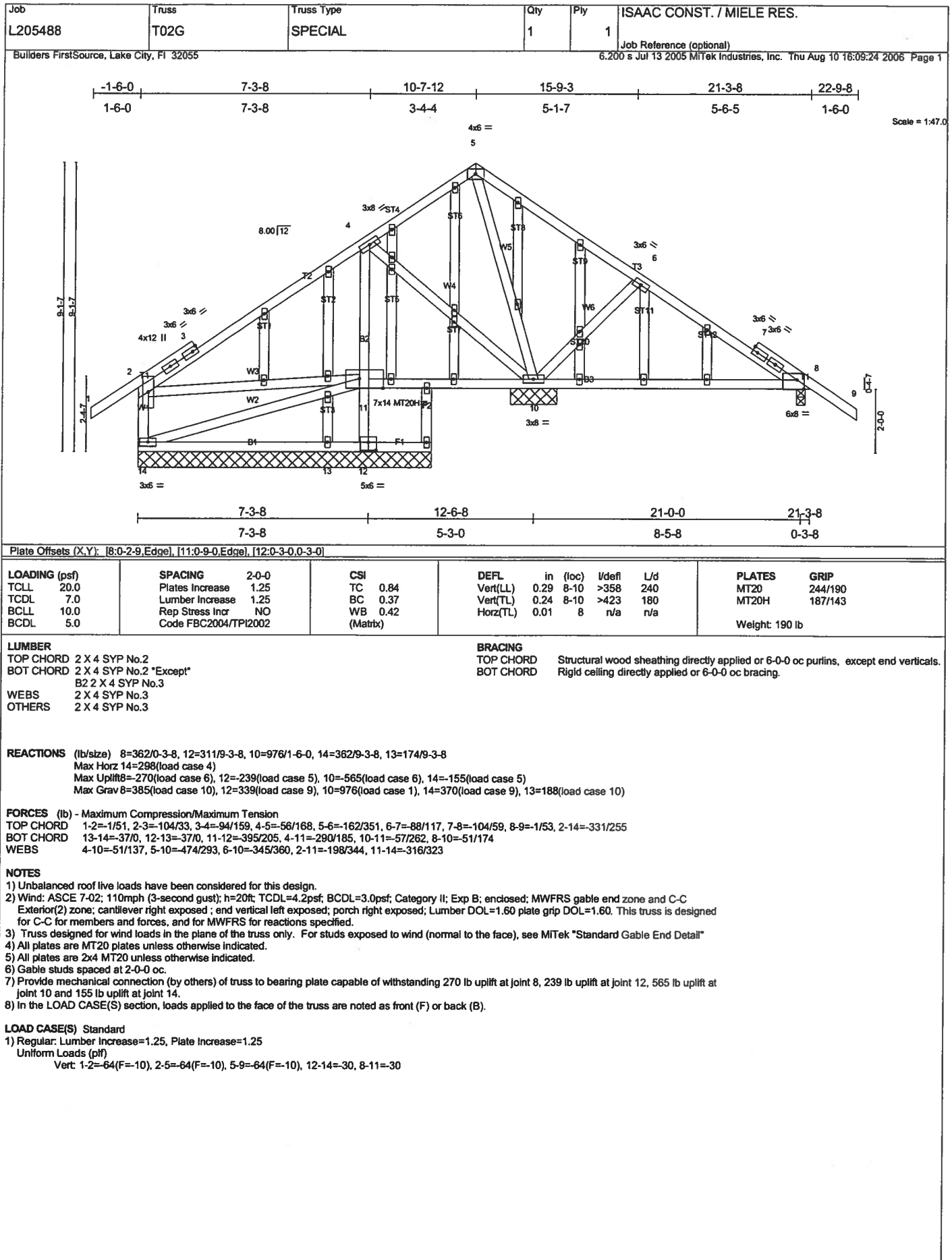
FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/49, 2-3=-463/151, 3-4=-38/127, 4-5=-8/246, 5-6=-136/118, 6-7=0/44, 2-11=-483/298
 BOT CHORD 10-11=-13/45, 9-10=0/104, 3-9=-31/188, 8-9=-174/328, 6-8=-68/88
 WEBS 3-8=432/271, 4-8=-343/59, 5-8=-279/297, 2-9=0/173, 9-11=-321/331

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever right exposed; end vertical left exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 6, 472 lb uplift at joint 8 and 217 lb uplift at joint 11.

LOAD CASE(S) Standard



Job L205488	Truss T03	Truss Type SPECIAL	Qty 4	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:09:29 2006 Page 1

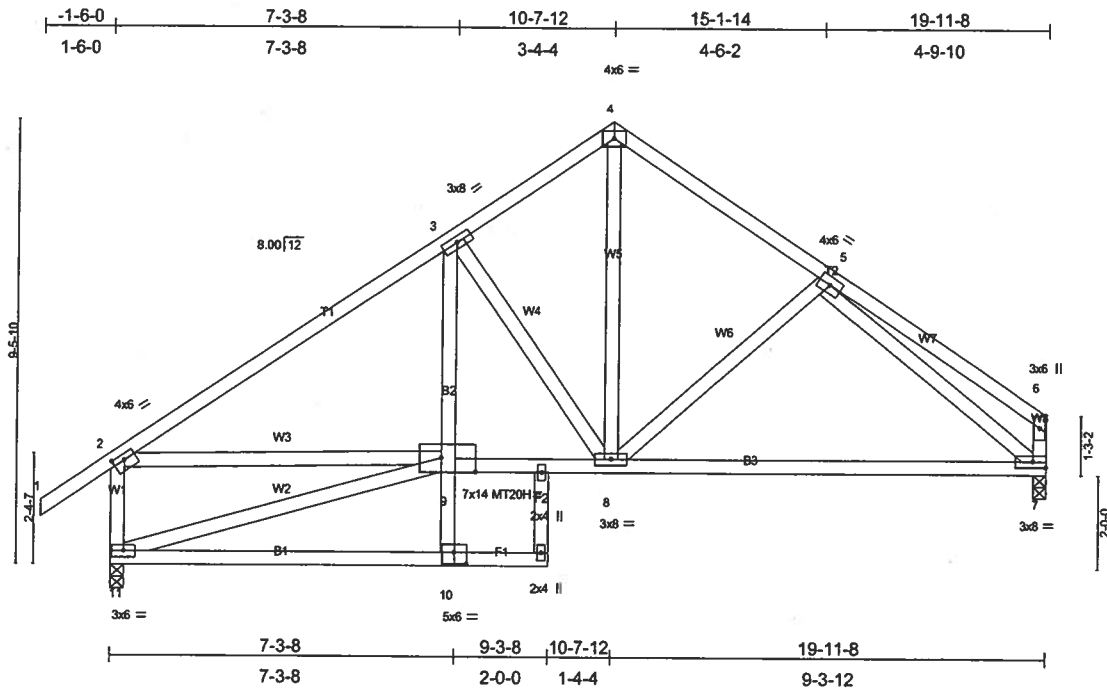


Plate Offsets (X,Y): [2-0-3-0,0-1-8], [9-0-8-11,0-3-8], [10-0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.50	Vert(LL) -0.12 7-8 >999 240	MT20H	187/143
BCLL 10.0	Lumber Increase 1.25	WB 0.35	Vert(TL) -0.20 7-8 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 7 n/a n/a		
	Code FBC2004/TPI2002			Weight: 144 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 "Except"
 B2 2 X 4 SYP No.3
 WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 9

REACTIONS (lb/size) 7=822/0-3-8, 11=919/0-3-8

Max Horz 11=326(load case 4)
 Max Uplift 7=254(load case 6), 11=338(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

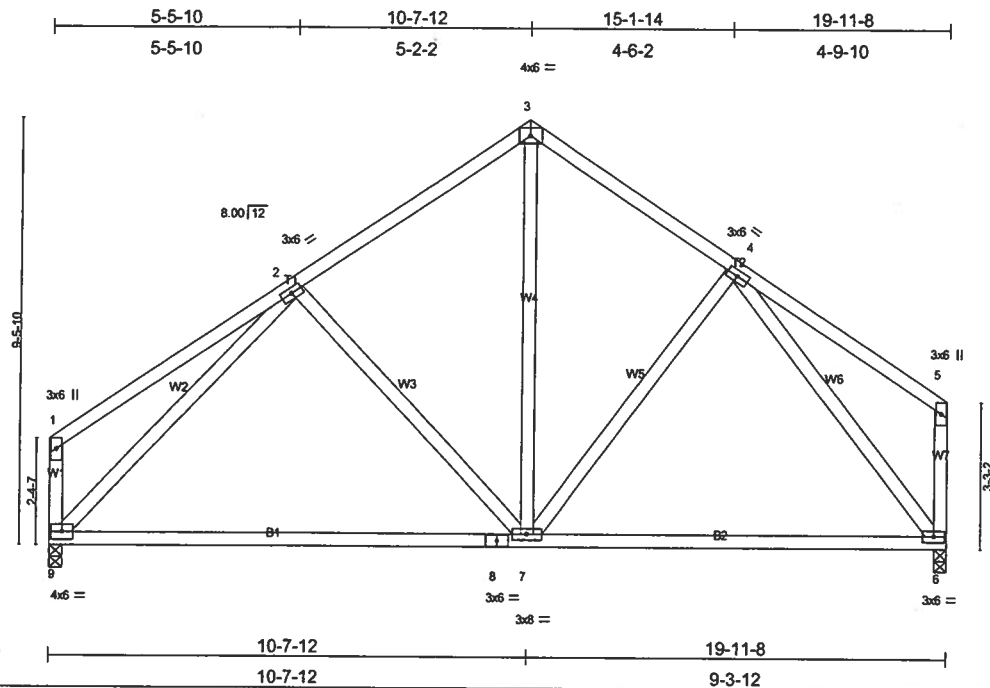
TOP CHORD 1-2=0/49, 2-3=-1066/429, 3-4=-773/397, 4-5=-786/377, 5-6=-433/137, 2-11=-826/451, 6-7=-327/150
 BOT CHORD 10-11=0/76, 9-10=0/104, 3-9=-79/101, 8-9=-317/778, 7-8=-242/697
 WEBS 3-8=-327/309, 4-8=-291/586, 5-8=-163/217, 2-9=-89/670, 5-7=-529/273, 9-11=-356/251

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 7 and 338 lb uplift at joint 11.

LOAD CASE(S) Standard

Job L205488	Truss T04	Truss Type COMMON	Qty 2	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:09:33 2006 Page 1		



LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2004/TPI2002	CSI TC 0.90 BC 0.45 WB 0.65 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.18 7-9 >999 240 Vert(TL) -0.31 7-9 >751 180 Horz(TL) 0.02 6 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 130 lb
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LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=826/0-3-8, 6=826/0-3-8
Max Horz 9=240(load case 4)
Max Uplift 9=250(load case 5), 6=250(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-287/130, 2-3=-681/333, 3-4=-646/339, 4-5=-167/104, 1-9=-258/155, 5-6=-180/130
BOT CHORD 8-9=-265/556, 7-8=-265/556, 6-7=-156/472
WEBS 2-7=-140/237, 3-7=-188/371, 4-7=-91/182, 2-9=-562/223, 4-6=-652/237

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 9 and 250 lb uplift at joint 6.

LOAD CASE(S) Standard

Job L205488	Truss T05	Truss Type COMMON	Qty 1	Ply 3	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:09:37 2006 Page 1		

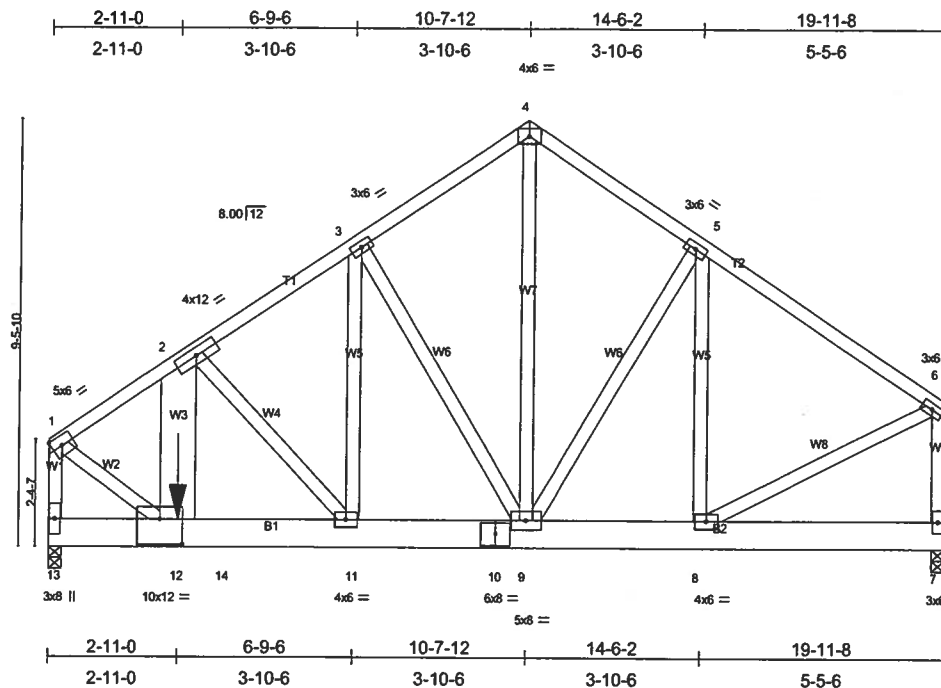


Plate Offsets (X,Y): [12;0-6;0-6-12]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.17	Vert(LL) -0.05 11-12 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.68	Vert(TL) -0.08 11-12 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2004/TPI2002				Weight: 568 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 8 SYP 2400F 2.0E
 WEBS 2 X 4 SYP No.3 "Except"
 W3 2 X 10 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.

REACTIONS (lb/size) 13=7842/0-3-8, 7=3692/0-3-8
 Max Horz 13=240(load case 3)
 Max Uplift 13=-2925(load case 4), 7=-1360(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-6520/2448, 2-3=-4843/1865, 3-4=-3200/1315, 4-5=-3200/1321, 5-6=-3130/1185, 1-13=-7410/2779, 6-7=-3157/1185
 BOT CHORD 12-13=-289/209, 12-14=-2111/5363, 11-14=-2111/5363, 10-11=-1531/4001, 9-10=-1531/4001, 8-9=-916/2530, 7-8=-76/122
 WEBS 2-12=-791/2300, 2-11=-1958/817, 3-11=-1141/3019, 3-9=-2697/1146, 4-9=-1323/3254, 5-9=-148/282, 5-8=-427/216, 1-12=-2342/6346,
 6-8=-975/2741

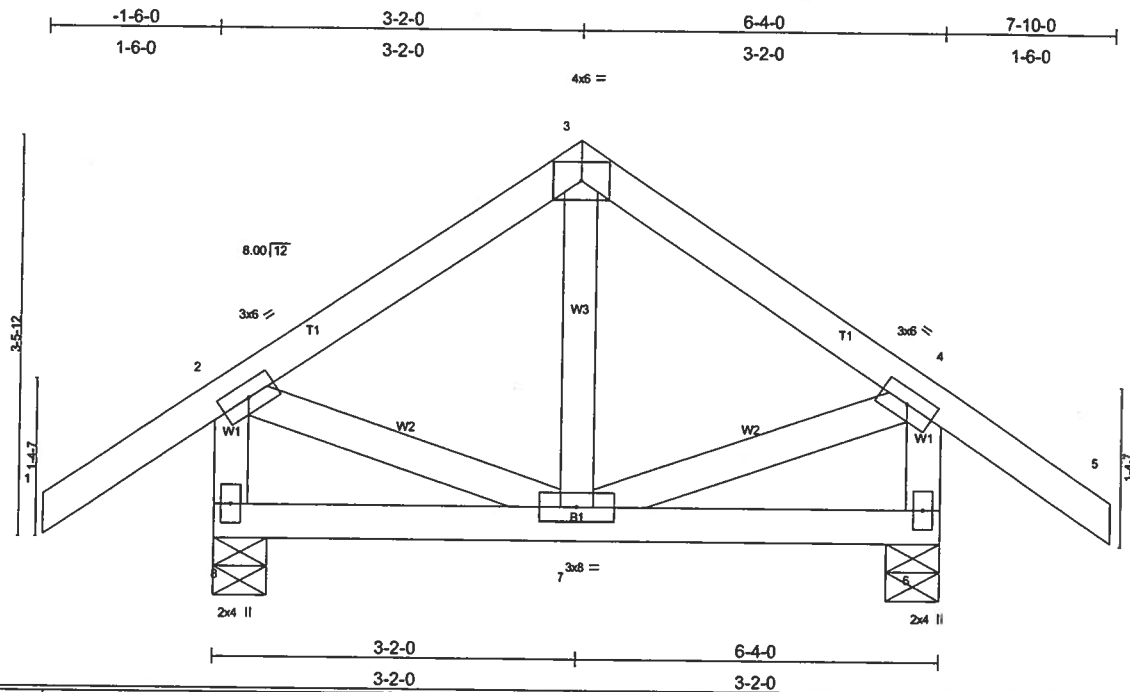
NOTES

- 3-ply truss to be connected together with 0.131"x3" Nails as follows:
 Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 10 - 4 rows at 0-4-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all piles, 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2925 lb uplift at joint 13 and 1360 lb uplift at joint 7.
- Girder carries tie-in span(s): 19-2-7 from 3-11-0 to 9-11-0; 10-8-8 from 9-11-0 to 19-11-8
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6050 lb down and 2284 lb up at 2-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-6=-54, 13-14=-30, 10-14=-382(F=-352), 7-10=-203(F=-173)
 Concentrated Loads (lb)
 Vert: 12=-6050(F)

Job L205488	Truss T06	Truss Type COMMON	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:09:41 2006 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL) -0.01	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.16	Vert(TL) -0.01		
BCCL 10.0	Lumber Increase 1.25	WB 0.06	Horz(TL) 0.00		
BCDL 5.0	Rep Stress Incr NO	(Matrix)			
	Code FBC2004/TPI2002				
					Weight: 42 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) 8=467/0-5-8, 6=467/0-5-8
 Max Horz 8=-134(load case 2)
 Max Uplift 8=-221(load case 4), 6=-221(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/49, 2-3=-277/111, 3-4=-277/111, 4-5=0/49, 2-8=-384/209, 4-6=-384/209
 BOT CHORD 7-8=-117/121, 6-7=-13/16
 WEBS 3-7=-58/143, 2-7=-48/194, 4-7=-48/194

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 8 and 221 lb uplift at joint 6.
- 4) Girder carries tie-in span(s): 4-1-0 from 0-0-0 to 6-4-0
- 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, 2-3=-54, 3-4=-54, 4-5=-54, 6-8=-71(B=-41)

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	T06G	COMMON	1	1	
Builders FirstSource, Lake City, Fl 32055					Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:09:44 2006 Page 1					

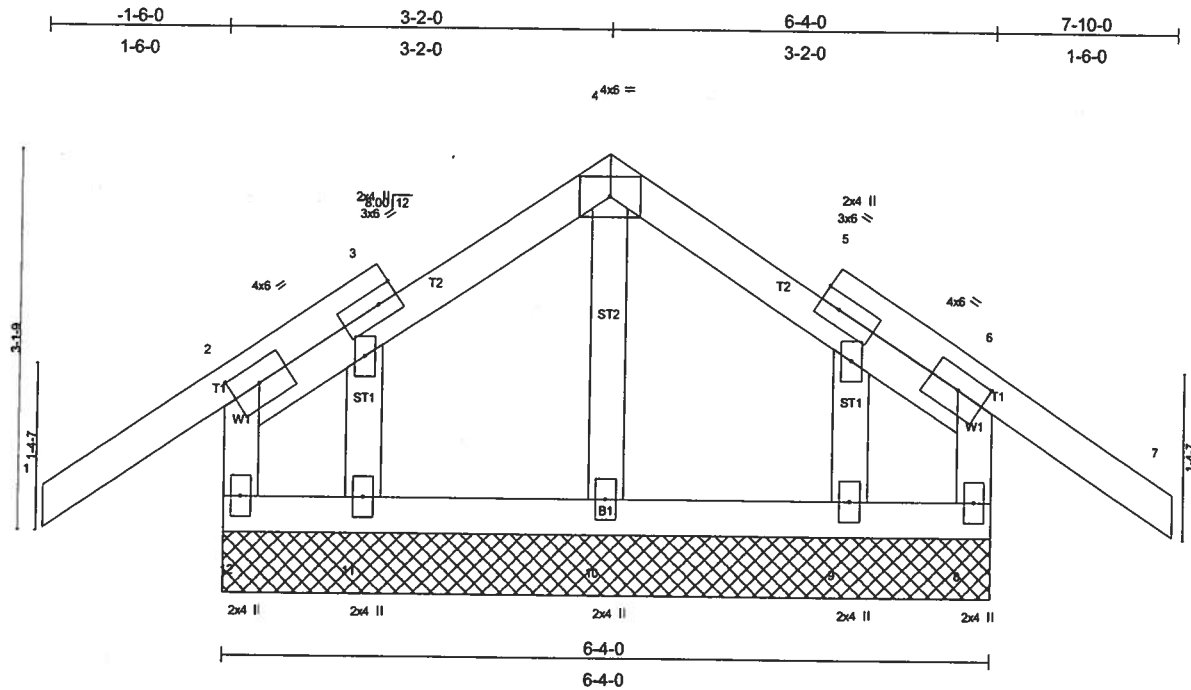


Plate Offsets (X,Y): [2:0-2-14,0-1-14], [6:0-2-14,0-1-14]

[illegible]

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

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

REACTIONS (lb/size) 12=222/6-4-0, 8=222/6-4-0, 10=228/6-4-0, 11=53/6-4-0, 9=53/6-4-0
 Max Horz 12=-122(load case 3)
 Max Uplift 12=-183(load case 5), 8=-189(load case 6), 11=-42(load case 4), 9=-36(load case 3)
 Max Grav 12=226(load case 9), 8=226(load case 10), 10=228(load case 1), 11=54(load case 9), 9=54(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=41/122, 3-4=0/135, 4-5=0/135, 5-6=41/122, 6-7=0/58, 2-12=-221/267, 6-8=-221/267
BOT CHORD 11-12=45/70, 10-11=45/70, 9-10=45/70, 8-9=45/70
WEBS 4-10=-165/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; $TCDL=4.2psf$; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber $DOL=1.60$ plate grip $DOL=1.60$. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MITek "Standard Gable End Detail"
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2'-0-0 oc.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 12, 169 lb uplift at joint 8, 42 lb uplift at joint 11 and 36 lb uplift at joint 9.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=64(F=10), 2-4=64(F=10), 4-6=64(F=10), 6-7=64(F=10), 8-12=30

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

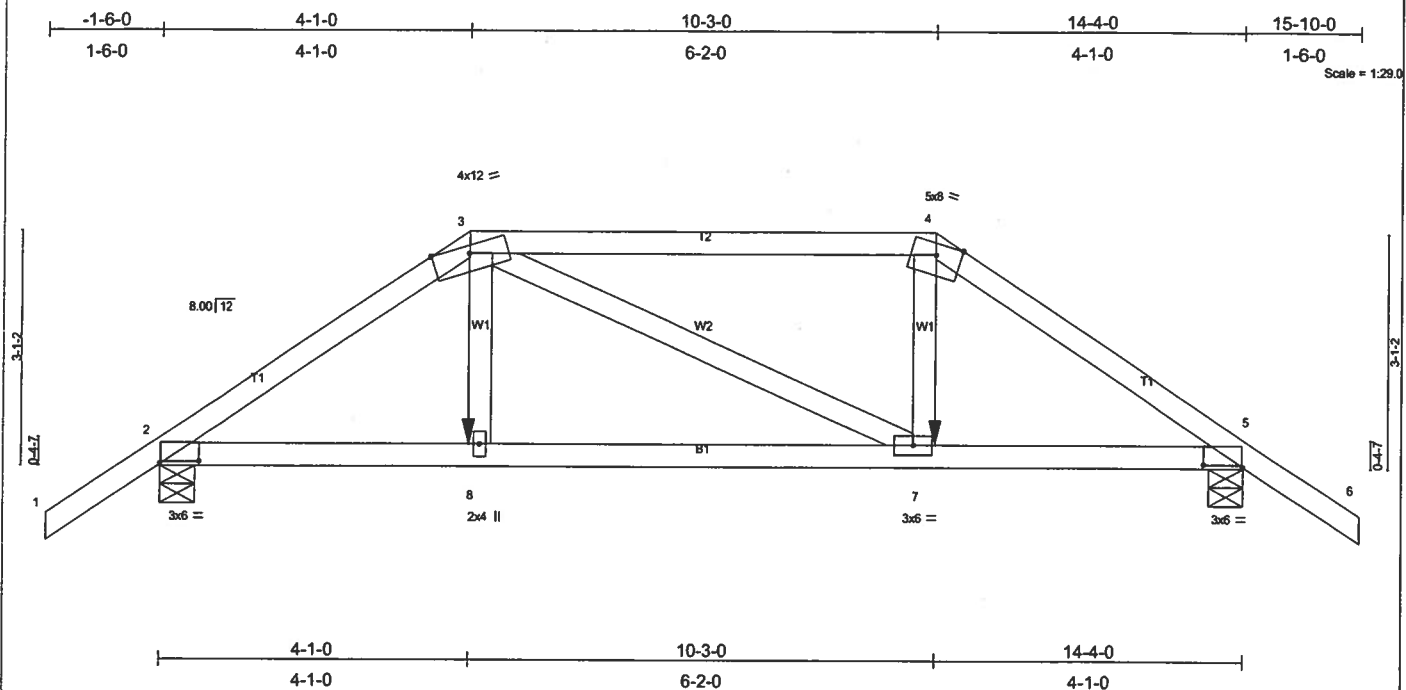


Plate Offsets (X, Y): [2-0-6-3,0-0-6], [5-0-6-3,0-0-6]										
LOADING (psf)		SPACING 2-0-0		CSI		DEFL			PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	in (loc)	l/defl	L/d	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(LL)	-0.07 7-8	>999	240	
BCLL	10.0	Rep Stress Incr	NO	WB	0.12	Vert(TL)	-0.12 7-8	>999	180	
BCDL	5.0	Code FBC2004/TPI2002				Horz(TL)	0.02 5	n/a	n/a	
				(Matrbx)					Weight: 68 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 8-5-5 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=948/0-5-8, 5=948/0-5-8
Max Horz 2=102(load case 3)
Max Uplift2=-477(load case 4), 5=-477(load case 5)

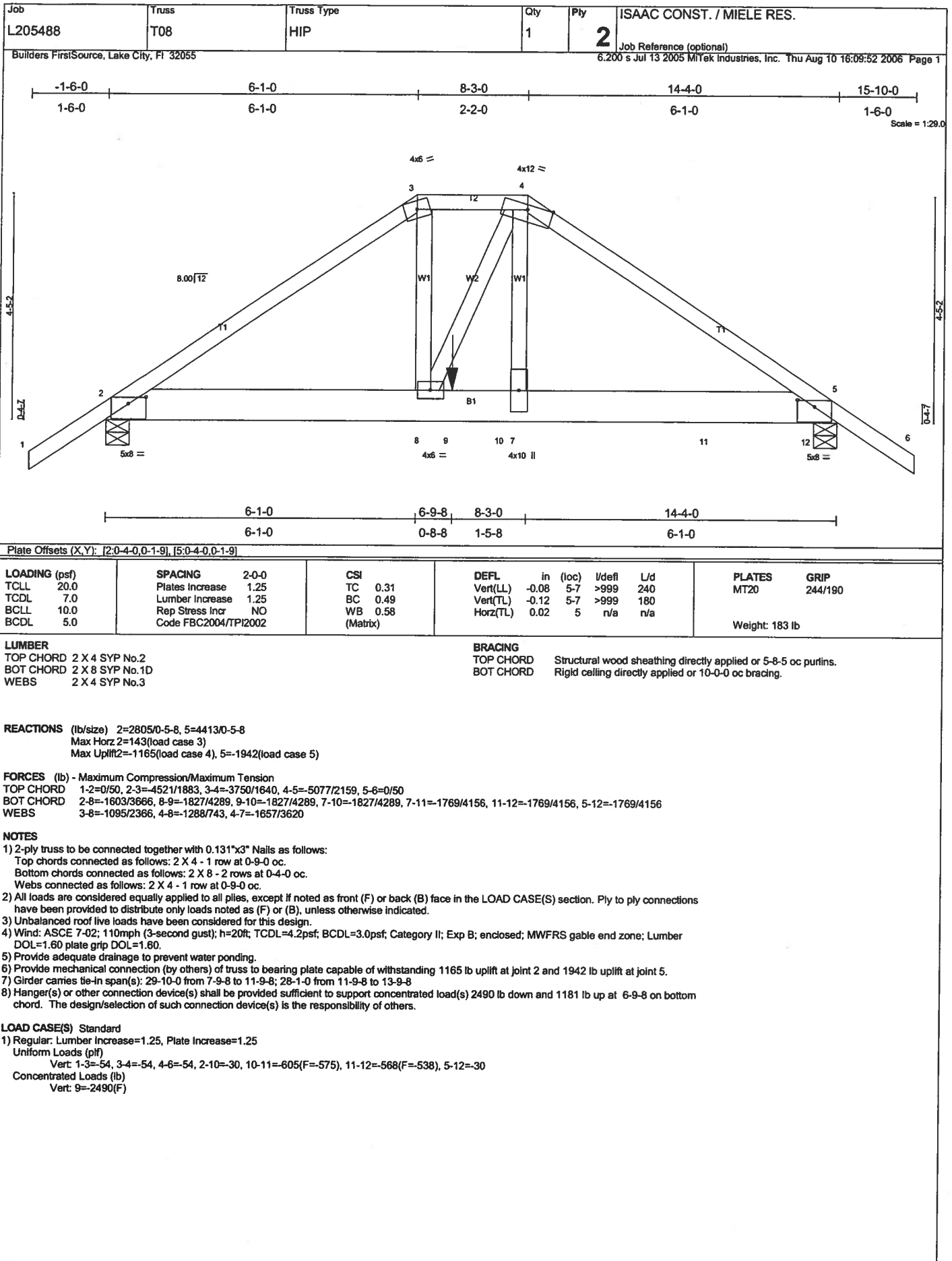
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=1302/614, 3-4=1044/559, 4-5=1303/615, 5-6=0/45
BOT CHORD 2-8=552/1025, 7-8=555/1043, 5-7=473/1026
WEBS 3-8=65/349, 3-7=85/85, 4-7=81/370

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2 and 477 lb uplift at joint 5.
- 5) Girder carries hip end with 4'-1-0 end setback.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 112 lb up at 10'-3-0, and 148 lb down and 112 lb up at 4'-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-80(F=-26), 4-6=-54, 2-8=-30, 7-8=-45(F=-15), 5-7=-30
Concentrated Loads (lb)
Vert: 8=-148(F) 7=-148(F)



Job L205488	Truss T09	Truss Type SPECIAL	Qty 1	Ply 2	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:09:56 2006 Page 1		

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/def L/d	MT20	244/190
TCOL 7.0	Plates Increase 1.25	BC 0.55	Vert(LL) -0.26 17-18 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.81	Vert(TL) -0.41 17-18 >853 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.11 14 n/a n/a		
	Code FBC2004/TP12002				
				Weight: 481 lb	

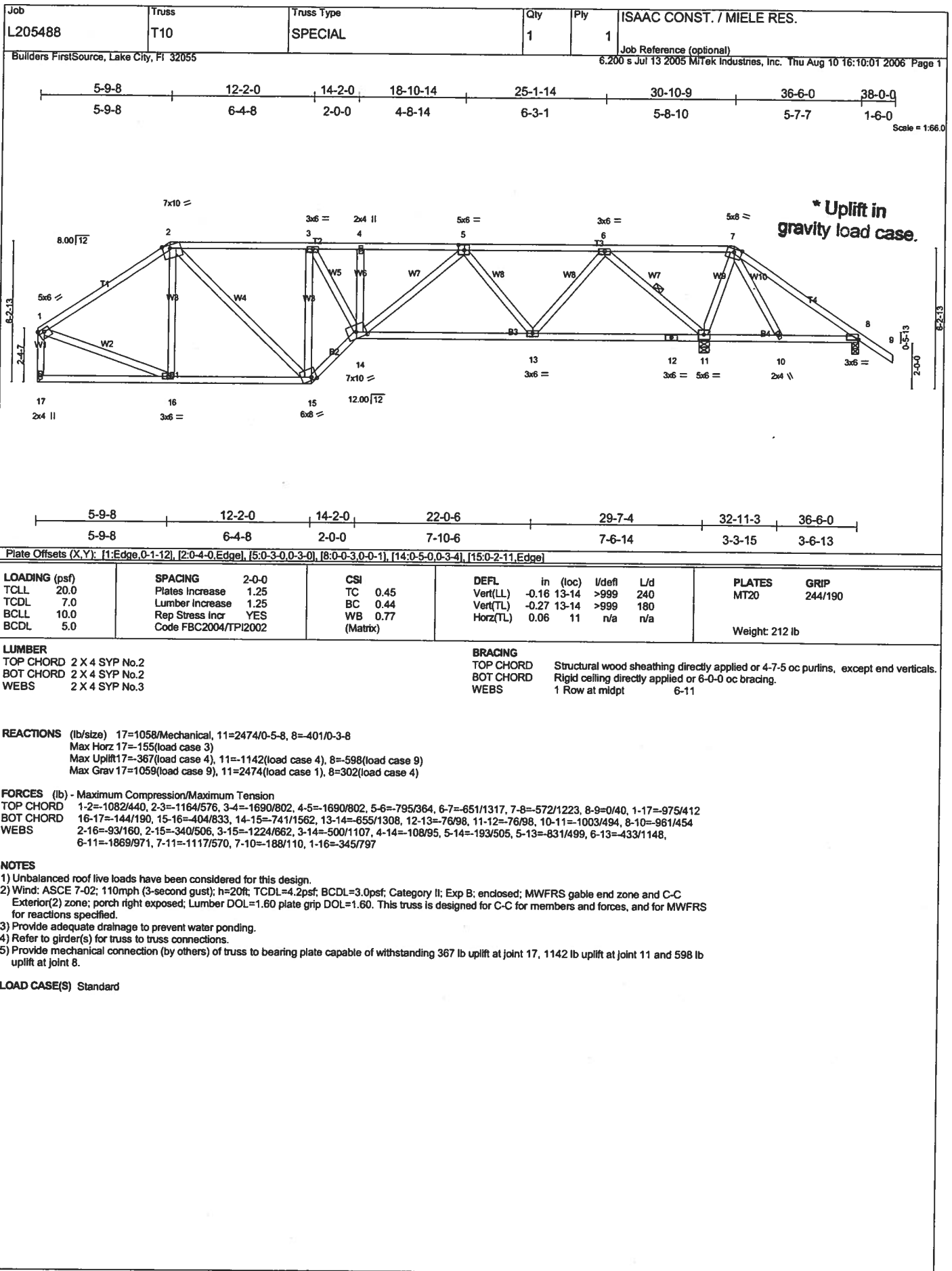
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals.
BOT CHORD 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 22=2490/Mechanical, 14=3308/0-5-8
 Max Horz 22=123(load case 3)
 Max Uplift 22=-1282(load case 3), 14=-1658(load case 3)
 Max Grav 22=2531(load case 8), 14=3308(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=2302/1217, 2-3=3195/1776, 3-4=3195/1777, 4-23=-7213/3841, 5-23=-7213/3841, 5-6=6590/3389, 6-7=6590/3389, 7-24=-6590/3389, 8-24=-6590/3389, 8-9=790/1056, 9-10=791/1057, 10-11=361/488, 11-12=0/42, 1-22=-2316/1212, 21-22=-153/77, 20-21=-1087/1856, 19-20=-2237/4033, 19-25=-2930/5268, 18-25=-2909/5386, 17-18=-3827/7205, 17-26=-1895/3811, 16-26=-1895/3811, 15-16=-1895/3811, 14-15=-1895/3811, 13-14=-351/404, 11-13=-357/410
 BOT CHORD 2-21=-534/422, 2-20=-1131/1967, 3-20=-492/547, 4-20=-1254/646, 4-19=-3224/1895, 4-18=-2617/5021, 5-18=-196/195, 5-17=-773/509, 6-17=-316/258, 8-17=-1655/3191, 8-16=-104/442, 8-14=-4986/2495, 9-14=-299/268, 10-14=-890/708, 10-13=-110/128, 1-21=-1099/2045
 WEBS 2-21=-534/422, 2-20=-1131/1967, 3-20=-492/547, 4-20=-1254/646, 4-19=-3224/1895, 4-18=-2617/5021, 5-18=-196/195, 5-17=-773/509, 6-17=-316/258, 8-17=-1655/3191, 8-16=-104/442, 8-14=-4986/2495, 9-14=-299/268, 10-14=-890/708, 10-13=-110/128, 1-21=-1099/2045

NOTES
 1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
 Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 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.
 4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
 5) Provide adequate drainage to prevent water ponding.
 6) Refer to girder(s) for truss to truss connections.
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1282 lb uplift at joint 22 and 1658 lb uplift at joint 14.
 8) Girder carries tie-in span(s): 2-2-6 from 13-2-0 to 23-0-8; 6-7-3 from 13-2-0 to 23-0-8; 6-9-8 from 0-0-0 to 3-9-8
 9) Girder carries hip end with 3-7-7 right side setback, 29-10-0 left side setback, and 3-7-7 end setback.
 10) Girder carries hip end with 23-4-0 right side setback, 3-9-8 left side setback, and 6-9-8 end setback.
 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 49 lb up at 23-0-8 on top chord, and 311 lb down and 148 lb up at 23-0-8, and 107 lb down and 82 lb up at 32-10-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-23=-113(F=-58), 9-23=-54, 9-10=-72(F=-18), 10-12=-54, 21-22=-121(F=-91), 19-21=-62(F=-33), 19-25=-62(F=-33), 18-25=-117(F=-87), 18-26=-117(F=-87), 14-26=-30, 13-14=-40(F=-10), 11-13=-30
 Concentrated Loads (lb)
 Vert: 13=-107(F) 24=-103(F) 26=-311(F)



Job L205488	Truss T11	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:10:05 2006 Page 1		

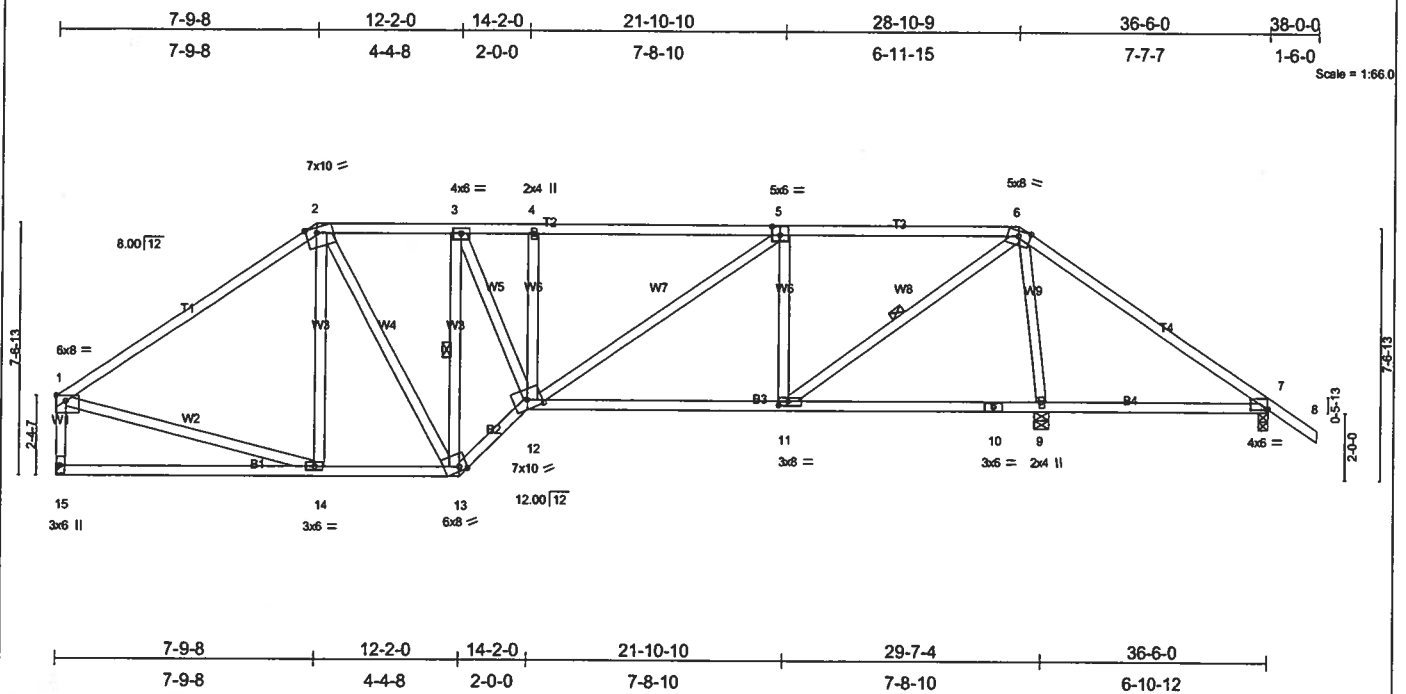


Plate Offsets (X,Y): [1:Edge,0-1-14], [2:0-4-0,Edge], [5:0-3-0,0-3-0], [7:0-0-3,0-0-5], [11:0-3-8,0-1-8], [12:0-5-0,0-3-4], [13:0-2-11,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	Vdefl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.53	Vert(LL) 0.17	7-9	>472	240	MT20	244/190
TCCL 7.0	Lumber Increase 1.25	BC 0.39	Vert(TL) 0.15	7-9	>554	180		
BCCL 10.0	Rep Stress Incr YES	WB 0.87	Horz(TL) 0.06	9	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)						
							Weight 221 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 3-13, 6-11

REACTIONS (lb/size) 15=1135/Mechanical, 9=2063/0-5-8, 7=68/0-3-8

Max Horz 15=-201(load case 3)
 Max Uplift 15=357(load case 4), 9=-831(load case 4), 7=-279(load case 9)
 Max Grav 15=1135(load case 1), 9=2063(load case 1), 7=145(load case 4)

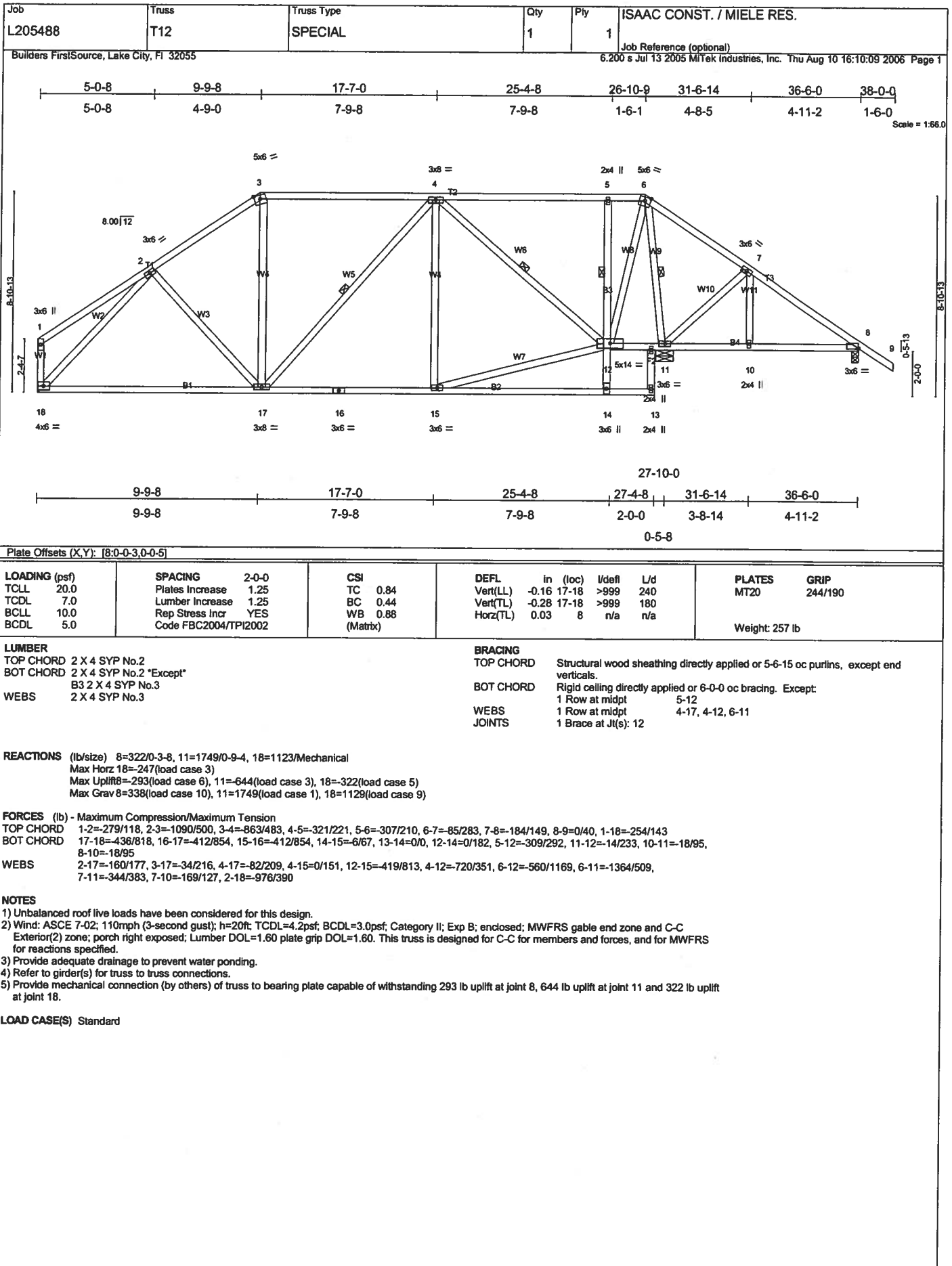
FORCES (lb) - Maximum Compression/Maximum Tension

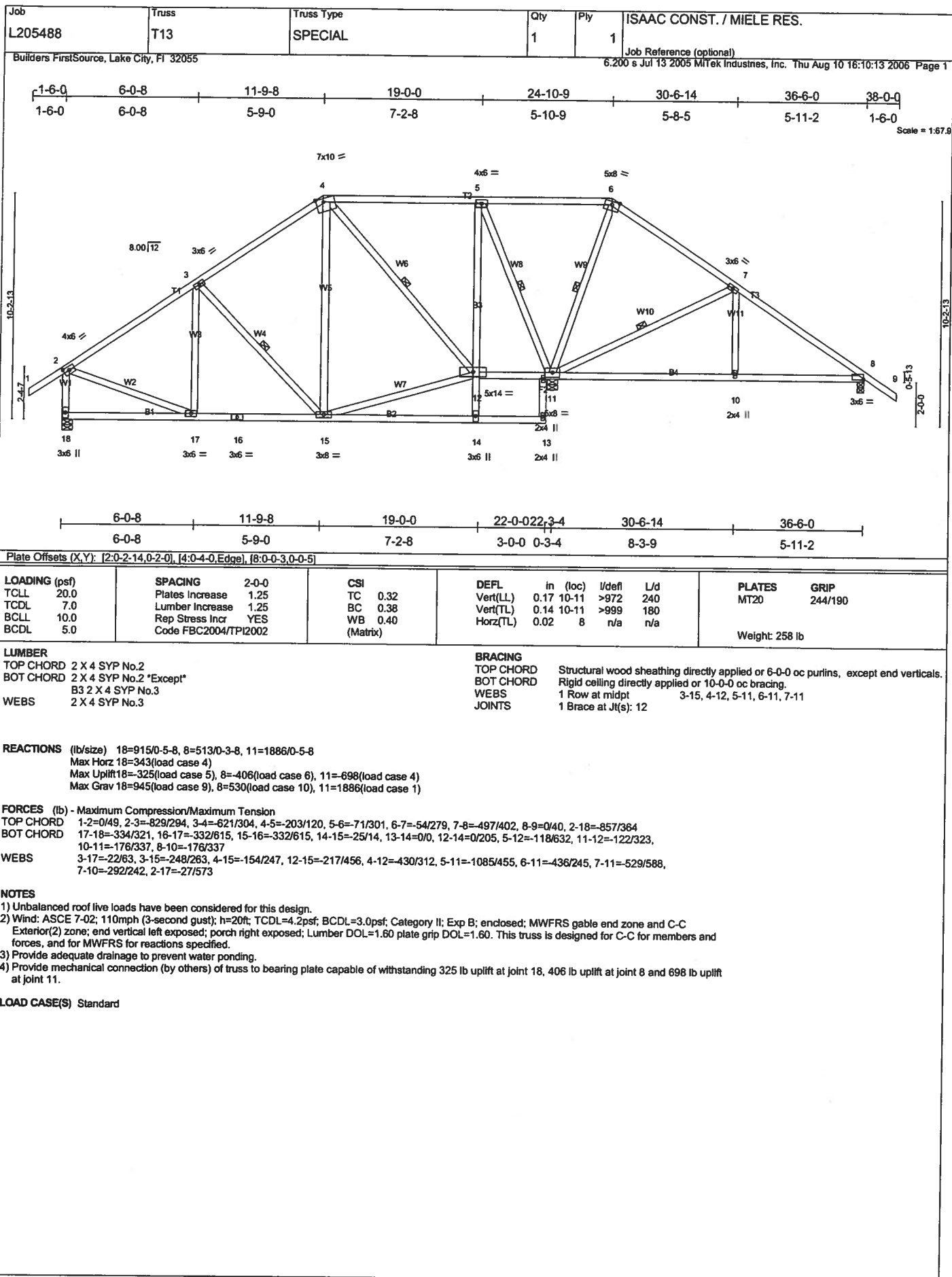
TOP CHORD 1-2=-1206/499, 2-3=-1046/565, 3-4=-1500/718, 4-5=-1500/718, 5-6=-985/516, 6-7=-355/826, 7-8=0/40, 1-15=-1011/451
 BOT CHORD 14-15=-230/248, 13-14=-436/906, 12-13=-667/1431, 11-12=-494/1006, 10-11=-349/199, 9-10=-349/199, 7-9=-585/300
 WEBS 2-14=-7/135, 2-13=-322/371, 3-13=-1139/562, 3-12=-565/1198, 4-12=-347/272, 5-12=-281/611, 5-11=-768/539, 6-11=-800/1671,
 6-9=-1820/789, 1-14=-342/738

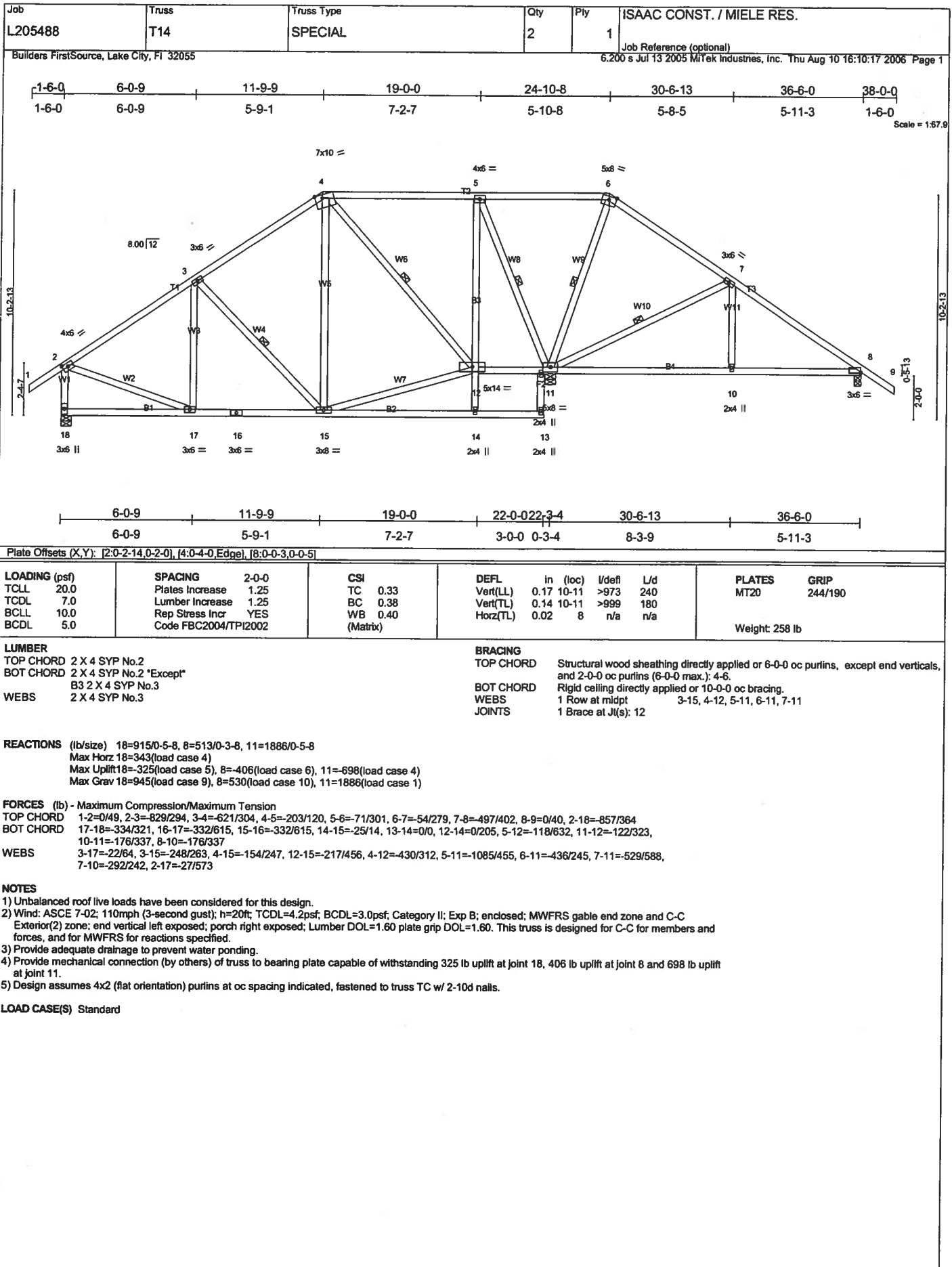
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 357 lb uplift at joint 15, 831 lb uplift at joint 9 and 279 lb uplift at joint 7.

LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	T15	MONO HIP	5	1	
Builders FirstSource, Lake City, Fl 32055					Job Reference (optional)
					6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:10:21 2006 Page 1

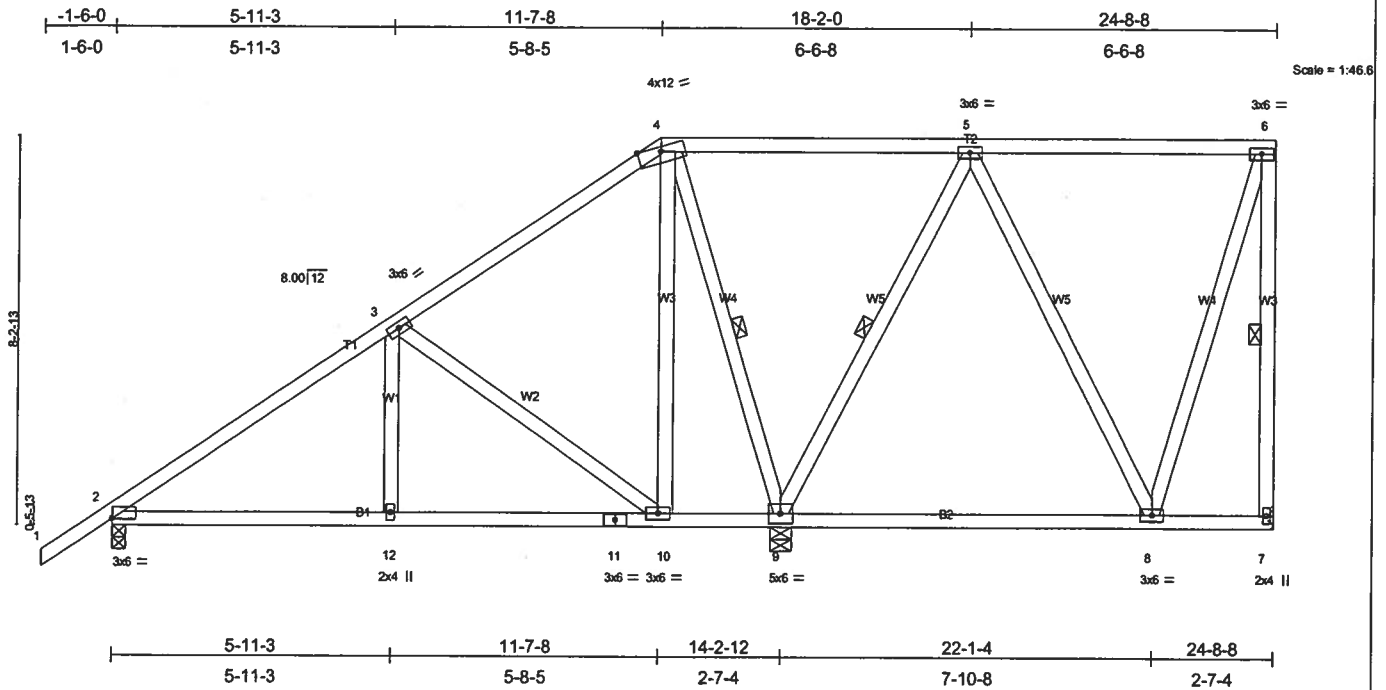


Plate Offsets (X,Y): [2:0-0.3,0-0.1]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL		PLATES	
TCLL	20.0	Plates Increase	1.25	TC	0.34	in (loc)	l/def	L/d	GRIP
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(LL)	2-12	>999	240
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Vert(TL)	-0.12	8-9	>999
BCDL	5.0	Code FBC2004/TP12002				Horz(TL)	-0.01	7	n/a
				(Matrix)					
									Weight 168 lb

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

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 8-2-11 oc bracing.
WEBS	1 Row at midpt 6-7, 4-9, 5-9
JOINTS	1 Brace at Jt(s): 6

REACTIONS (lb/size) 7=279/Mechanical, 2=572/0-3-8, 9=1288/0-5-8
Max Horz 2=420(load case 5)
Max Uplift 7=182(load case 3), 2=349(load case 5), 9=659(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=557/371, 3-4=977/4, 4-5=132/195, 5-6=53/24, 6-7=281/164
 BOT CHORD 3-12=555/386, 11-12=555/386, 10-11=555/386, 9-10=110/16, 8-9=73/24, 7-8=11/13
 WEBS 2-12=298/212, 3-10=461/586, 4-10=531/326, 4-9=674/775, 5-9=493/293, 5-8=0/110, 6-8=42/138

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDF=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 7, 349 lb uplift at joint 2 and 659 lb uplift at joint 9.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

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

Job L205488	Truss T16	Truss Type MONO HIP	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

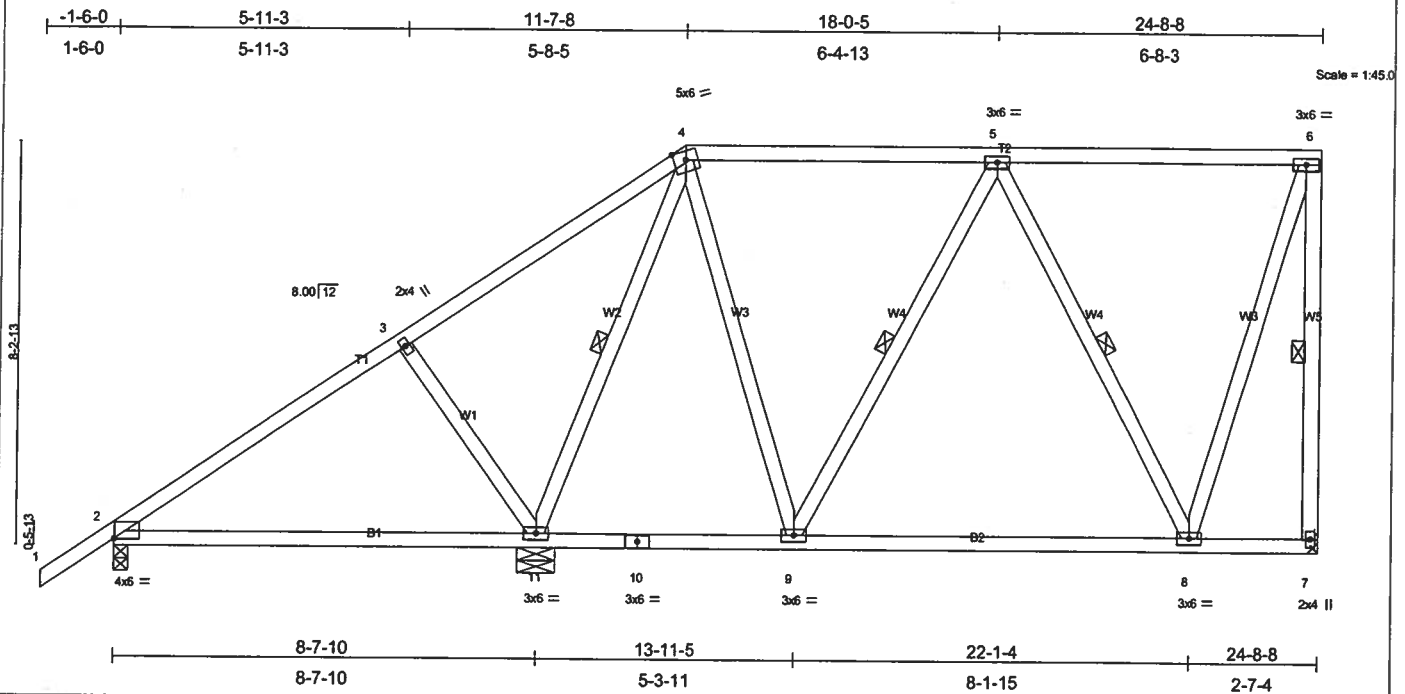
Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:10:25 2006 Page 1

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.34	Vert(LL) 0.32 2-11 >318 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.24	Vert(TL) 0.27 2-11 >384 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2004/TPI2002			Weight: 160 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, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-7, 4-11, 5-9, 5-8
 JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 7=640/Mechanical, 2=399/0-3-8, 11=1101/0-9-4
 Max Horz 2=420(load case 5)
 Max Uplift 7=292(load case 3), 2=195(load case 5), 11=547(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-178/0, 3-4=-94/156, 4-5=-264/99, 5-6=-167/58, 6-7=-647/275
 BOT CHORD 2-11=-198/103, 10-11=-102/180, 9-10=-102/180, 8-9=-161/313, 7-8=-13/15
 WEBS 3-11=-288/320, 4-11=-681/261, 4-9=-76/298, 5-9=-109/162, 5-8=-319/225, 6-8=-154/514

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 7, 195 lb uplift at joint 2 and 547 lb uplift at joint 11.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Job L205488	Truss T17	Truss Type MONO HIP	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:10:29 2006 Page 1		

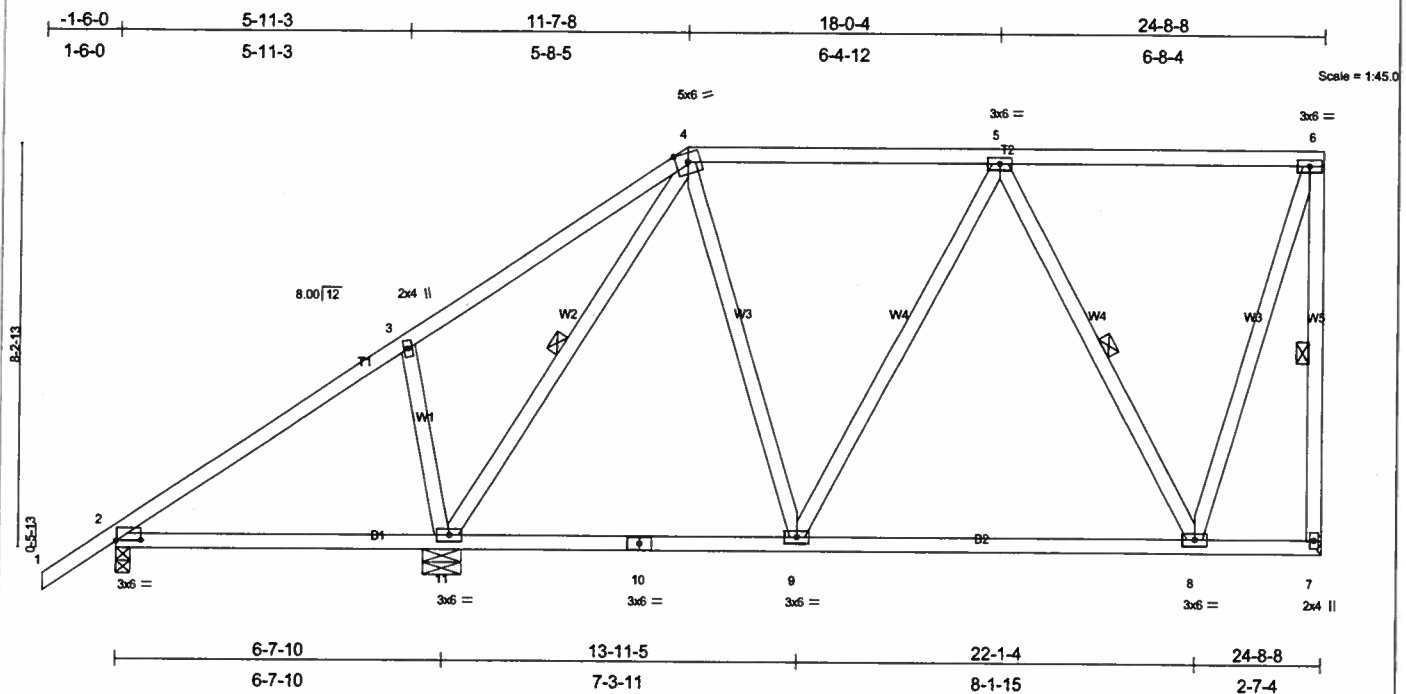


Plate Offsets (X,Y): [2:0-6-3:0-0-3]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCCL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.28	Vert(LL) 0.14 2-11 >572 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.27	Vert(TL) 0.12 2-11 >657 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2004/TPI2002				Weight: 160 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, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-7, 4-11, 5-8
 JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 7=740/Mechanical, 2=340/0-3-8, 11=1060/0-9-4
 Max Horz 2=420(load case 5)
 Max Uplift 7=315(load case 3), 2=143(load case 5), 11=511(load case 5)

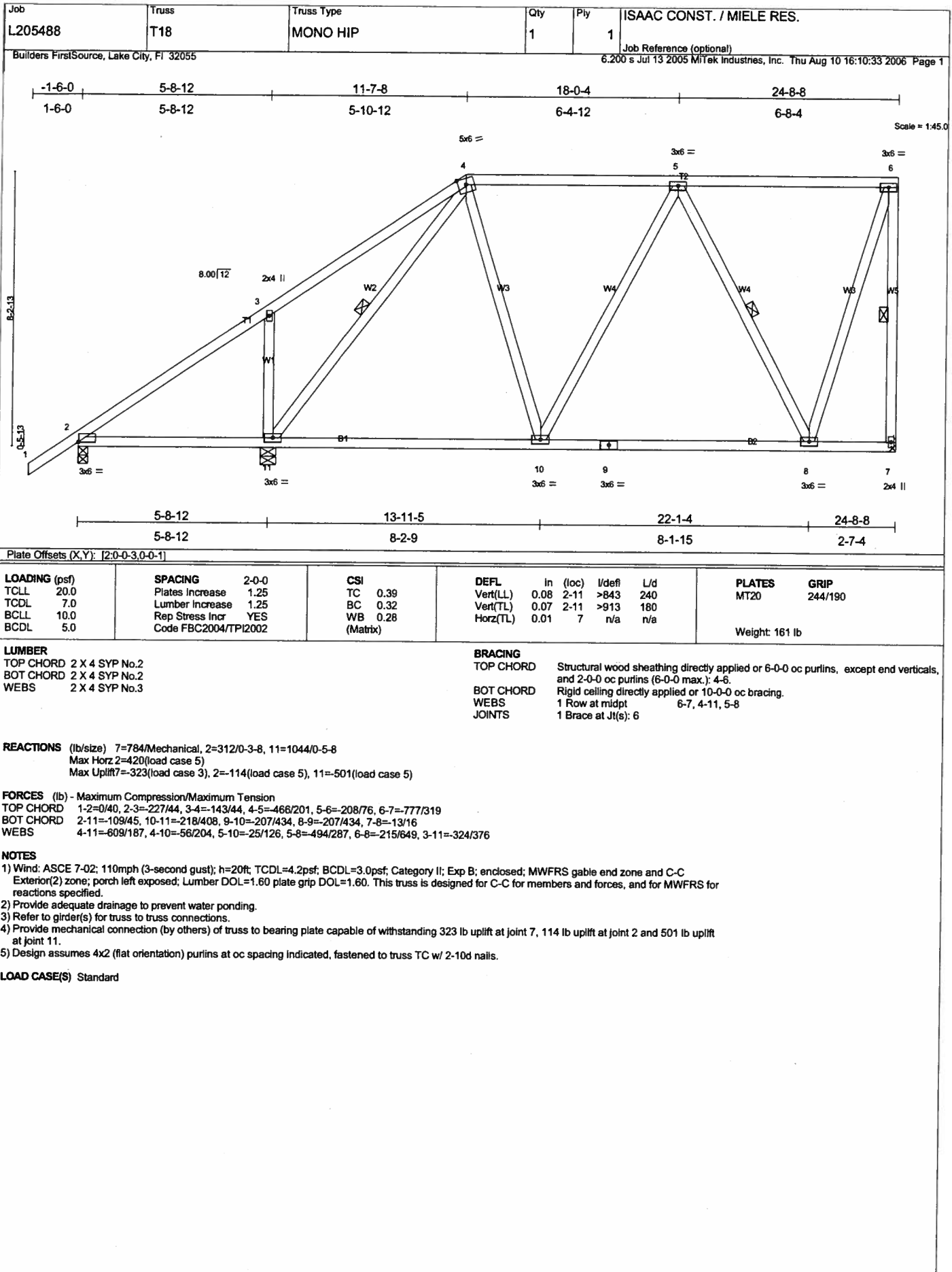
FORCES (lb) - Maximum Compression/Maximum Tension

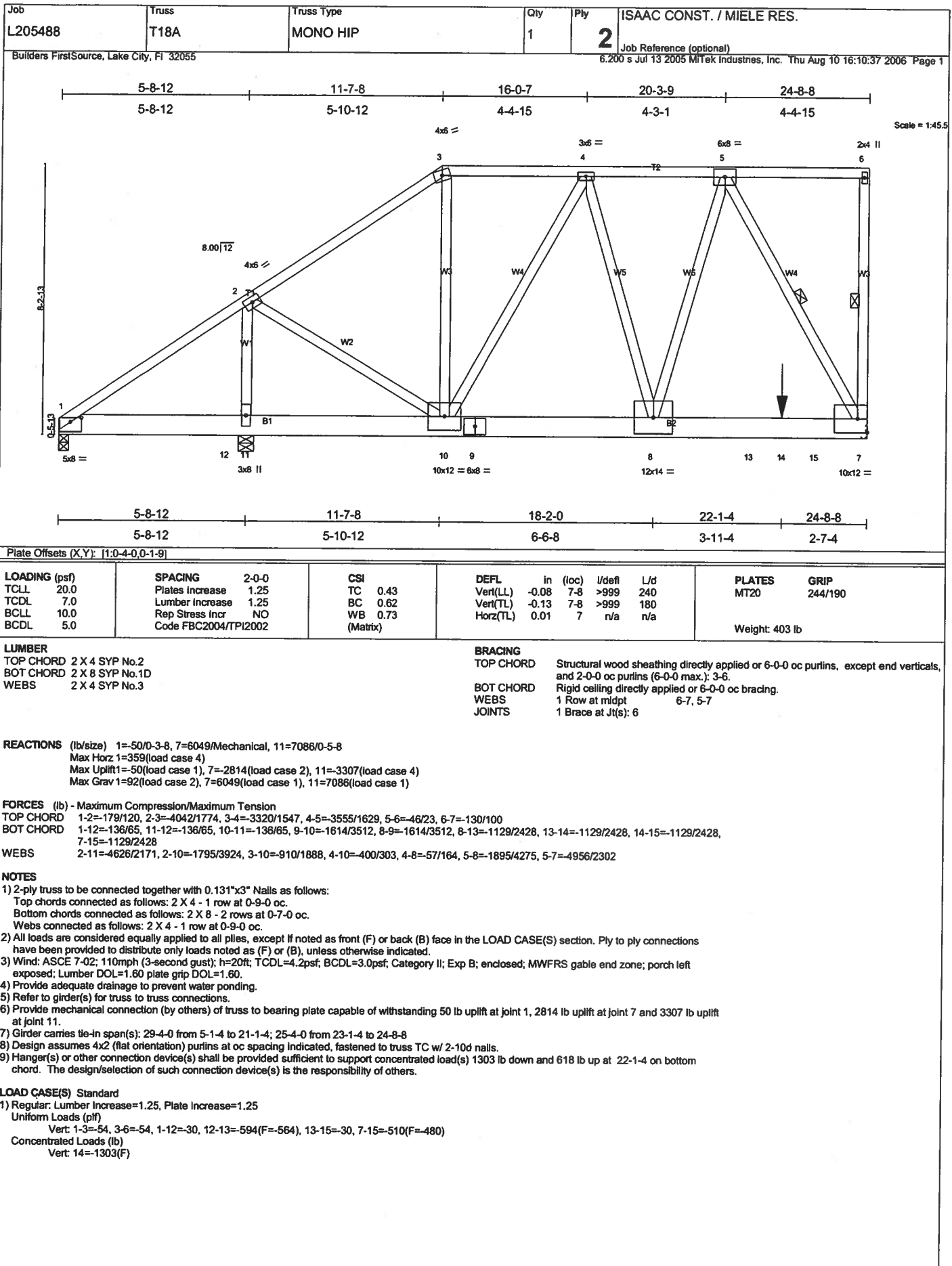
TOP CHORD 1-2=0/40, 2-3=-192/37, 3-4=-85/87, 4-5=-403/172, 5-6=-196/69, 6-7=-738/299
 BOT CHORD 2-11=-138/52, 10-11=-183/336, 9-10=-183/336, 8-9=-190/397, 7-8=-13/16
 WEBS 3-11=-299/342, 4-11=-638/212, 4-9=-63/236, 5-9=-5/135, 5-8=-440/263, 6-8=-195/609

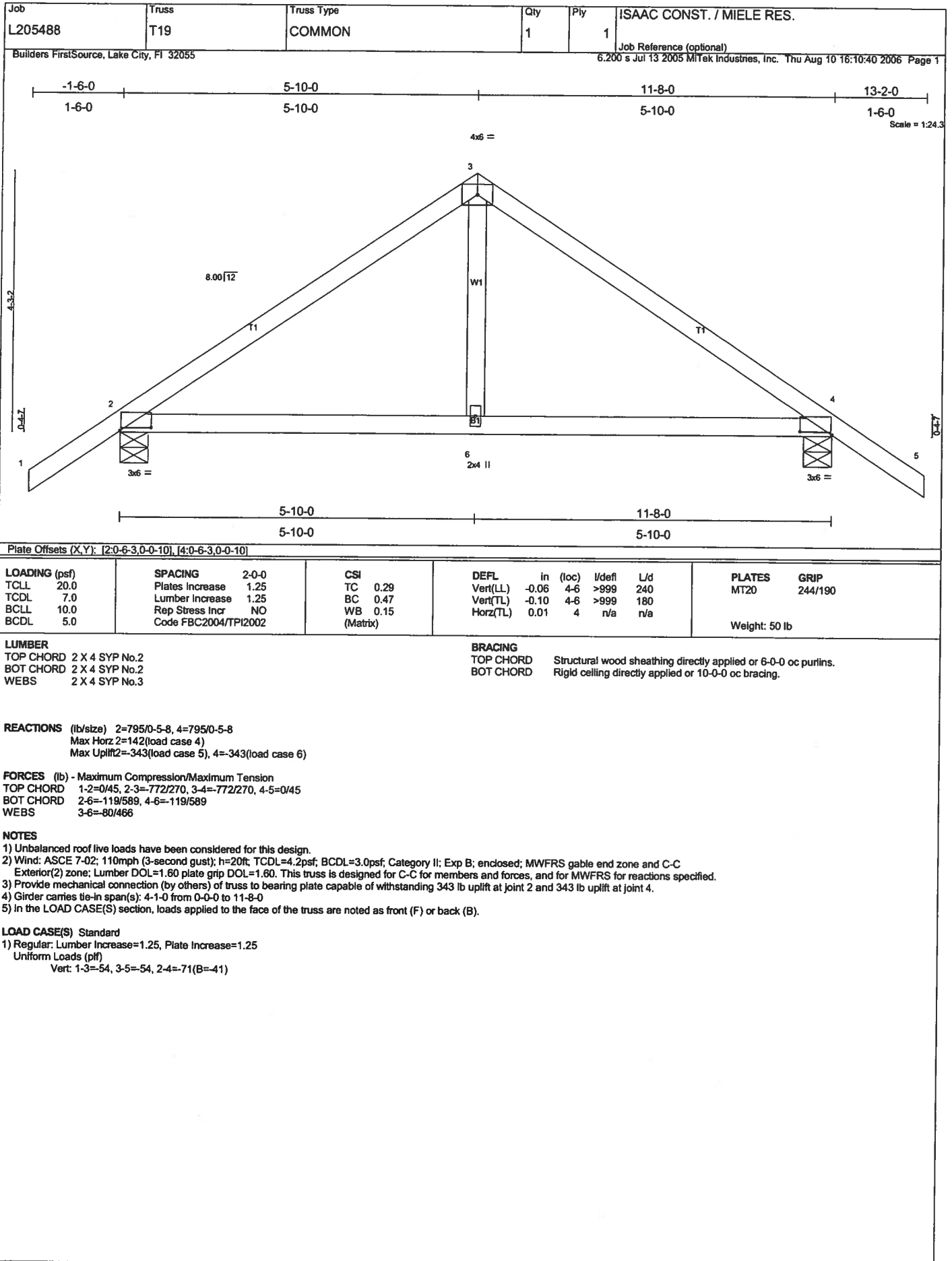
NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 7, 143 lb uplift at joint 2 and 511 lb uplift at joint 11.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard







Job L205488	Truss T19G	Truss Type COMMON	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mittek Industries, Inc. Thu Aug 10 16:10:44 2006 Page 1		

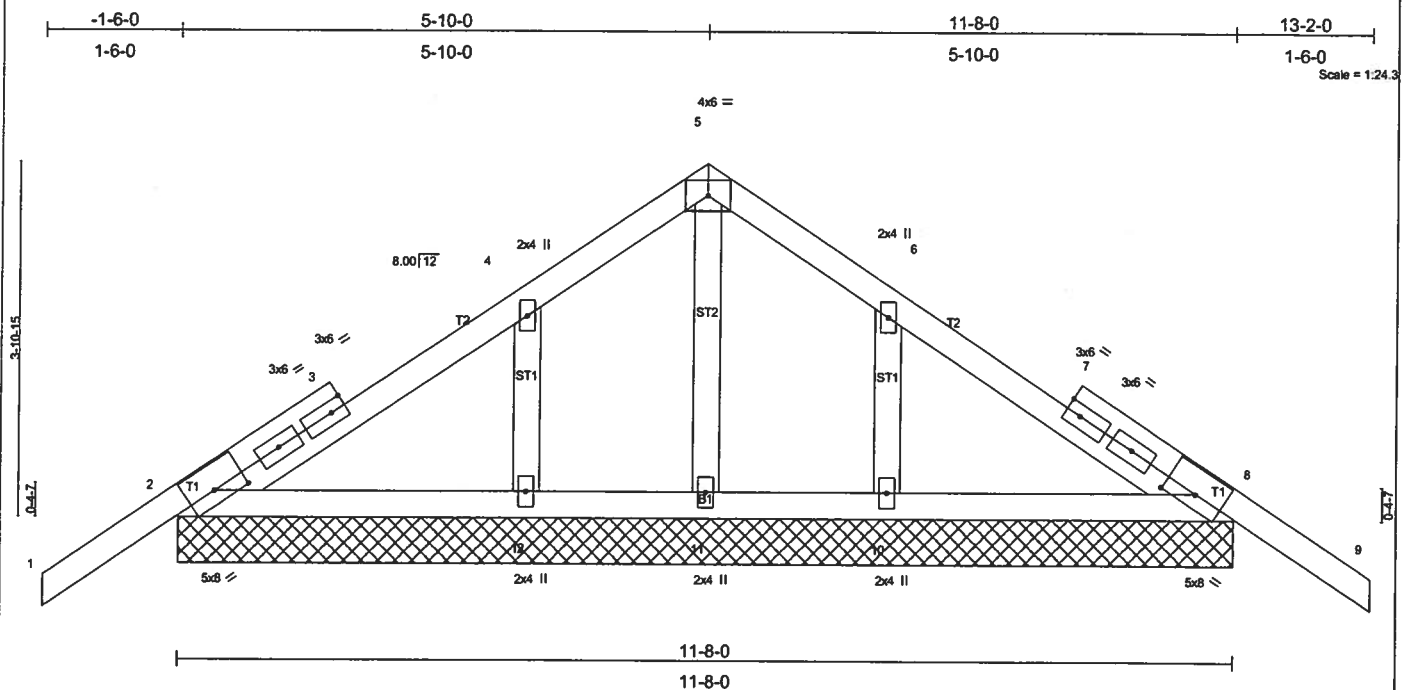


Plate Offsets (X,Y): [2-0-4-5,0-1-12], [8-0-4-5,0-1-12]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL) -0.00	9	n/r	120	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(TL) -0.00	9	n/r	90		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Horz(TL) 0.00	8	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							
							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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=241/11-8-0, 8=241/11-8-0, 11=160/11-8-0, 12=324/11-8-0, 10=324/11-8-0
Max Horz 2=130(load case 4)
Max Uplift 2=-140(load case 5), 8=-155(load case 6), 11=-3(load case 4), 12=-151(load case 5), 10=-153(load case 6)
Max Grav 2=247(load case 9), 8=247(load case 10), 11=160(load case 1), 12=326(load case 9), 10=326(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-81/72, 3-4=-73/127, 4-5=-7/84, 5-6=-5/84, 6-7=-31/127, 7-8=-38/57, 8-9=0/51
BOT CHORD 2-12=-50/145, 11-12=-50/145, 10-11=-50/145, 8-10=-50/145
WEBS 5-11=-139/8, 4-12=-214/168, 6-10=-214/170

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Mittek "Standard Gable End Detail"
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 2, 155 lb uplift at joint 8, 3 lb uplift at joint 11, 151 lb uplift at joint 12 and 153 lb uplift at joint 10.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert 1-5=-64(F=-10), 5-9=-64(F=-10), 2-8=-30

Job L205488	Truss T20	Truss Type HIP	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:10:48 2006 Page 1		

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	In (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.41	Vert(LL)	-0.19 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.80	Vert(TL)	-0.31 10-11	>867	180		
BCLL 10.0	Rep Stress Incr	NO	WB 0.64	Horz(TL)	0.09 7	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 3-6-14 oc purlins. BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.
--	---

REACTIONS (lb/size) 2=1465/0-5-8, 7=1465/0-5-8
 Max Horz 2=102(load case 3)
 Max Uplift 2=692(load case 3), 7=692(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/45, 2-3=-2176/1099, 3-4=-1770/958, 4-5=-2876/1494, 5-6=-1770/958, 6-7=-2176/1099, 7-8=0/45
 BOT CHORD 2-11=-930/1720, 10-11=-1529/2726, 9-10=-1503/2726, 7-9=-829/1720
 WEBS 3-11=-430/953, 4-11=-1140/759, 4-10=0/238, 5-10=0/238, 5-9=-1140/759, 6-9=-430/953

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
 3) Provide adequate drainage to prevent water ponding.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 692 lb uplift at joint 2 and 692 lb uplift at joint 7.
 5) Girder carries hip end with 4-1-0 end setback.
 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 112 lb up at 18-11-0, and 148 lb down and 112 lb up at 4-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 3-6=-78(F=-24), 6-8=-54, 2-11=-30, 9-11=-43(F=-13), 7-9=-30
 Concentrated Loads (lb)
 Vert: 11=-148(F) 9=-148(F)

Job L205488	Truss T21	Truss Type HIP	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Thu Aug 10 16:10:52 2006 Page 1		

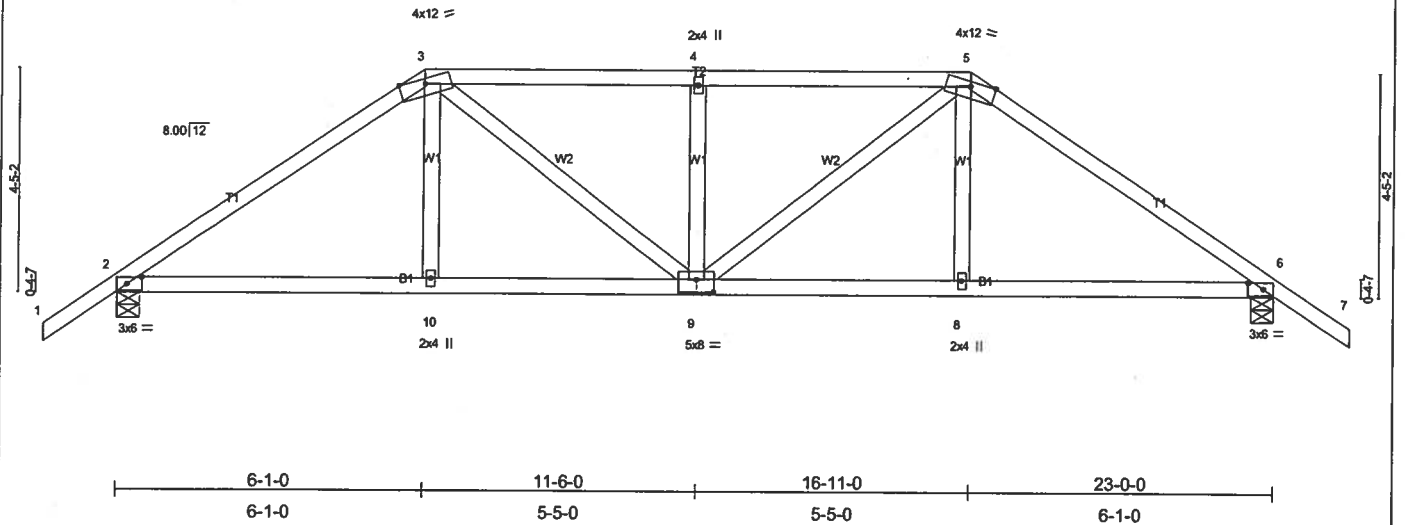
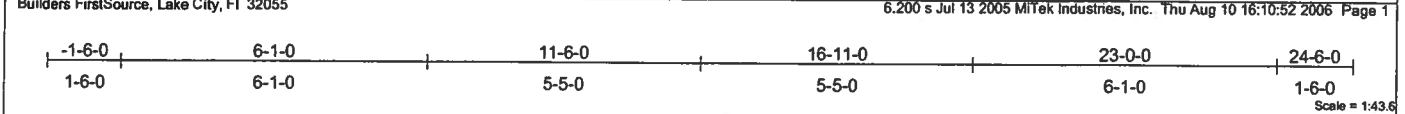


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [6:0-3-9,0-1-8], [9:0-4-0,0-3-0]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	In (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.31	Vert(LL) -0.06 2-10 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.22	Vert(TL) -0.10 2-10 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.04 6 n/a n/a		
	Code FBC2004/TPI2002				Weight: 114 lb

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.
WEBS 2 X 4 SYP No.3	

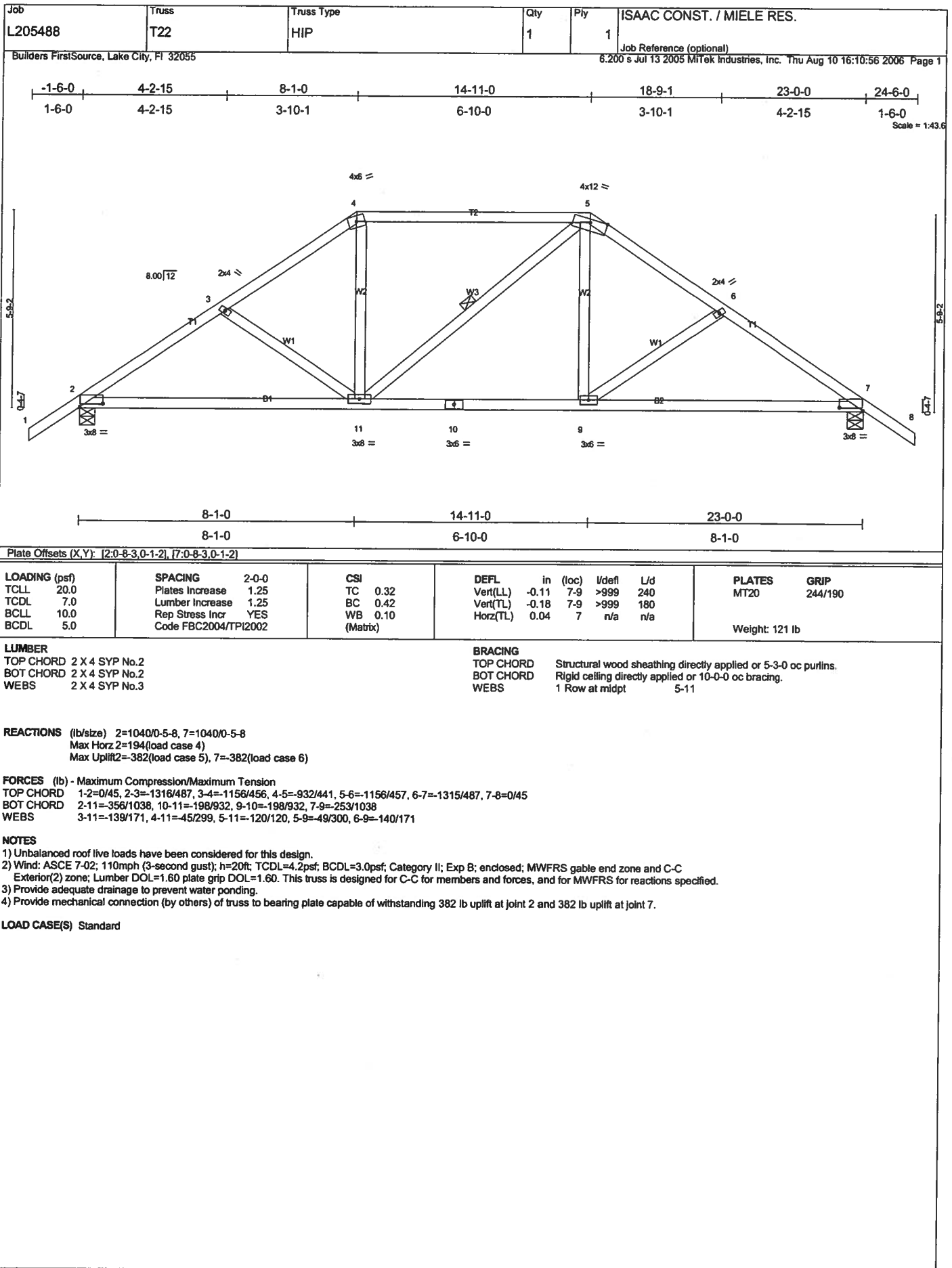
REACTIONS (lb/size) 2=1040/0-5-8, 6=1040/0-5-8
 Max Horz 2=148(load case 4)
 Max Uplift 2=366(load case 5), 6=366(load case 6)

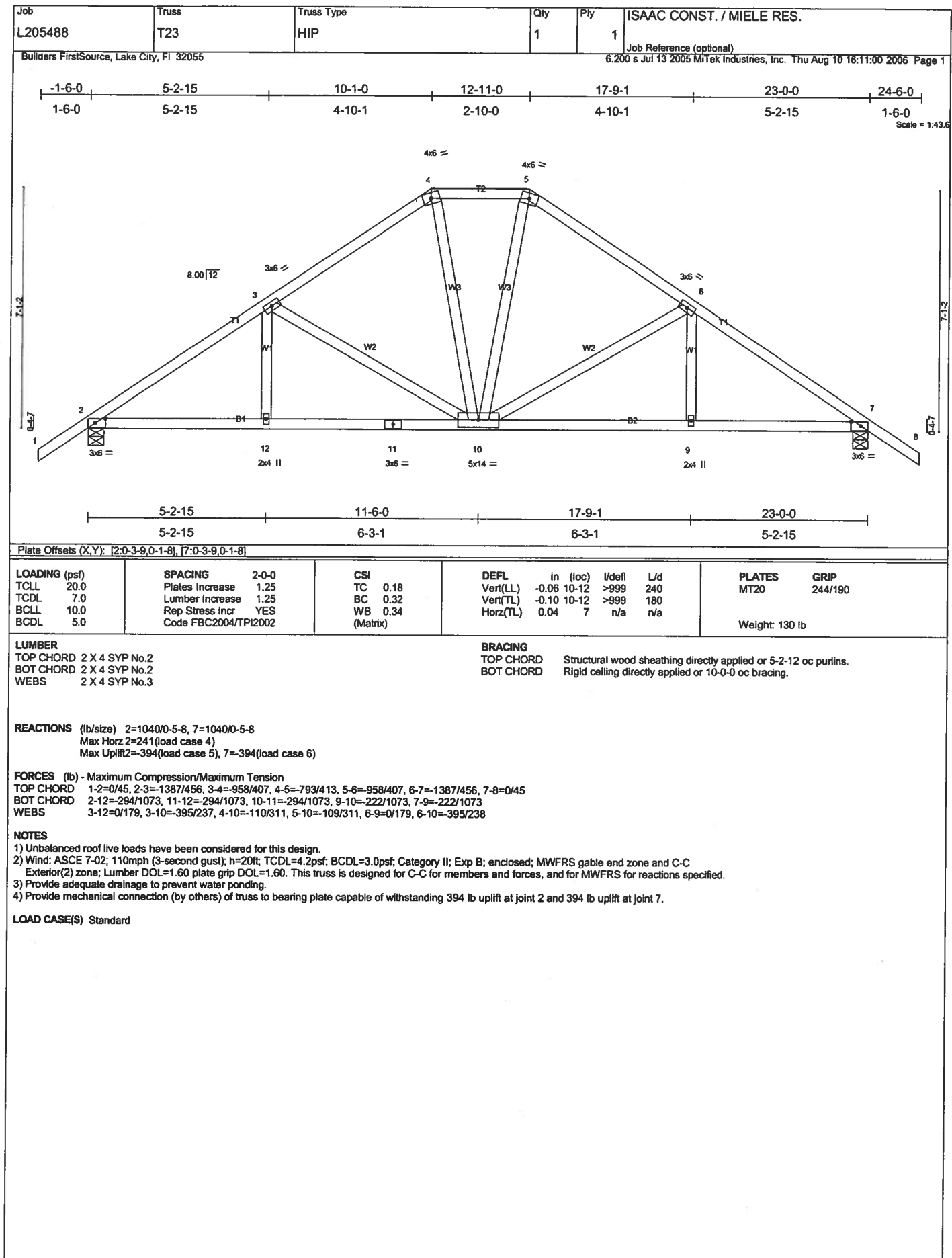
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/45, 2-3=-1350/477, 3-4=-1307/562, 4-5=-1307/562, 5-6=-1350/477, 6-7=0/45
 BOT CHORD 2-10=-399/1037, 9-10=-398/1044, 8-9=-267/1044, 6-8=-268/1037
 WEBS 3-10=0/196, 3-9=-282/408, 4-9=-284/271, 5-9=-283/408, 5-8=0/196

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 366 lb uplift at joint 2 and 366 lb uplift at joint 6.

LOAD CASE(S) Standard





Job L205488	Truss T24	Truss Type ATTIC	Qty 7	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

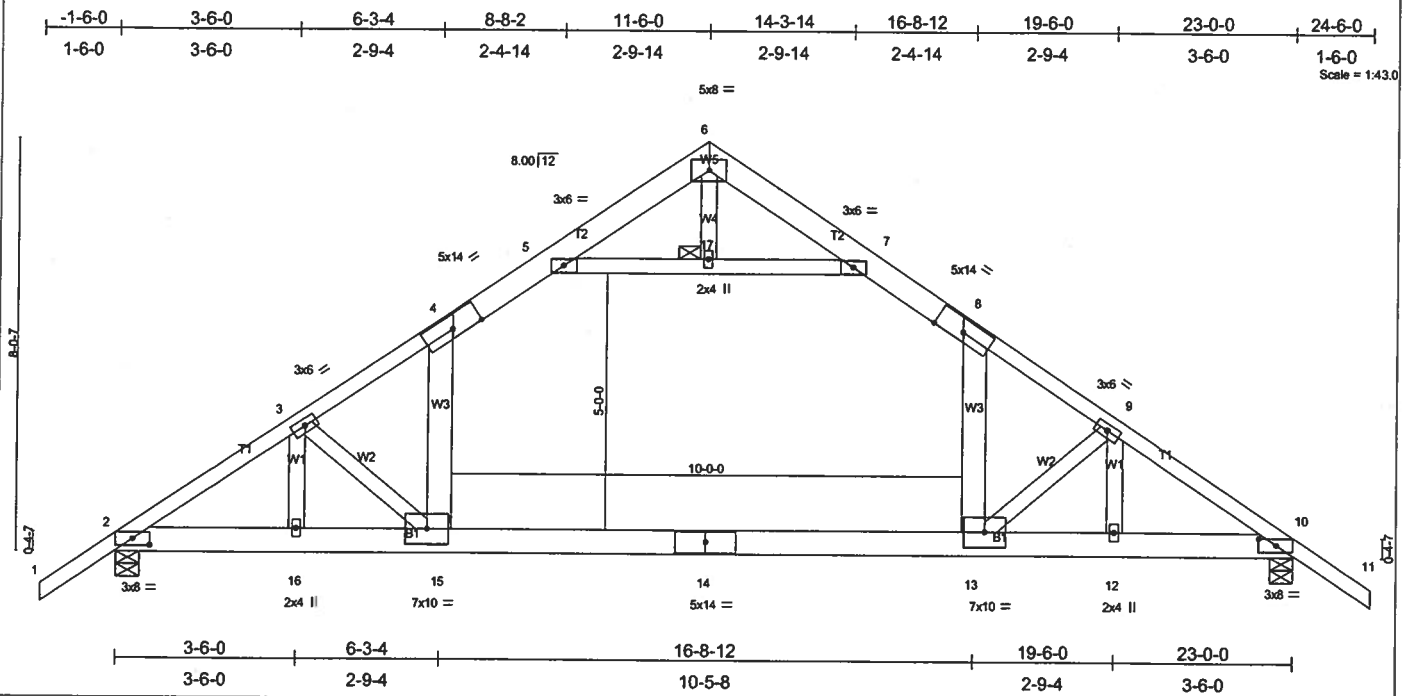
Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:11:03 2006 Page 1

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

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plates Increase 2-0-0	TC 0.82	Vert(LL)	-0.37	13-15	>734	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.80	Vert(TL)	-0.60	13-15	>451		
BCCL 10.0	Rep Stress Incr YES	WB 0.42	Horz(TL)	0.04	10	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 157 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D "Except"
T1 2 X 4 SYP No.1D, T1 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 "Except"
W3 2 X 6 SYP No.1D, W3 2 X 6 SYP No.1D

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.
JOINTS 1 Brace at Jt(s): 17

REACTIONS

(lb/size) 2=1554/0-5-8, 10=1554/0-5-8
Max Horz 2=267(load case 4)
Max Uplift 2=264(load case 5), 10=264(load case 6)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-2214/218, 3-4=-2350/180, 4-5=-1668/251, 5-6=0/398, 6-7=0/398, 7-8=-1668/251, 8-9=-2350/180, 9-10=-2214/218, 10-11=0/48
BOT CHORD 2-16=-170/1808, 15-16=-170/1808, 14-15=0/1773, 13-14=0/1773, 12-13=-50/1808, 10-12=-50/1808
WEBS 5-17=-2237/216, 7-17=-2237/216, 4-15=0/1013, 8-13=0/1013, 6-17=0/118, 3-16=-485/98, 3-15=-200/294, 9-12=-485/101, 9-13=-204/298

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Ceiling dead load (5.0 psf) on member(s), 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s), 4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2 and 264 lb uplift at joint 10.

LOAD CASE(S) Standard

Job L205488	Truss T25	Truss Type COMMON	Qty 8	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:11:07 2006 Page 1		

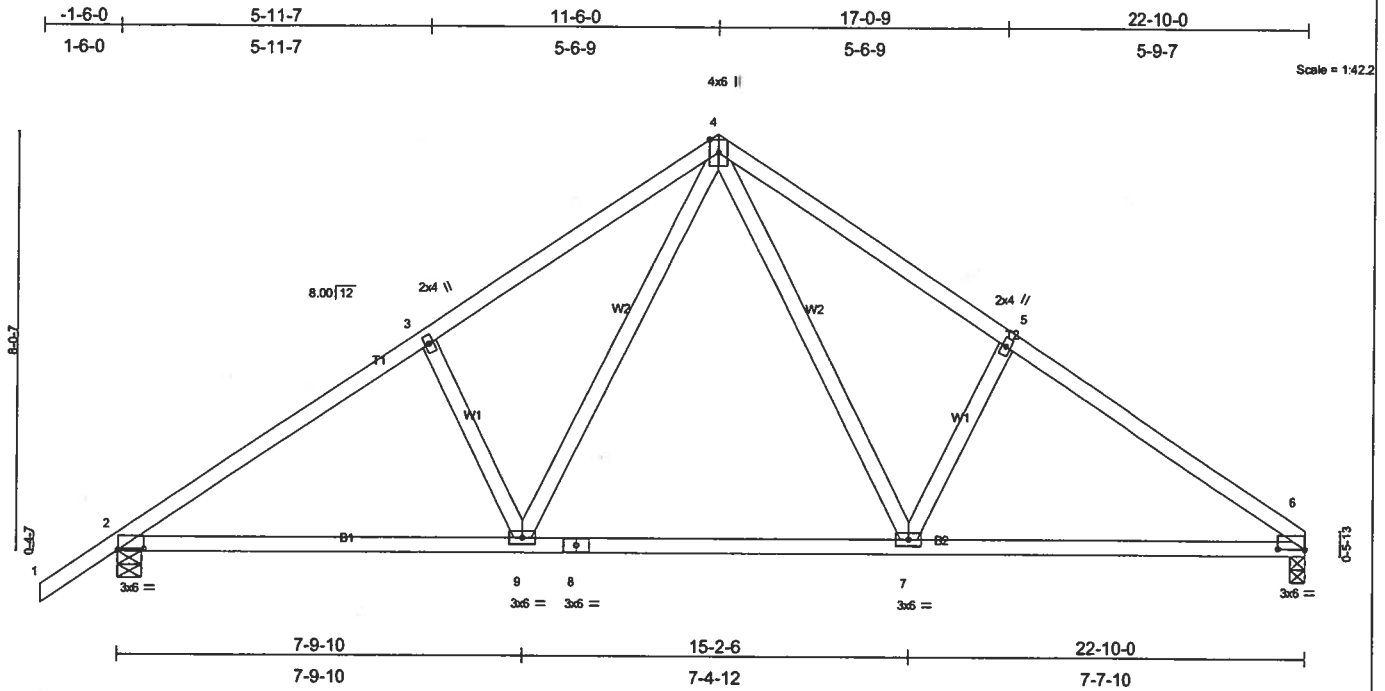


Plate Offsets (X,Y): [2.0-6-3,0-0-6], [6.0-6-3,0-0-3]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.39	Vert(LL) -0.11 6-7 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.32	Vert(TL) -0.19 6-7 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 6 n/a n/a		
	Code FBC2004/TPI2002			Weight: 115 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

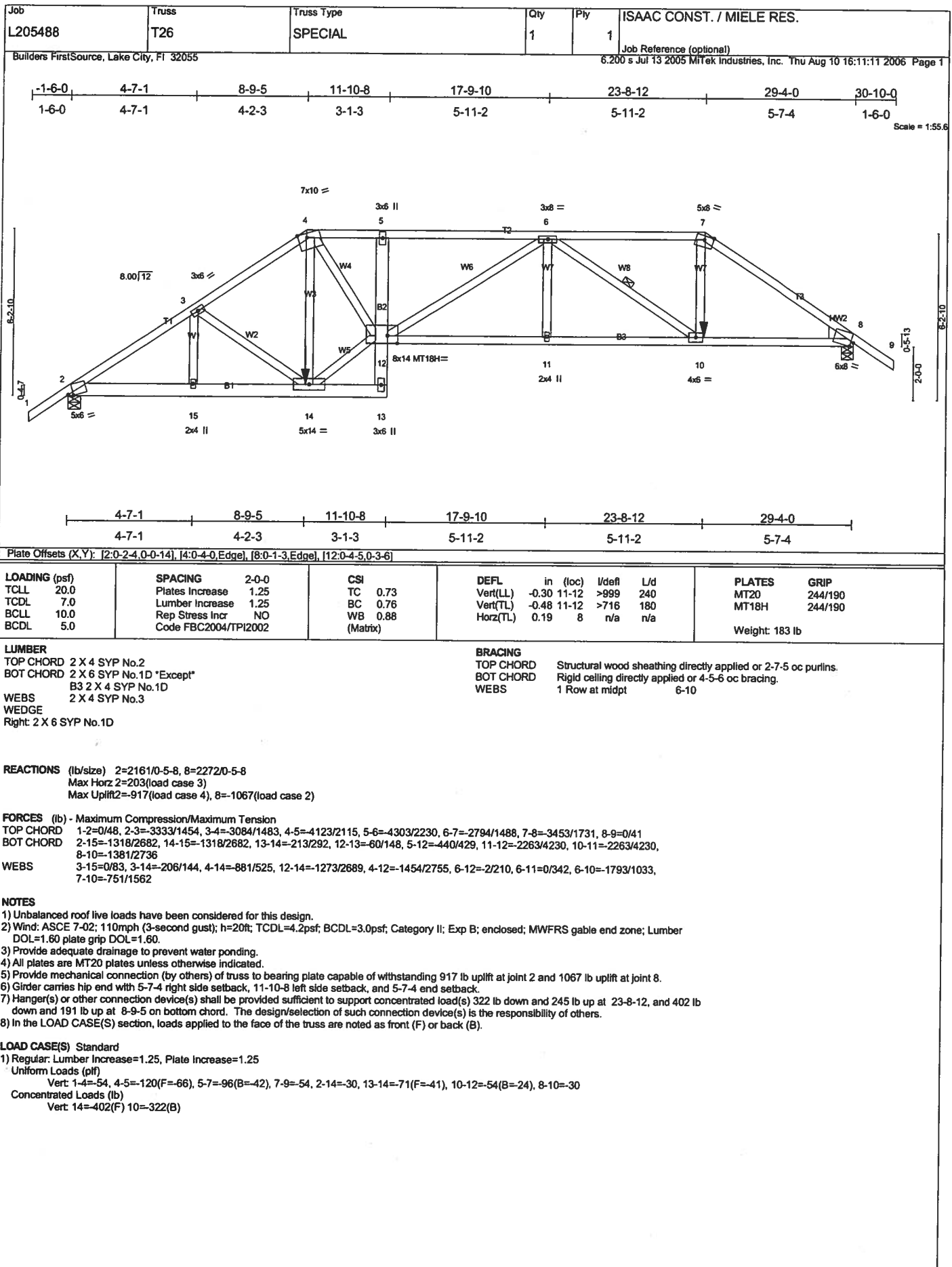
REACTIONS (lb/size) 6=940/0-3-8, 2=1040/0-5-8
Max Horz 2=290(load case 4)
Max Uplift 6=-296(load case 6), 2=-401(load case 5)

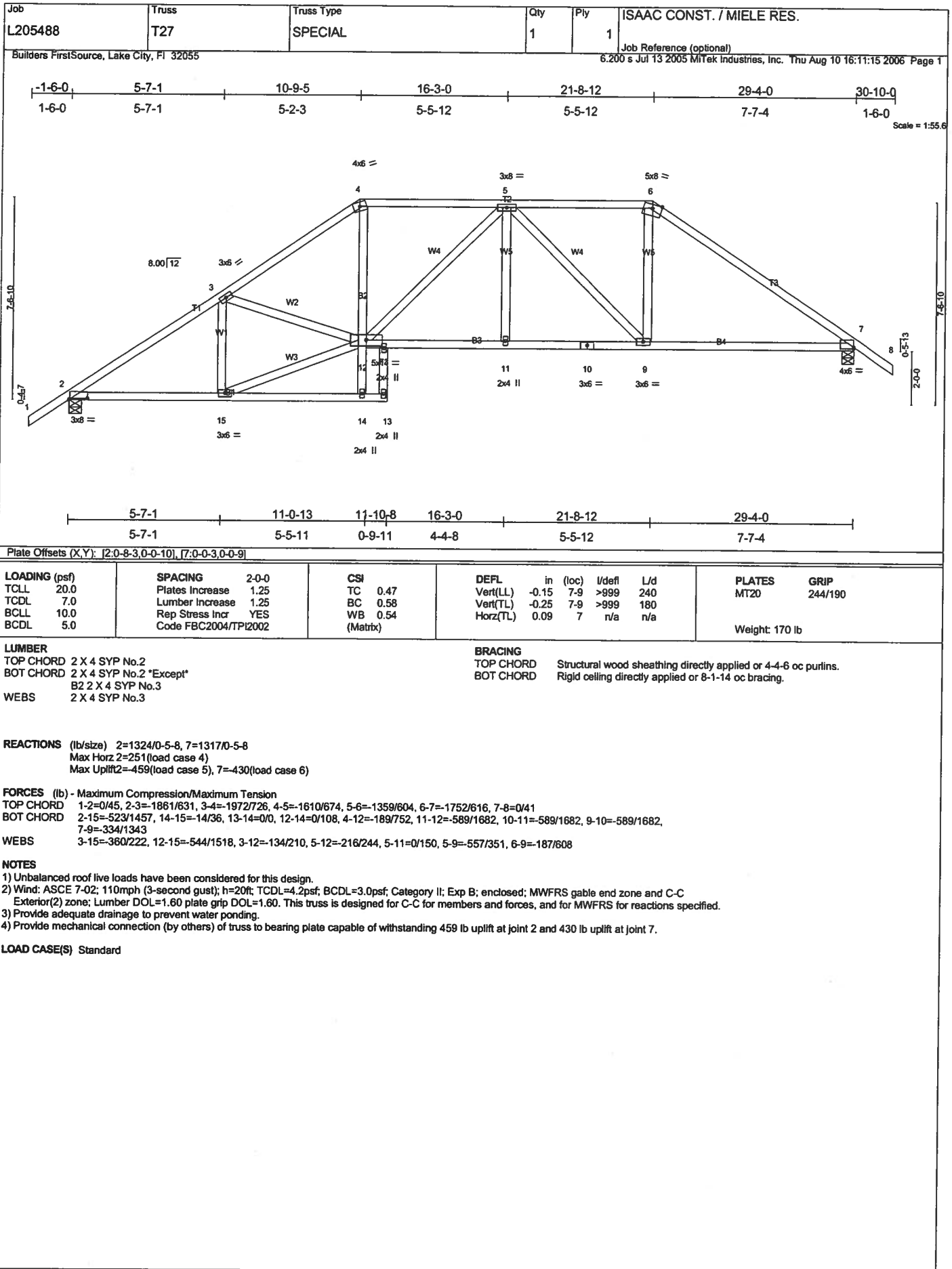
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1322/457, 3-4=-1184/521, 4-5=-1188/535, 5-6=-1307/469
BOT CHORD 2-9=-333/1020, 8-9=-116/692, 7-8=-116/692, 6-7=-290/1022
WEBS 3-9=-265/276, 4-9=-225/529, 4-7=-248/536, 5-7=-265/285

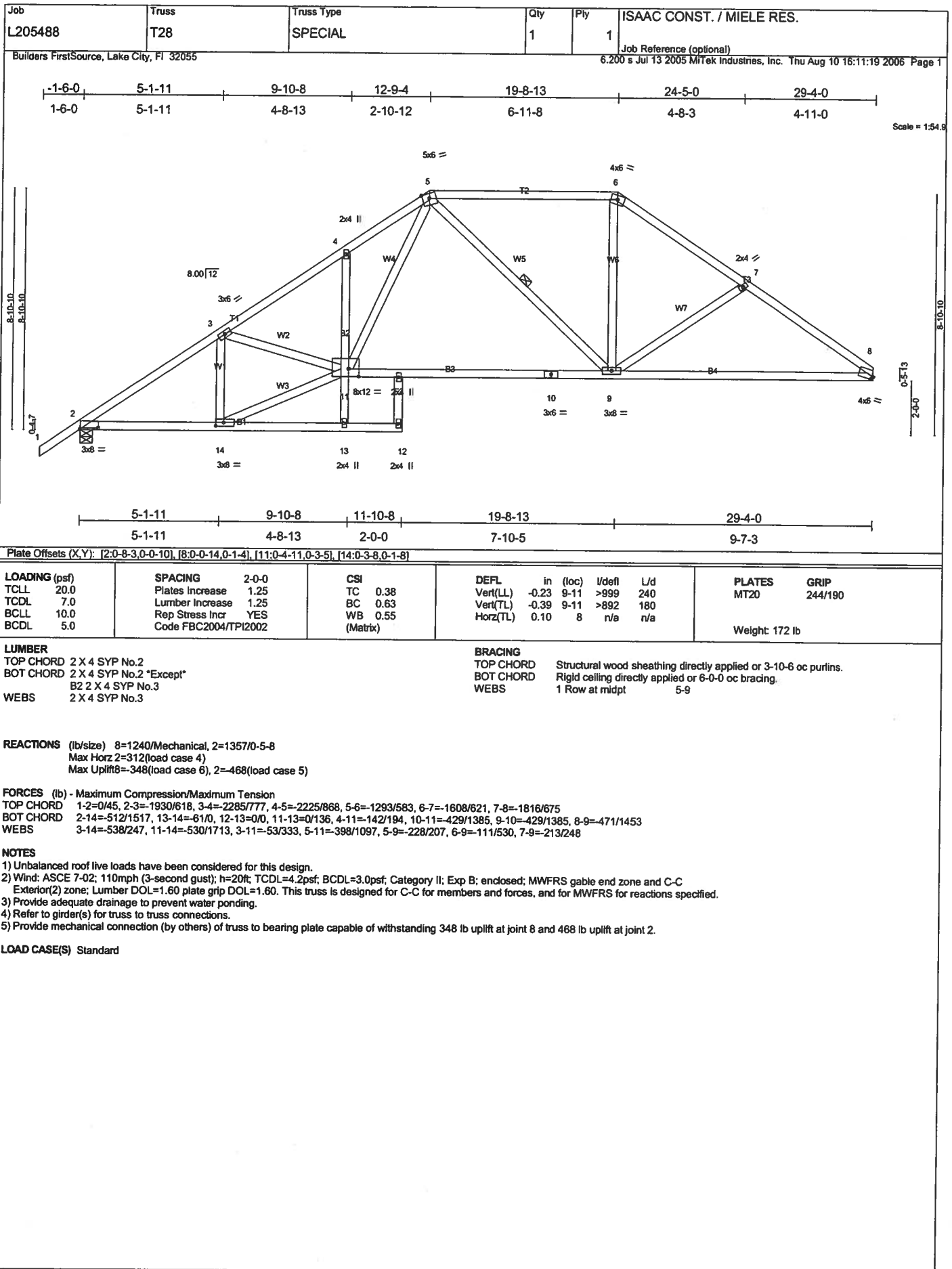
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 6 and 401 lb uplift at joint 2.

LOAD CASE(S) Standard







Job L205488	Truss T29	Truss Type SPECIAL	Qty 4	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, Fl 32055

Job Reference (optional)

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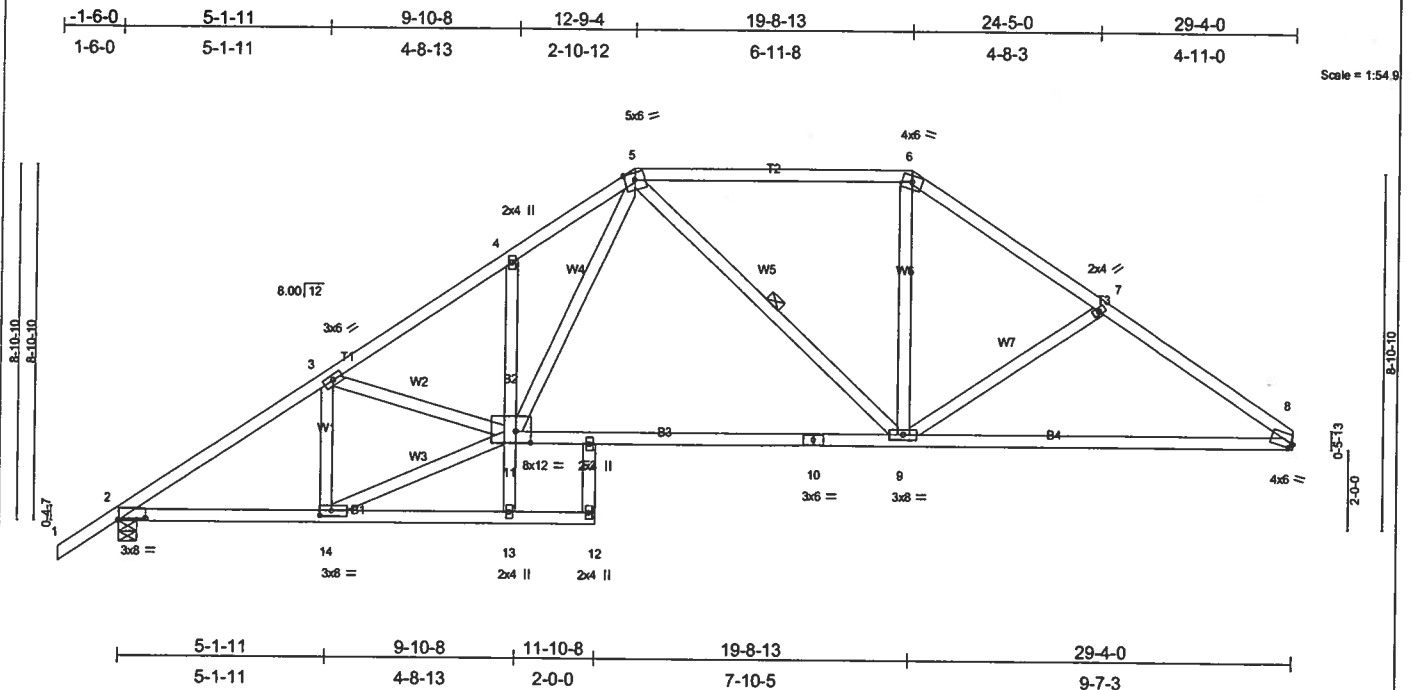


Plate Offsets (X,Y): [2:0-8-3,0-0-10], [8:0-0-14,0-1-4], [11:0-4-11,0-3-5], [14:0-3-8,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	2-0-0	TC 0.38	Vert(LL) -0.23	9-11	>999	240	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.63	Vert(TL) -0.39	9-11	>892	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.55	Horz(TL) 0.10	8	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code FBC2004/TP12002							
							Weight: 172 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins, except
 2-0-0 oc purlins (5-2-7 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-9

REACTIONS

(lb/size) 8=1240/Mechanical, 2=1357/0-5-8
 Max Horz 2=312(load case 4)
 Max Uplift 8=348(load case 6), 2=468(load case 5)

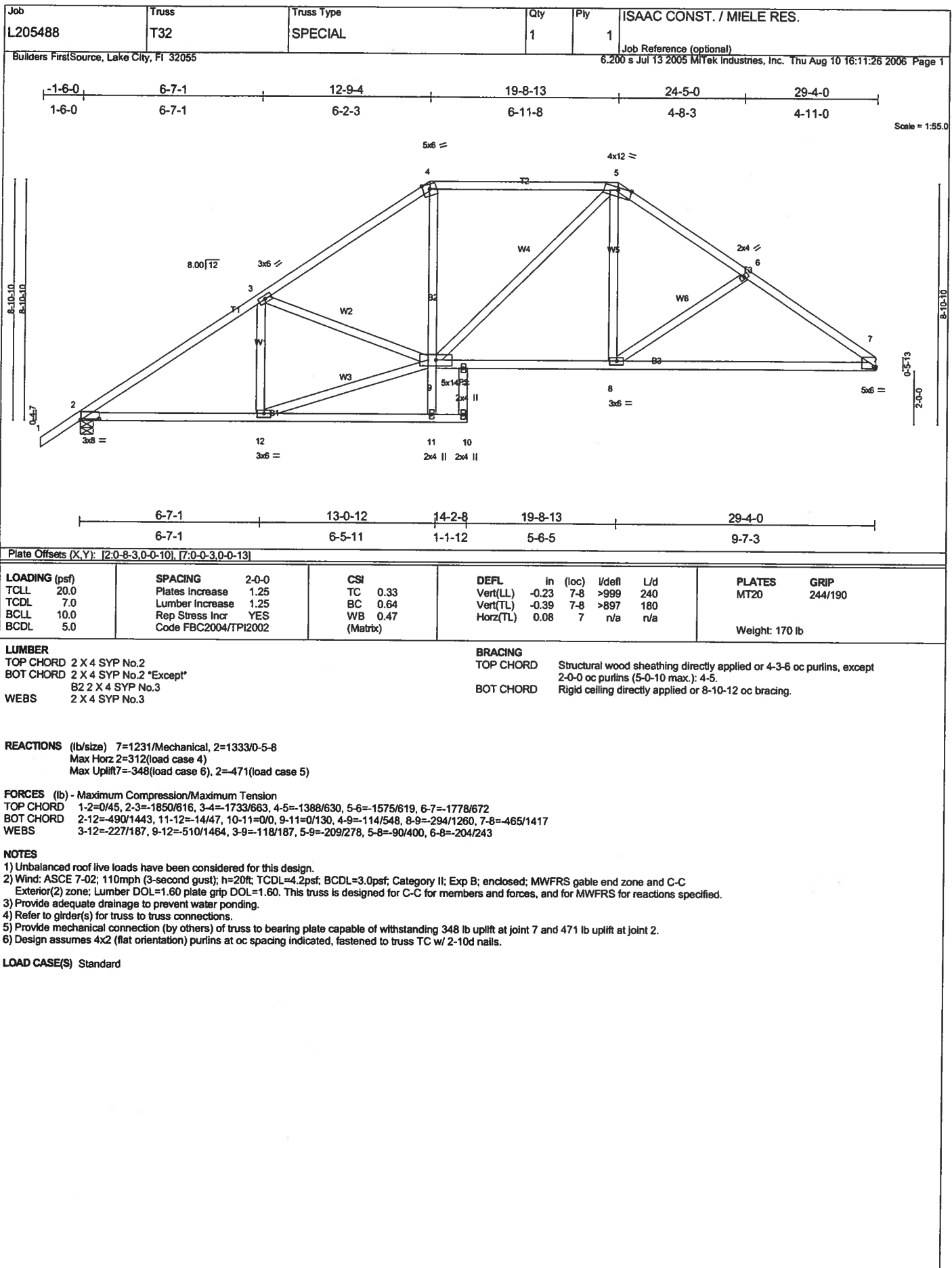
FORCES (lb) - Maximum Compression/Maximum Tension

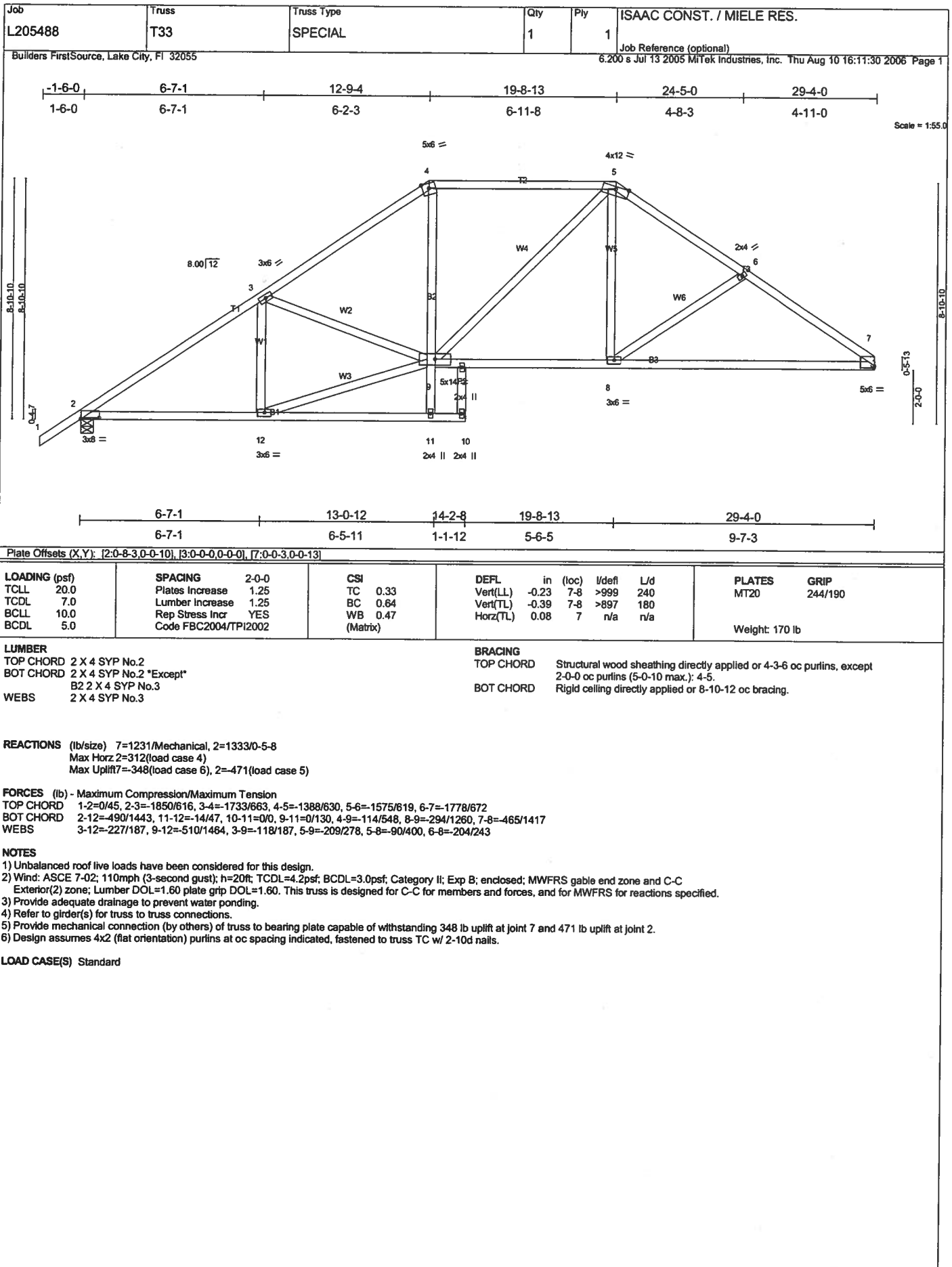
TOP CHORD 1-2=0/45, 2-3=-1930/618, 3-4=-2285/777, 4-5=-2225/868, 5-6=-1293/583, 6-7=-1608/621, 7-8=-1816/675
 BOT CHORD 2-14=-512/1517, 13-14=-61/0, 12-13=0/0, 11-13=0/136, 4-11=-142/194, 10-11=-429/1385, 9-10=-429/1385, 8-9=-471/1453
 WEBS 3-14=-538/247, 11-14=-530/1713, 3-11=-53/333, 5-11=-398/1097, 5-9=-228/207, 6-9=-111/530, 7-9=-213/248

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=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.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 8 and 468 lb uplift at joint 2.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	T34	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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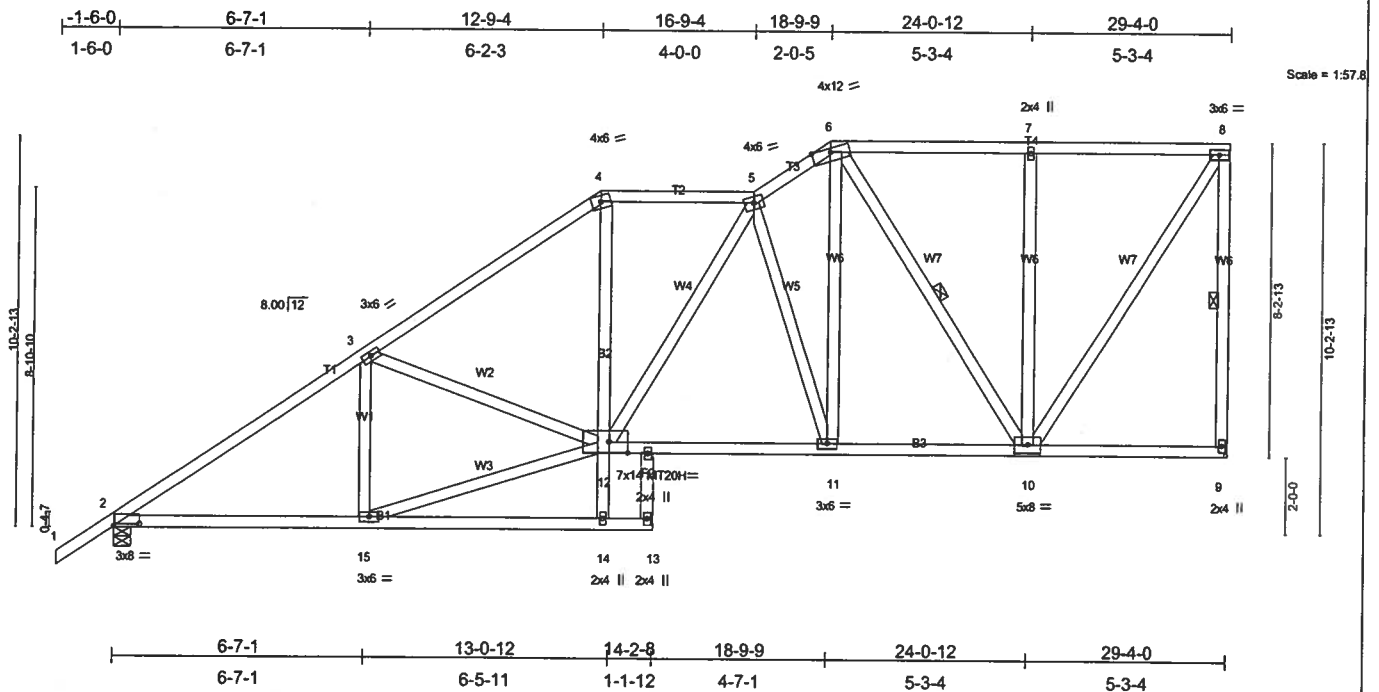


Plate Offsets (X,Y): [2:0-8-3,0-0-10], [12:0-5-14,0-3-6]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.38	Vert(LL)	-0.13 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.47	Vert(TL)	-0.21 11-12	>999	180	MT20H	187/143
BCLL 10.0	Rep Stress Incr	YES	WB 0.83	Horz(TL)	0.07 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)					Weight: 219 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-8 max.): 4-5, 6-8.
BOT CHORD	Rigid ceiling directly applied or 4-3-8 oc bracing.
WEBS	1 Row at midpt 8-9, 6-10
JOINTS	1 Brace at Jt(s): 8

REACTIONS

(lb/size) 9=1231/Mechanical, 2=1333/0-5-8
Max Horz 2=520(load case 5)
Max Uplift 9=-411(load case 5), 2=-451(load case 5)

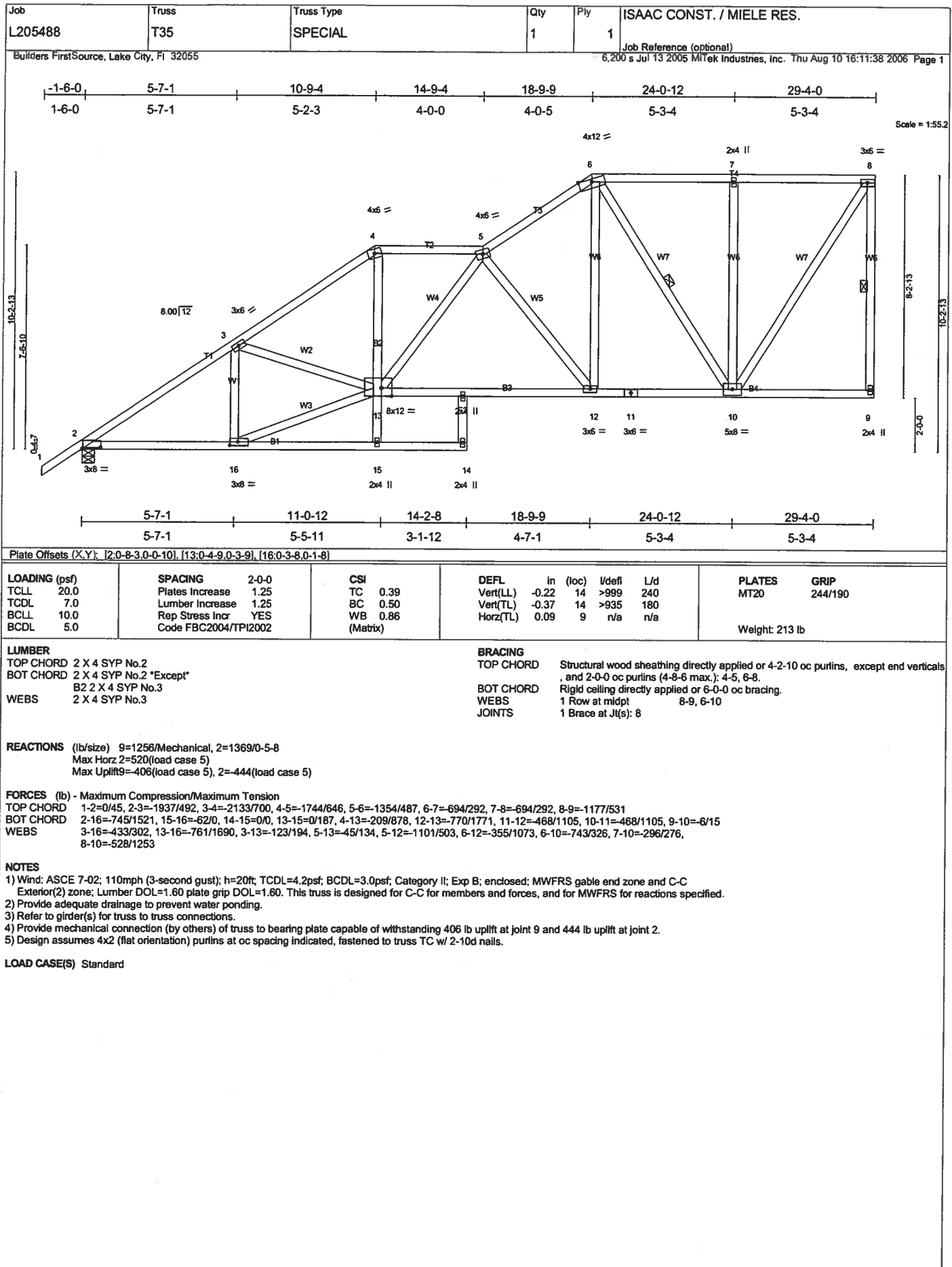
FORCES (lb) - Maximum Compression/Maximum Tension

Category	Maximum Chords/Maximum Version
TOP CHORD	1-2=0/45, 2-3=1852/497, 3-4=1735/629, 4-5=1381/595, 5-6=1254/509, 6-7=680/296, 7-8=680/296, 8-9=1156/537
BOT CHORD	2-15=735/1445, 14-15=11/29, 13-14=0/0, 12-14=0/129, 4-12=129/601, 11-12=606/1327, 10-11=475/1068, 9-10=6/14
WEBS	3-15=233/265, 12-15=761/1485, 3-12=150/110, 5-12=140/147, 5-11=888/455, 6-11=402/1023, 6-10=701/328, 7-10=297/268, 8-10=536/1227

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDD=4.2psf; BCDD=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 9 and 451 lb uplift at joint 2.
- 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	T36	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:11:42 2006 Page 1

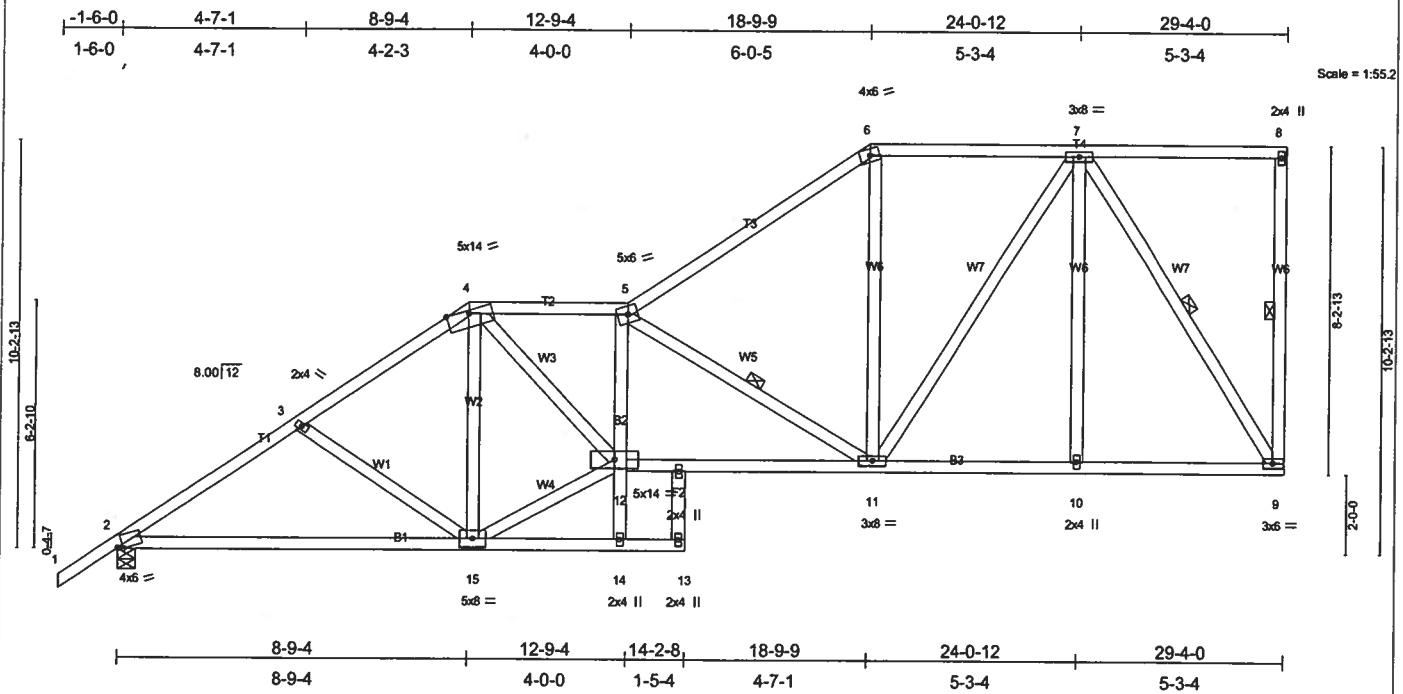


Plate Offsets (X,Y): [2:0-1-9,0-0-10]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl l/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.27	Vert(LL) -0.17 2-15 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.53	Vert(TL) -0.29 2-15 >999 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.54	Horz(TL) 0.10 9 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)		Weight: 209 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals and 2-0-0 oc purlins (4-1-4 max.): 4-5, 6-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 8-9, 5-11, 7-9
JOINTS	1 Brace at Jt(s): 8

REACTIONS

REACTIONS (lb/size) 9=1235/Mechanical, 2=1338/0-5-8
Max Horz 2=520(load case 5)
Max Uplift 9=410(load case 5), 2=450(load case 5)

FORCES

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/45, 2-3=-1820/529, 3-4=-1634/483, 4-5=-2329/841, 5-6=-1364/478, 6-7=-1070/475, 7-8=-14/6, 8-9=-127/96
 BOT CHORD 2-15=-787/1454, 14-15=-43/0, 13-14=0/0, 12-14=0/63, 5-12=-146/107, 11-12=-1041/2367, 10-11=-292/680, 9-10=-292/680
 WEBS 3-15=-188/262, 4-15=-386/278, 12-15=-665/1483, 4-12=-554/1467, 5-11=-1544/677, 6-11=-37/387, 7-11=-348/718, 7-10=0/147,
 7-9=-1229/529

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDD=4.2psf; BCDD=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 410 lb uplift at joint 9 and 450 lb uplift at joint 2.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

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

Job L205488	Truss T38	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:11:50 2006 Page 1		

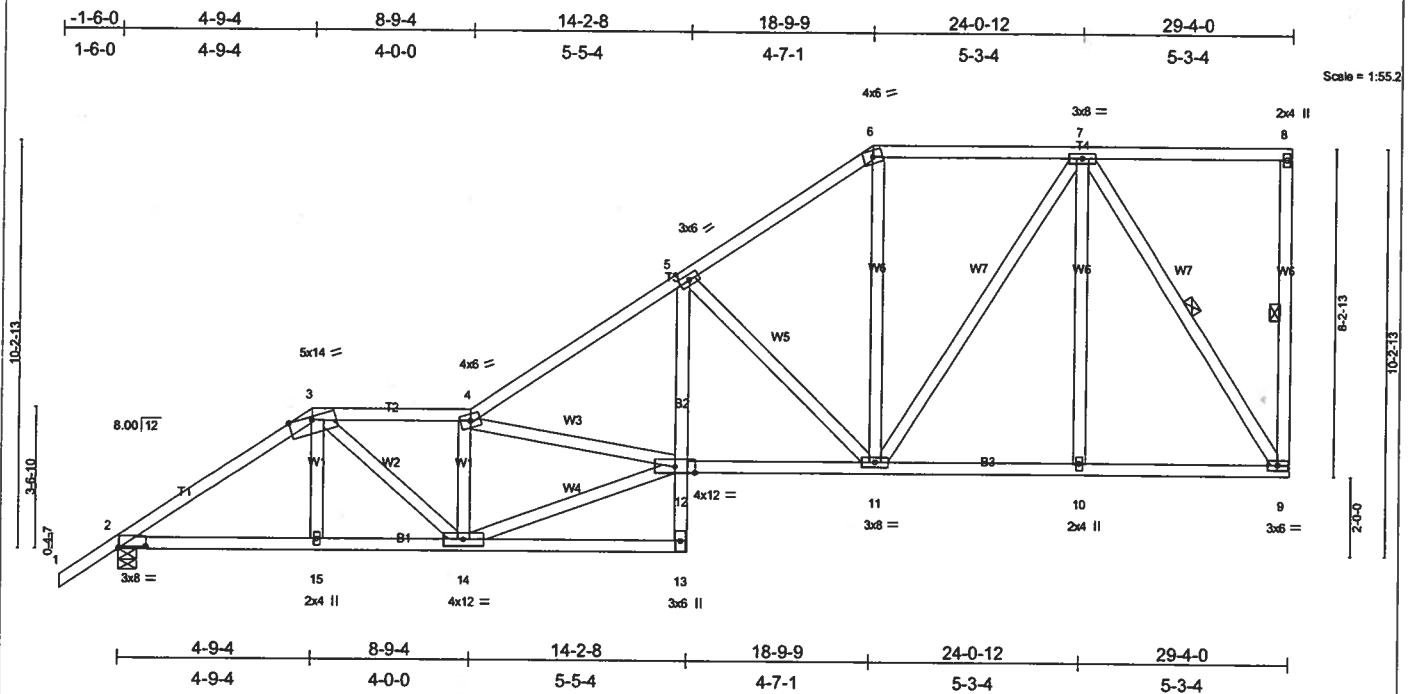


Plate Offsets (X,Y): [2:0-8-3,0-0-10]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.50	Vert(LL) -0.16 13-14 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.99	Vert(TL) -0.26 13-14 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrb)	Horz(TL) 0.09 9 n/a n/a		
	Code FBC2004/TPI2002				
					Weight: 207 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 "Except"
 B2 2 X 4 SYP No.3
 WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals
 and 2-0-0 oc purlins (4-2-0 max.); 3-4, 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-8-7 oc bracing.
 WEBS 1 Row at midpt 8-9, 7-9
 JOINTS 1 Brace at Jt(s): 8

REACTIONS

(lb/size) 9=1213/Mechanical, 2=1312/0-5-8
 Max Horz 2=520(load case 5)
 Max Uplift 9=414(load case 5), 2=455(load case 5)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/45, 2-3=-1852/517, 3-4=-2242/680, 4-5=-2352/819, 5-6=-1306/497, 6-7=-1035/472, 7-8=-14/5, 8-9=-124/97
 BOT CHORD 2-15=-768/1452, 14-15=-768/1458, 13-14=-20/78, 12-13=0/96, 5-12=-395/1147, 11-12=-888/1904, 10-11=-295/668, 9-10=-295/668
 WEBS 3-15=0/136, 3-14=-269/1025, 4-14=-1412/593, 12-14=-1050/2391, 4-12=-417/1119, 5-11=-1223/596, 6-11=-89/418, 7-11=-340/675,
 7-10=0/151, 7-9=-1208/535

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 9 and 455 lb uplift at joint 2.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	T39	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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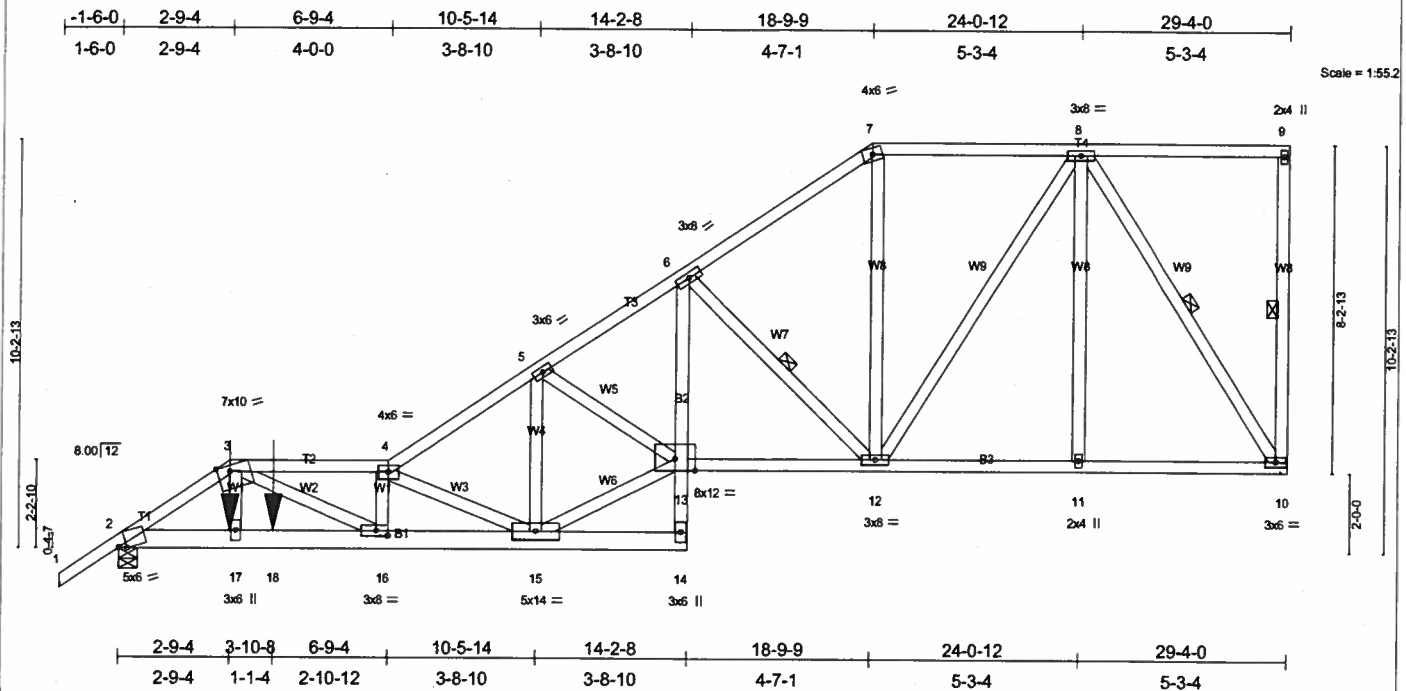


Plate Offsets (X,Y): [2:0-2-5,0-0-14], [3:0-4-0,Edge], [16:0-3-8,0-1-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	L/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.50	Vert(LL) -0.22 15-16	>999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.62	Vert(TL) -0.35 15-16	>990 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.81	Horz(TL) 0.08 10	n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)				
					Weight: 220 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 6 SYP No.1D, B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-5-11 oc purlins, except end verticals , and 2-0-0 oc purlins (2-10-1 max.); 3-4, 7-9.
BOT CHORD	Rigid ceiling directly applied or 6-5-11 oc bracing.
WEBS	1 Row at midpt 9-10, 6-12, 6-10
JOINTS	1 Brace at Jt(s): 9

REACTIONS (lb/size) 10=1303/Mechanical, 2=1944/0-5-8
Max Horz 2=521(load case 4)
Max Uplift 10=-448(load case 4), 2=-712(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/48, 2-3=3147/968, 3-4=4280/1301, 4-5=2761/785, 5-6=2633/887, 6-7=1439/488, 7-8=1151/471, 8-9=14/5, 9-10=125/97
BOT CHORD 2-17=1191/2530, 17-18=1209/2594, 16-18=1209/2594, 15-16=1689/4333, 14-15=43/70, 13-14=5/70, 6-13=522/1446, 12-13=942/2158
WEBS 11-17=264/725, 10-11=264/725
3-17=275/814, 3-16=512/1865, 4-16=671/216, 4-15=2295/809, 5-15=97/179, 13-15=1051/2516, 5-13=153/36, 6-12=1419/661,
7-12=107/482, 6-12=383/784, 8-11=0/151, 8-10=1313/480

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.

2) Provide adequate drainage to prevent water ponding.

3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 10 and 712 lb uplift at joint 2.

5) Girder carries hip end with 26'-5" right side setback, 2'-9" left side setback, and 2'-9" end setback.

6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 671 lb down and 318 lb up at 3-10-8, and 49 lb down and 38 lb up at 2-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 4-7=-54, 7-9=-54, 2-14=-30, 10-13=-30

Concentrated Loads (lb)

Vert 17=-49(F) 18=-671(F)

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

Job L205488	Truss T40	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 10 16:11:58 2006 Page 1		

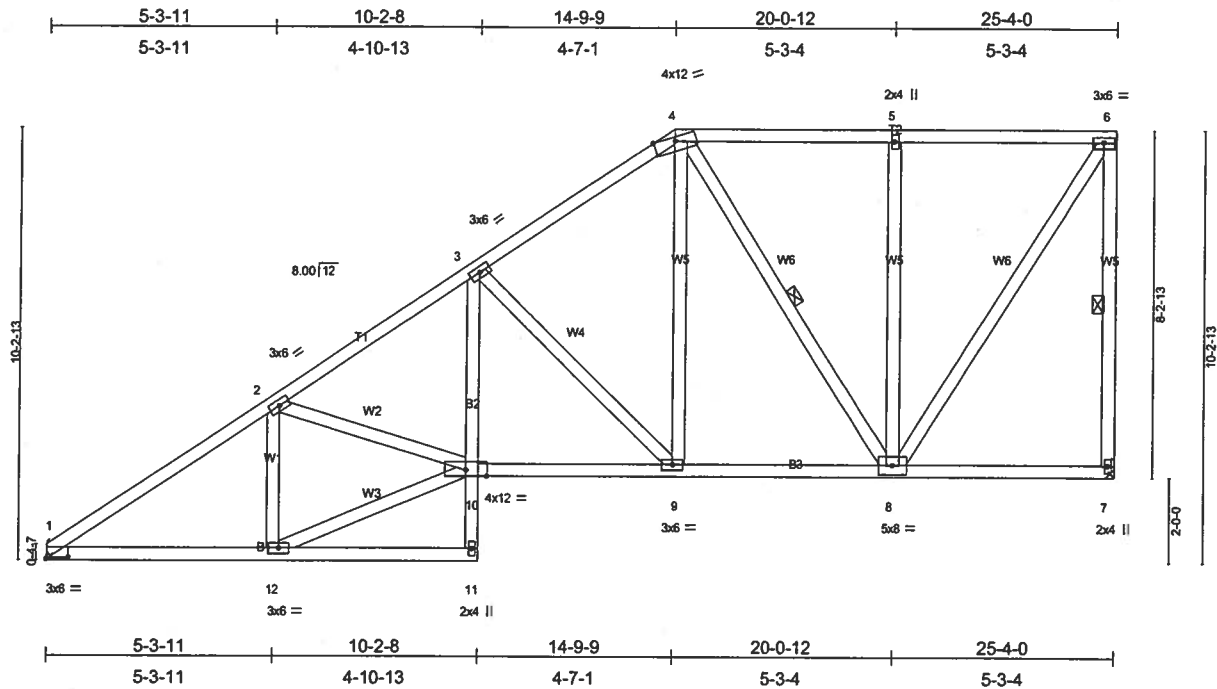


Plate Offsets (X,Y): [1:0-6-3,0-0-6], [2:0-0-0,0-0-0], [3:0-0-0,0-0-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.33	Vert(LL)	-0.09	9-10	>999	240	
TCDL 7.0	Lumber Increase	1.25	BC 0.38	Vert(TL)	-0.15	9-10	>999	180	
BCLL 10.0	Rep Stress Incr	YES	WB 0.74	Horz(TL)	0.06	7	n/a	n/a	
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 180 lb

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 7-4-12 oc bracing.
 WEBS 1 Row at midpt 6-7, 4-8
 JOINTS 1 Brace at Jt(s): 6

REACTIONS

(lb/size) 1=1052/Mechanical, 7=1052/Mechanical
 Max Horz 1=458(load case 5)
 Max Uplift 1=-276(load case 5), 7=-373(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1601/418, 2-3=-1716/644, 3-4=-1053/424, 4-5=-565/265, 5-6=-564/265, 6-7=-977/490
 BOT CHORD 1-12=-692/1257, 11-12=-15/35, 10-11=0/65, 3-10=-277/660, 9-10=-733/1373, 8-9=-418/832, 7-8=-6/14
 WEBS 2-12=-364/317, 10-12=-741/1336, 2-10=-64/111, 3-9=-772/472, 4-9=-290/676, 4-8=-484/293, 5-8=-296/276, 6-8=-478/1015

NOTES

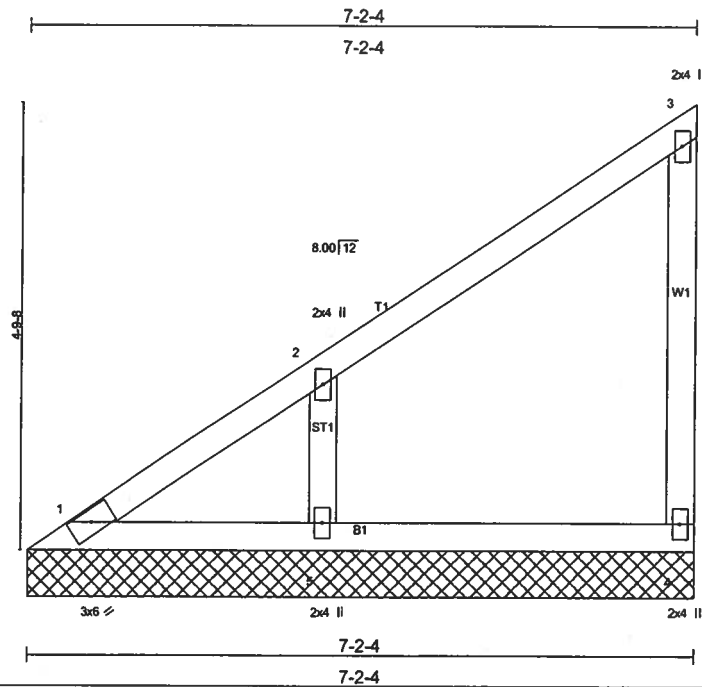
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 1 and 373 lb uplift at joint 7.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	V07	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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Scale = 1/2" = 1'-0"

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.07	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Lumber Increase 1.25	WB 0.06	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 31 lb	

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

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

REACTIONS (lb/size) 1=86/7-2-4, 4=142/7-2-4, 5=323/7-2-4
 Max Horz 1=202(load case 5)
 Max Uplift 4=89(load case 5), 5=199(load case 5)

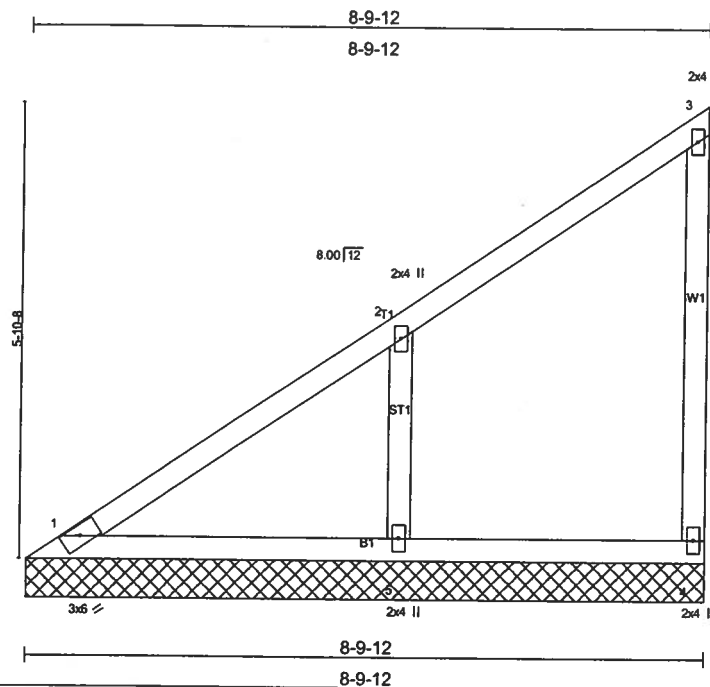
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-211/35, 2-3=-80/36, 3-4=-87/104
 BOT CHORD 1-5=-11/15, 4-5=-11/15
 WEBS 2-5=-206/239

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 4 and 199 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	V08	VALLEY	1	1	
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional)		
6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 10 16:12:06 2006 Page 1					



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.13	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 40 lb	

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

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

REACTIONS (lb/size) 1=149/8-9-12, 4=124/8-9-12, 5=414/8-9-12
Max Horz 1=252(load case 5)
Max Uplift 4=-78(load case 5), 5=-256(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-240/65, 2-3=-78/37, 3-4=-79/93
BOT CHORD 1-5=-6/8, 4-5=-6/8
WEBS 2-5=-258/280

NOTES

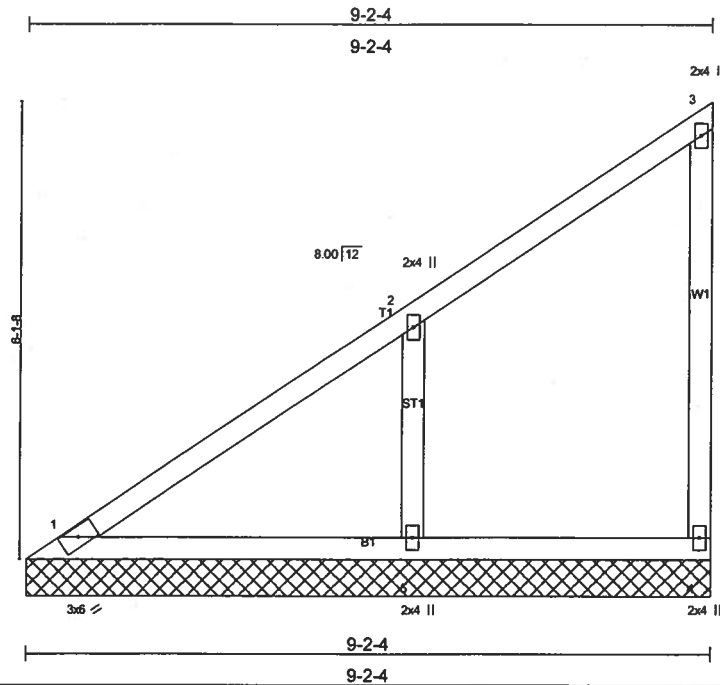
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 4 and 256 lb uplift at joint 5.
3) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. / MIELE RES.
L205488	V09	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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Scale = 1/28.5

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.15	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Lumber Increase 1.25	WB 0.07	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 42 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 1=162/9-2-4, 4=118/9-2-4, 5=439/9-2-4
 Max Horz 1=263(load case 5)
 Max Uplift 4=74(load case 5), 5=271(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-248/73, 2-3=-78/37, 3-4=-76/89
 BOT CHORD 1-5=-5/6, 4-5=-5/6
 WEBS 2-5=-272/293

NOTES

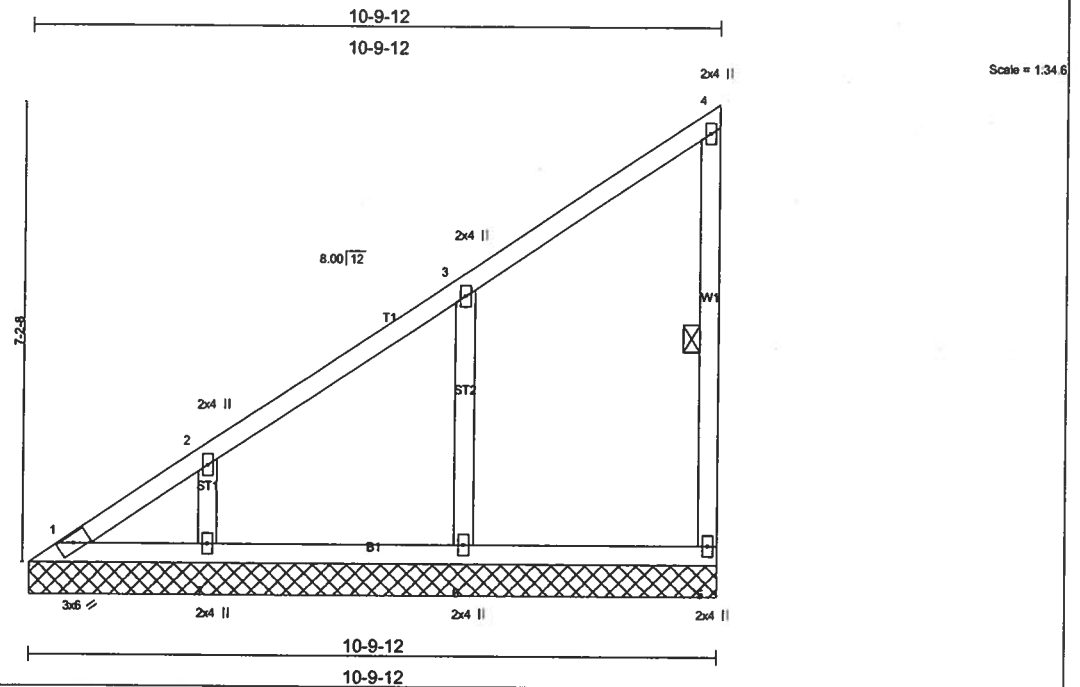
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 4 and 271 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L205488	Truss V10	Truss Type VALLEY	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
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Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 10.0	Lumber Increase 1.25	WB 0.08	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 5 n/a n/a		
	Code FBC2004/TPI2002			Weight: 52 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" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
 WEBS 1 Row at midpt 4-5

REACTIONS (lb/size) 1=65/10-9-12, 5=137/10-9-12, 6=360/10-9-12, 7=293/10-9-12
 Max Horz 1=313(load case 5)
 Max Uplift 1=-2(load case 3), 5=-86(load case 5), 6=-221(load case 5), 7=-183(load case 5)
 Max Grav 1=168(load case 5), 5=137(load case 1), 6=360(load case 1), 7=293(load case 1)

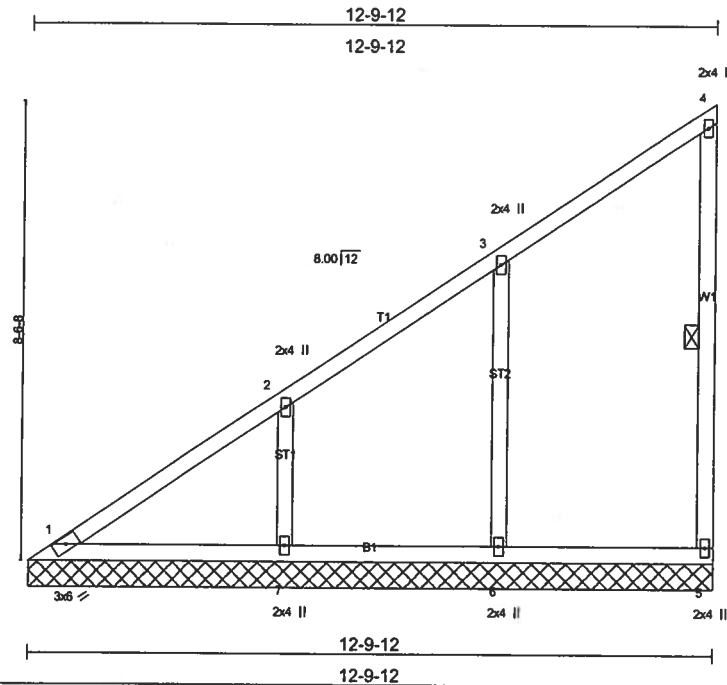
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-347/38, 2-3=-226/55, 3-4=-74/41, 4-5=-85/93
 BOT CHORD 1-7=-5/7, 6-7=-5/7, 5-6=-5/7
 WEBS 3-6=-233/255, 2-7=-186/200

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 86 lb uplift at joint 5, 221 lb uplift at joint 6 and 183 lb uplift at joint 7.
- 3) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

Job L205488	Truss V12	Truss Type VALLEY	Qty 1	Ply 1	ISAAC CONST. / MIELE RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Thu Aug 10 16:12:17 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 10.0	Lumber Increase 1.25	WB 0.12	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 5 n/a n/a		
	Code FBC2004/TP12002			Weight: 65 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-5

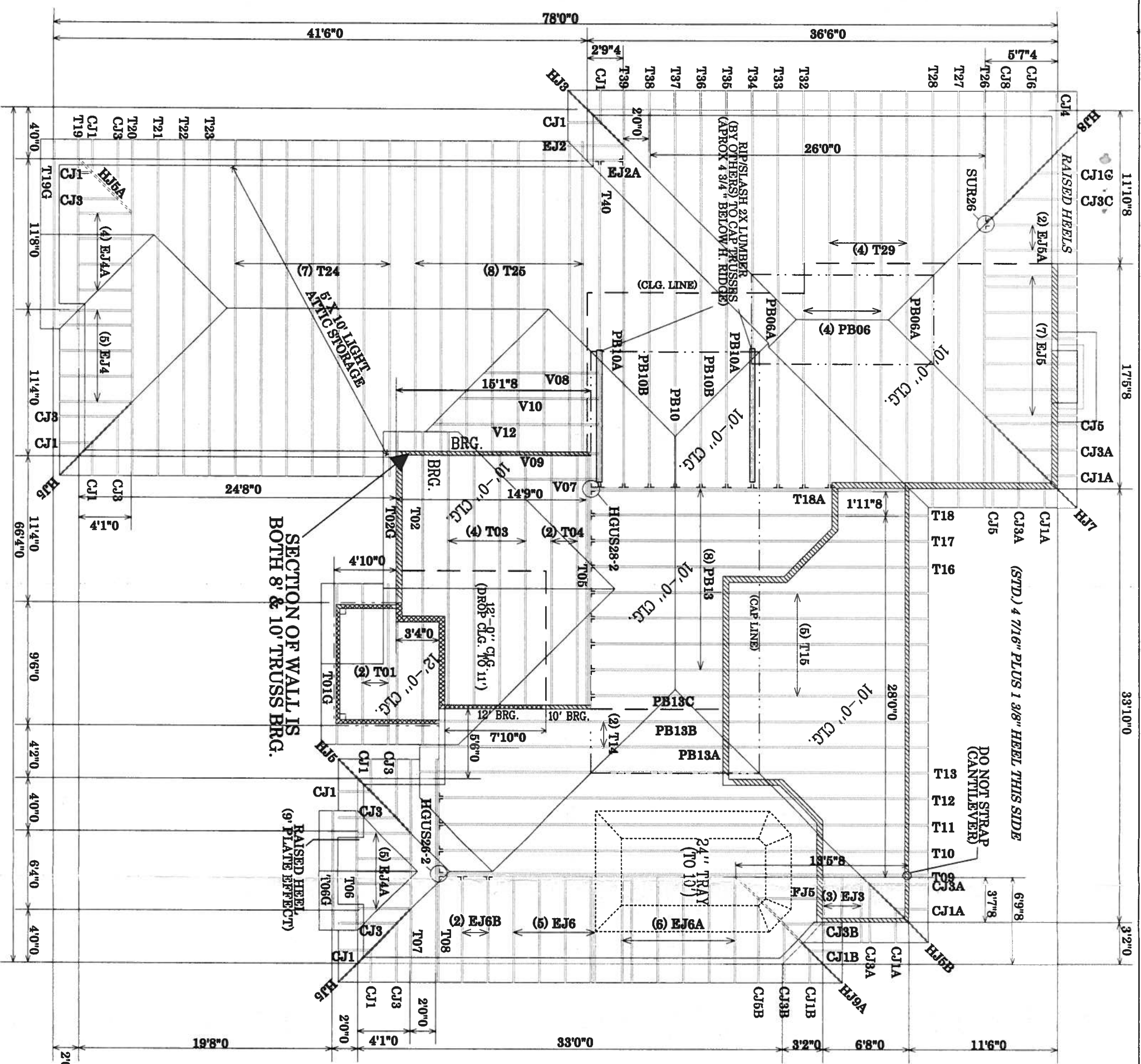
REACTIONS (lb/size) 1=150/12-9-12, 5=142/12-9-12, 6=333/12-9-12, 7=398/12-9-12
 Max Horz 1=375(load case 5)
 Max Uplift 5=-90(load case 5), 6=-205(load case 5), 7=-248(load case 5)
 Max Grav 1=156(load case 5), 5=142(load case 1), 6=333(load case 1), 7=398(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-379/66, 2-3=-219/50, 3-4=-71/44, 4-5=-88/95
 BOT CHORD 1-7=-4/6, 6-7=-4/6, 5-6=-4/6
 WEBS 3-6=-218/240, 2-7=-245/253

NOTES

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 5, 205 lb uplift at joint 6 and 248 lb uplift at joint 7.
- 3) Non Standard bearing condition. Review required.

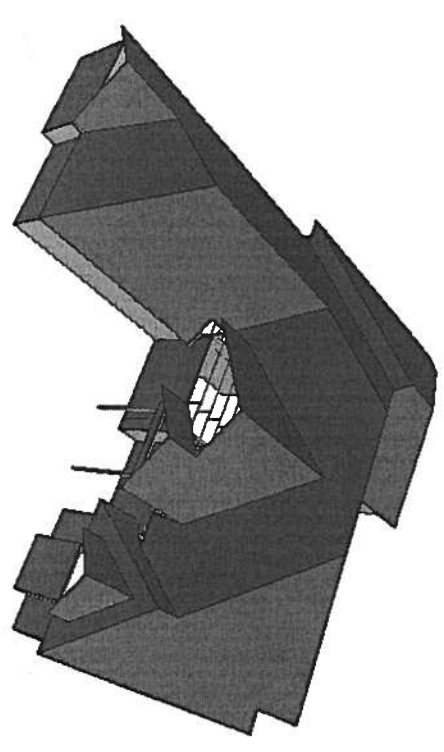
LOAD CASE(S) Standard



GABLE ENDS DROPPED FOR
2X4 OUTLOOKERS 12" OVERHANG.
18" OVERHANG STANDARD
8' CLGS. EXCEPT WHERE NOTED
8/12 ROOF

HANGER SCHEDULE

- (1) HGUS26-2
- (1) HGUS28-2
- (1) SUR26
- (25) HTU26



BEARING HEIGHT SCHEDULE	
	8'-0"
	10'-0"
	12'-0"

NOTES:

- 1) REFER TO HB 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 V05 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) 5/42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SHIPSON H108 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SHIPSON TRU422 UNLESS OTHERWISE NOTED.
- 8) BEARING ADJUSTMENT (BPA) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND V05S. ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS, REVISED AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO BEING AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Approved By: _____ Date: _____



BURNELL	
PHONE: 904-437-3344	FAX: 904-437-3444
JACKSONVILLE	
PHONE: 904-772-6100	FAX: 904-772-1973
LAKE CITY	
PHONE: 904-755-6844	FAX: 904-755-7973
SANTOARD	
PHONE: 407-322-0094	FAX: 407-322-5593
BUILDER: ISAAC CONSTRUCTION	
LEGAL ADDRESS: ROBERT & STEPHANIE MIELE	
MODEL: CUSTOM	REVISION: SCALE: NTS
DATE: 8/10/06	DRAWN BY: BPC
JOB #: L205488	