

DATE05/10/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT000024491

APPLICANTLINDA RODER

PHONE386.752.2281

ADDRESS387SW KEMP CT

LAKE CITYFL32024

OWNERDANIEL ROTH

PHONE386.719.7143

ADDRESS529NW BRIDGEWATER TERRACE

LAKE CITYFL32055

CONTRACTORISAAC BRATKOVICH

PHONE386.752.2281

LOCATION OF PROPERTY90-W TO LAKE JEFFREY RD, TO COBBLESTON ENTRANCE,TR TO BRIDGEWATER,AND IT'S TH 11TH LOT ON THE R.

TYPE DEVELOPMENTSFD/UTILITY

ESTIMATED COST OF CONSTRUCTION192950.00

HEATED FLOOR AREA3285.00

TOTAL AREA4273.00

HEIGHT26.30

STORIES1

FOUNDATIONCONC

WALLSFRAMED

ROOF PITCH8'12

FLOORCONC

LAND USE & ZONINGRSF-2

MAX. HEIGHT35

Minimum Set Back Requirments:

STREET-FRONT25.00

REAR15.00

SIDE10.00

NO. EX.D.U.0

FLOOD ZONEXPP

DEVELOPMENT PERMIT NO.

PARCEL ID24-3S-16-02275-111

SUBDIVISIONCOBBLESTONE

LOT11

BLOCK

PHASE1

UNIT

TOTAL ACRES1.72

000001072

CBC059323

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

18"X32"MITERED

06-0401-N

BLK

JTH

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS:NOC ON FILE. 1 FOOT ABOVE ROAD.

Check # or Cash5374

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 \$965.00

CERTIFICATION FEE \$21.37

SURCHARGE FEE \$21.37

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 FEE1107.74

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.

Cobblestone Lot 11

Columbia County Building Permit Application

Revised 8-23-04

For Office Use Only: Application # 0605-08 Date Received 5/2/06 By JW Permit # 1072-24491
Application Approved by - Zoning Official BLK Date 05.05.06 Plans Examiner DKYTH Date 5-8-06
Flood Zone X Per PLAT Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. Low Den.
Comments _____

Applicants Name Linda Roder or Mekinie Roder Phone 752-2281
Address 387 S.W. 10th St. Lake City FL 32024
Owners Name Daniel Roth Phone 719-7143
911 Address 529 NW Bridgewater Terrace Lake City FL 32055
Contractors Name Isaac Bratkovich Phone 719-7143
Address PMB 338 2109 W. 90 St 170 Lake City FL 32055
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Willmiers / Mark Disosway
Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 24-35-10-0225-111 Estimated Cost of Construction 230,000
Subdivision Name Cobblestone Lot 11 Block _____ Unit 1 Phase _____
Driving Directions: 90 W to Lake Jeffrey, go R, to Cobblestone entrance, R on Bridgewater. Lot is 11th lot down on R.

Type of Construction SPD Number of Existing Dwellings on Property 0
Total Acreage _____ Lot Size 1.72 AC Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 39'-2" Side 52'-4" Side 62'-2" Rear 178'-0"
Total Building Height 26'-3" Number of Stories 1 Heated Floor Area 3285 sq Roof Pitch 8-12
Porches 324 Garage 640 33091 TOTAL 4273

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.

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Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA



Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Pain Insurance, Inc. 800-365-7018

Sworn to (or affirmed) and subscribed before me

this 4 day of April 2006

Personally known X or Produced Identification _____

Contractor Signature

Contractors License Number

Competency Card Number CBC 059323

NOTARY STAMP/SEAL

Barbara Webster

Notary Signature

Florida Building Code Online



Building Code Information System

FLORIDA BUILDING CODE

Overview User Organization Registration User Registration Authentication Search Organization Authentication

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

Organization Product Manufacturer
Type:

Approved (All)
Status:

Organization General American Door - Product Manufacturer
Name:

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308591000	Product Manufacturer	01/01/2009	Approved

Org Code: FDM System ID: 3585

Site Link: www.gadco.com

Displaying 1-1 of 1

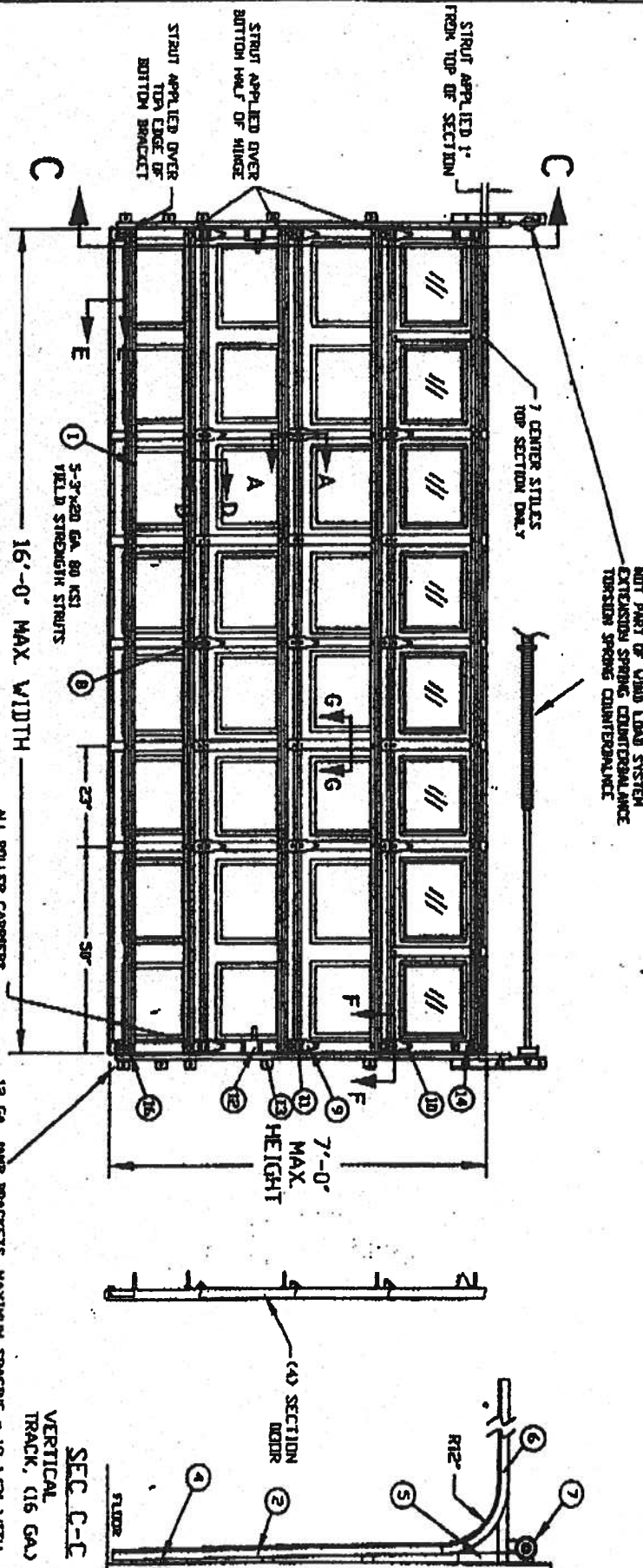
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http://www.floridabuilding.org/Common/c_org_reg_SRCH.asp

REV	DATE	BY	REVISION
A	11-10-00	DR	REVISED

NOTES:

1. TESTED IN POSITIVE AND NEGATIVE 20 PSF WINDS PER ASTM E-330
2. MAXIMUM SECTION HEIGHT = 21'
3. SECTION HEIGHTS OF 21' AND 19.5' ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS RISE HEIGHTS.
4. VARIOUS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH 1/2" INS GLASS OR EQUIVALENT, OR BY THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STICK IS 34" OR AS TESTED
6. THE STIFF PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOW.
7. STIFFS SECURED AT ALL LOCATIONS WITH TIE SCREWS.
8. QUANTITY OF STIFF LINES CAN BE Q1, Q2 OR Q3 AS TESTED.
9. BROP BY TYPE OF INSULATION IS OPTIONAL.

**INSIDE ELEVATION**

16'-0" MAX WIDTH

ALL ROLLER CARRIERS AND HINGES ARE 14 GA.

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

SEC C-C
VERTICAL
TRACK, (16 GA)

TEST REPORTS ON FILE [VIDEO 10/19/00 0002933]

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

The seal on this drawing only illustrates the product(s) represented and does not represent the configuration(s) of the door as tested.



GAUCED DOORS
SERIES 7400, EXTERIOR STEEL, 2017 MIN CAS TESTED
SERIES 7800, EXTERIOR STEEL, 2017 MIN CAS TESTED
SERIES 7524, EXTERIOR STEEL, 2024 MIN CAS TESTED WITH VARIOUS



GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTICELLO, IL 60053



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

MAXIMUM DOOR WIDTH 16'

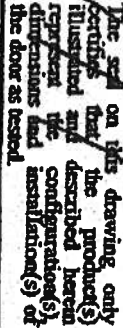
MAXIMUM DOOR HEIGHT 7'

TYPICAL CTR. STILE SPACING 23"

STIFFS 3"

VERTICAL TRACK 2 IN.

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





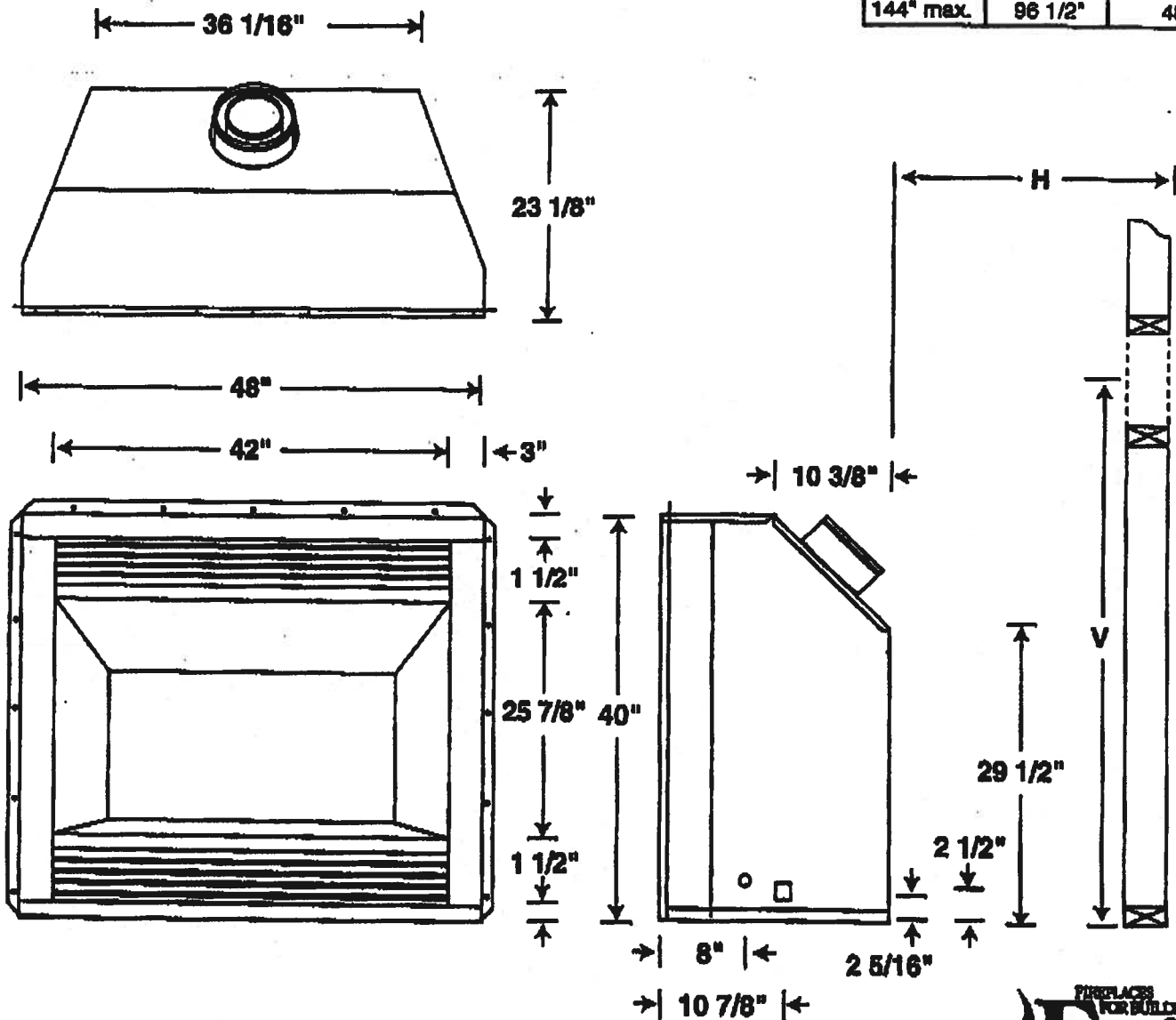
42" Direct Vent Fireplace (5" - 8" Vent Pipe)

Typ. Ground Floor Installation (1 - 45° Elbow)

Horiz. Run (H)	Min. Height (V)	Required Horiz. Pipe
17" max.	39"	12" max.

Installations requiring a 45° and 90° Elbow

Horiz. Run (H)	Min. Height (V)	Required Vert. Pipe
30" max.	50 1/2"	none
48" max.	60 1/2"	12"
60" max.	72 1/2"	24"
84" max.	84 1/2"	36"
144" max.	96 1/2"	48"



FIREPLACES
FOR BUILDERS

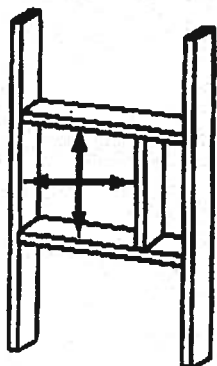


Victorian

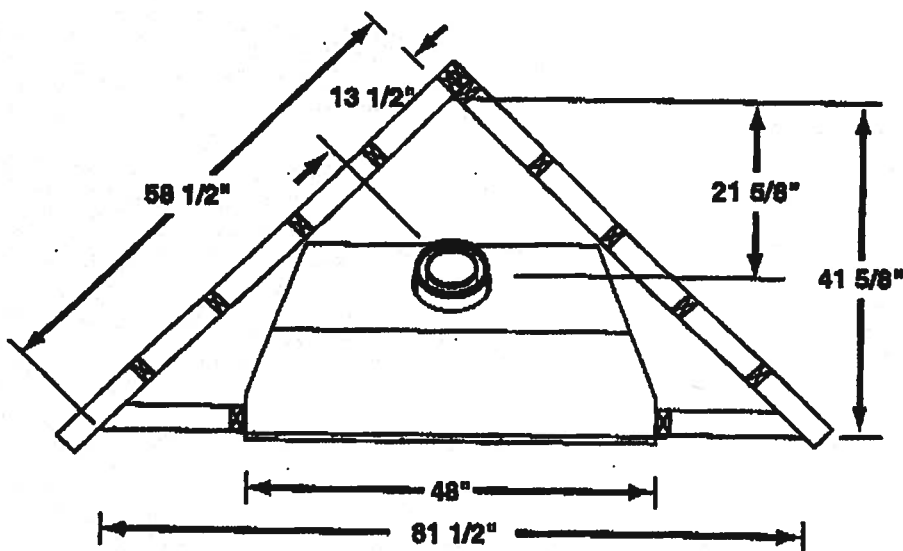
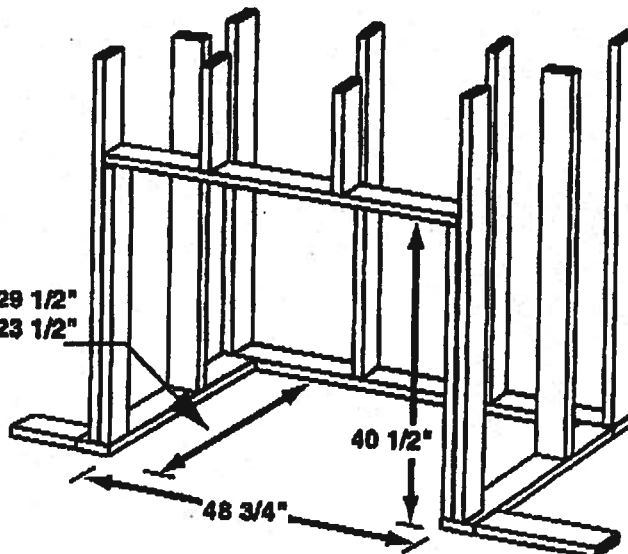
42" Direct Vent Fireplace

Framing Dimensions

Vent Opening - 10 3/4" Square (I.D.)



Vertical Termination - 29 1/2"
Horizontal Termination - 23 1/2"



NOTE:

Built-in Features Such as Mantels, Bookshelves, etc. Made of Combustible Materials Must Maintain Minimum Clearances from the Fireplace. See Installation Instructions for Complete Information

FIREPLACES
FOR BUILDERS
Fmi

Cobblestone Lot 11

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS ALL REQUIREMENTS ARE SUBJECT TO CHANGE EFFECTIVE MARCH 1, 2002

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

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

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

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☐	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u> a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☒	☐	<u>Wind-load Engineering Summary, calculations and any details required</u> a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☒	☐	<u>Elevations including:</u> a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation d) Location, size and height above roof of chimneys e) Location and size of skylights f) Building height g) Number of stories

- ☒ ☐
- ☒ ☐
- ☒ ☐
- ☐ ☐
- ☐ ☐
- ☒ ☐
- ☒ ☐
- ☒ ☐
- ☐ ☐
- ☒ ☐

Floor Plan including:

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

Foundation Plan including:

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

Roof System:

- a) Truss package including:
 - 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
 - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 - 1. Rafter size, species and spacing
 - 2. Attachment to wall and uplift
 - 3. Ridge beam sized and valley framing and support details
 - 4. Roof assembly (FBC 104.2.1 Roofing system, 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 (termiteicide or alternative method)
 - 10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
 - 11. Indicate where pressure treated wood will be placed
 - 12. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

- ☐ ☐
- ☐ ☐

☒ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
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 (termiteicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

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

☒ ☐ Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

☒ ☐ Plumbing Fixture layout

☒ ☐ Electrical layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment

☒ ☐ 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



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: **0605-08**
Contractor ISAAC Construction Owner Daniel Roth lot 11 Cobblestone unit 1

On the date of May 5, 2006 application 0605-08 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.

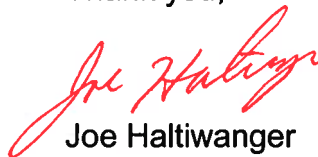
Please include application number 0605-08 when making reference to this application.

1. 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.

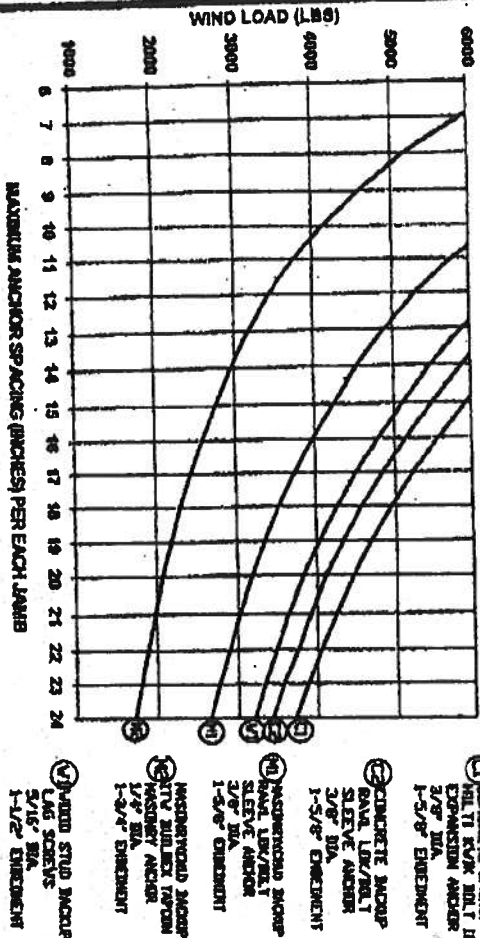
2. In the Master Bedroom Spa area please show compliance with the FRC-2004 sections R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

Thank you,



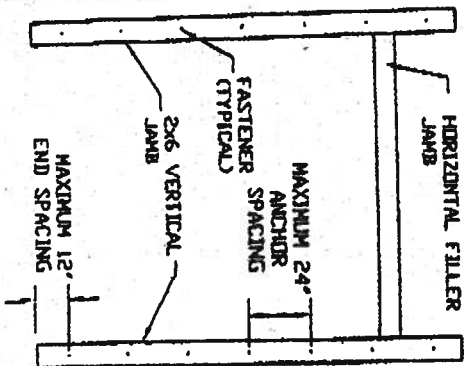
Joe Haltiwanger
Plan Examiner
Columbia County Building Department

WIND LOAD VS ANCHOR SPACING



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

EXAMPLE
 30 LBS X 0.6 FT WIDE X 8 FT HIGH = 3840 LBS
 FT²
 ① USE 22" SPACING
 ② USE 24" SPACING
 ③ USE 19" SPACING
 SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



PROFESSIONAL SEAL
 PE NO. 024280
 NORTH CAROLINA
 ENGINEER
 KERRY R. KEYSER
 3/8/2002

2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

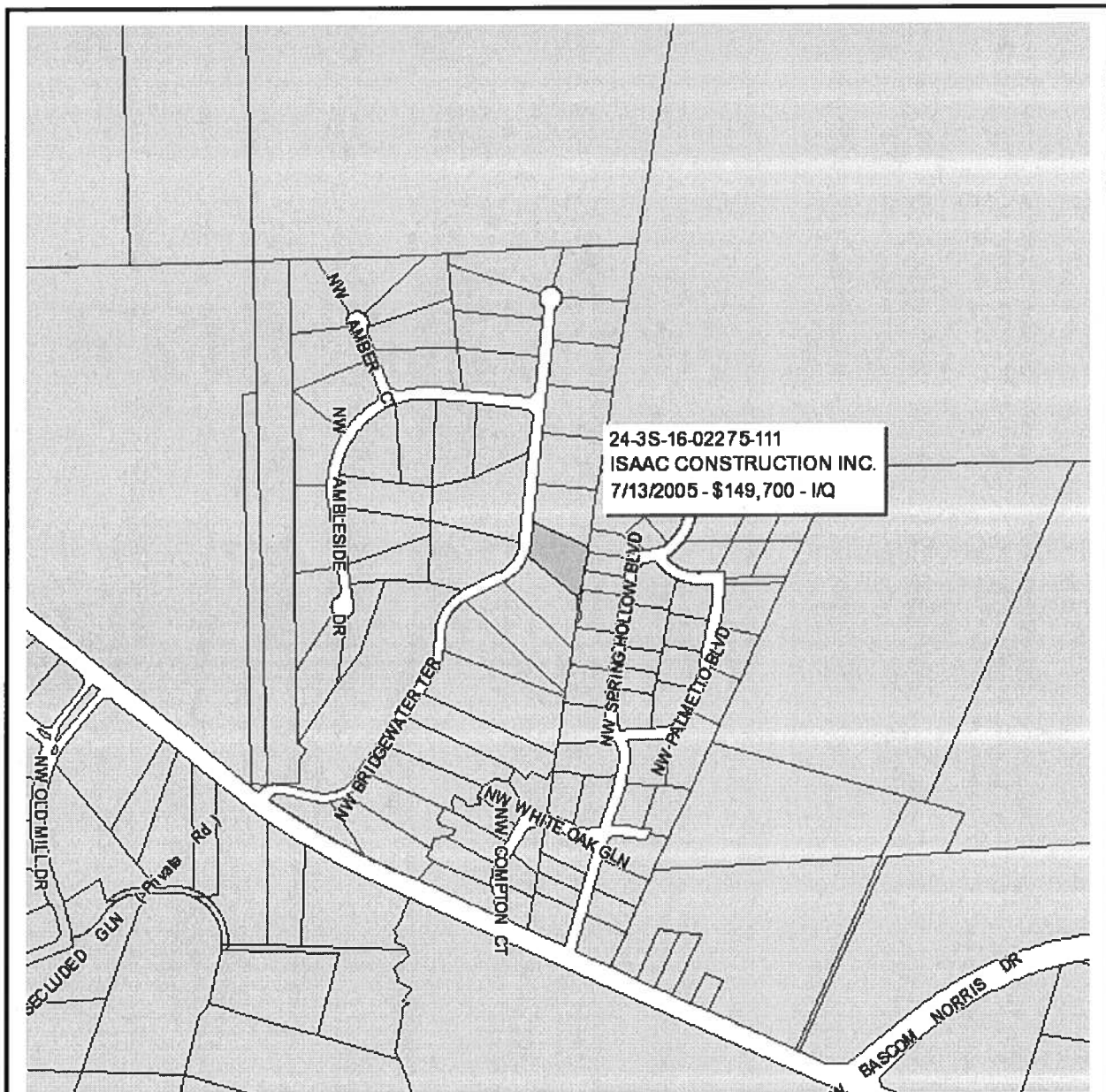
2X6 PRESSURE TREATED GRADE #2 OR BETTER SOUTHERN PINE WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO DISTORTIONS USING CENTER "HURRICANE" POSTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCI STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10, CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUSHINGS 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 (SP) GRADE OR BETTER WALL STUDS CONTINUOUS FROM FLOORING TO DOUBLE TOP PLATE.
- 5) REINFORCED CONCRETE 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, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GENERAL AMERICAN DOOR COMPANY
 5800 BASSETT ROAD
 HUNTERDON, IL 60538

DATE: 8-30-99
 DRAWN BY: JLV
 CHECKED BY: JLV
 FOR WIND LOADED GARAGE DOORS
 ATTACHED TO STRUCTURE



Columbia County Property Appraiser

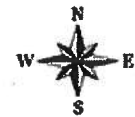
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 24-3S-16-02275-111 - VACANT (000000)

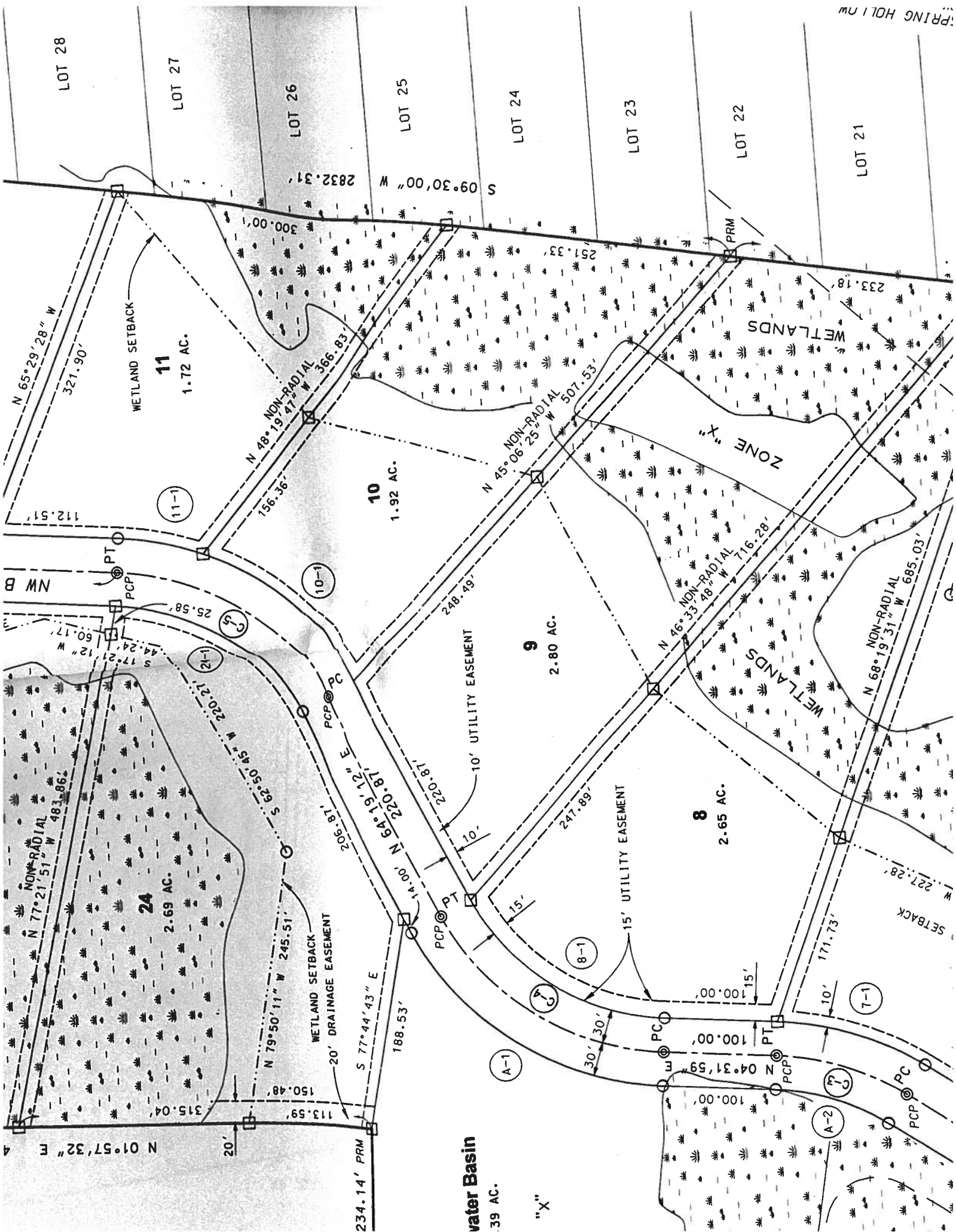
LOT 11 COBBLESTONE UNIT 1. WD 1052-384.

Name: ISAAC CONSTRUCTION INC.	LandVal	\$42,500.00
Site:	BldgVal	\$0.00
Mail: 1005 SW WALTER AVE.	ApprVal	\$42,500.00
LAKE CITY, FL 32024	JustVal	\$42,500.00
Sales Info: 7/13/2005 \$149,700.001 / Q	Assd	\$42,500.00
	Exmpt	\$0.00
	Taxable	\$42,500.00

0 0.06 0.12 0.18 mi



This information, GIS Map Updated: 4/6/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

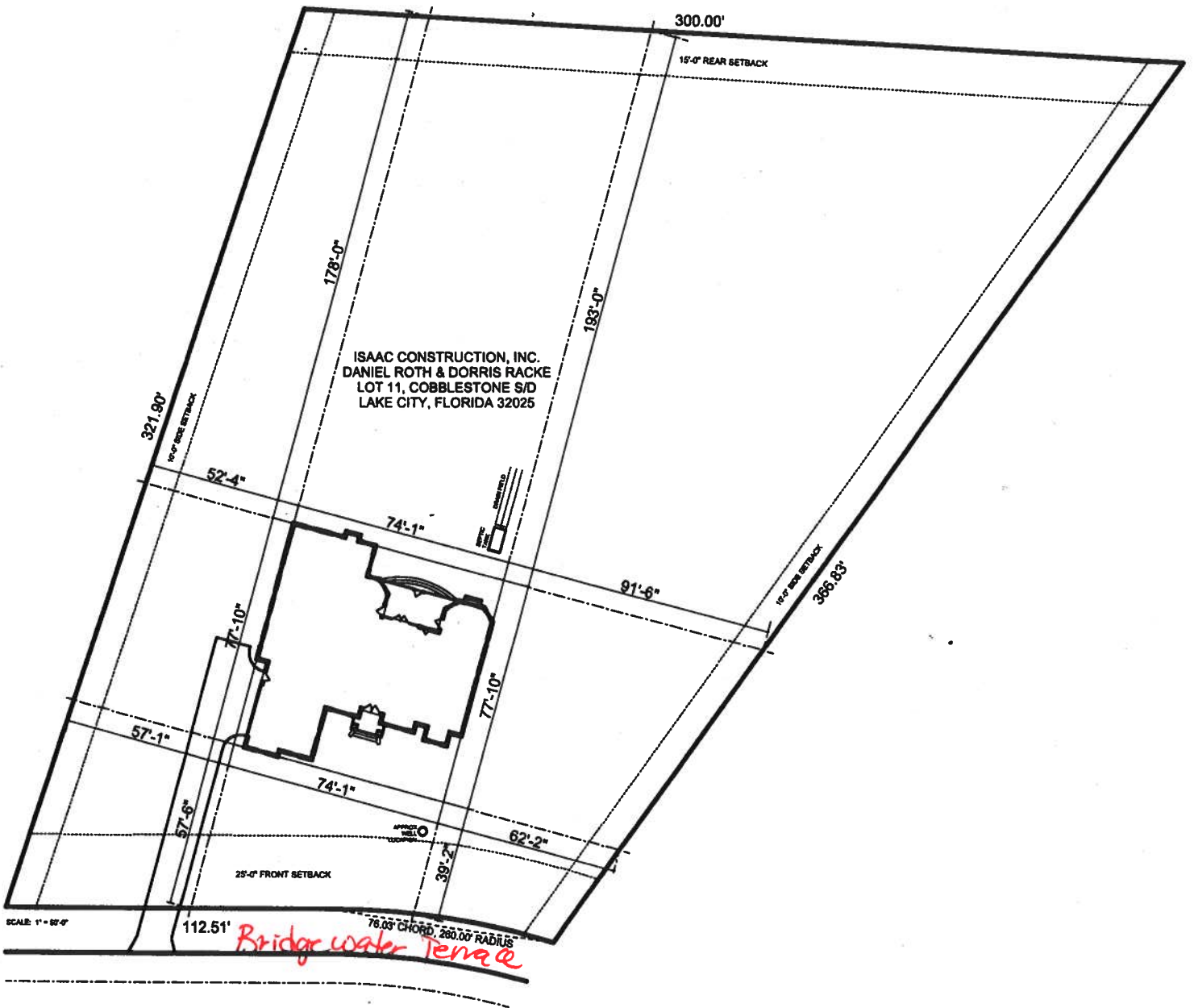


water Basin

39 AC.

"X"

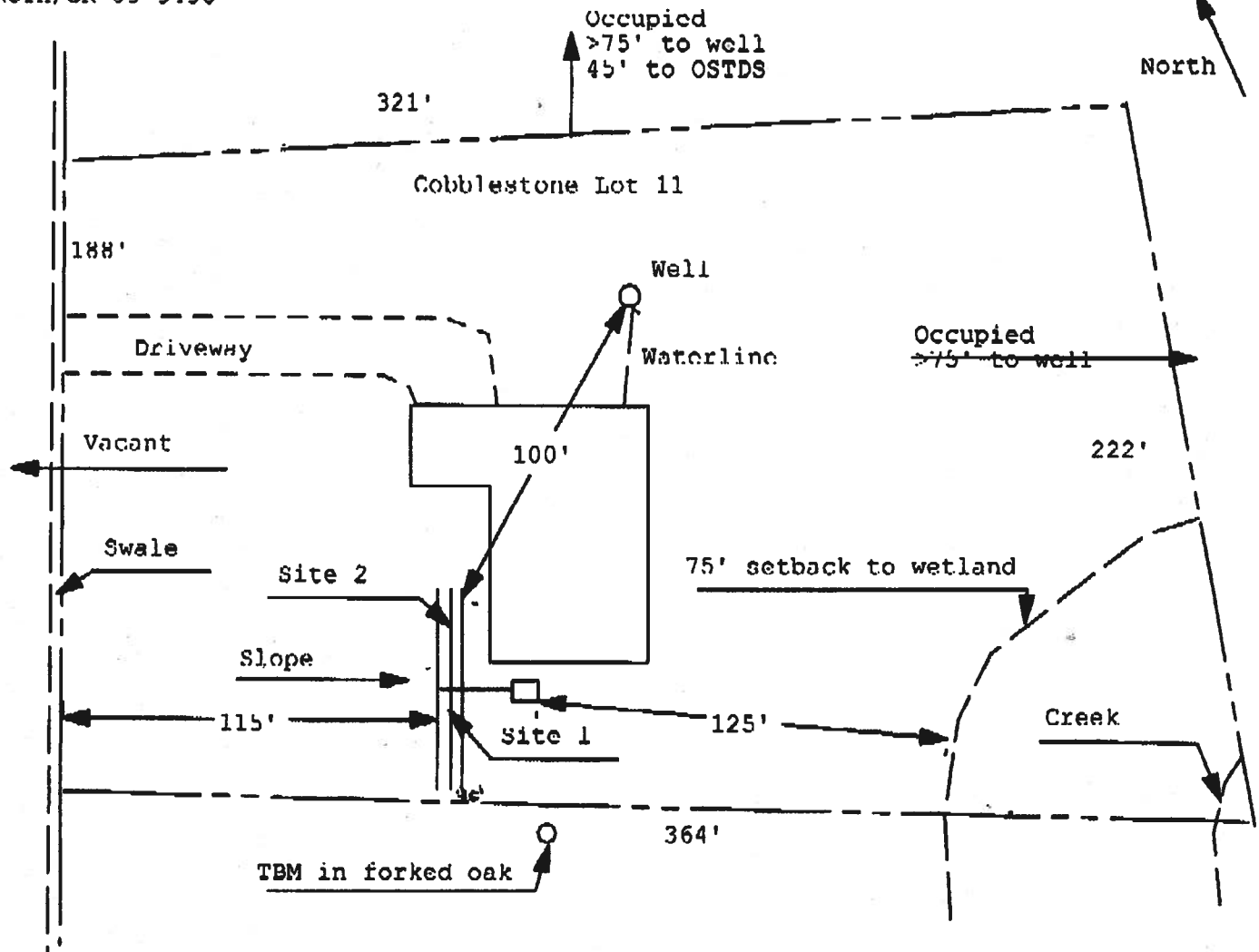
SPRING HOLLOW



**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0401N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

ROTH/CR 05-3456



1 inch = 50 feet.

Site Plan Submitted By Paul L. [Signature] Date 4/12/06
Plan Approved ☒ Not Approved ☐ Date 4/24/06

By Jim A. [Signature] Columbia CPHU

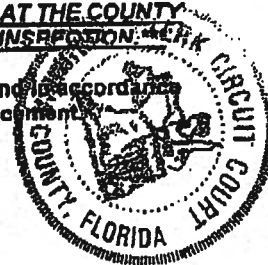
Notes: _____

**NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA**

***** THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION *****

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

Tax Parcel ID Number 24-3S-16-02275-111



1. Description of property: (legal description of the property and street address or 911 address)

Lot 11 Cobblestone Unit 1, WD 1052-384

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.
F. DEWITT CASON, CLERK OF COURTS

[Signature]
Deputy Clerk

2. General description of Improvement: Single Family Dwelling

04-21-2006

3. Owner Name & Address Daniel Roth 1032 Royal Birk Dale
Tarpon Springs, FL 34688 Interest In Property Home site

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

5. Contractor Name Isaac Construction Phone Number 386-719-7143
Address 2109 W US Hwy 90 Ste 170 PMB 338 Lake City, FL 32055

6. Surety Holders Name N/A Phone Number _____
Address _____

Amount of Bond N/A Inst: 2006009797 Date: 04/21/2006 Time: 15:38
S.D. DC, P. DeWitt Cason, Columbia County B: 1081 P: 947

7. Lender Name N/A
Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7: Florida Statutes:

Name N/A Phone Number _____
Address _____

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

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

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

[Signature]
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of April 21, 2006

NOTARY STAMP/SEAL

 **Barbara C. Webster**
Commission # DD329279
Expires July 2, 2008
Bonded Trust Plan - Insurance, Inc. 800-365-7019

[Signature]
Signature of Notary

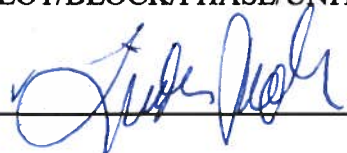
Columbia County Building Department Culvert Permit

Culvert Permit No.
000001072

DATE 05/10/2006 PARCEL ID # 24-3S-16-02275-111
APPLICANT LINDA RODER PHONE 752.2281
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024
OWNER DANIEL ROTH PHONE _____
ADDRESS 529 NW BRIDGEWATER TERRACE LAKE CITY FL 32055
CONTRACTOR ISAAC BRATKOVICH, ISAAC CONSTR. PHONE 719.7143
LOCATION OF PROPERTY 90-W TO LAKE JEFFERY ROAD, TR TO COBBLESTONE ENTRANCE TO BRIDGEWATER
, TR, IT'S THE 11TH LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COBBLESTONE 11 1

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





Phone (386) 755-3611

Fax (386) 752-5381

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.

(386) 755-3611

State License # - JB109476

State Certification # - JF104376

Roth-Racke, Lot 11 Cobblestone, Lake City, FL

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Duplan
Authorized Signature

4-6-06
Date

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	Isaac Construction Inc. - Roth - Racke	Builder:	Isaac Construction Inc.
Address:	Lot: 11, Sub: Cobblestone, Plat:	Permitting Office:	Columbia
City, State:	Lake City, FL 32025-	Permit Number:	24491
Owner:	Daniel Roth & Dorris Racke	Jurisdiction Number:	221060
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 86.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	3309 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 86.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 6.80
(or Single or Double DEFAULT) 7a(Sngle Default) 545.8 ft²		b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 545.8 ft²		14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 80.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 340.0(p) ft		EF: 0.90
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 2714.2 ft²	DHP-Dedicated heat pump)	
b. Frame, Wood, Exterior	R=13.0, 270.0 ft²	15. HVAC credits	PT,
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 3450.0 ft²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 60.0 ft		
b. N/A			

Glass/Floor Area: 0.16

Total as-built points: 45896

Total base points: 46016

PASS

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

PREPARED BY: Will MyersDATE: 3-29-06

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

OWNER/AGENT: Daniel RothDATE: 4-3-06

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: 11, Sub: Cobblestone, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang		Area X SPM X SOF = Points				
					Ornt	Len	Hgt				
.18	3309.0	20.04	11936.2	Single, Clear	W	1.5	10.0	54.0	43.84	0.98	2317.4
				Single, Clear	N	1.5	10.0	30.0	21.73	0.98	640.0
				Single, Clear	W	1.5	10.0	15.0	43.84	0.98	643.7
				Single, Clear	NW	1.5	10.0	24.0	29.42	0.98	693.3
				Single, Clear	N	10.0	10.0	15.0	21.73	0.71	231.7
				Single, Clear	N	13.0	10.0	20.0	21.73	0.67	291.8
				Single, Clear	W	13.0	10.0	80.0	43.84	0.47	1655.5
				Single, Clear	W	13.0	10.0	17.8	43.84	0.47	368.3
				Single, Clear	S	10.8	10.0	20.0	40.81	0.51	415.2
				Single, Clear	SW	3.5	10.0	21.0	45.75	0.79	757.9
				Single, Clear	NW	1.5	10.0	21.0	29.42	0.98	606.6
				Single, Clear	N	1.5	10.0	24.0	21.73	0.98	512.0
				Single, Clear	E	1.5	10.0	24.0	47.92	0.98	1125.1
				Single, Clear	E	1.5	10.0	72.0	47.92	0.98	3375.3
				Single, Clear	E	1.5	10.0	24.0	47.92	0.98	1125.1
				Single, Clear	E	8.0	10.0	40.0	47.92	0.57	1099.2
				Single, Clear	S	1.5	10.0	36.0	40.81	0.96	1410.6
				Single, Clear	S	1.5	10.0	8.0	40.81	0.96	313.5
				As-Built Total: 545.8 17582.2							
WALL TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior		13.0	2714.2	1.50	4071.3		
Exterior	2984.2	1.70	5073.1	Frame, Wood, Exterior		13.0	270.0	1.50	405.0		
Base Total: 2984.2 5073.1				As-Built Total:		2984.2		4476.3			
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	3309.0	1.73	5724.6	Under Attic		30.0	3450.0	1.73 X 1.00	5968.5		
Base Total: 3309.0 5724.6				As-Built Total:		3450.0 5968.5					

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

ADDRESS: Lot: 11, Sub: Cobblestone, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES	Area	X	BSPM = Points	Type	R-Value	Area	X SPM = Points
Slab	340.0(p)	-37.0	-12580.0	Slab-On-Grade Edge Insulation	0.0	340.0(p)	-41.20 -14008.0
Raised	0.0	0.00	0.0				
Base Total:			-12580.0	As-Built Total:		340.0	-14008.0
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
	3309.0	10.21	33784.9			3309.0	10.21 33784.9
Summer Base Points: 43970.8				Summer As-Built Points: 47835.9			
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
43970.8	0.4266		18758.0	(sys 1: Central Unit 86000 btuh, SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 47836	1.00	(1.09 x 1.000 x 1.00)	0.310 0.950 15369.1
				47835.9	1.00	1.090	0.310 0.950 15369.1

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

ADDRESS: Lot: 11, Sub: Cobblestone, 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	3309.0	12.74	7588.2	Single, Clear	W	1.5	10.0	54.0	28.84	1.01	1566.3
				Single, Clear	N	1.5	10.0	30.0	33.22	1.00	996.8
				Single, Clear	W	1.5	10.0	15.0	28.84	1.01	435.1
				Single, Clear	NW	1.5	10.0	24.0	32.93	1.00	790.0
				Single, Clear	N	10.0	10.0	15.0	33.22	1.02	507.4
				Single, Clear	N	13.0	10.0	20.0	33.22	1.02	678.6
				Single, Clear	W	13.0	10.0	80.0	28.84	1.19	2753.4
				Single, Clear	W	13.0	10.0	17.8	28.84	1.19	612.6
				Single, Clear	S	10.8	10.0	20.0	20.24	2.87	1160.7
				Single, Clear	SW	3.5	10.0	21.0	24.09	1.12	568.8
				Single, Clear	NW	1.5	10.0	21.0	32.93	1.00	691.2
				Single, Clear	N	1.5	10.0	24.0	33.22	1.00	797.4
				Single, Clear	E	1.5	10.0	24.0	26.41	1.01	641.9
				Single, Clear	E	1.5	10.0	72.0	26.41	1.01	1925.6
				Single, Clear	E	1.5	10.0	24.0	26.41	1.01	641.9
				Single, Clear	E	8.0	10.0	40.0	26.41	1.23	1297.6
				Single, Clear	S	1.5	10.0	36.0	20.24	1.01	737.8
				Single, Clear	S	1.5	10.0	8.0	20.24	1.01	164.0
				As-Built Total:				545.8	16967.0		
WALL TYPES				Type		R-Value		Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior		13.0		2714.2	3.40	9228.3	
Exterior	2984.2	3.70	11041.5	Frame, Wood, Exterior		13.0		270.0	3.40	918.0	
Base Total:				As-Built Total:				2984.2	10146.3		
DOOR TYPES				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:				As-Built Total:				20.0	160.0		
CEILING TYPES				Type		R-Value		Area X WPM X WCM = Points			
Under Attic	3309.0	2.05	6783.4	Under Attic		30.0		3450.0	2.05 X 1.00	7072.5	
Base Total:				As-Built Total:				3450.0	7072.5		

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

ADDRESS: Lot: 11, Sub: Cobblestone, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points			
Slab	340.0(p)	8.9	3026.0	Slab-On-Grade Edge Insulation	0.0	340.0(p)	18.80	6392.0	
Raised	0.0	0.00	0.0						
Base Total:			3026.0	As-Built Total:		340.0	6392.0		
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
			3309.0	-0.59	-1952.3				
						3309.0	-0.59	-1952.3	
Winter Base Points:			26646.9	Winter As-Built Points:			38785.5		
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	
26646.9		0.6274	16718.3	(sys 1: Electric Heat Pump 86000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
				38785.5	1.000	(1.069 x 1.000 x 1.00)	0.501	0.950	19752.2
				38785.5	1.00	1.069	0.501	0.950	19752.2

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 11, Sub: Cobblestone, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit Multiplier	= Total
4		2635.00	10540.0	80.0	0.90	4	1.00	2693.56	10774.2
				As-Built Total:					10774.2

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	+ Hot Water Points = Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
18758		16718	10540 46016	15369		19752	10774 45896

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 11, Sub: Cobblestone, 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 air 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* = 83.3

The higher the score, the more efficient the home.

Daniel Roth & Dorris Racke, Lot: 11, Sub: Cobblestone, 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: 86.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	3309 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: 86.0 kBtu/hr
(or Single or Double DEFAULT)	7a(Sngle Default) 545.8 ft ²		HSPF: 6.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 545.8 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 340.0(p) ft	a. Electric Resistance	Cap: 80.0 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, 2714.2 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Exterior	R=13.0, 270.0 ft ²	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, 3450.0 ft ²	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			

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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCPB v4.1)

Energy Code Compliance

Duct System Performance Report

Project Name: Isaac Construction Inc. - Roth - Racke Address: City, State: Lake City, FL 32025- Owner: Daniel Roth & Dorris Racke Climate Zone: North	Builder: Isaac Construction Inc. 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 :

, FAX 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) 752-1234
FAX (804) 755-7022
~~XXXXXXXXXXXX~~
LAKE CITY, FLORIDA 32056
904 NW Main Blvd.

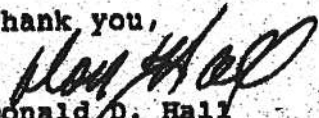
June 12, 2002

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.

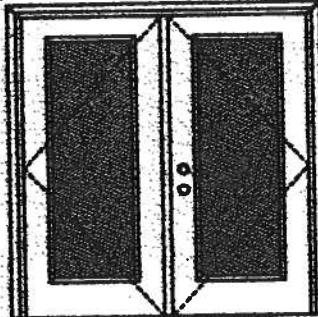
If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

XX**Glazed Outswing Unit**

CSP-WL-J044102-02

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

Double Door
Maximum 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 resistant requirements for a specific building design and geographic location is determined by ASCE 7-sections, 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 6'8".

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:**

120 Series



120, 125 Series



125 Series



680 Series



822 Series

1/2 GLASS:

105 Series*



105, 100 Series*



120 Series*



200 Series*



12 RL, 23 RL, 24 RL Series*



107 Series*



105 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

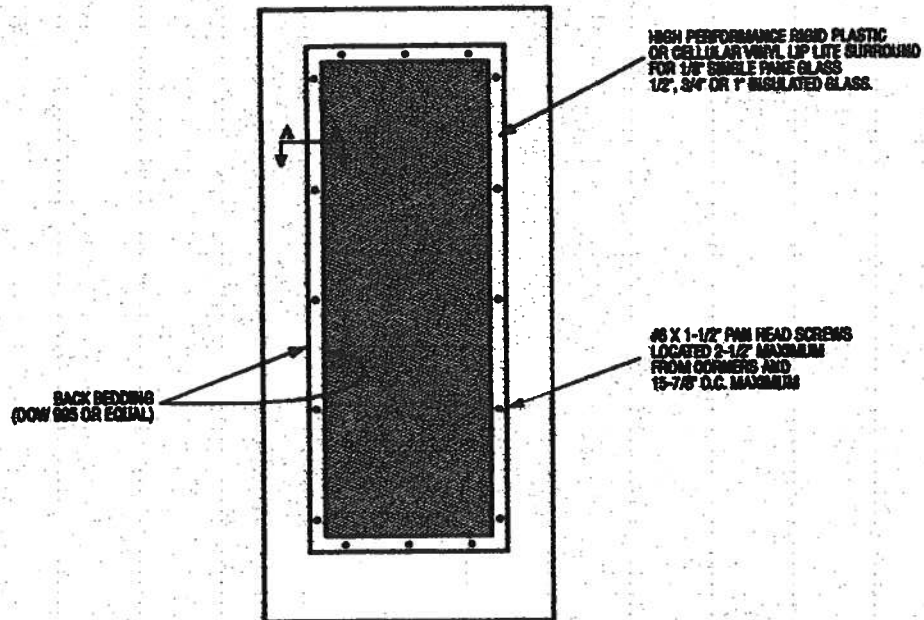
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



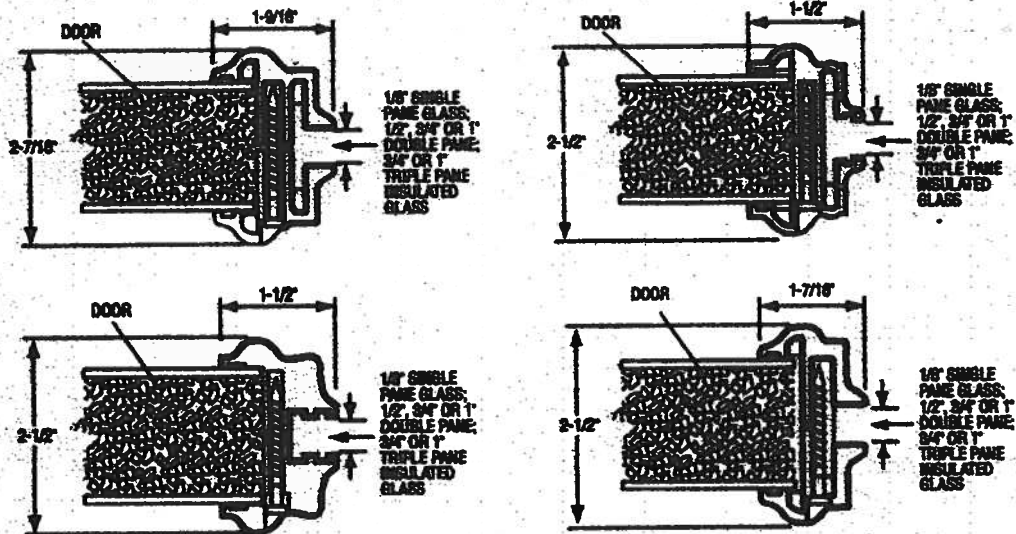
Exclusively from

Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX

Glazed Outswing Unit

CCP-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, 122
Series

182 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 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 and 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 29, 2002
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Exclusively from

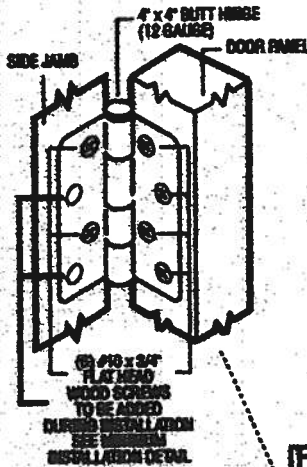
Masonite
Masonite International Corporation

XX
Unit

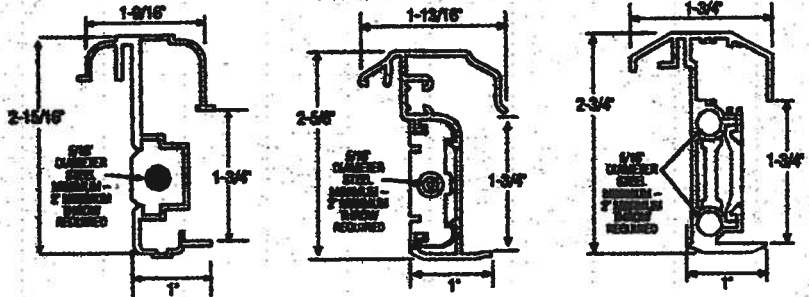
MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

TYPICAL HINGE ATTACHMENT



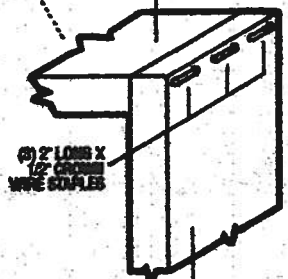
TYPICAL ASTRAGAL PROFILES



ALUMINUM EXTRUDED ASTRAGAL (0.06" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS - LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.

TYPICAL HEADER & SIDE JAMB ATTACHMENT

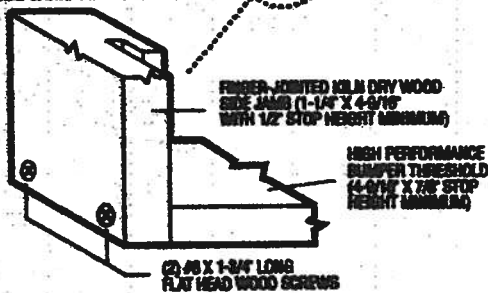
FINGER-JOINTED KILN DRY WOOD
FRAME HEADER (1-1/4" X 4-5/16"
WITH 1/2" STOP HEIGHT MINIMUM)



FINGER-JOINTED
KILN DRY WOOD
SIDE JAMB
(1-1/4" X 4-5/16"
WITH 1/2" STOP
HEIGHT MINIMUM)

(2) FOR 7'0" HEIGHT
OR SMALLER
(4) FOR HEIGHTS
GREATER THAN 7'0"

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



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

PREMIER
Premium Quality Doors



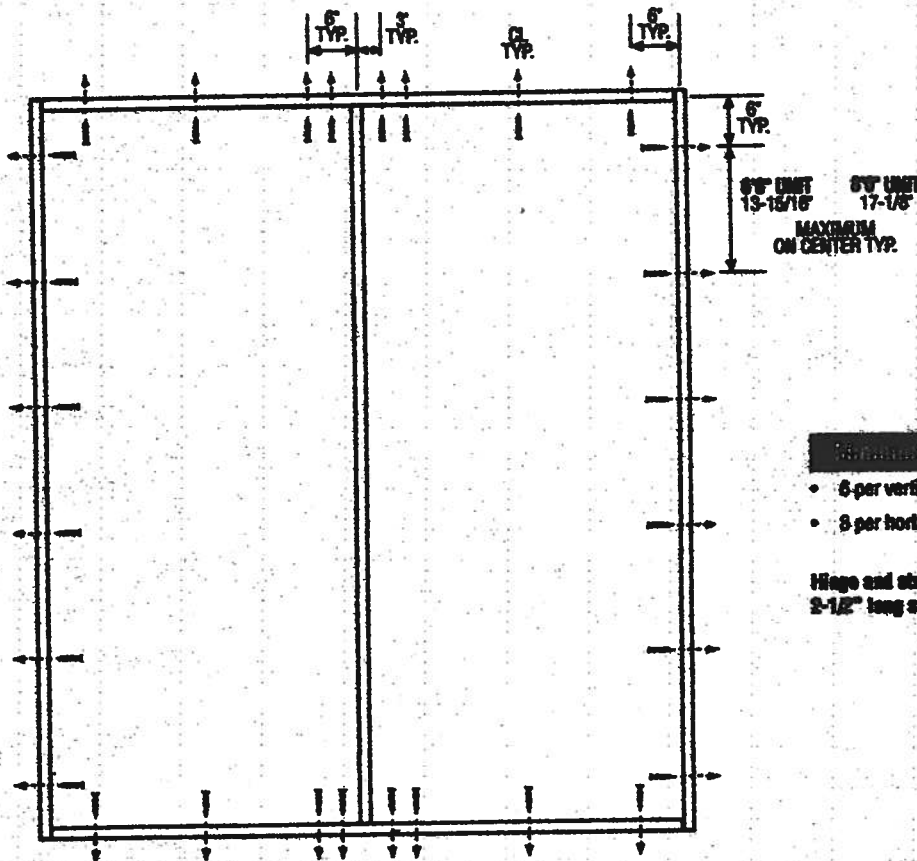
Exclusively from

Masonite
Masonite International Corporation

XX
Unit

IND-WL-MAC002-02

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 #6 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 entitles qualifications, design and product detail subject to change without notice.



Exclusively from

Masonite
Masonite International Corporation

I

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

Rendered to:

MI HOME PRODUCTS, INC.

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

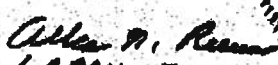
Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

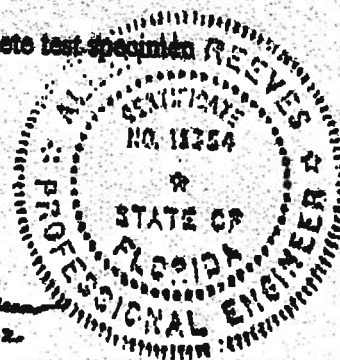
Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Mark A. Hess, Technician

MAH:nb


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

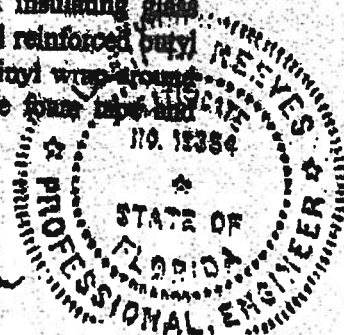
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 3/8" 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 N. 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 truck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

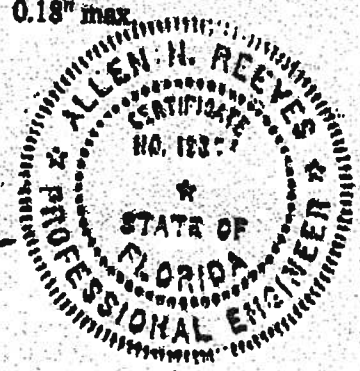
Note #1: The tested specimen meets the performance levels specified in AAMA/NWDA 101/U.S. 2-97 for air infiltration.

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 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.
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Allen H. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

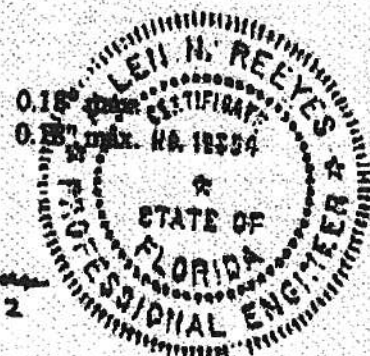
<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	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. Hess
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.

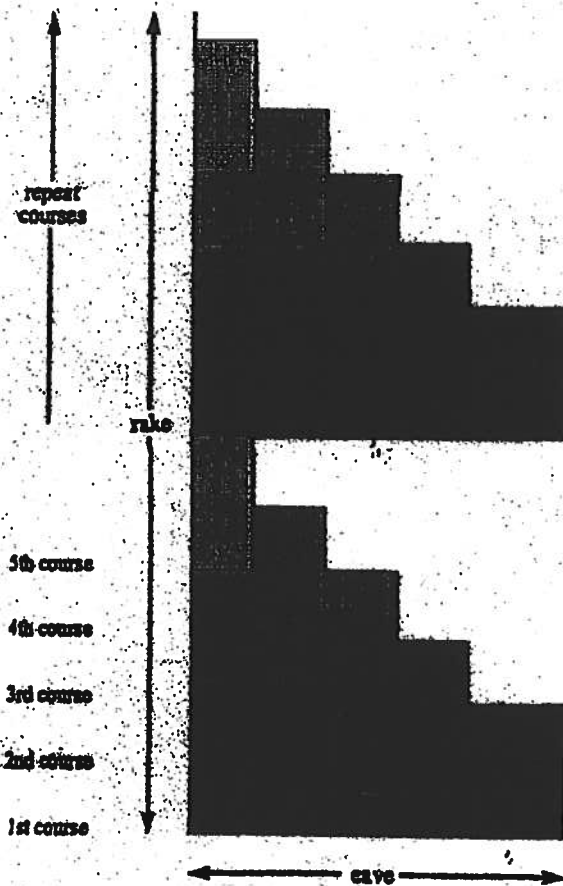
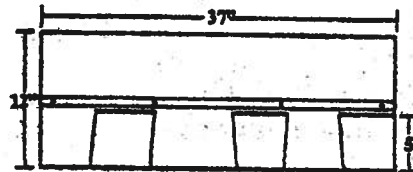
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

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.



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

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

1. ROOF DECK

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

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

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

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

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.

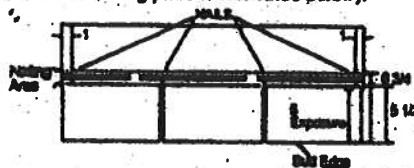
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

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.

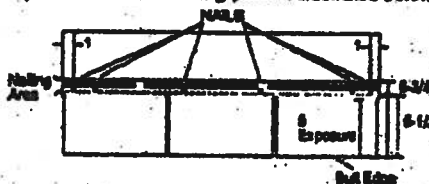
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or 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 5-1/2" 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)

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Southeast District	2300 36th St., Tuscaloosa, AL 35401	800-228-2888
Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1834
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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.

6. 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 refasten in a new location. Remove all drip edge metal and replace with new.

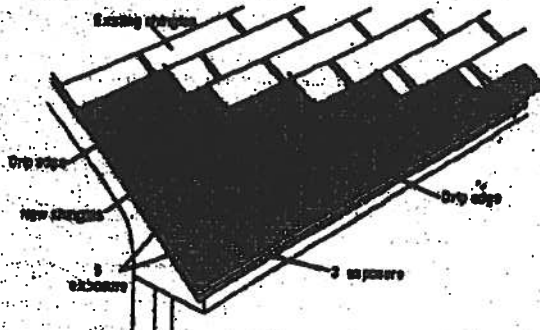
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing 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 the 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 Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake 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 shingle 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.

8. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 60 lb. roll roofing in the valley. Nail the fast 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)

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07/01



(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.

10. 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.

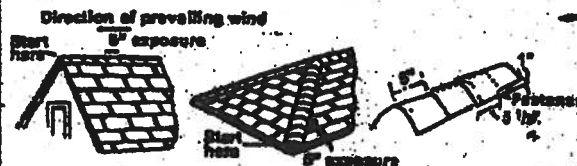
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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 SENDING 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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07/01

Residential System Sizing Calculation

Isaac Construction
Daniel Roth & Dorris Racke

Summary

Project Title:
Isaac Construction Inc. - Roth - Racke

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

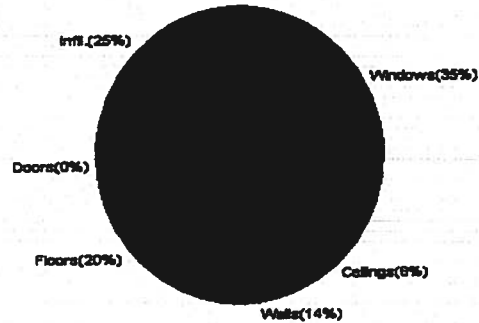
3/29/2006

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	72488 Btuh	Total cooling load calculation	73611 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.6 86000	Sensible (SHR = 0.75)	111.4 64500
Heat Pump + Auxiliary(0.0kW)	118.6 86000	Latent	136.9 21500
		Total (Electric Heat Pump)	116.8 86000

WINTER CALCULATIONS

Winter Heating Load (for 3309 sqft)

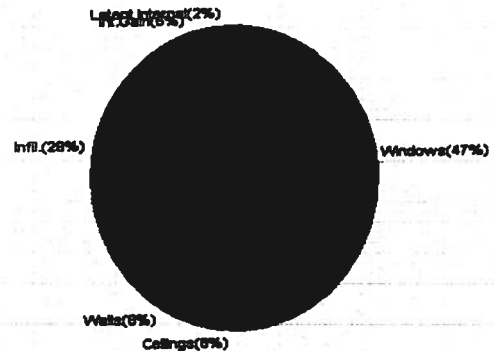
Load component		Load	
Window total	546 sqft	25647	Btuh
Wall total	2984 sqft	9800	Btuh
Door total	20 sqft	259	Btuh
Ceiling total	3450 sqft	4065	Btuh
Floor total	340 sqft	14844	Btuh
Infiltration	441 cfm	17871	Btuh
Duct loss		0	Btuh
Subtotal		72488	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		72488	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 3309 sqft)

Load component		Load	
Window total	546 sqft	34344	Btuh
Wall total	2984 sqft	6225	Btuh
Door total	20 sqft	196	Btuh
Ceiling total	3450 sqft	5713	Btuh
Floor total		0	Btuh
Infiltration	386 cfm	7185	Btuh
Internal gain		4240	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		57903	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(Infiltration)		14108	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
Total latent gain		15708	Btuh
TOTAL HEAT GAIN		73611	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Will Myers

DATE: 3-29-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Daniel Roth & Dorris Racke

Project Title:

Isaac Construction Inc. - Roth - Racke

Code Only

Professional Version

Climate: North

Lake City, FL 32025-

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

3/29/2006

Zone Envelope Subtotal:					
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	54.0	47.0	2537 Btuh
2	1, Clear, Metal, 1.27	N	30.0	47.0	1410 Btuh
3	1, Clear, Metal, 1.27	W	15.0	47.0	705 Btuh
4	1, Clear, Metal, 1.27	NW	24.0	47.0	1128 Btuh
5	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
6	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
7	1, Clear, Metal, 1.27	W	80.0	47.0	3759 Btuh
8	1, Clear, Metal, 1.27	W	17.8	47.0	836 Btuh
9	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
10	1, Clear, Metal, 1.27	SW	21.0	47.0	987 Btuh
11	1, Clear, Metal, 1.27	NW	21.0	47.0	987 Btuh
12	1, Clear, Metal, 1.27	N	24.0	47.0	1128 Btuh
13	1, Clear, Metal, 1.27	E	24.0	47.0	1128 Btuh
14	1, Clear, Metal, 1.27	E	72.0	47.0	3383 Btuh
15	1, Clear, Metal, 1.27	E	24.0	47.0	1128 Btuh
16	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
17	1, Clear, Metal, 1.27	S	36.0	47.0	1692 Btuh
18	1, Clear, Metal, 1.27	S	8.0	47.0	376 Btuh
Window Total			546(sqft)		25647 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2714	3.3	8914 Btuh
2	Frame - Wood - Ext(0.09)	13.0	270	3.3	887 Btuh
Wall Total			2984		9800 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	3450	1.2	4065 Btuh
Ceiling Total			3450		4065Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	340.0 ft(p)	43.7	14844 Btuh
Floor Total			340		14844 Btuh
Zone Envelope Subtotal:					54616 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	33090	441.2	17871 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				72488 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Daniel Roth & Dorris Racke

Project Title:

Isaac Construction Inc. - Roth - Racke

Code Only

Professional Version

Climate: North

Lake City, FL 32025-

3/29/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	72488 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	72488 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

Daniel Roth & Dorris Racke

Project Title:

Isaac Construction Inc. - Roth - Racke

Code Only

Professional Version

Climate: North

Lake City, FL 32025-

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

3/29/2006

Component Load for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	54.0	47.0	2537 Btuh
2	1, Clear, Metal, 1.27	N	30.0	47.0	1410 Btuh
3	1, Clear, Metal, 1.27	W	15.0	47.0	705 Btuh
4	1, Clear, Metal, 1.27	NW	24.0	47.0	1128 Btuh
5	1, Clear, Metal, 1.27	N	15.0	47.0	705 Btuh
6	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
7	1, Clear, Metal, 1.27	W	80.0	47.0	3759 Btuh
8	1, Clear, Metal, 1.27	W	17.8	47.0	836 Btuh
9	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
10	1, Clear, Metal, 1.27	SW	21.0	47.0	987 Btuh
11	1, Clear, Metal, 1.27	NW	21.0	47.0	987 Btuh
12	1, Clear, Metal, 1.27	N	24.0	47.0	1128 Btuh
13	1, Clear, Metal, 1.27	E	24.0	47.0	1128 Btuh
14	1, Clear, Metal, 1.27	E	72.0	47.0	3383 Btuh
15	1, Clear, Metal, 1.27	E	24.0	47.0	1128 Btuh
16	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
17	1, Clear, Metal, 1.27	S	36.0	47.0	1692 Btuh
18	1, Clear, Metal, 1.27	S	8.0	47.0	376 Btuh
Window Total			546(sqft)		25647 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2714	3.3	8914 Btuh
2	Frame - Wood - Ext(0.09)	13.0	270	3.3	887 Btuh
Wall Total			2984		9800 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	3450	1.2	4065 Btuh
Ceiling Total			3450		4065 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	340.0 ft(p)	43.7	14844 Btuh
Floor Total			340		14844 Btuh
Zone Envelope Subtotal:					54616 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	33090	441.2	17871 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				72488 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Daniel Roth & Dorris Racke

Project Title:

Isaac Construction Inc. - Roth - Racke

Code Only

Professional Version

Climate: North

Lake City, FL 32025-

3/29/2006

HOUSE TOTALS

	Subtotal Sensible	72488 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	72488 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

Daniel Roth & Dorris Racke

Project Title:
Isaac Construction Inc. - Roth - Racke

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

3/29/2006



Type*			Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	54.0	0.0	54.0	37	94	5078 Btuh
2	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	30.0	0.0	30.0	37	37	1124 Btuh
3	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	15.0	0.0	15.0	37	94	1411 Btuh
4	1, Clear, 1.27, None,N,N	NW	1.5ft	10ft.	24.0	0.0	24.0	37	72	1734 Btuh
5	1, Clear, 1.27, None,N,N	N	10ft.	10ft.	15.0	0.0	15.0	37	37	562 Btuh
6	1, Clear, 1.27, None,N,N	N	13ft.	10ft.	20.0	0.0	20.0	37	37	749 Btuh
7	1, Clear, 1.27, None,N,N	W	13ft.	10ft.	80.0	80.0	0.0	37	94	2996 Btuh
8	1, Clear, 1.27, None,N,N	W	13ft.	10ft.	17.8	17.8	0.0	37	94	667 Btuh
9	1, Clear, 1.27, None,N,N	S	10.8	10ft.	20.0	20.0	0.0	37	43	749 Btuh
10	1, Clear, 1.27, None,N,N	SW	3.5ft	10ft.	21.0	8.7	12.3	37	75	1250 Btuh
11	1, Clear, 1.27, None,N,N	NW	1.5ft	10ft.	21.0	0.0	21.0	37	72	1517 Btuh
12	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	24.0	0.0	24.0	37	37	899 Btuh
13	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	24.0	0.0	24.0	37	94	2257 Btuh
14	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	72.0	0.0	72.0	37	94	6771 Btuh
15	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	24.0	0.0	24.0	37	94	2257 Btuh
16	1, Clear, 1.27, None,N,N	E	8ft.	10ft.	40.0	19.8	20.2	37	94	2639 Btuh
17	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	36.0	33.1	2.9	37	43	1364 Btuh
18	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	8.0	4.1	3.9	37	43	320 Btuh
Window Total					546 (sqft)					34344 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			2714.2		2.1		5661 Btuh	
2	Frame - Wood - Ext	13.0/0.09			270.0		2.1		563 Btuh	
Wall Total					2984 (sqft)				6225 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			3450.0		1.7		5713 Btuh	
Ceiling Total					3450 (sqft)				5713 Btuh	
Floors	Type	R-Value			Size		HTM		Load	
1	Slab On Grade	0.0			340 (ft(p))		0.0		0 Btuh	
Floor Total					340.0 (sqft)				0 Btuh	
Zone Envelope Subtotal:									46478 Btuh	
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load	
	SensibleNatural	0.70			33090		386.0		7185 Btuh	
Internal gain		Occupants			Btuh/occupant		Appliance		Load	
		8			X 230 +		2400		4240 Btuh	
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
Sensible Zone Load									57903 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Daniel Roth & Dorris Racke

Project Title:

Isaac Construction Inc. - Roth - Racke

Code Only

Professional Version

Climate: North

Lake City, FL 32025-

3/29/2006

Whole House Totals

Whole House Totals for Cooling	Sensible Envelope Load All Zones	57903 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	57903 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	57903 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	14108 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	15708 Btuh
	TOTAL GAIN	73611 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

Daniel Roth & Dorris Racke

Project Title:

Isaac Construction Inc. - Roth - Racke

Code Only

Professional Version

Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

3/29/2006

Window	Type*	Ornt	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.	54.0	0.0	54.0	37	94	5078	Btuh
2	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	30.0	0.0	30.0	37	37	1124	Btuh
3	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	15.0	0.0	15.0	37	94	1411	Btuh
4	1, Clear, 1.27, None,N,N	NW	1.5ft	10ft.	24.0	0.0	24.0	37	72	1734	Btuh
5	1, Clear, 1.27, None,N,N	N	10ft.	10ft.	15.0	0.0	15.0	37	37	562	Btuh
6	1, Clear, 1.27, None,N,N	N	13ft.	10ft.	20.0	0.0	20.0	37	37	749	Btuh
7	1, Clear, 1.27, None,N,N	W	13ft.	10ft.	80.0	80.0	0.0	37	94	2996	Btuh
8	1, Clear, 1.27, None,N,N	W	13ft.	10ft.	17.8	17.8	0.0	37	94	667	Btuh
9	1, Clear, 1.27, None,N,N	S	10.8	10ft.	20.0	20.0	0.0	37	43	749	Btuh
10	1, Clear, 1.27, None,N,N	SW	3.5ft	10ft.	21.0	8.7	12.3	37	75	1250	Btuh
11	1, Clear, 1.27, None,N,N	NW	1.5ft	10ft.	21.0	0.0	21.0	37	72	1517	Btuh
12	1, Clear, 1.27, None,N,N	N	1.5ft	10ft.	24.0	0.0	24.0	37	37	899	Btuh
13	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	24.0	0.0	24.0	37	94	2257	Btuh
14	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	72.0	0.0	72.0	37	94	6771	Btuh
15	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	24.0	0.0	24.0	37	94	2257	Btuh
16	1, Clear, 1.27, None,N,N	E	8ft.	10ft.	40.0	19.8	20.2	37	94	2639	Btuh
17	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	36.0	33.1	2.9	37	43	1364	Btuh
18	1, Clear, 1.27, None,N,N	S	1.5ft	10ft.	8.0	4.1	3.9	37	43	320	Btuh
Window Total					546 (sqft)					34344 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		2714.2		2.1		5681 Btuh			
2	Frame - Wood - Ext	13.0/0.09		270.0		2.1		563 Btuh			
Wall Total				2984 (sqft)				6225 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		3450.0		1.7		5713 Btuh			
Ceiling Total				3450 (sqft)				5713 Btuh			
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		340 (ft(p))		0.0		0 Btuh			
Floor Total				340.0 (sqft)				0 Btuh			
Zone Envelope Subtotal:										46478 Btuh	
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.70		33090		386.0		7185 Btuh			
Internal gain		Occupants		Btuh/occupant		Appliance		Load			
		8		X 230 +		2400		4240 Btuh			
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										57903 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Daniel Roth & Dorris Racke
Lake City, FL 32025-

Project Title:
Isaac Construction Inc. - Roth - Racke

Code Only
Professional Version
Climate: North

3/29/2006

Whole House Totals

Whole House Totals for Cooling	Sensible Envelope Load All Zones	57903 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	57903 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	57903 Btuh
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*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

Daniel Roth & Dorris Racke

Lake City, FL 32025-

Project Title:
Isaac Construction Inc. - Roth - Racke

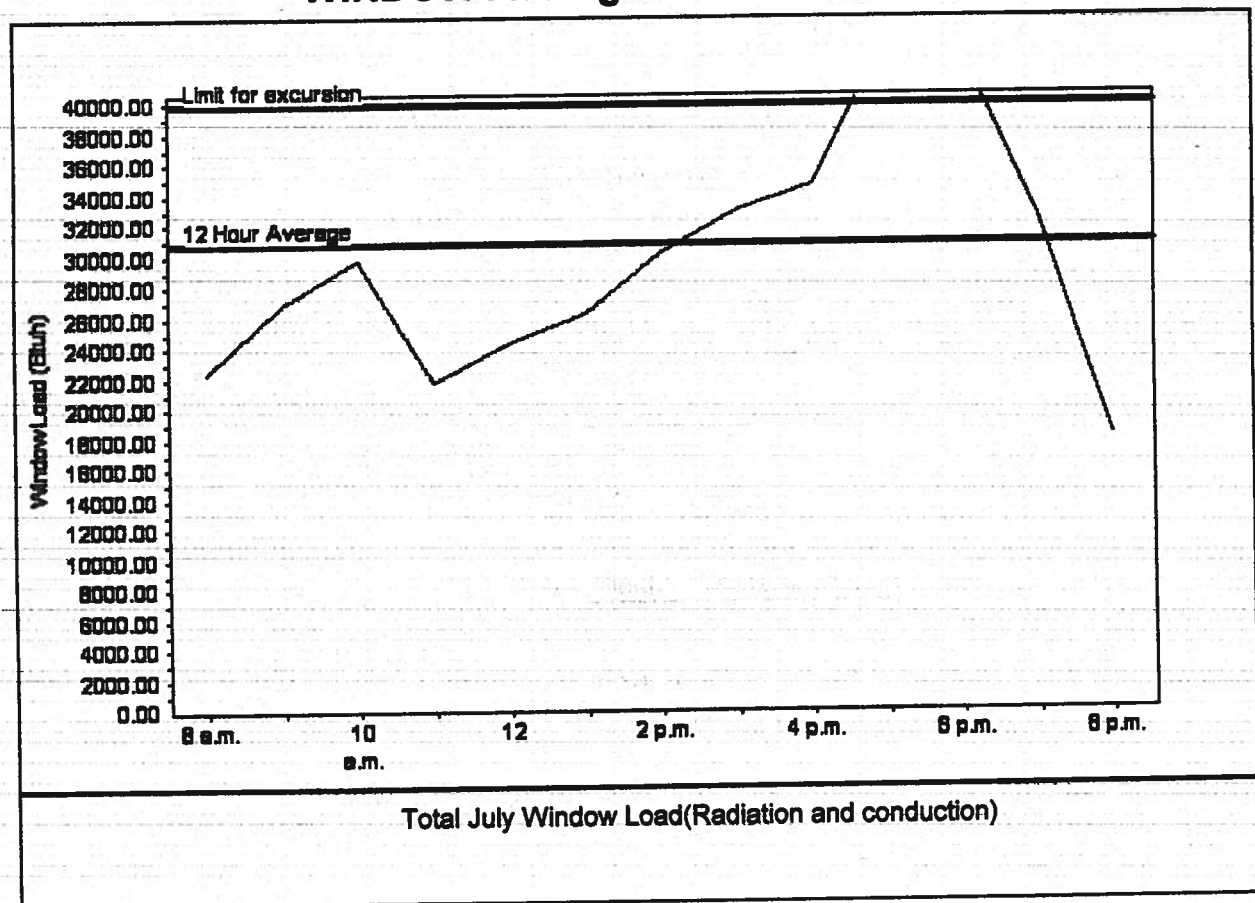
Code Only
Professional Version
Climate: North

3/29/2006



Summer design temperature	92 F	Average window load for July	30759 Btu
Summer setpoint	75 F	Peak window load for July	44405 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	39986 Btu
Latitude	29 North	Window excursion (July)	4418 Btu

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

EnergyGauge® FLRCPB v4.1



PREPARED BY AND RETURN TO:
TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Property Appraiser's
Parcel Identification No.: R-02275-111

File No: 06-220

WARRANTY DEED

THIS INDENTURE, made this 18th day of April, 2006 between
ISAAC HOLDINGS, INC., a Florida Corporation, f/k/a Isaac
Construction, Inc., a corporation existing under the laws of the
State of Florida, whose post office address is 144 SW Waterford
Court, Suite 101, Lake City, FL 32025 and having its principal
place of business in the County of Columbia, State of Florida,
party of the first part, and DANIEL ROTH, whose post office
address is 1032 Royal Birkdale Drive, Tarpon Springs, FL 34688,
party of the second part,

WITNESSETH: that the said party of the first part, for and
in consideration of the sum of Ten Dollars (\$10.00), to it in
hand paid, the receipt whereof is hereby acknowledged, has
granted, bargained, sold, aliened, remised, released, conveyed
and confirmed, and by these presents doth grant, bargain, sell,
alien, remise, release, convey and confirm unto the said party of
the second part, and its heirs and assigns forever, all that
certain parcel of land lying and being in the County of Columbia
and State of Florida, more particularly described as follows:

Lot 11, Cobblestone, Unit 1, a subdivision according to the
plat thereof as recorded in Plat Book 8, Pages 3-6, public
records, Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding
mineral rights of record, if any, and taxes for the
current year.

TOGETHER with all the tenements, hereditaments and
appurtenances, with every privilege, right, title, interest and
estate, reversion, remainder and easement thereto belong or in
anywise appertaining:

Inst: 2006009647 Date: 04/20/2006 Time: 12:57
Doc Stamp-Deed : 559.30
S. F. DC, P. Dewitt Cason, Columbia County B: 1081 P: 401

TO HAVE AND TO HOLD the same in fee simple forever.

And the said party of the first part doth covenant with said party of the second part that it is lawfully seized of said premises; that they are free of all encumbrances, and that it has good right and lawful authority to sell the same; and the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be signed in its name by its President, and its corporate seal to be affixed, the day and year above written.

Signed, sealed and delivered
in our presence:

ISAAC HOLDINGS, INC.

Marilyn Ann McRae
Karen M. Wright

By:

Isaac Bratkovich
Isaac Bratkovich, President

STATE OF FLORIDA
COUNTY OF COLUMBIA

18 The foregoing instrument was acknowledged before me this day of April, 2006, by Isaac Bratkovich, President of Isaac Holdings, Inc., f/k/a Isaac Construction, Inc., a State of Florida corporation, on behalf of the corporation. He is personally known to me and did not take an oath.

Karen M. Wright
Notary Public

My Commission Expires: _____



Inst:2006009647 Date:04/20/2006 Time:12:57

Doc Stamp-Deed : 559.30

DC,P.Dewitt Cason,Columbia County B:1081 P:402



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

May 19, 2006

Isaac Construction, Inc.
144 S. W. Waterford Court, Suite 101
Lake City, Florida 32025

Attention: Mark

Reference: Cobblestone, Phase 1, Lot 11
Columbia County, Florida
Cal-Tech Project No. 06-321

Dear Mark,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 11 of Cobblestone, Phase 1 in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on lot 11 and to provide recommendations for selecting a finished floor elevation.

Based upon the U.S.G.S. quadrangle map and elevations determined on site, the centerline of the roadway adjacent the home site has an elevation of approximately 162.5 feet. Based upon this elevation the finished floor elevation is to be approximately 161.4 feet, or about 1.1 feet below the adjacent roadway.

Columbia County regulations require the finished floor elevation of a new residence to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown that such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the FEMA flood map, several flood areas are located within one mile of the home site. Flood elevations are not provided for these "zone A" flood areas; however, based upon flood areas delineated by the flood map, flood elevations for all but two of these areas are below an elevation of about 145 feet. For these two areas the flood elevation is estimated to be about 158 feet or roughly 3 feet below the finished floor elevation for the residence. Of these two areas one is topographically isolated such that flooding within this area will have no effect on the home site. The other area is south-southwest of the home site; however, a drainage structure is provided for this area, and flooding within this area will have no effect on the home site.

Therefore, based upon our evaluation, we believe there is no substantial risk for flooding of the proposed home site, and raising the finished floor elevation to 1 foot above the adjacent roadway should not be required.

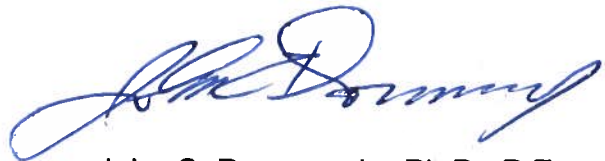
We recommend however the finished floor elevation be at least 8 inches above the finished surface grade at the perimeter of the residence. Based upon observations at the site, this elevation difference appears to be more than 12 inches.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.



Linda Creamer
President / CEO



John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer

5/19/06
52612

COLUMBIA COUNTY OR 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 24-3S-16-02275-111

Building permit No. 000024491

Use Classification SFD/UTILITY

Fire: 39.06

Permit Holder ISAAC BRATKOVICH

Waste: 117.25

Owner of Building DANIEL ROTH

Total: 156.31

Location: 529 NW BRIDGEWATER TERR(COBBLESTONE,LOT 11)

Date: 03/02/2007



[Signature]
Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Project Information for:		L158354	
Builder:	Issac Construction	Date:	4/11/2006
Lot:	Lot 11 Cobblestone	Start Number:	1474
Subdivision:	N/A		
County or City:	Columbia County		
Truss Page Count:	56		

Truss Design Load Information (UNO)		Design Program: MiTek 5.2 / 6.2	
Gravity	Wind	Building Code: FBC2004	
Roof (psf): 42	Wind Standard: ASCE 7-02		
Floor (psf): 55	Wind Speed (mph): 110		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)	
BRATKOVICH, ISAAC P. CBC059323	
Address: 1005 SW WALTER AVE.	Designer: 9
LAKE CITY, FL. 32024	

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987

Company: Structural Engineering and Inspections, Inc. EB 9196

Address: 16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

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

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0411061474	4/11/2006	41	T23	0411061514	4/11/2006
2	CJ3	0411061475	4/11/2006	42	T24	0411061515	4/11/2006
3	CJ5	0411061476	4/11/2006	43	T25	0411061516	4/11/2006
4	EJ4G	0411061477	4/11/2006	44	T26	0411061517	4/11/2006
5	EJ7	0411061478	4/11/2006	45	T27	0411061518	4/11/2006
6	EJ7A	0411061479	4/11/2006	46	T28	0411061519	4/11/2006
7	EJ7G	0411061480	4/11/2006	47	T29	0411061520	4/11/2006
8	HJ9	0411061481	4/11/2006	48	T30	0411061521	4/11/2006
9	PB11	0411061482	4/11/2006	49	T31	0411061522	4/11/2006
10	PB11A	0411061483	4/11/2006	50	T32	0411061523	4/11/2006
11	PB11B	0411061484	4/11/2006	51	T32G	0411061524	4/11/2006
12	PB18	0411061485	4/11/2006	52	T33	0411061525	4/11/2006
13	PB18A	0411061486	4/11/2006	53	T33G	0411061526	4/11/2006
14	PB18B	0411061487	4/11/2006	54	T34	0411061527	4/11/2006
15	PB18C	0411061488	4/11/2006	55	T34G	0411061528	4/11/2006
16	PB18D	0411061489	4/11/2006	56	T35	0411061529	4/11/2006
17	PB18E	0411061490	4/11/2006				
18	PB18F	0411061491	4/11/2006				
19	T01	0411061492	4/11/2006				
20	T02	0411061493	4/11/2006				
21	T03	0411061494	4/11/2006				
22	T04	0411061495	4/11/2006				
23	T05	0411061496	4/11/2006				
24	T06	0411061497	4/11/2006				
25	T07	0411061498	4/11/2006				
26	T08	0411061499	4/11/2006				
27	T09	0411061500	4/11/2006				
28	T10	0411061501	4/11/2006				
29	T11	0411061502	4/11/2006				
30	T12	0411061503	4/11/2006				
31	T13	0411061504	4/11/2006				
32	T14	0411061505	4/11/2006				
33	T15	0411061506	4/11/2006				
34	T16	0411061507	4/11/2006				
35	T17	0411061508	4/11/2006				
36	T18	0411061509	4/11/2006				
37	T19G	0411061510	4/11/2006				
38	T20	0411061511	4/11/2006				
39	T21	0411061512	4/11/2006				
40	T22	0411061513	4/11/2006				

APR 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 L158354	Truss CJ1	Truss Type JACK	Qty 12	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional)		
6.200 s Jul 13 2005 Mitek Industries, Inc.			Thu Apr 06 12:00:03 2006 Page 1		

Scale = 1/8"

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

LOADING (psf)	SPACING 2'-0"	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.01	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Vert(TL) -0.00 2 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.00 3 n/a n/a		
				Weight: 7 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 1'-0" oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) 2=271/0-6-0, 4=14/Mechanical, 3=96/Mechanical
 Max Horz 2=116(load case 5)
 Max Uplift 2=300(load case 5), 3=96(load case 1)
 Max Grav 2=271(load case 1), 4=14(load case 1), 3=153(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/59, 2-3=88/107
 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 300 lb uplift at joint 2 and 96 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	CJ3	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 12:14:56 2006 Page 1

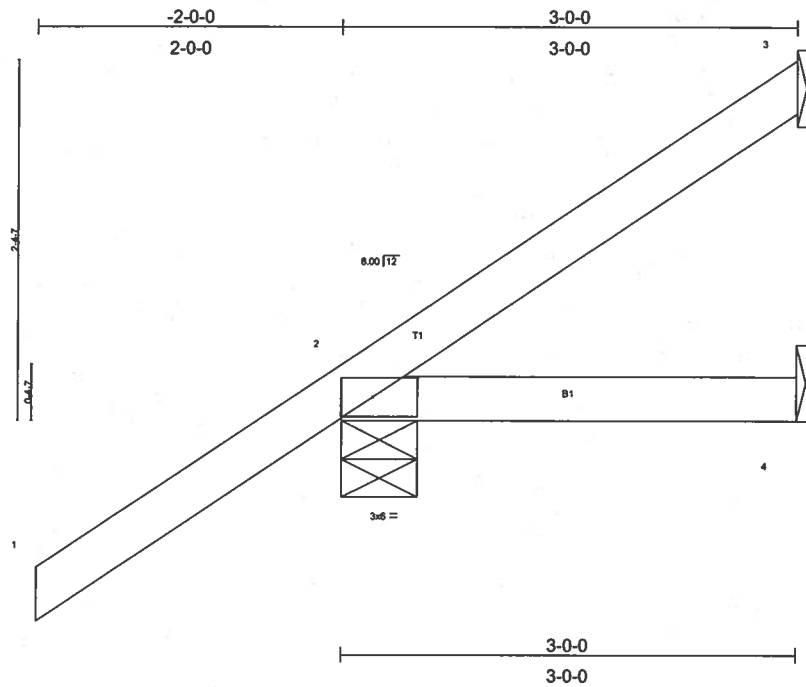


Plate Offsets (X,Y): [2-0-3-9,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.05	Vert(TL)	-0.00	2-4	>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: 14 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 3=22/Mechanical, 2=285/0-6-0, 4=40/Mechanical

Max Horz 2=175(load case 5)

Max Uplift 3=-32(load case 6), 2=-207(load case 5)

Max Grav 3=34(load case 3), 2=285(load case 1), 4=40(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/60, 2-3=-74/19

BOT CHORD 2-4=0/0

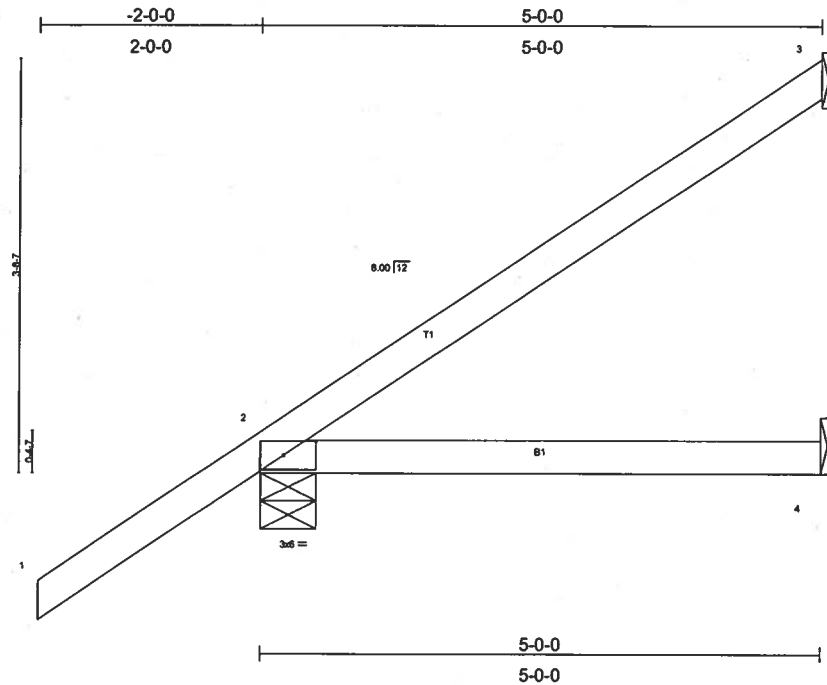
NOTES

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- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 3 and 207 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L158354	Truss CJ5	Truss Type JACK	Qty 12	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

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Scale = 1/19.7

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	U/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.16	Vert(TL)	-0.04	2-4	>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: 20 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 3=97/Mechanical, 2=348/0-6-0, 4=70/Mechanical
Max Horz 2=237(load case 5)
Max Uplift 3=-102(load case 5), 2=-187(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=90/42
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 102 lb uplift at joint 3 and 187 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L158354	Truss EJ4G	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 12:29:06 2006 Page 1		

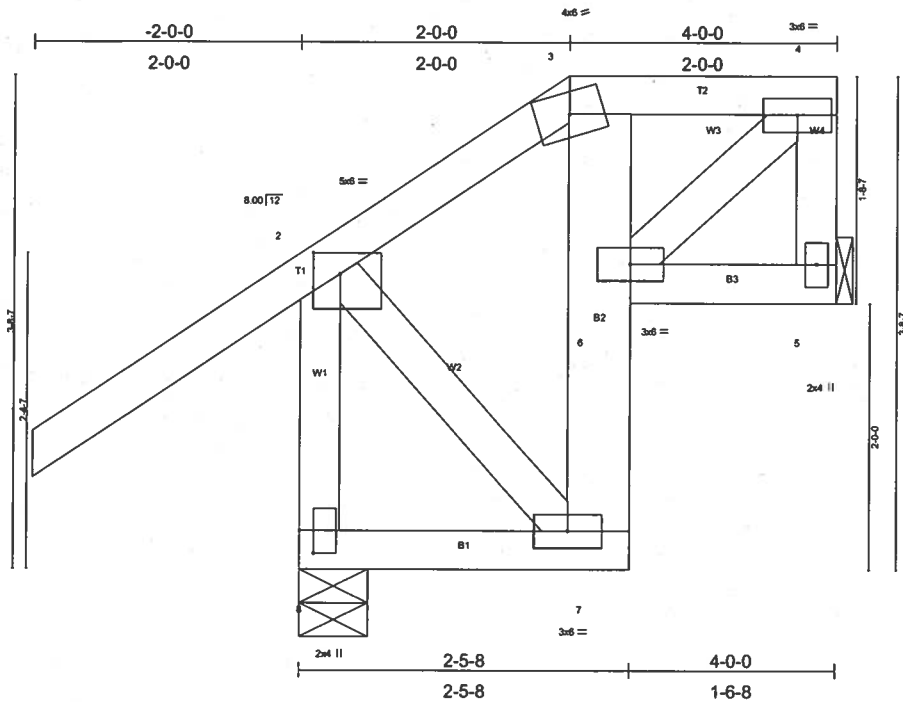


Plate Offsets (X,Y): [2-0-2-6,0-1-14], [8-0-2-1,0-1-4]

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 0.07	Vert(LL) -0.00 6 >999 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.00 6 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.01 5 n/a n/a		
	Code FBC2004/TPI2002				Weight: 34 lb

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 5=235/Mechanical, 8=387/0-6-0
 Max Horz 8=201(load case 4)
 Max Uplift 5=193(load case 4), 8=167(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/64, 2-3=137/97, 3-4=138/148, 4-5=176/175, 2-8=354/208
 BOT CHORD 7-8=125/13, 6-7=82/50, 3-6=76/108, 5-6=23/29
 WEBS 4-6=168/144, 2-7=60/116

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; end vertical left exposed; 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 193 lb uplift at joint 5 and 167 lb uplift at joint 8.
- 5) Girder carries hip end with 0-0-0 right side setback, 2-0-0 left side setback, and 5-0-0 end setback.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 82 lb up at 2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=54, 2-3=54, 3-4=88(B=34), 7-8=49(B=19), 5-6=49(B=19)
 Concentrated Loads (lb)
 Vert: 3=63(B)

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	EJ7	JACK	37	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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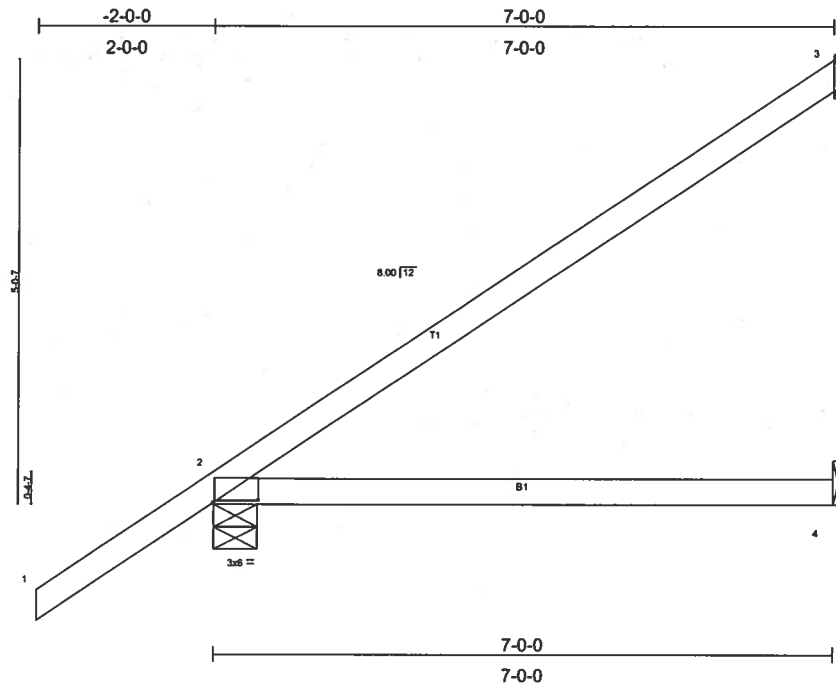
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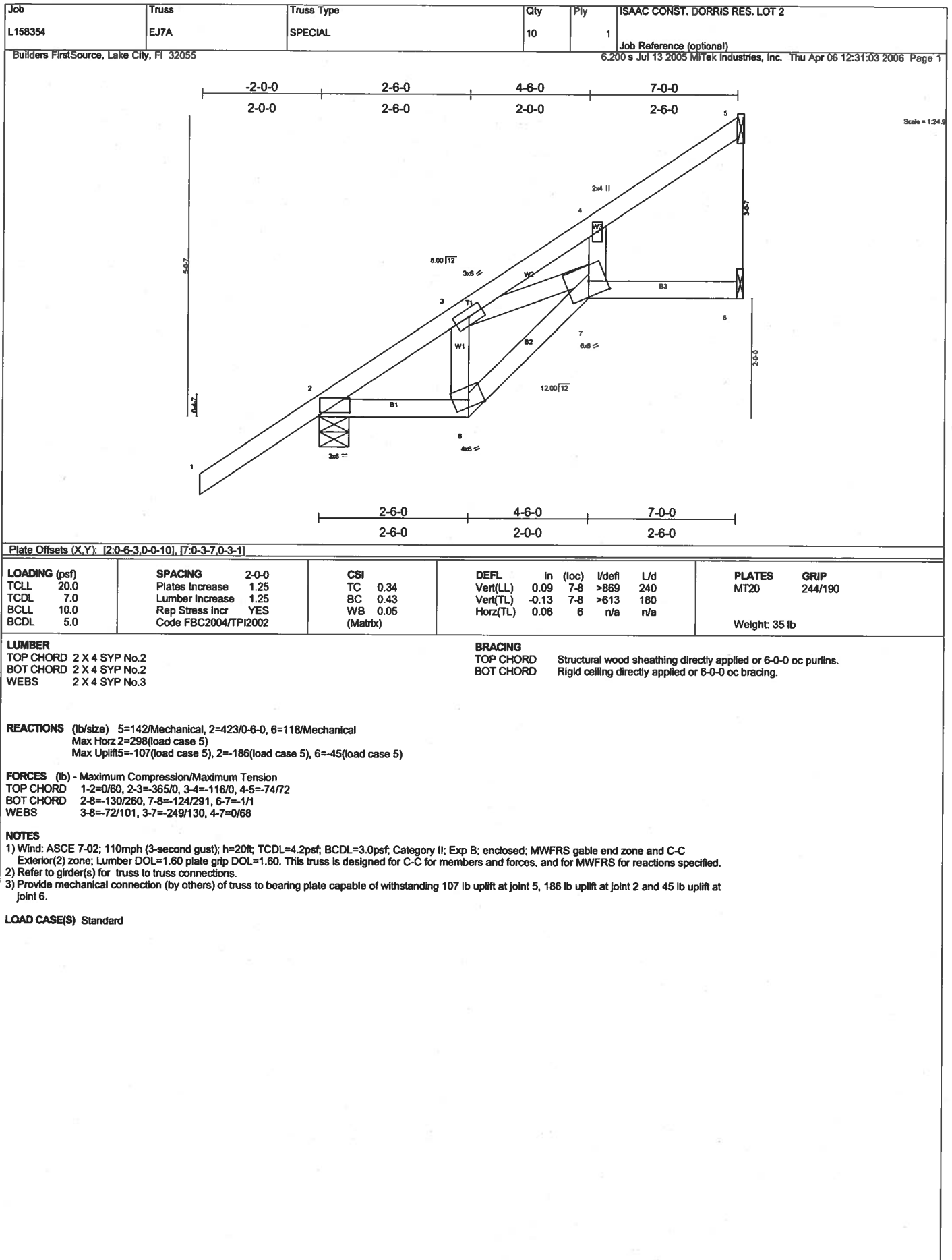
Plate Offsets (X,Y): [2-0-6-3,0-0-6]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.45	Vert(LL)	-0.11	2-4	>701	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.33	Vert(TL)	-0.19	2-4	>418	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 27 lb	

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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.**REACTIONS** (lb/size) 3=158/Mechanical, 2=423/0-6-0, 4=103/Mechanical
Max Horz 2=298(load case 5)
Max Uplift 3=-158(load case 5), 2=-186(load case 5)**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-130/70
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 158 lb uplift at joint 3 and 186 lb uplift at joint 2.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	EJ7G	SPECIAL	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 13:18:25 2006 Page 1		

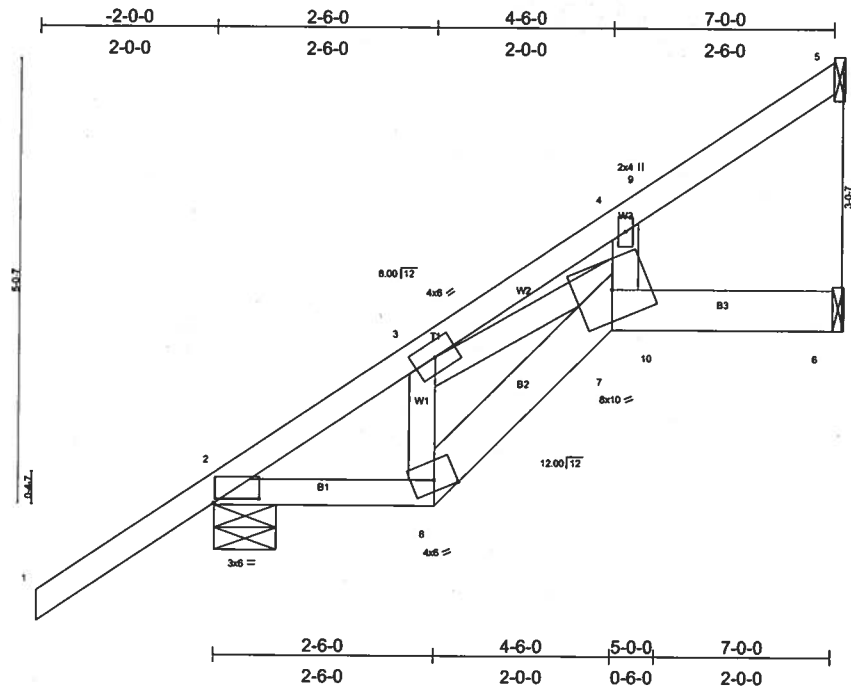


Plate Offsets (X,Y): [2-0-6-3,0-0-10]

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 0.52	Vert(LL) -0.07 7 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.09	Vert(TL) -0.11 7-8 >736 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.05 6 n/a n/a		
	Code FBC2004/TP12002			Weight: 40 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 6 SYP No.1D *Except*
 B1 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) 5=125/Mechanical, 2=603/0-8-8, 6=372/Mechanical
 Max Horz 2=356(load case 4)
 Max Uplift 5=94(load case 4), 2=-280(load case 4), 6=-162(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

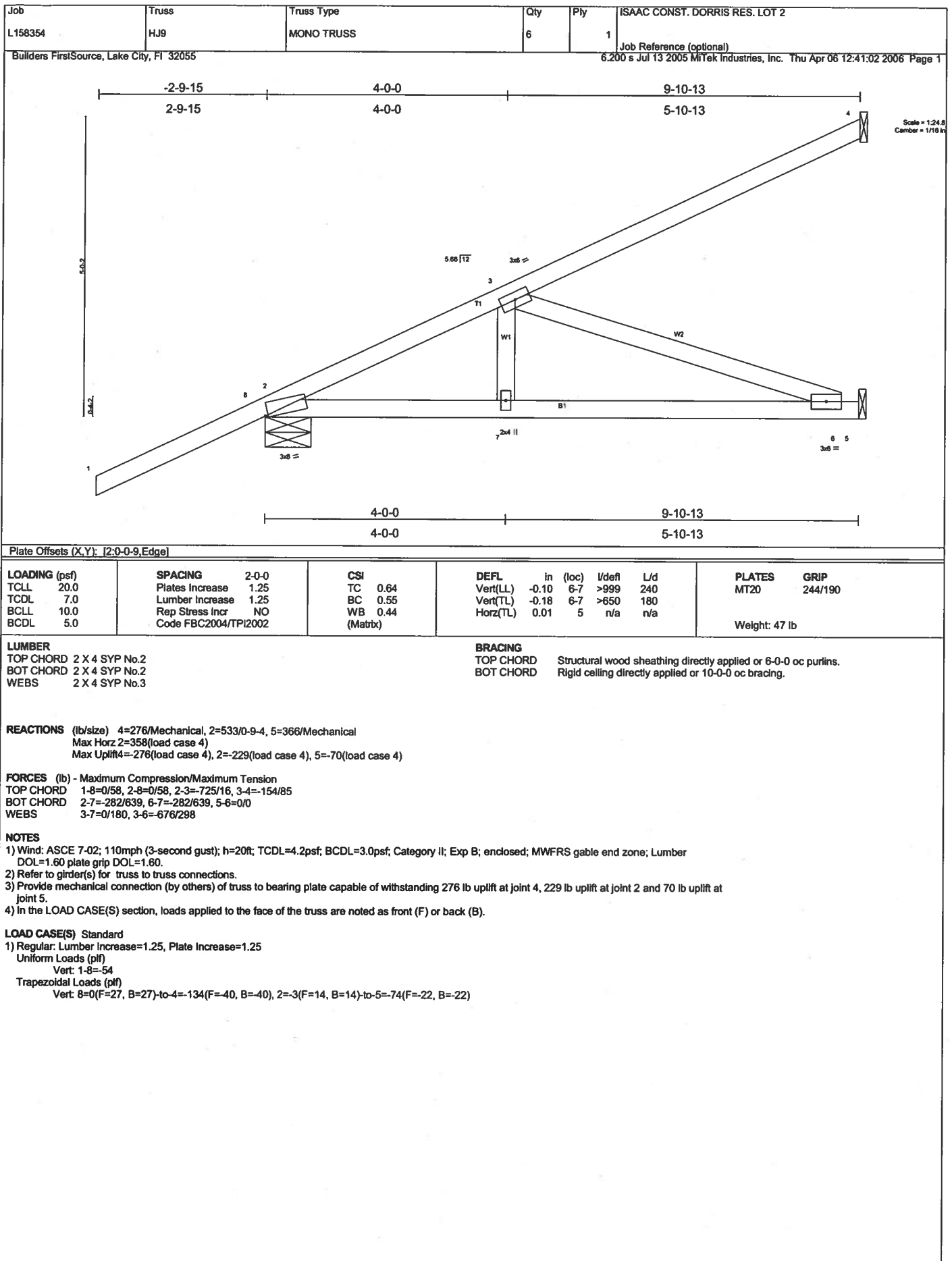
TOP CHORD 1-2=0/61, 2-3=-597/92, 3-4=-118/24, 4-9=-62/8, 5-9=-60/62
 BOT CHORD 2-8=-262/439, 7-8=-202/420, 7-10=-1/2, 6-10=-7/3
 WEBS 3-8=-32/63, 3-7=-450/205, 4-7=-40/69

NOTES

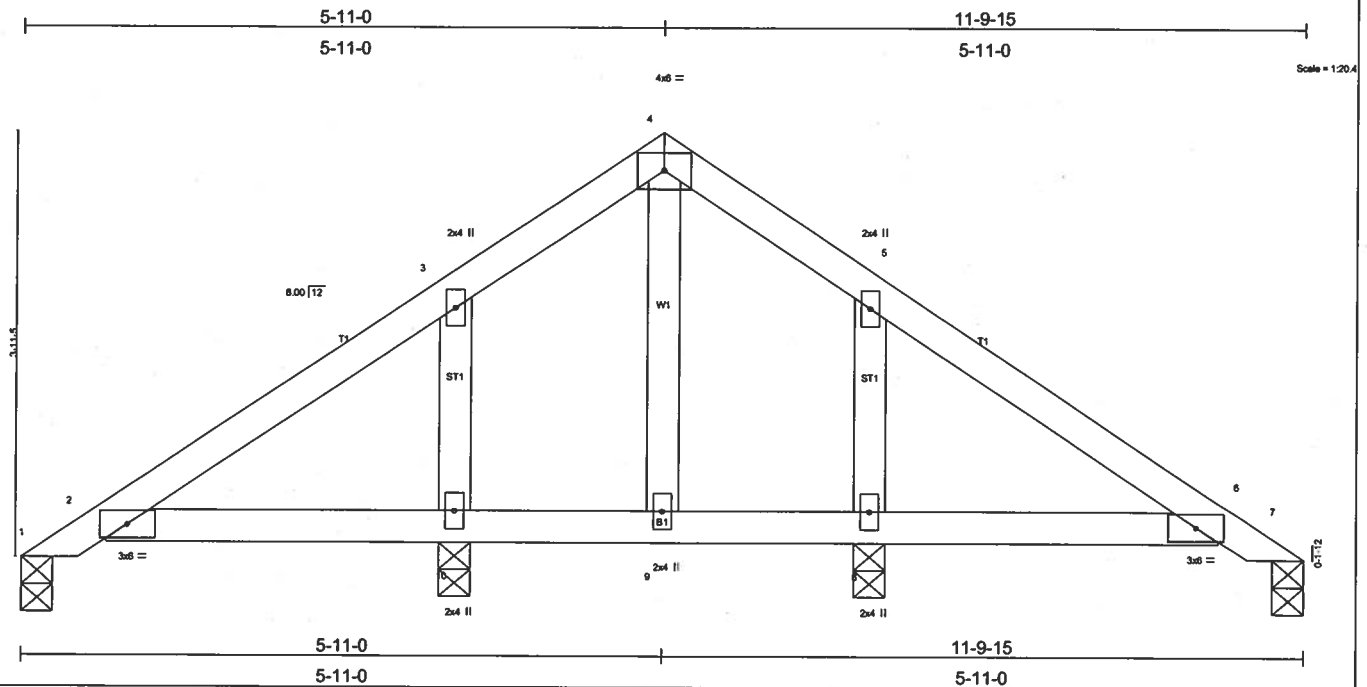
- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 5, 280 lb uplift at joint 2 and 162 lb uplift at joint 6.
- 4) Girder carries hip end with 2-0-0 right side setback, 0-0-0 left side setback, and 4-0-0 end setback.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 235 lb down and 89 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-9=-51(F=3), 5-9=-54, 2-8=-68(F=-38), 7-8=-68(F=-38), 7-10=-68(F=-38), 6-10=-41(F=-11)
 Concentrated Loads (lb)
 Vert: 10=-235(F)



Job L158354	Truss PB11	Truss Type PIGGYBACK	Qty 3	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 12:49:49 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 0.12	Vert(LL) 0.01 2-10 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.01 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: 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
 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.

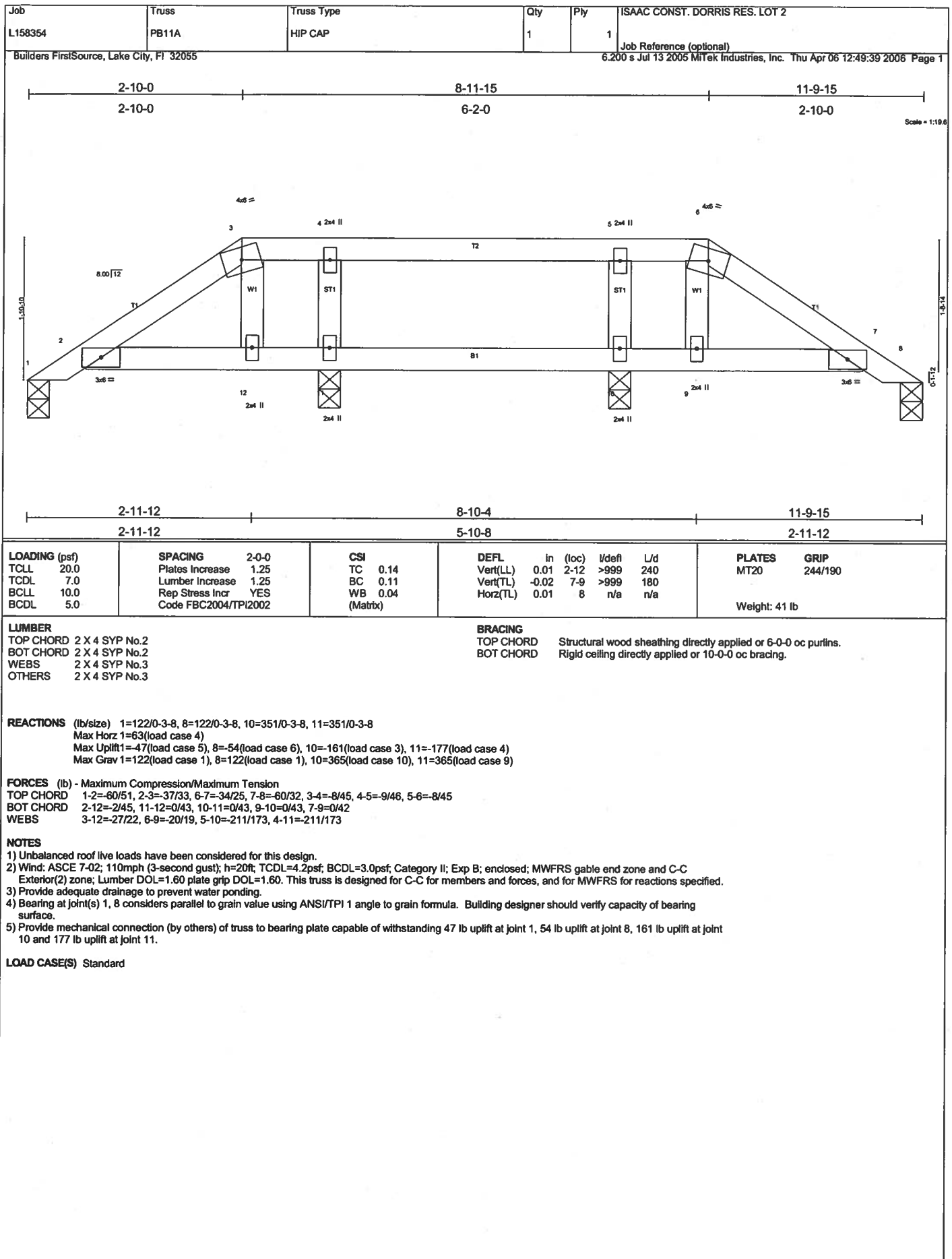
REACTIONS (lb/size) 1=94/0-3-8, 7=94/0-3-8, 8=379/0-3-8, 10=379/0-3-8
 Max Horz 1=134(load case 4)
 Max Uplift 1=13(load case 3), 7=-7(load case 6), 8=-172(load case 6), 10=-188(load case 5)
 Max Grav 1=100(load case 9), 7=100(load case 10), 8=379(load case 1), 10=379(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-133/127, 2-3=-114/110, 3-4=-21/47, 4-5=-19/47, 5-6=-101/110, 6-7=-49/9
 BOT CHORD 2-10=-39/145, 9-10=-39/145, 8-9=-39/145, 6-8=-39/145
 WEBS 4-9=-53/25, 5-8=-214/177, 3-10=-214/180

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, 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 13 lb uplift at joint 1, 7 lb uplift at joint 7, 172 lb uplift at joint 8 and 188 lb uplift at joint 10.

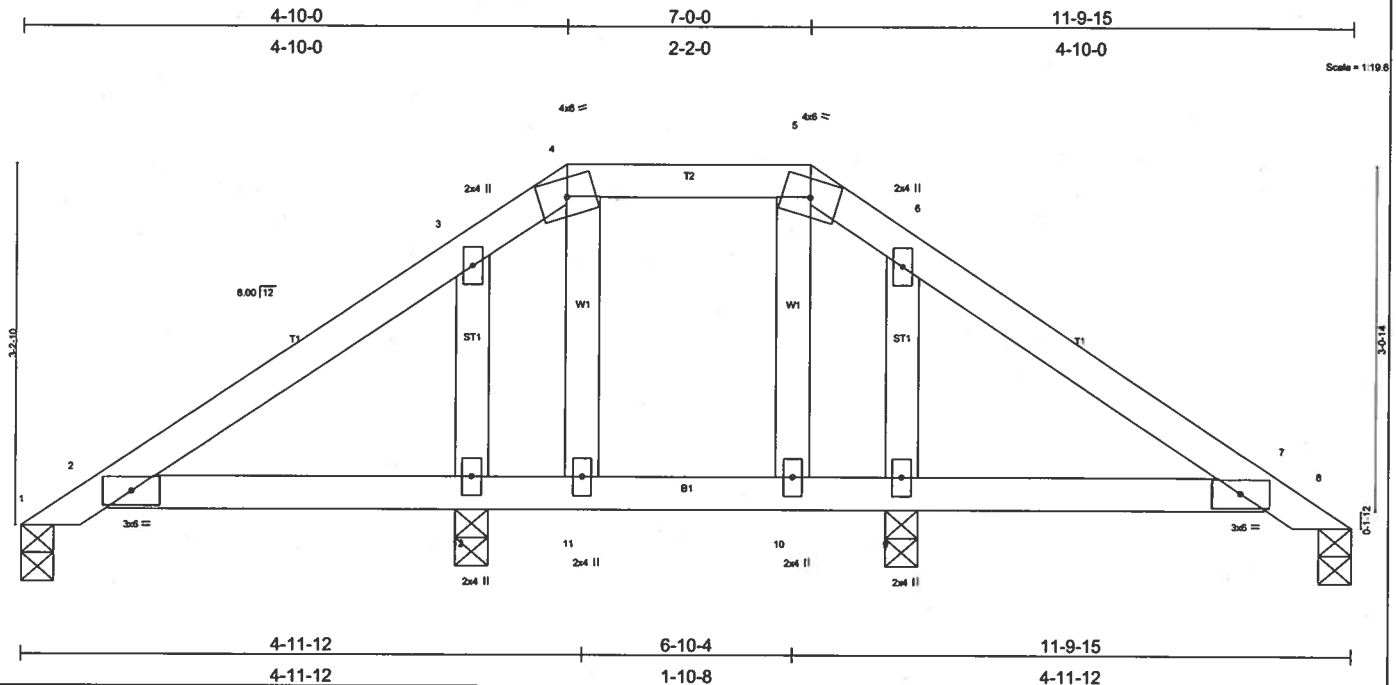
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	PB11B	HIP CAP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(LL) 0.01 2-12 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Vert(TL) -0.01 2-12 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 8 n/a n/a		
	Code FBC2004/TPI2002			Weight: 49 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.

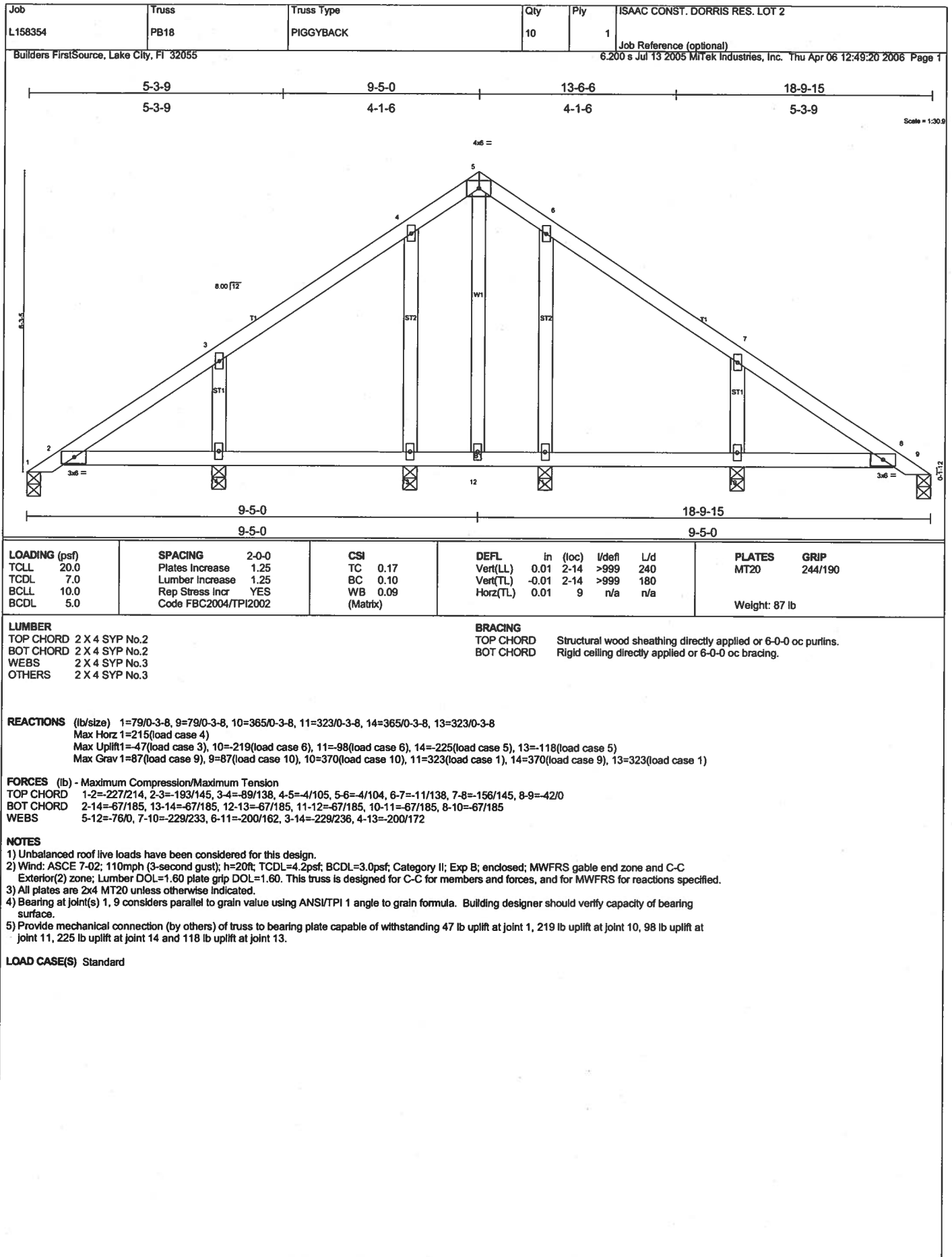
REACTIONS (lb/size) 1=75/0-3-8, 8=75/0-3-8, 9=398/0-3-8, 12=398/0-3-8
 Max Horz 1=-109(load case 3)
 Max Uplift 1=-24(load case 3), 8=-31(load case 3), 9=-163(load case 6), 12=-178(load case 5)
 Max Grav 1=95(load case 9), 8=95(load case 10), 9=398(load case 1), 12=398(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-97/111, 2-3=-113/148, 3-4=-16/73, 5-6=-16/84, 6-7=-92/148, 7-8=-46/21, 4-5=-9/74
 BOT CHORD 2-12=-72/137, 11-12=-72/137, 10-11=-74/137, 9-10=-72/137, 7-9=-72/137
 WEBS 4-11=-39/25, 5-10=-39/29, 6-9=-222/170, 3-12=-222/170

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.
- Provide adequate drainage to prevent water ponding.
- Bearing at joint(s) 1, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 31 lb uplift at joint 8, 163 lb uplift at joint 9 and 178 lb uplift at joint 12.

LOAD CASE(S) Standard



Job L158354	Truss PB18A	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Thu Apr 06 12:50:45 2006 Page 1		

2-10-0	9-5-0	16-0-0	18-9-15
2-10-0	6-7-0	6-7-0	2-10-0

Scale = 1/2" = 1'-0"

2-11-12	15-10-4	18-9-15
2-11-12	12-10-8	2-11-12

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.15	In (loc) 2-16 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.12	Vert(TL) -0.01 2-16 >999 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.01 10 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			
				Weight: 66 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	
OTHERS 2 X 4 SYP No.3	

REACTIONS (lb/size) 1=111/0-3-8, 10=111/0-3-8, 12=387/0-3-8, 13=269/0-3-8, 15=387/0-3-8, 14=269/0-3-8

Max Horz 1=63(load case 3)

Max Uplift 1=44(load case 5), 10=-51(load case 6), 12=-155(load case 3), 13=-147(load case 4), 15=-175(load case 4), 14=-150(load case 3)

Max Grav 1=111(load case 1), 10=111(load case 1), 12=389(load case 10), 13=283(load case 9), 15=389(load case 9), 14=283(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-54/50, 2-3=-38/39, 8-9=-15/39, 9-10=-54/31, 3-4=-9/41, 4-5=-8/41, 5-6=-8/41, 6-7=-8/41, 7-8=-9/41

BOT CHORD 2-16=-11/43, 15-16=-10/42, 14-15=-10/42, 13-14=-10/42, 12-13=-10/42, 11-12=-10/42, 9-11=-11/41

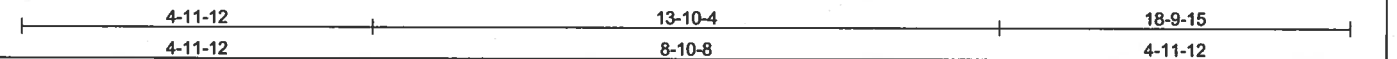
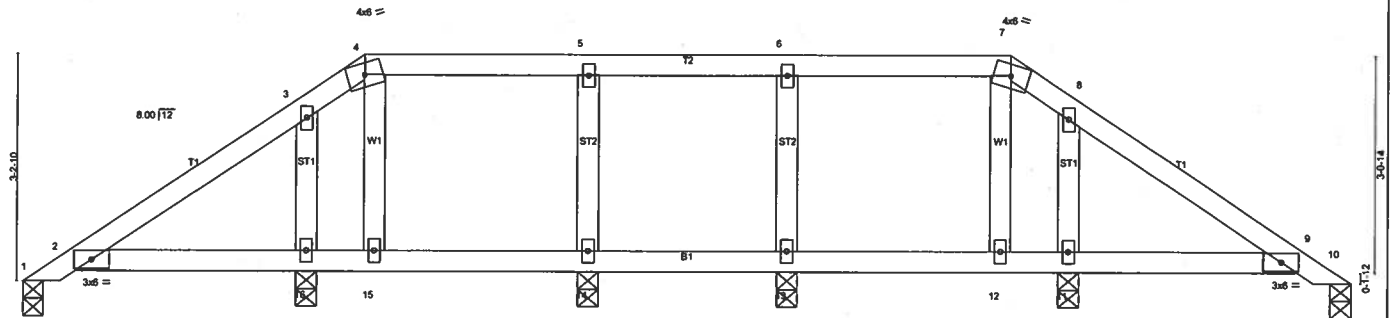
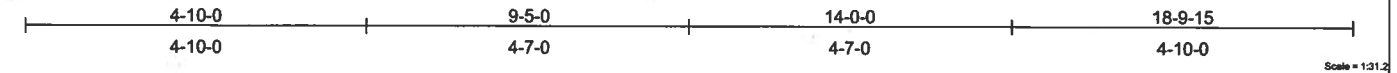
WEBS 3-16=-32/22, 8-11=-22/18, 7-12=-226/168, 6-13=-182/160, 4-15=-226/177, 5-14=-182/161

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 adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Bearing at joint(s) 1, 10 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 44 lb uplift at joint 1, 51 lb uplift at joint 10, 155 lb uplift at joint 12, 147 lb uplift at joint 13, 175 lb uplift at joint 15 and 150 lb uplift at joint 14.

LOAD CASE(S) Standard

Job L158354	Truss PB18B	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 12:52:01 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.13	Vert(LL) 0.01 2-16 >999 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.04	Vert(TL) -0.01 2-16 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 10 n/a n/a		
	Code FBC2004/TPI2002			Weight: 77 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3
 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=88/0-3-8, 10=88/0-3-8, 11=399/0-3-8, 13=279/0-3-8, 16=399/0-3-8, 14=279/0-3-8
 Max Horz 1=109(load case 3)
 Max Uplift 1=28(load case 3), 10=37(load case 3), 11=160(load case 6), 13=144(load case 4), 16=175(load case 5), 14=140(load case 3)
 Max Grav 1=107(load case 9), 10=107(load case 10), 11=399(load case 1), 13=288(load case 9), 16=399(load case 1), 14=288(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=95/113, 2-3=94/117, 3-4=39/85, 7-8=39/92, 8-9=70/117, 9-10=52/24, 4-5=0/80, 5-6=0/80, 6-7=0/80
 BOT CHORD 2-16=46/118, 15-16=46/118, 14-15=47/119, 13-14=47/119, 12-13=47/119, 11-12=47/118, 9-11=47/118
 WEBS 4-15=41/42, 7-12=41/49, 8-11=217/152, 6-13=181/150, 3-16=217/159, 5-14=181/148

- 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 adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Bearing at joint(s) 1, 10 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 28 lb uplift at joint 1, 37 lb uplift at joint 10, 160 lb uplift at joint 11, 144 lb uplift at joint 13, 175 lb uplift at joint 16 and 140 lb uplift at joint 14.

LOAD CASE(S) Standard

Job L158354	Truss PB18C	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Thu Apr 06 12:52:50 2006 Page 1		

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	In (loc)	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.13	Vert(LL) 0.01 2-16 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.01 2-16 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 10 n/a n/a		
	Code FBC2004/TPI2002			Weight: 86 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	
OTHERS 2 X 4 SYP No.3	

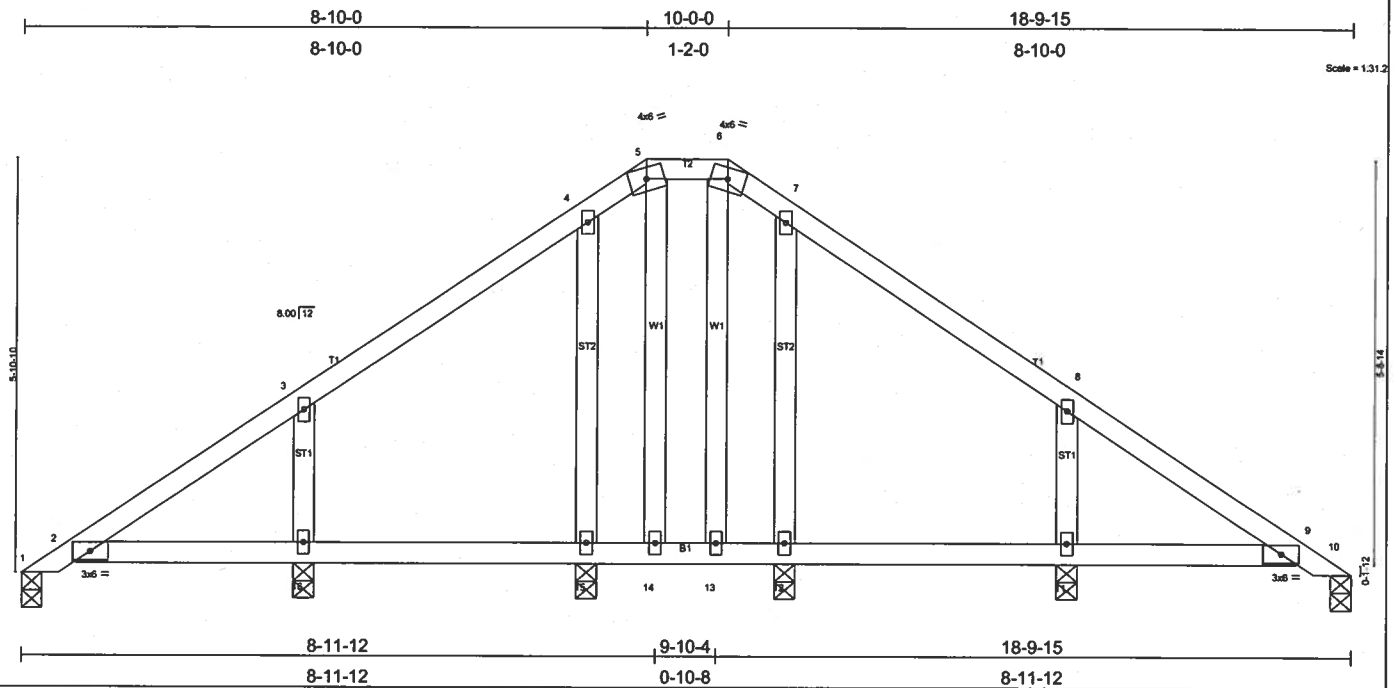
REACTIONS (lb/size) 1=103/0-3-8, 10=103/0-3-8, 11=381/0-3-8, 13=283/0-3-8, 16=381/0-3-8, 14=283/0-3-8
 Max Horz 1=155(load case 4)
 Max Uplift 1=33(load case 3), 10=-18(load case 6), 11=-198(load case 6), 13=-104(load case 3), 16=-209(load case 5), 14=-132(load case 4)
 Max Grav 1=107(load case 9), 10=107(load case 10), 11=381(load case 1), 13=287(load case 10), 16=381(load case 1), 14=287(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-157/156, 2-3=-120/104, 3-4=-44/82, 7-8=-44/70, 8-9=-70/88, 9-10=-52/13, 4-5=0/90, 5-6=0/90, 6-7=0/90
 BOT CHORD 2-16=-21/116, 15-16=-21/116, 14-15=-22/116, 13-14=-22/116, 12-13=-22/116, 11-12=-20/115, 9-11=-20/115
 WEBS 4-15=-42/43, 7-12=-42/30, 8-11=-221/199, 6-13=-157/106, 3-16=-221/204, 5-14=-157/115

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 3) Provide adequate drainage to prevent water ponding.
 4) All plates are 2x4 MT20 unless otherwise indicated.
 5) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 18 lb uplift at joint 10, 198 lb uplift at joint 11, 104 lb uplift at joint 13, 209 lb uplift at joint 16 and 132 lb uplift at joint 14.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	PB18D	HIP CAP	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 12:53:36 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	In	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	0.01	2-16	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(TL)	-0.01	2-16	>999	180		
BCCL 10.0	Lumber Increase 1.25	WB 0.09	Horz(TL)	0.01	10	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002							Weight: 94 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=73/0-3-8, 10=73/0-3-8, 11=364/0-3-8, 12=330/0-3-8, 16=364/0-3-8, 15=330/0-3-8
 Max Horz 1=202(load case 3)
 Max Uplift 1=53(load case 3), 11=222(load case 6), 12=84(load case 6), 16=227(load case 5), 15=107(load case 4)
 Max Grav 1=86(load case 9), 10=86(load case 10), 11=368(load case 10), 12=330(load case 1), 16=368(load case 9), 15=330(load case 1)

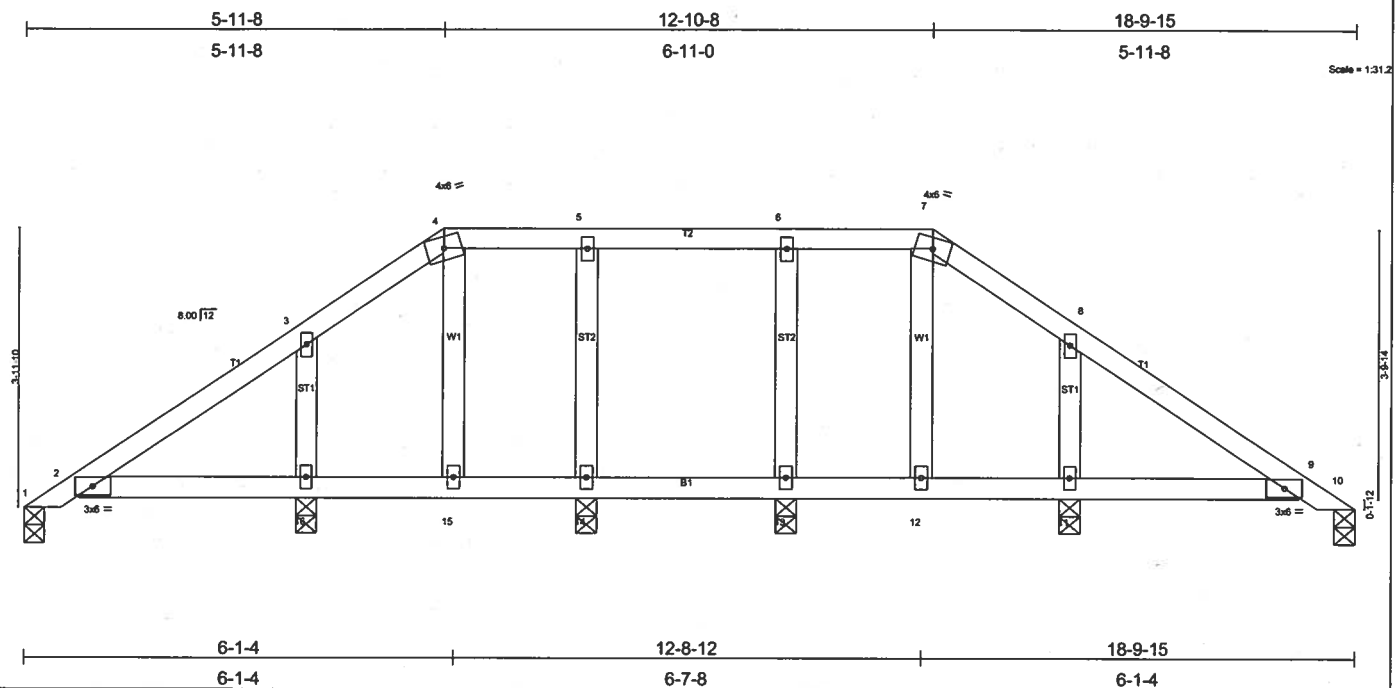
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=210/206, 2-3=179/158, 3-4=66/151, 4-5=0/111, 6-7=0/116, 7-8=0/151, 8-9=140/158, 9-10=41/2, 5-6=0/99
 BOT CHORD 2-16=78/170, 15-16=78/170, 14-15=78/170, 13-14=79/169, 12-13=78/170, 11-12=78/170, 9-11=78/170
 WEBS 5-14=40/0, 6-13=47/14, 8-11=228/234, 7-12=205/155, 3-16=228/236, 4-15=205/167

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 adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Bearing at joint(s) 1, 10 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 53 lb uplift at joint 1, 222 lb uplift at joint 11, 84 lb uplift at joint 12, 227 lb uplift at joint 16 and 107 lb uplift at joint 15.

LOAD CASE(S) Standard

Job L158354	Truss PB18E	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Thu Apr 06 12:54:56 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 0.15	Vert(LL) 0.01 2-16 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.13	Vert(TL) -0.01 2-16 >999 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.01 10 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			Weight: 82 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=110/0-3-8, 10=110/0-3-8, 11=382/0-3-8, 13=274/0-3-8, 16=382/0-3-8, 14=274/0-3-8

Max Horz 1=135(load case 4)

Max Uplift 1=-29(load case 3), 10=-18(load case 3), 11=-181(load case 6), 13=-111(load case 4), 16=-193(load case 5), 14=-123(load case 4)

Max Grav 1=118(load case 9), 10=118(load case 10), 11=382(load case 1), 13=274(load case 1), 16=382(load case 1), 14=274(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-129/136, 2-3=-98/103, 3-4=-65/78, 7-8=-65/66, 8-9=-74/72, 9-10=-58/14, 4-5=-6/66, 5-6=-6/66, 6-7=-6/66

BOT CHORD 2-16=-35/121, 15-16=-35/121, 14-15=-34/121, 13-14=-34/121, 12-13=-34/121, 11-12=-34/121, 9-11=-34/121

WEBS 4-15=-27/133, 7-12=-27/23, 8-11=-216/177, 6-13=-166/124, 3-16=-216/183, 5-14=-166/128

NOTES

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

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C

Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

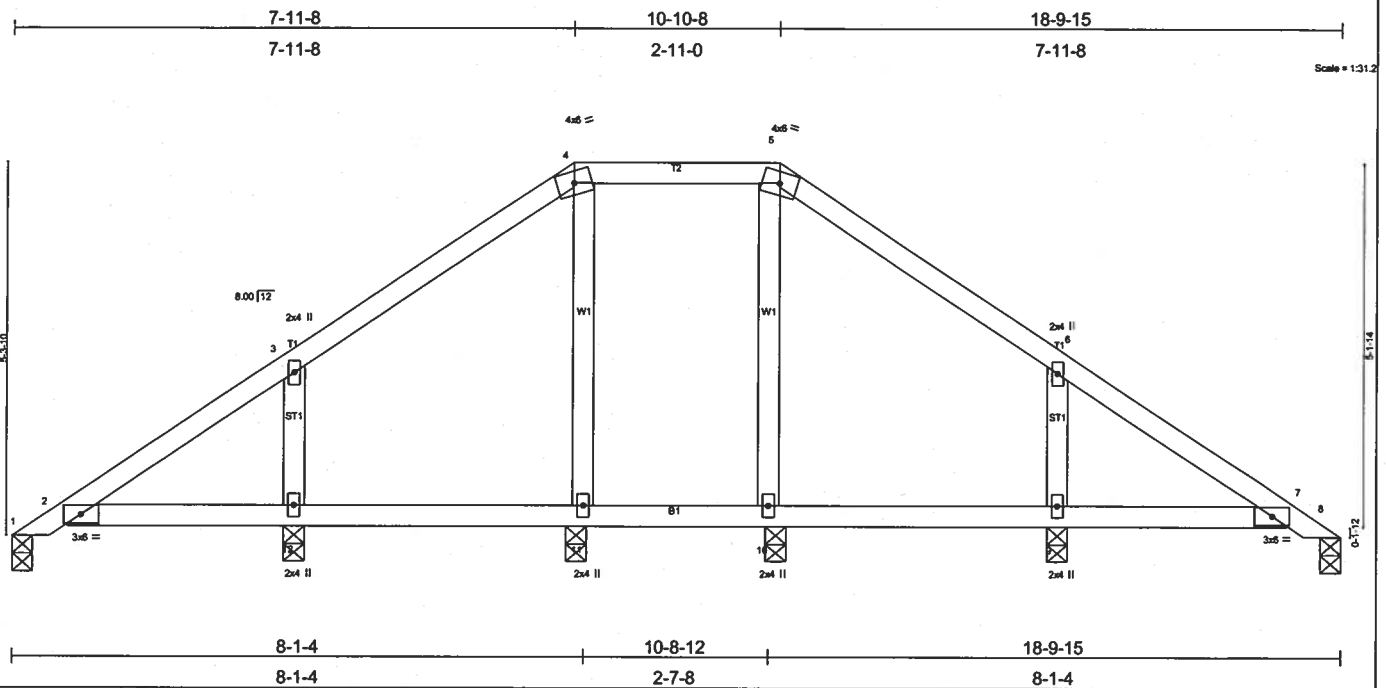
4) All plates are 2x4 MT20 unless otherwise indicated.

5) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 18 lb uplift at joint 10, 181 lb uplift at joint 11, 111 lb uplift at joint 13, 193 lb uplift at joint 16 and 123 lb uplift at joint 14.

LOAD CASE(S) Standard

Job L158354	Truss PB18F	Truss Type HIP CAP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 12:56:27 2006 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.11	Vert(LL) 0.01 2-12 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.10	Vert(TL) -0.01 2-12 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 8 n/a n/a		
	Code FBC2004/TPI2002				Weight: 78 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

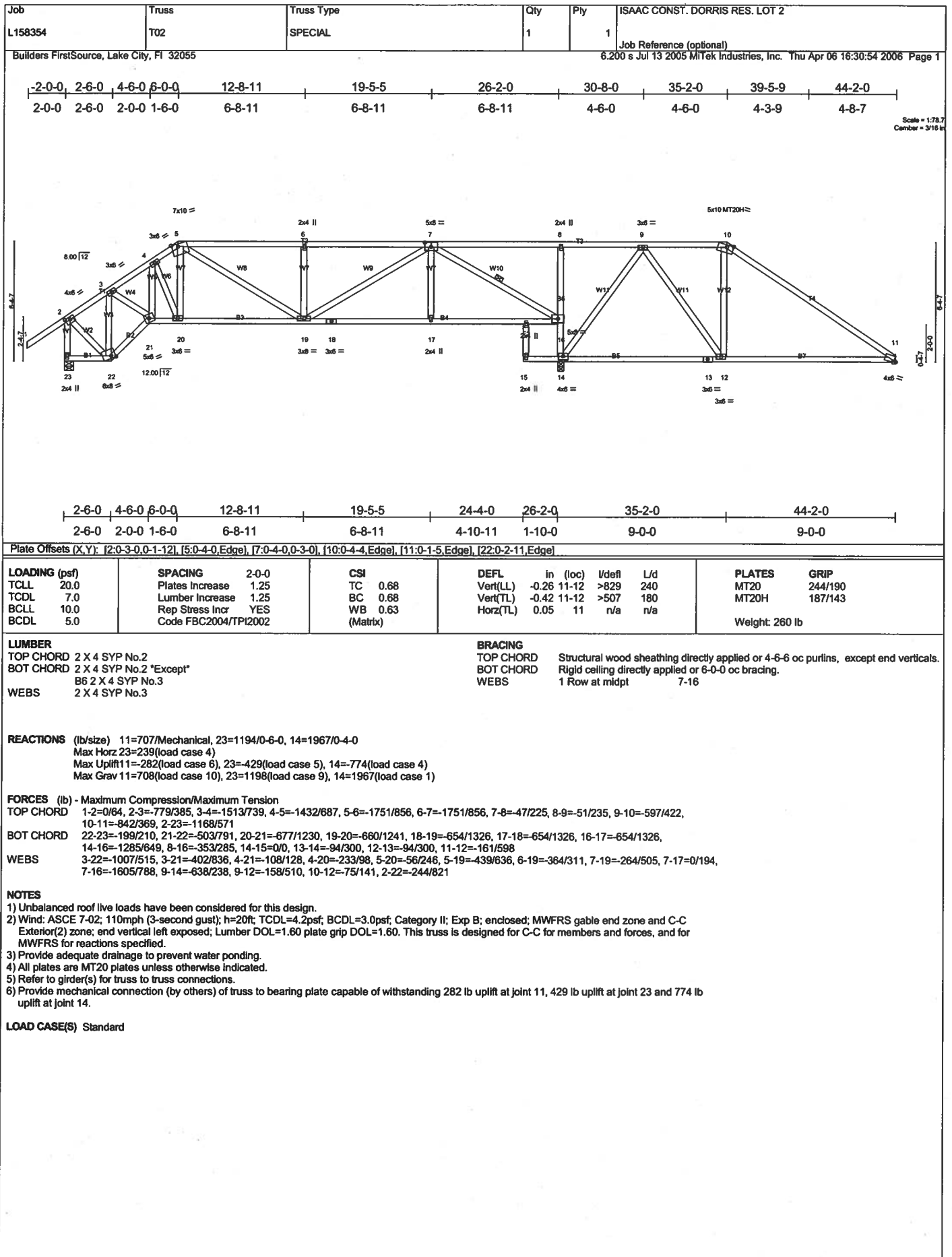
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

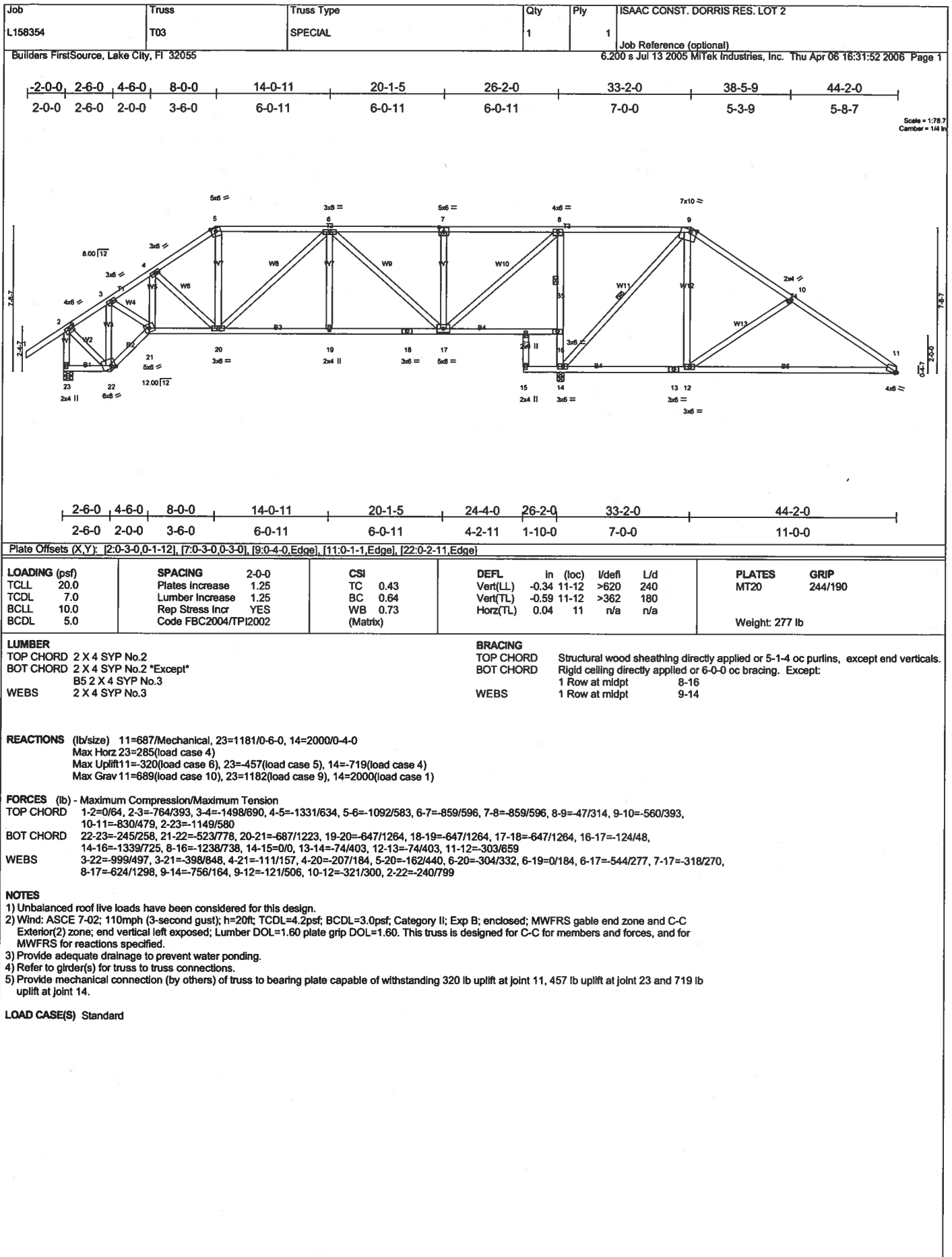
REACTIONS (lb/size) 1=72/0-3-8, 8=72/0-3-8, 11=325/0-3-8, 10=325/0-3-8, 9=370/0-3-8, 12=370/0-3-8
 Max Horz 1=181(load case 4)
 Max Uplift 1=56(load case 3), 8=15(load case 6), 11=125(load case 4), 10=66(load case 3), 9=222(load case 6), 12=227(load case 5)
 Max Grav 1=84(load case 9), 8=84(load case 10), 11=325(load case 1), 10=325(load case 1), 9=372(load case 10), 12=372(load case 9)

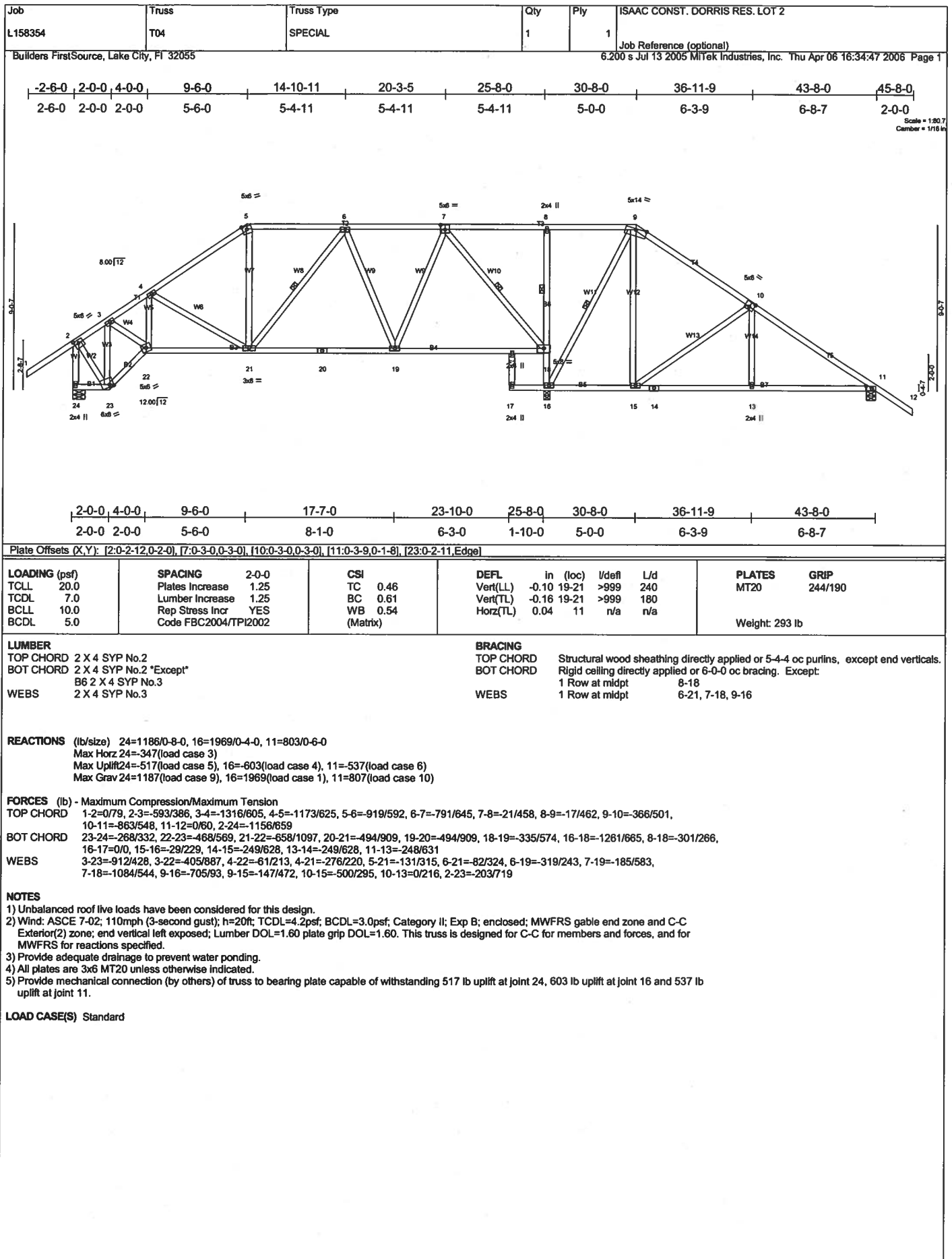
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-186/189, 2-3=-146/158, 3-4=-50/150, 5-6=-2/150, 6-7=-73/158, 7-8=-40/12, 4-5=0/125
 BOT CHORD 2-12=-78/115, 11-12=-78/115, 10-11=-85/116, 9-10=-78/114, 7-9=-78/114
 WEBS 4-11=-231/149, 5-10=-231/89, 6-9=-227/235, 3-12=-227/237

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) Bearing at joint(s) 1, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 1, 15 lb uplift at joint 8, 125 lb uplift at joint 11, 66 lb uplift at joint 10, 222 lb uplift at joint 9 and 227 lb uplift at joint 12.

LOAD CASE(S) Standard







Job L158354	Truss T05	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Thu Apr 06 16:40:21 2006 Page 1		

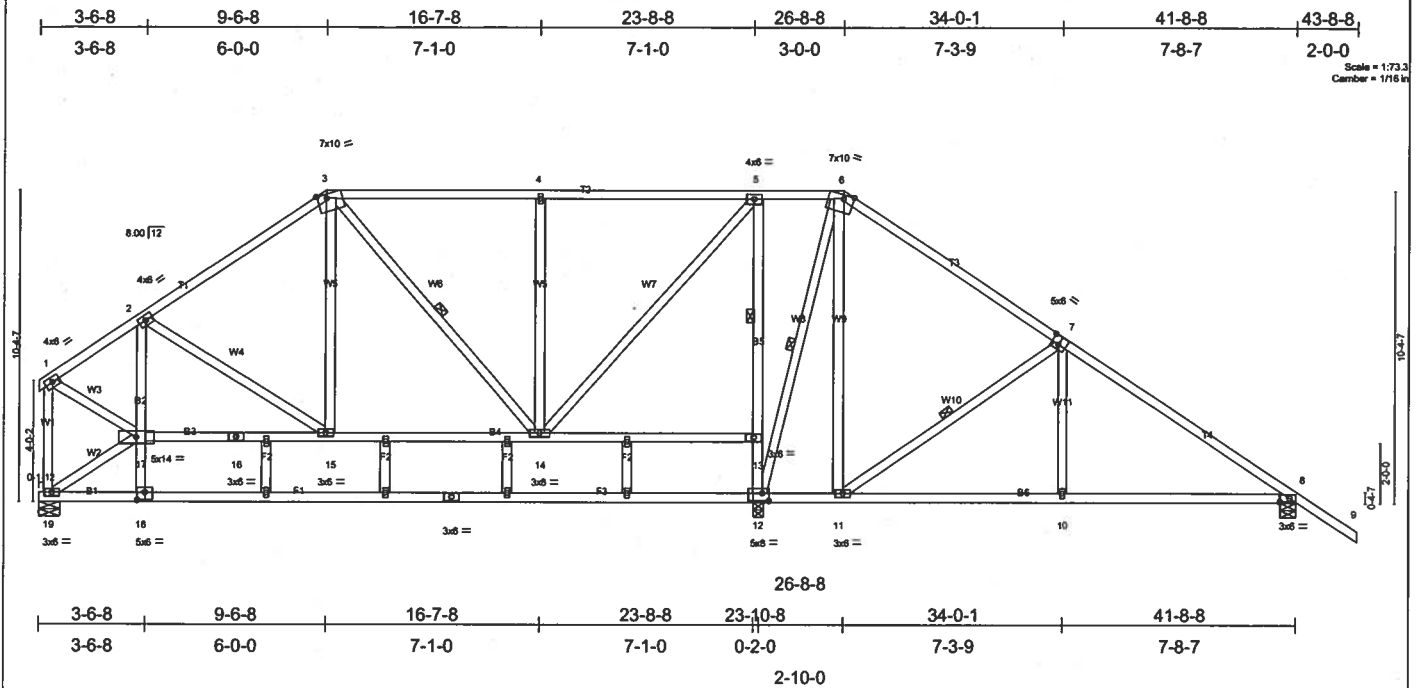


Plate Offsets (X, Y): [3:0-4-0,Edge], [6:0-4-0,Edge], [7:0-3-0,0-3-4], [8:0-3-9,0-1-8], [12:0-2-12,0-3-0], [18:0-3-0,0-3-0]					
LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.44	Vert(LL) -0.10 8-10 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.99	Vert(TL) -0.16 8-10 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.04 12 n/a n/a		
Weight: 328 lb					

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 18-19.
 1 Row at midpt 13-14, 5-13
 1 Row at midpt 3-14, 6-12, 7-11
 WEBS 1 Brace at Jt(s): 15, 14, 17, 13

REACTIONS (lb/size) 12=1797/0-4-0, 8=823/0-6-0, 19=897/0-8-8
 Max Horz 19=450(load case 3)
 Max Uplift 12=488(load case 4), 8=575(load case 6), 19=364(load case 5)
 Max Grav 12=1797(load case 1), 8=825(load case 10), 19=899(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=830/412, 2-3=905/563, 3-4=589/624, 4-5=588/624, 5-6=551/5, 6-7=272/542, 7-8=863/608, 8-9=0/60, 1-19=888/403
 BOT CHORD 18-19=25/18, 11-12=3/135, 10-11=284/619, 8-10=284/622, 17-18=5/23, 2-17=270/284, 16-17=523/689, 15-16=523/687,
 14-15=396/685, 13-14=59/31, 12-13=1132/624, 5-13=1022/643
 WEBS 2-15=358/152, 3-15=38/225, 3-14=315/86, 4-14=415/364, 5-14=482/968, 6-12=746/104, 6-11=183/534, 7-11=602/356, 7-10=0/260,
 1-17=294/759, 17-19=285/463

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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 12, 575 lb uplift at joint 8 and 364 lb uplift at joint 19.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T06	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 13:55:35 2006 Page 1

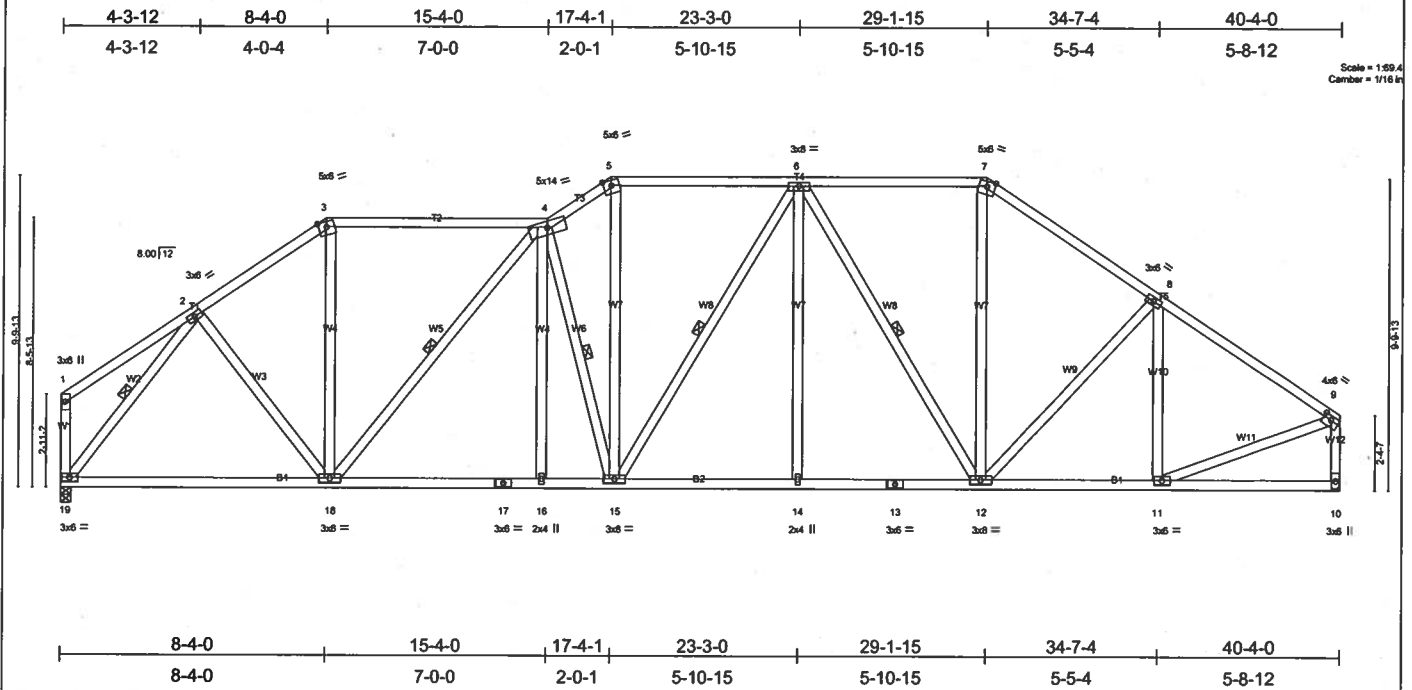


Plate Offsets (X,Y): [9:0-3:0,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.55	Vert(LL) -0.15 16-18 >999 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.66	Vert(TL) -0.24 16-18 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.09 10 n/a n/a		
	Code FBC2004/TPI2002			Weight: 305 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-3 max.): 3-4, 5-7.
 BOT CHORD Rigid ceiling directly applied or 7-10-10 oc bracing.
 WEBS 1 Row at midpt 4-18, 4-15, 6-15, 6-12, 2-19

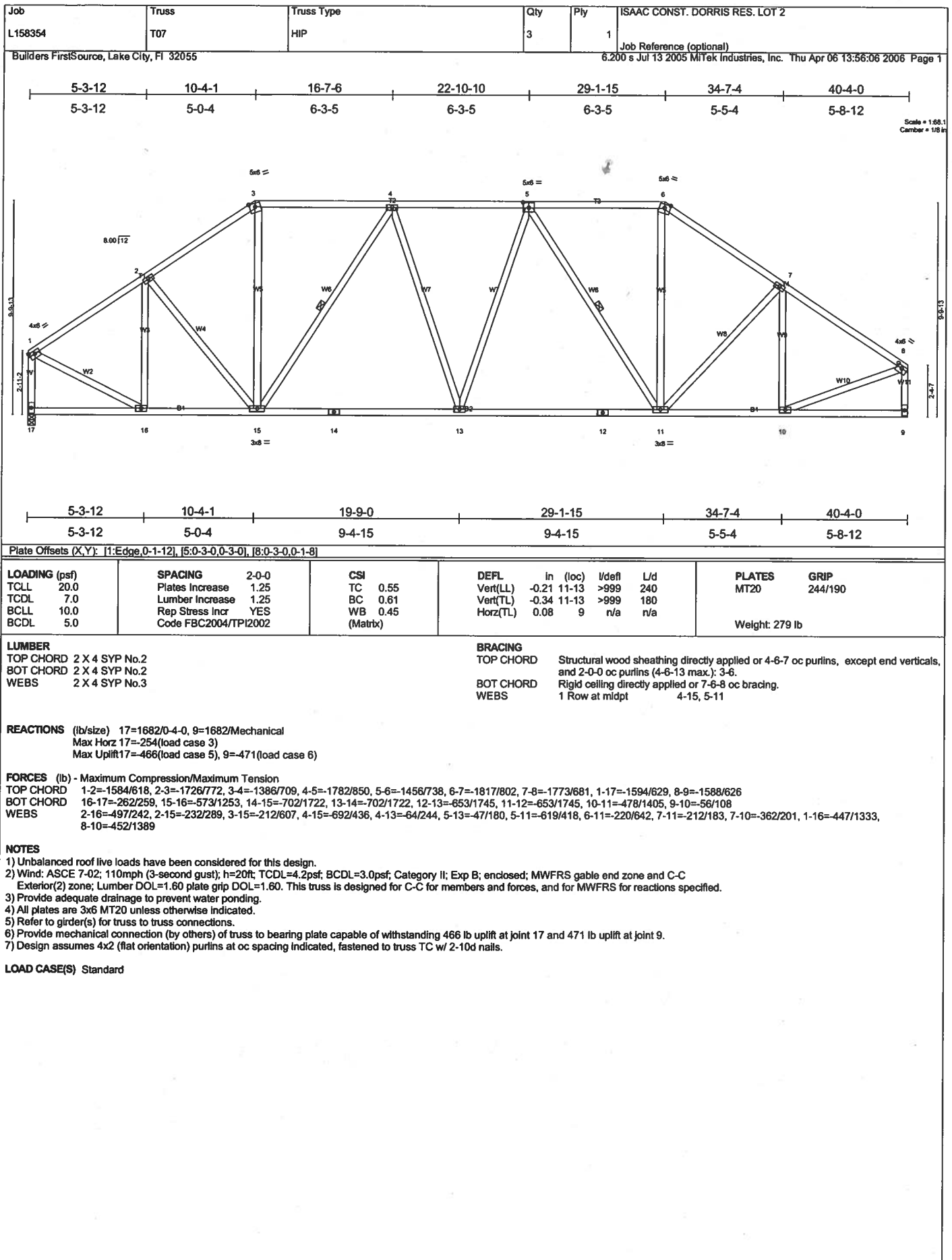
REACTIONS (lb/size) 19=1682/0-4-0, 10=1682/Mechanical
 Max Horz 19=-254(load case 3)
 Max Uplift 19=-530(load case 5), 10=-471(load case 6)

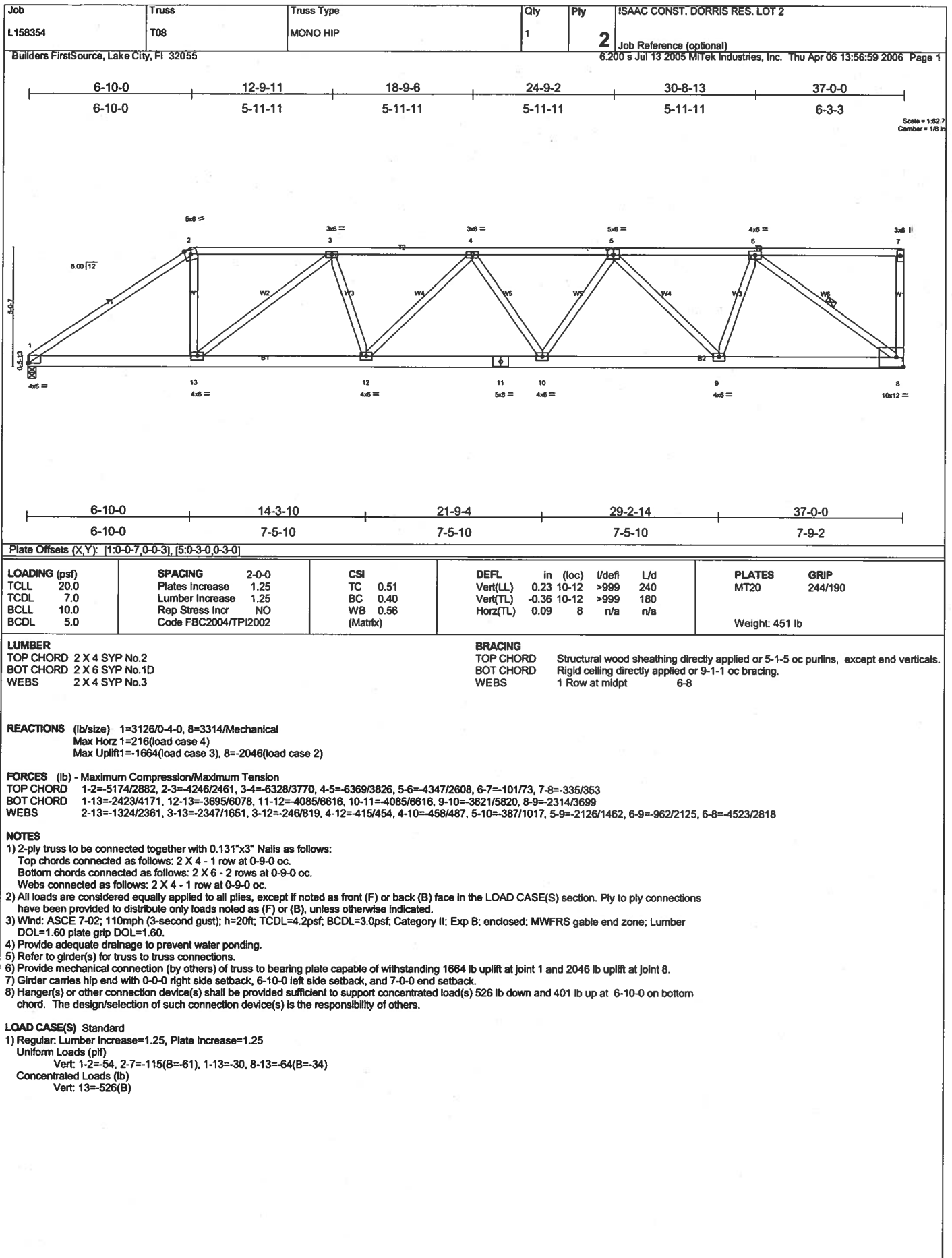
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-193/102, 2-3=-1708/739, 3-4=-1398/679, 4-5=-2123/994, 5-6=-1756/854, 6-7=-1447/737, 7-8=-1807/802, 8-9=-1778/679,
 1-19=-199/126, 9-10=-1593/624
 BOT CHORD 18-19=-473/1121, 17-18=-638/1961, 16-17=-638/1961, 15-16=-639/1959, 14-15=-541/1750, 13-14=-541/1750, 12-13=-541/1750,
 11-12=-476/1409, 10-11=-57/104
 WEBS 2-18=-241/433, 3-18=-177/575, 4-18=-876/414, 4-16=0/111, 4-15=-857/444, 5-15=-408/947, 6-15=-162/119, 6-14=0/177, 6-12=-671/347,
 7-12=-228/647, 8-12=-195/164, 8-11=-343/205, 2-19=-1699/653, 9-11=-450/1398

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 530 lb uplift at joint 19 and 471 lb uplift at joint 10.
- 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard





Job L158354	Truss T09	Truss Type MONO HIP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Apr 06 13:57:28 2006 Page 1		

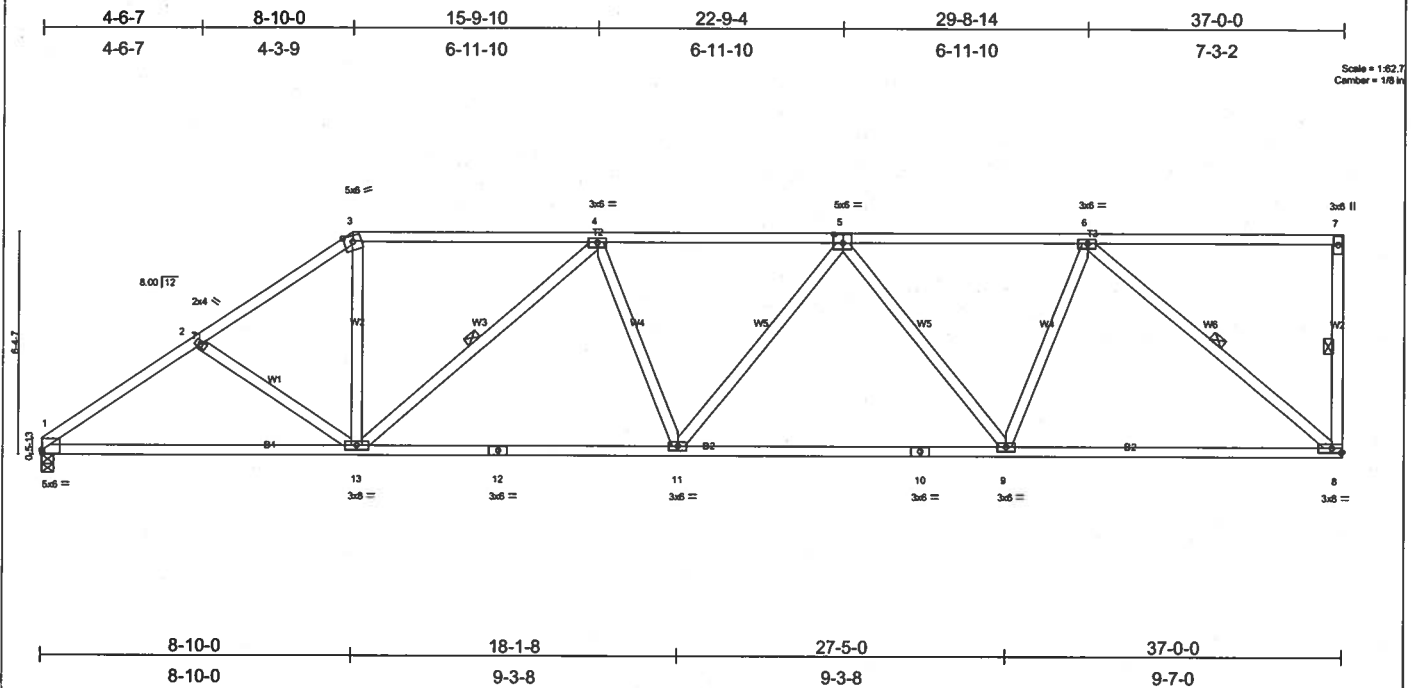


Plate Offsets (X,Y): [1:0-0-3,0-1-1], [5:0-3-0,0-3-0]					
LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	L/d	PLATES
TCLL 20.0	Plates Increase 1.25	TC 0.61	Vert(LL) -0.23 9-11 >999	240	MT20
TCCL 7.0	Lumber Increase 1.25	BC 0.69	Vert(TL) -0.38 9-11 >999	180	GRIP
BCCL 10.0	Rep Stress Incr YES	WB 0.80	Horz(TL) 0.12 8 n/a	n/a	244/190
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			Weight: 205 lb

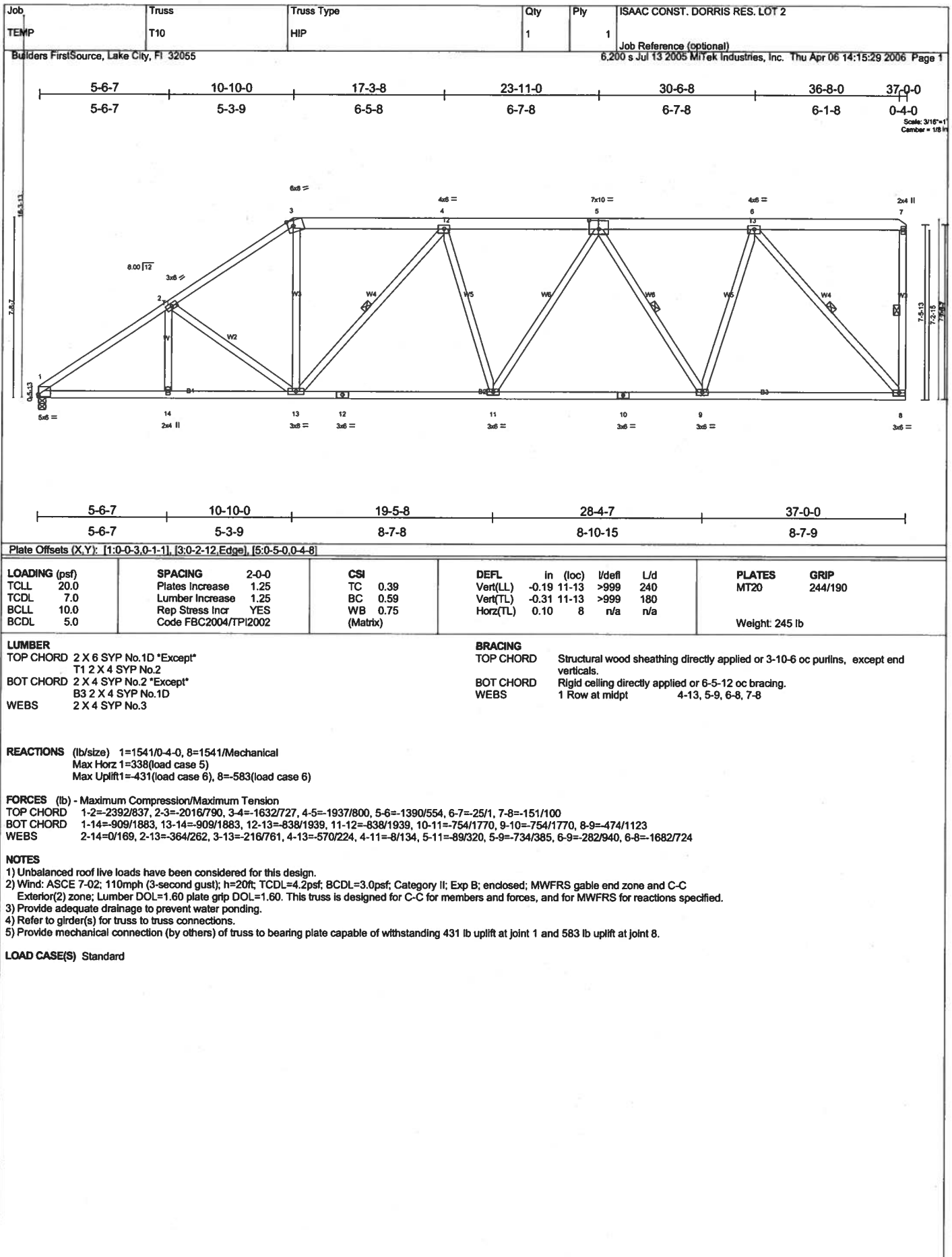
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-4-15 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 7-8, 4-13, 6-8

REACTIONS (lb/size) 1=1541/0-4-0, 8=1541/Mechanical
 Max Horz 1=280(load case 5)
 Max Uplift 1=-416(load case 4), 8=-670(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-2317/872, 2-3=-2151/833, 3-4=-1761/760, 4-5=-2343/948, 5-6=-1803/730, 6-7=-53/16, 7-8=-182/146
 BOT CHORD 1-13=-894/1845, 12-13=-979/2305, 11-12=-979/2305, 10-11=-931/2214, 9-10=-931/2214, 8-9=-654/1487
 WEBS 2-13=-133/210, 3-13=-239/845, 4-13=-729/496, 4-11=0/108, 5-11=40/213, 5-9=-677/365, 6-9=-242/888, 6-8=-1885/839

- 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 416 lb uplift at joint 1 and 670 lb uplift at joint 8.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T11	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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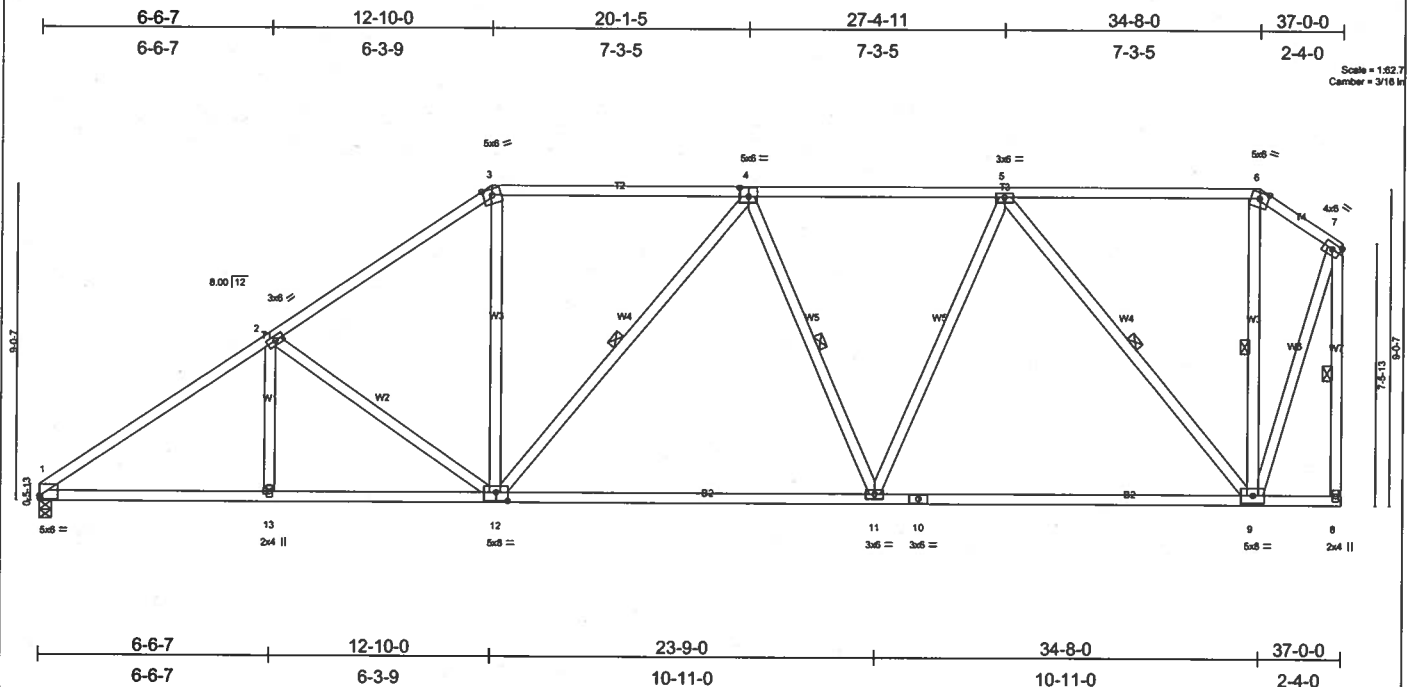


Plate Offsets (X,Y): [1:0-0,3,0-1-1], [4:0-3,0,0-3-0], [12:0-4,0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.71	Vert(LL) -0.30 11-12 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.79	Vert(TL) -0.51 11-12 >861 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.09 8 n/a n/a		
	Code FBC2004/TPI2002			Weight: 239 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-12, 4-11, 5-9, 6-9, 7-8

REACTIONS

(lb/size) 1=1541/0-4-0, 8=1541/Mechanical
 Max Horz 1=355(load case 5)
 Max Uplift 1=448(load case 4), 8=590(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-2365/822, 2-3=-1903/756, 3-4=-1516/709, 4-5=-1508/656, 5-6=-427/222, 6-7=-497/203, 7-8=-1597/596
 BOT CHORD 1-13=-882/1858, 12-13=-882/1858, 11-12=-744/1619, 10-11=-583/1254, 9-10=-583/1254, 8-9=-2/0
 WEBS 2-13=0/198, 2-12=-433/331, 3-12=-161/639, 4-12=-290/322, 4-11=-291/246, 5-11=-173/663, 5-9=-1313/651, 6-9=-56/141, 7-9=-566/1397

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 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 448 lb uplift at joint 1 and 590 lb uplift at joint 8.

LOAD CASE(S) Standard

Job L158354	Truss T13	Truss Type HIP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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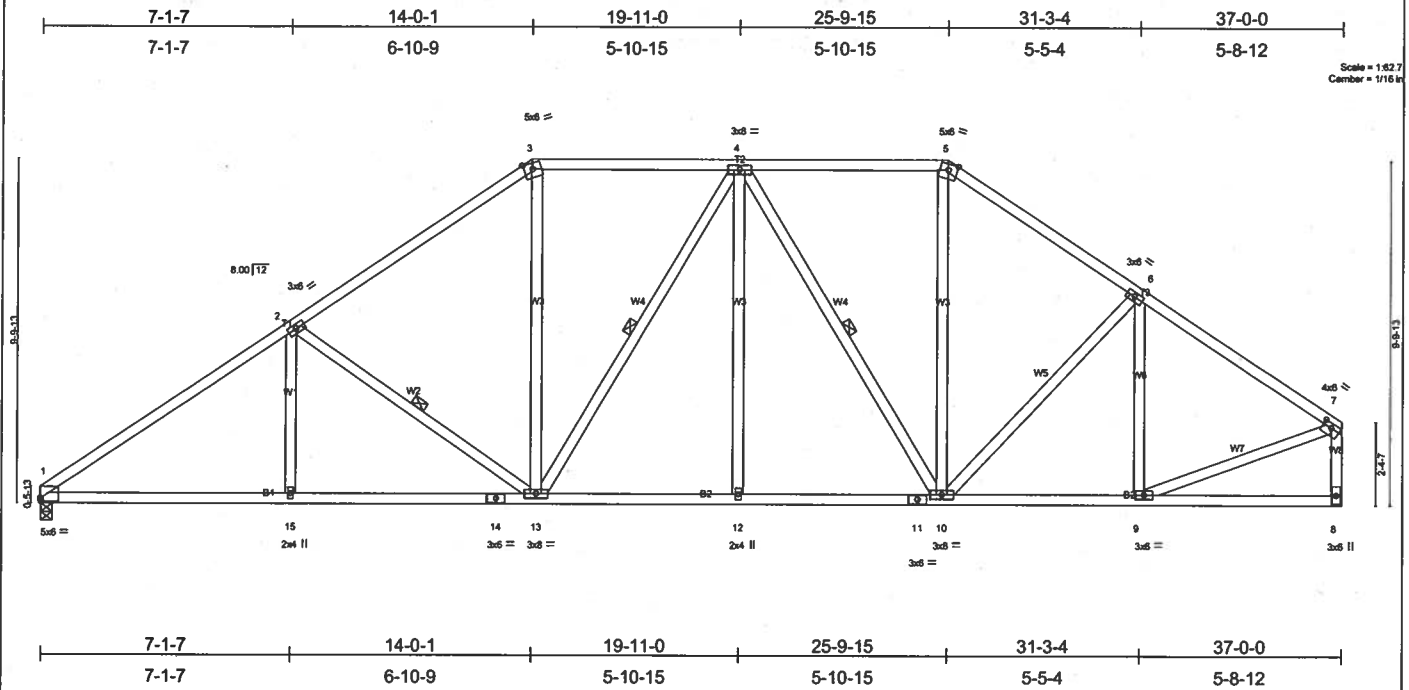


Plate Offsets (X,Y): [1:0-0-3,0-1-1], [7:0-3-0,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.53	Vert(LL) -0.14	1-15	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.61	Vert(TL) -0.22	1-15	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.08	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 242 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-4 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 7-3-14 oc bracing.
 WEBS 1 Row at midpt 2-13, 4-13, 4-10

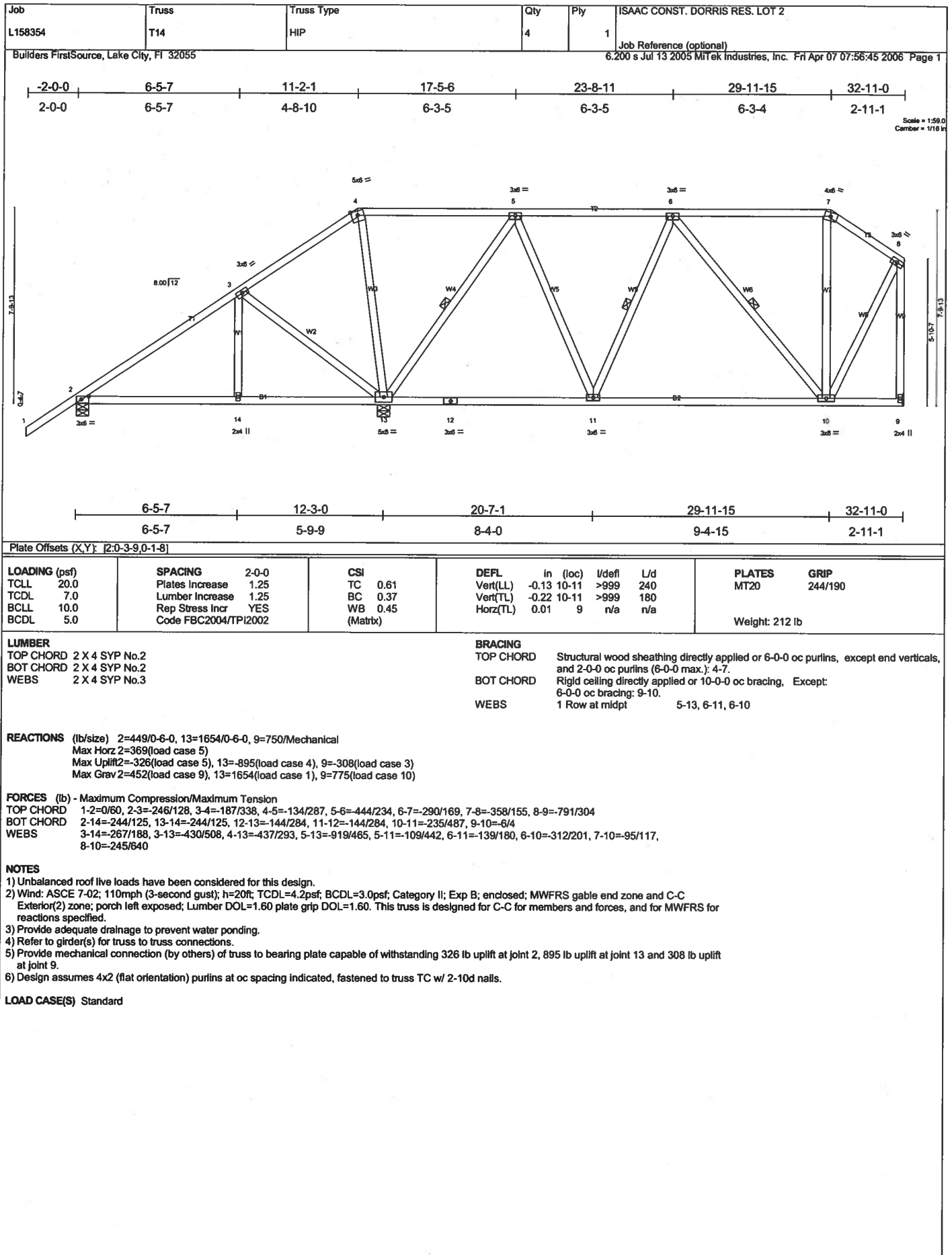
REACTIONS (lb/size) 1=1541/0-4-0, 8=1541/Mechanical
 Max Horz 1=322(load case 4)
 Max Uplift 1=463(load case 5), 8=442(load case 6)

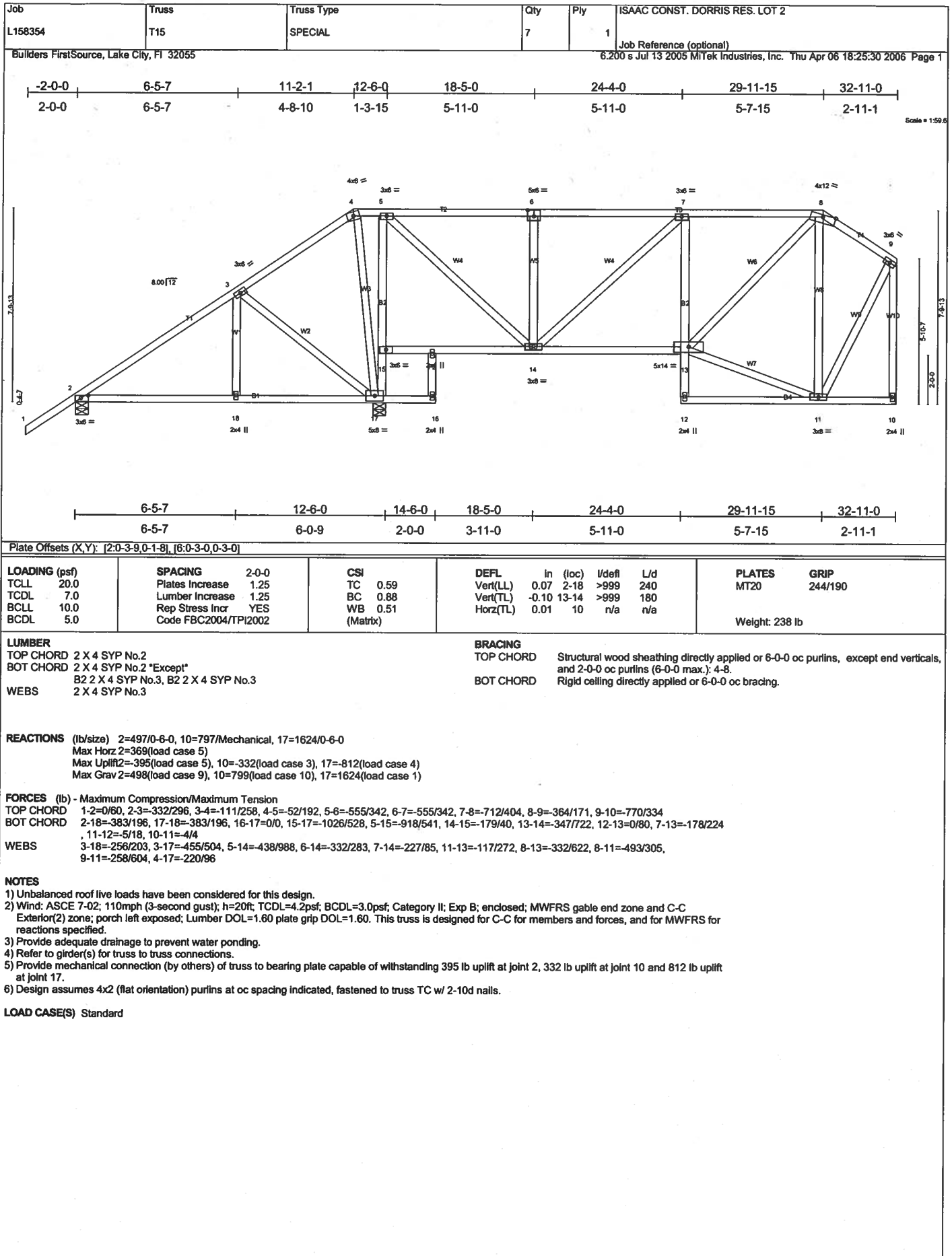
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-2359/850, 2-3=-1816/779, 3-4=-1429/732, 4-5=-1282/674, 5-6=-1611/727, 6-7=-1617/817, 7-8=-1452/570
 BOT CHORD 1-15=-675/1851, 14-15=-675/1851, 13-14=-675/1851, 12-13=-492/1497, 11-12=-492/1497, 10-11=-492/1497, 9-10=-425/1275, 8-9=-56/102
 WEBS 2-15=0/250, 2-13=-531/363, 3-13=-183/602, 4-13=-276/279, 4-12=0/167, 4-10=-508/314, 5-10=-181/535, 6-10=-187/173, 6-9=-292/184, 7-9=-395/1257

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TC:DL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 463 lb uplift at joint 1 and 442 lb uplift at joint 8.
- 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard





Job L158354	Truss T16	Truss Type SPECIAL	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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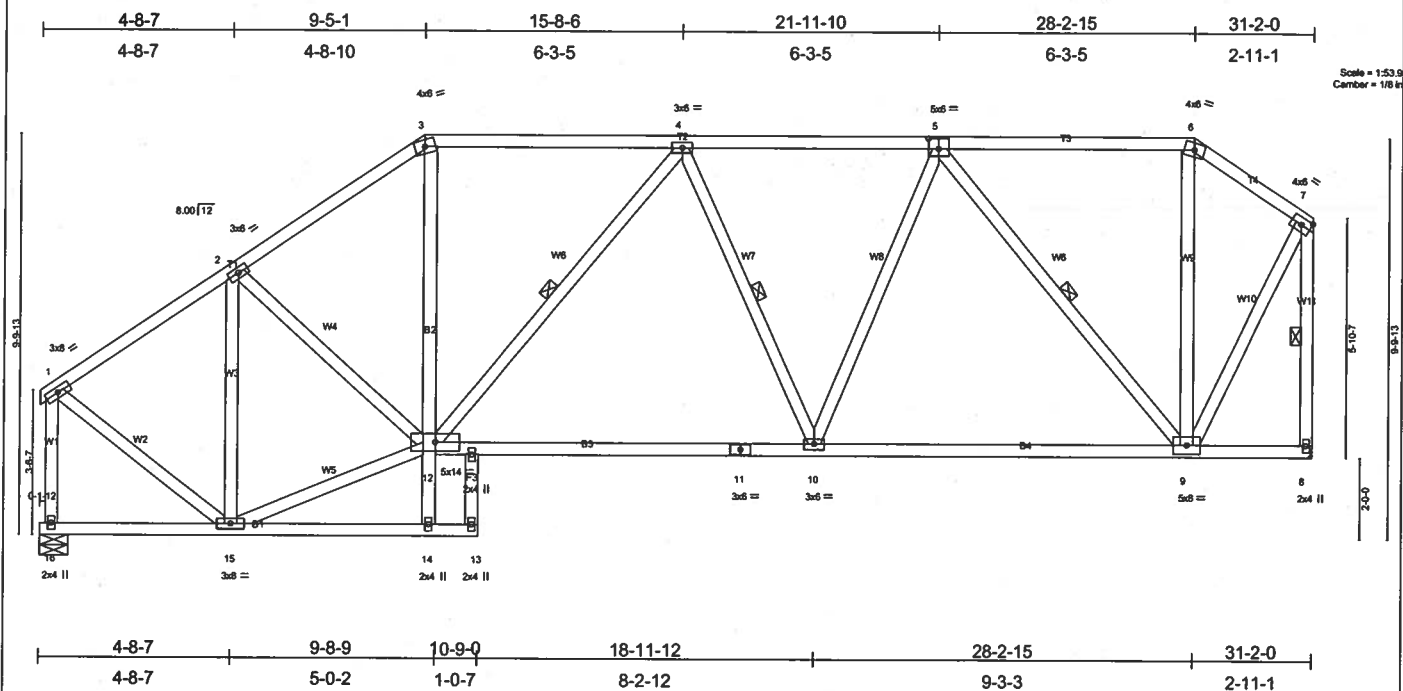


Plate Offsets (X,Y): [5-0-3,0,0-3-0]

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 0.55	Vert(LL) -0.18 10-12 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.57	Vert(TL) -0.30 10-12 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.07 8 n/a n/a		
	Code FBC2004/TP12002			Weight: 232 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 5-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 3-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-12, 4-10, 5-9, 7-8

REACTIONS (lb/size) 16=1315/0-8-8, 8=1302/Mechanical

Max Horz 16=301(load case 5)
 Max Uplift 16=371(load case 4), 8=471(load case 4)

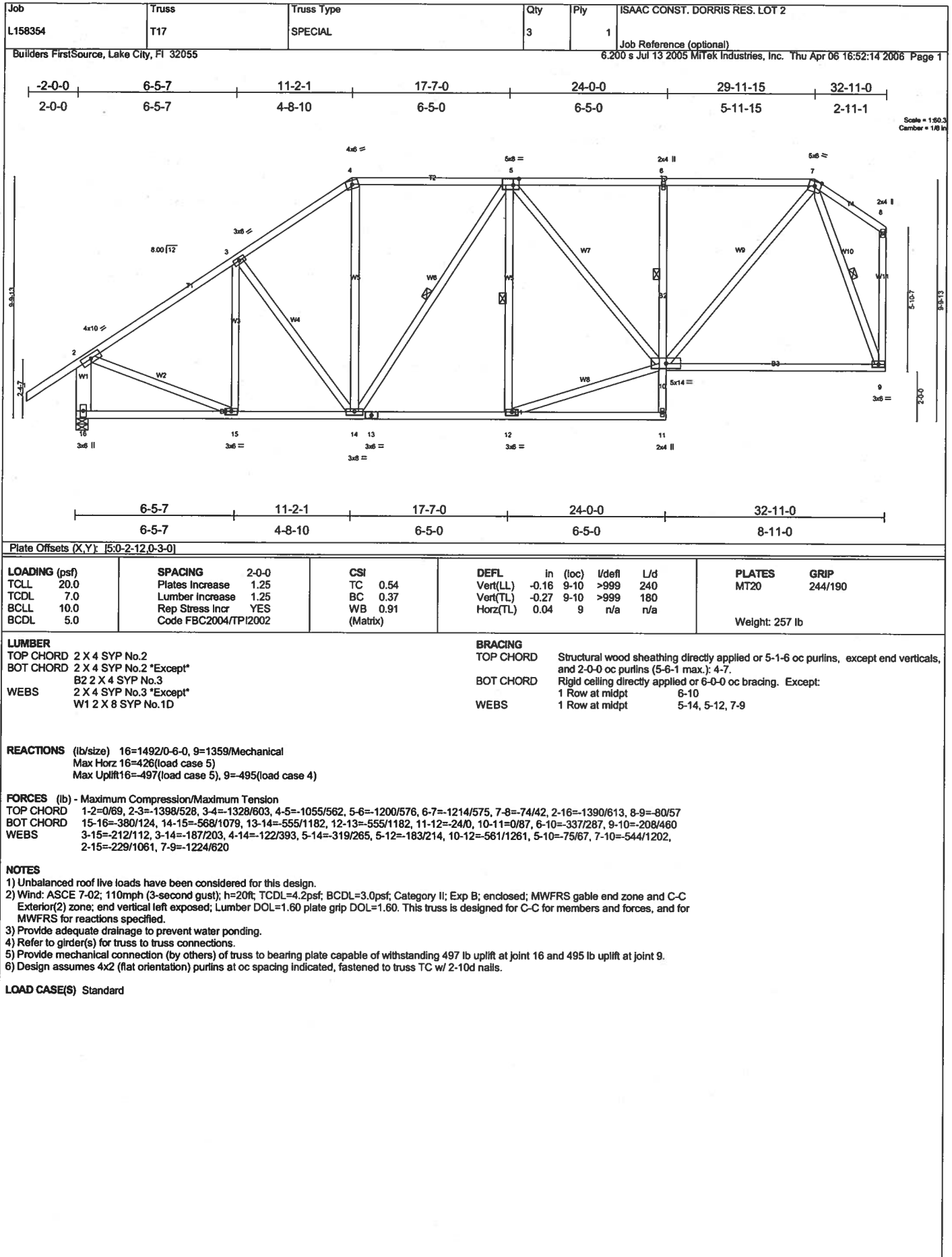
FORCES (lb) - Maximum Compression/Maximum Tension

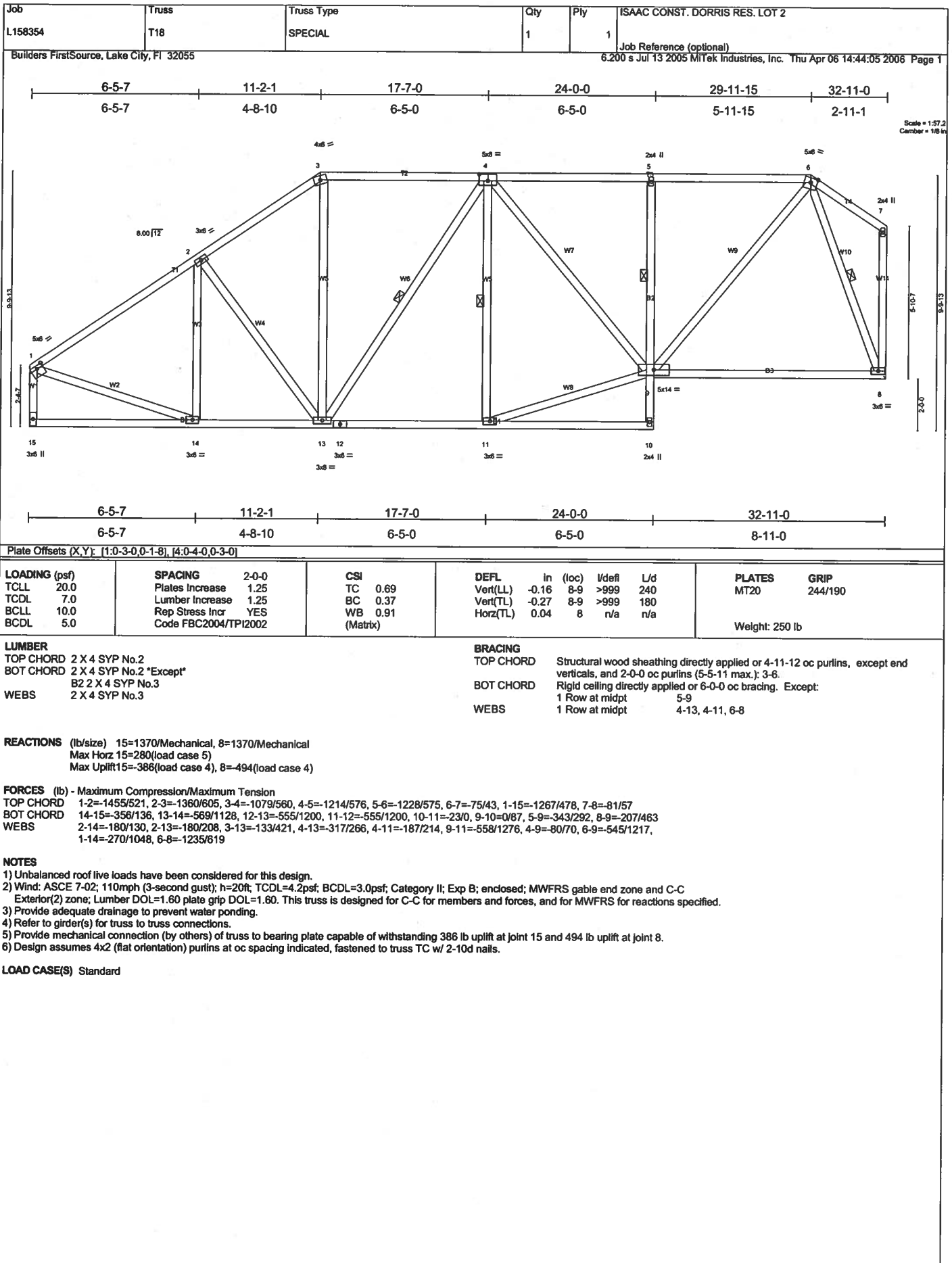
TOP CHORD 1-2=-1033/410, 2-3=-1466/653, 3-4=-1187/608, 4-5=-1294/599, 5-6=-493/266, 6-7=-600/261, 1-16=-1250/442, 7-8=-1308/520
 BOT CHORD 15-16=-279/121, 14-15=-41/0, 13-14=0/106, 12-14=0/106, 3-12=-148/472, 11-12=-659/1352, 10-11=-659/1352, 9-10=-538/1124, 8-9=-4/3
 WEBS 2-15=-802/356, 12-15=-466/915, 2-12=-224/486, 4-12=-337/317, 4-10=-149/189, 5-10=-124/464, 5-9=-1010/536, 6-9=0/90, 1-15=-239/975, 7-9=-442/1069

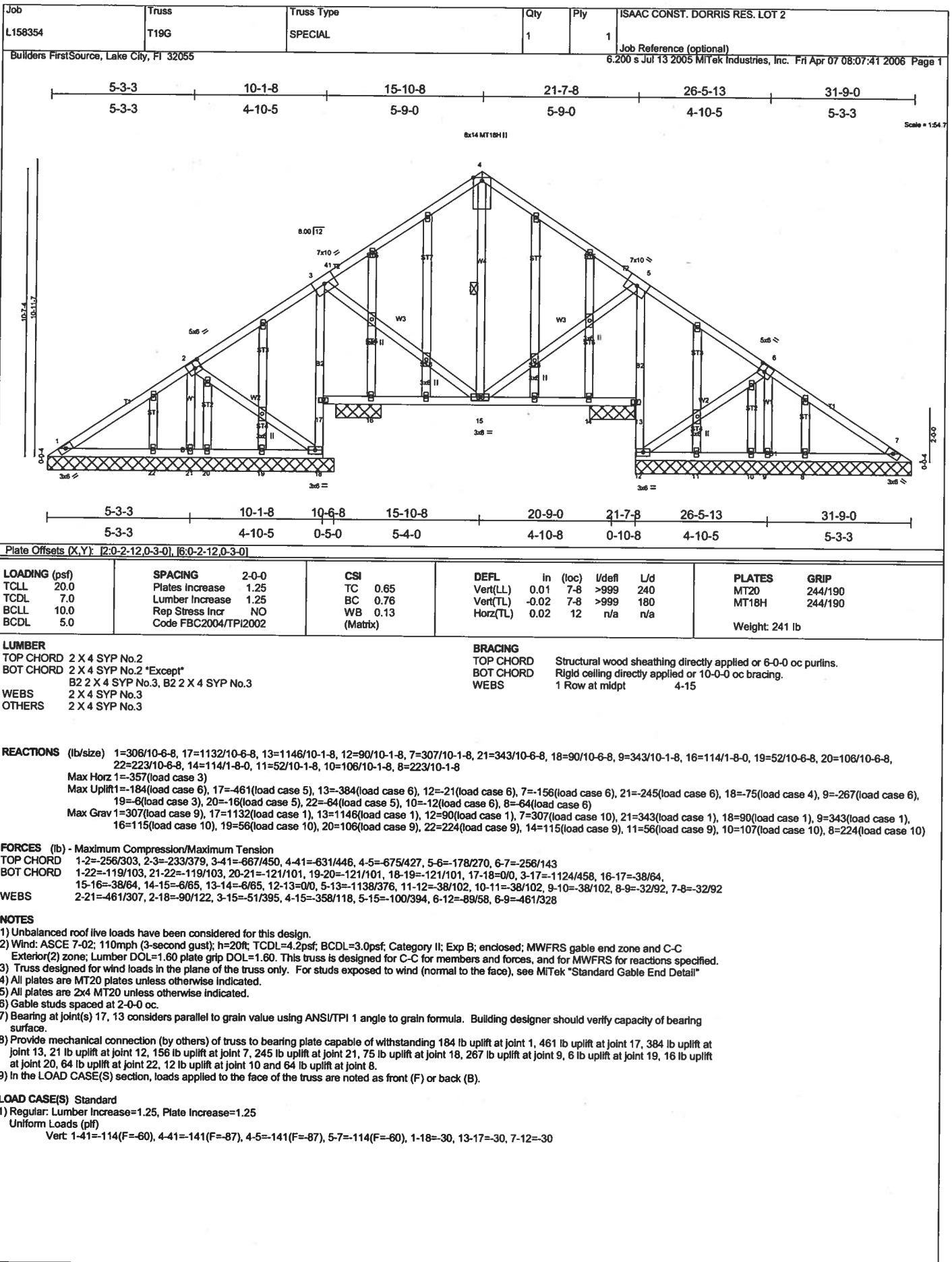
NOTES

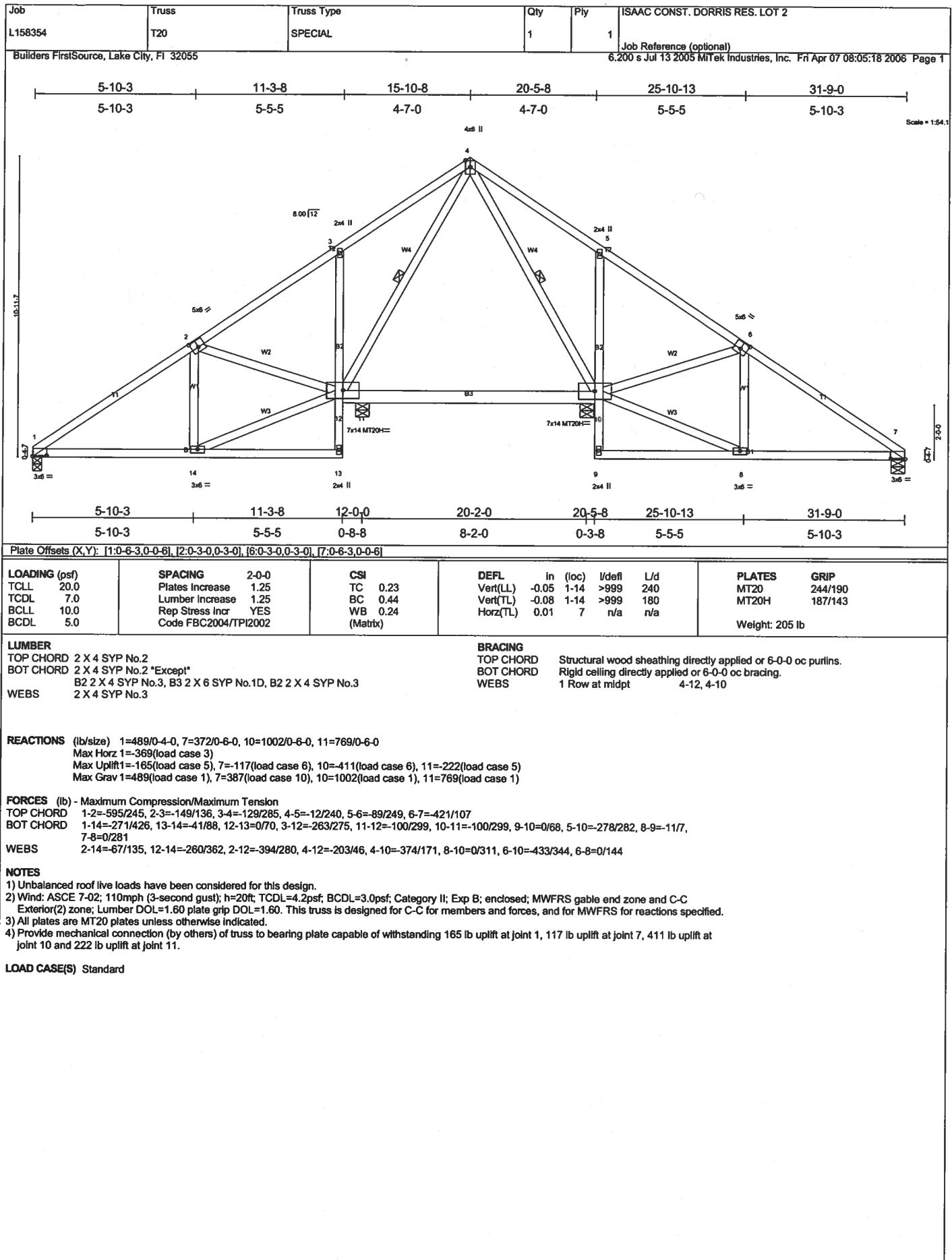
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 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 371 lb uplift at joint 16 and 471 lb uplift at joint 8.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard









Job L158354	Truss T21	Truss Type SPECIAL	Qty 5	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
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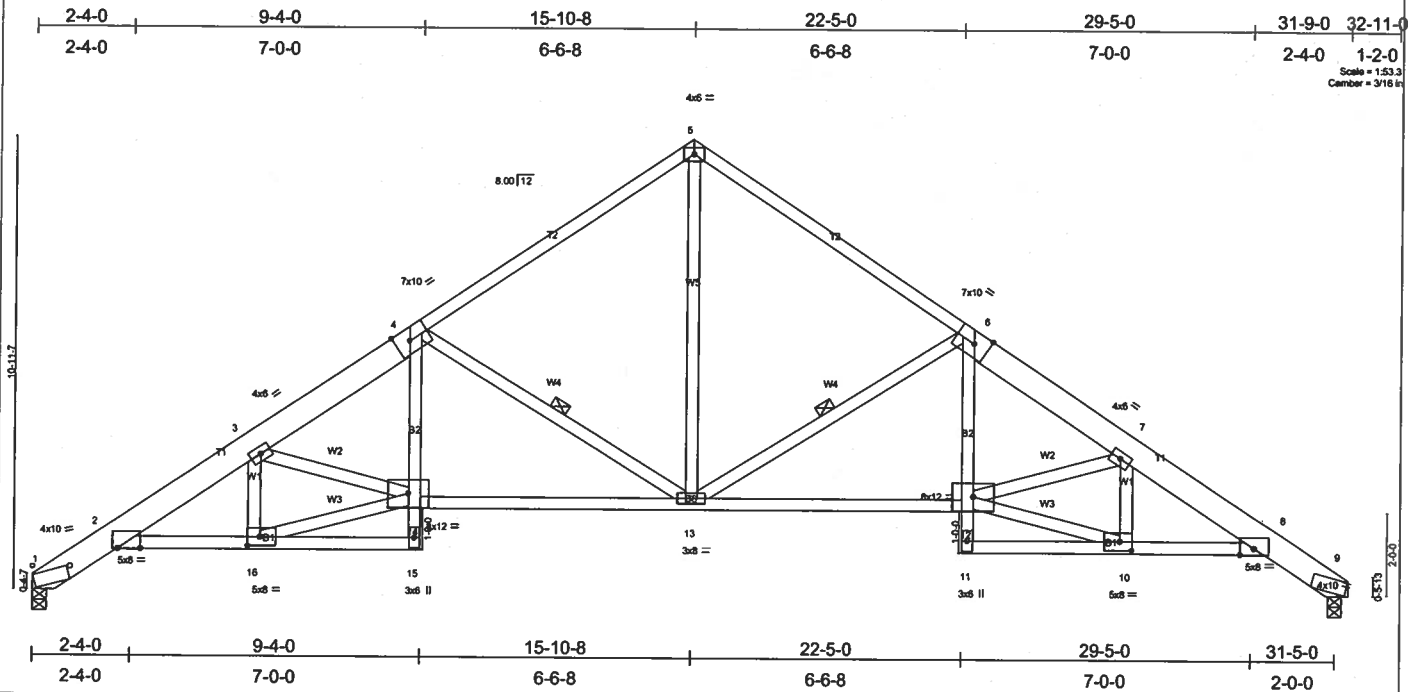


Plate Offsets (X,Y): [2:1-10-3,0-11-6], [2:1-2-9,0-1-7], [2:0-6-10,Edge], [4:0-4-4,Edge], [6:0-4-4,Edge], [10:0-3-8,0-2-8], [16:0-3-8,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.81	Vert(LL) -0.29 13-14 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.78	Vert(TL) -0.48 13-14 >789 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.40 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 212 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 "Except"
T1 2 X 8 SYP 2400F 2.0E, T1 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2 "Except"
B2 2 X 4 SYP No.3, 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.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 1 Row at midpt 4-13, 6-13

REACTIONS

(lb/size) 1=1285/0-4-0, 9=1285/0-4-0
Max Horz 1=370(load case 4)
Max Uplift 1=416(load case 5), 9=416(load case 6)

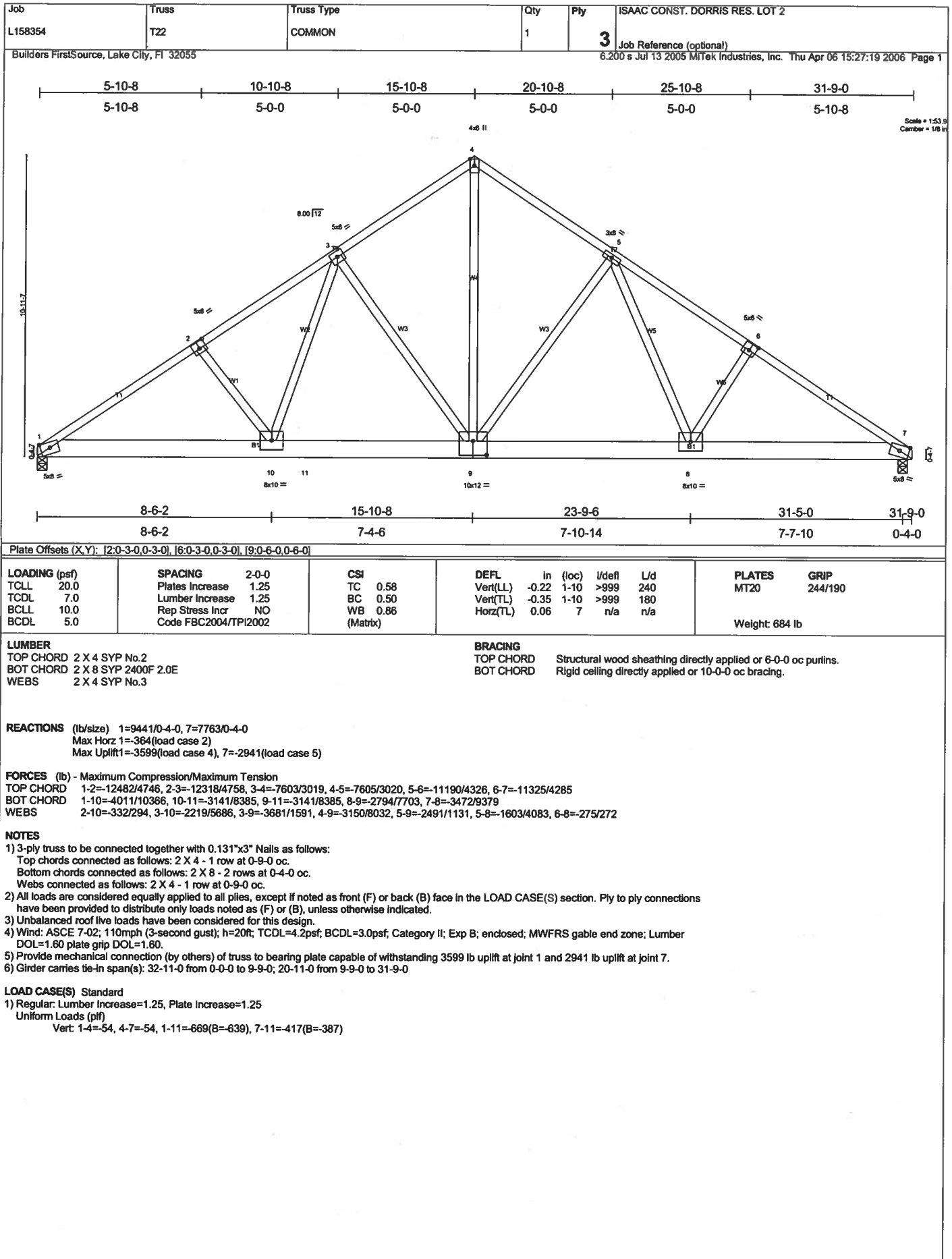
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-613/317, 2-3=-2683/918, 3-4=-2675/941, 4-5=-1599/639, 5-6=-1599/639, 6-7=-2675/941, 7-8=-2683/918, 8-9=-613/234
BOT CHORD 2-16=-861/2454, 15-16=-62/110, 14-15=0/65, 4-14=-268/954, 13-14=-698/2212, 12-13=-588/2212, 11-12=0/65, 6-12=-237/954,
10-11=-55/110, 8-10=-752/2454
WEBS 4-13=-1122/565, 5-13=-454/1300, 6-13=-1122/514, 3-16=-491/225, 14-16=-829/2433, 3-14=-326/191, 7-10=-491/198, 7-12=-326/200,
10-12=-722/2433

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, 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 416 lb uplift at joint 1 and 416 lb uplift at joint 9.

LOAD CASE(S) Standard



Job L158354	Truss T23	Truss Type HIP	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

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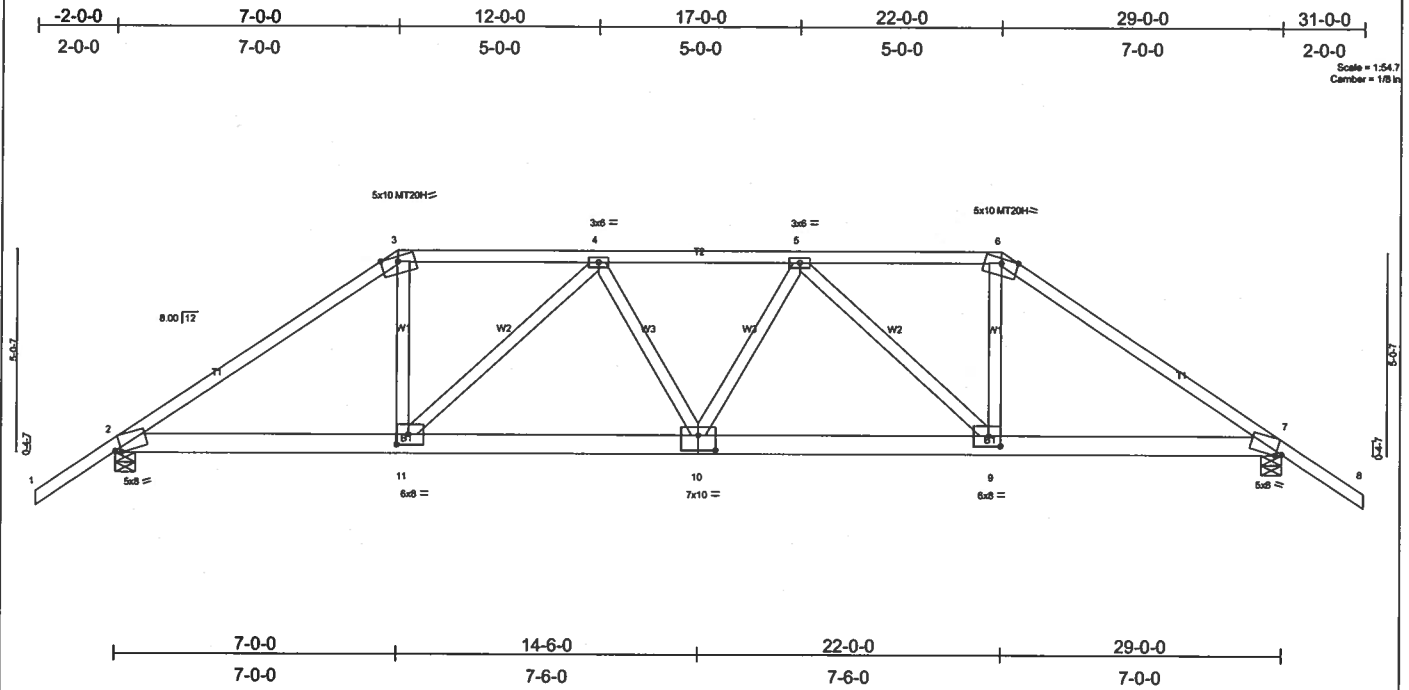


Plate Offsets (X,Y): [2:0-1-13,Edge], [7:0-1-13,Edge], [9:0-3-8,0-3-0], [10:0-5-0,0-4-8], [11:0-3-8,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.70	Vert(LL) 0.21	10	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.56	Vert(TL) -0.34	10-11	>999	180		MT20H	187/143
BCCL 10.0	Rep Stress Incr NO	WB 0.99	Horz(TL) 0.10	7	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 169 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 2-9-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-3-15 oc bracing.

REACTIONS (lb/size) 2=2561/0-6-0, 7=2561/0-6-0
 Max Horz 2=-169(load case 2)
 Max Uplift 2=-1413(load case 4), 7=-1413(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/63, 2-3=-3957/2252, 3-4=-3232/1949, 4-5=-4215/2472, 5-6=-3232/1949, 6-7=-3957/2253, 7-8=0/63
 BOT CHORD 2-11=-1914/3178, 10-11=-2506/4080, 9-10=-2469/4080, 7-9=-1749/3178
 WEBS 3-11=-962/1743, 4-11=-1256/956, 4-10=0/313, 5-10=0/313, 5-9=-1256/956, 6-9=-962/1743

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; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1413 lb uplift at joint 2 and 1413 lb uplift at joint 7.
- Girder carries hip end with 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 410 lb up at 22-0-0, and 539 lb down and 410 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

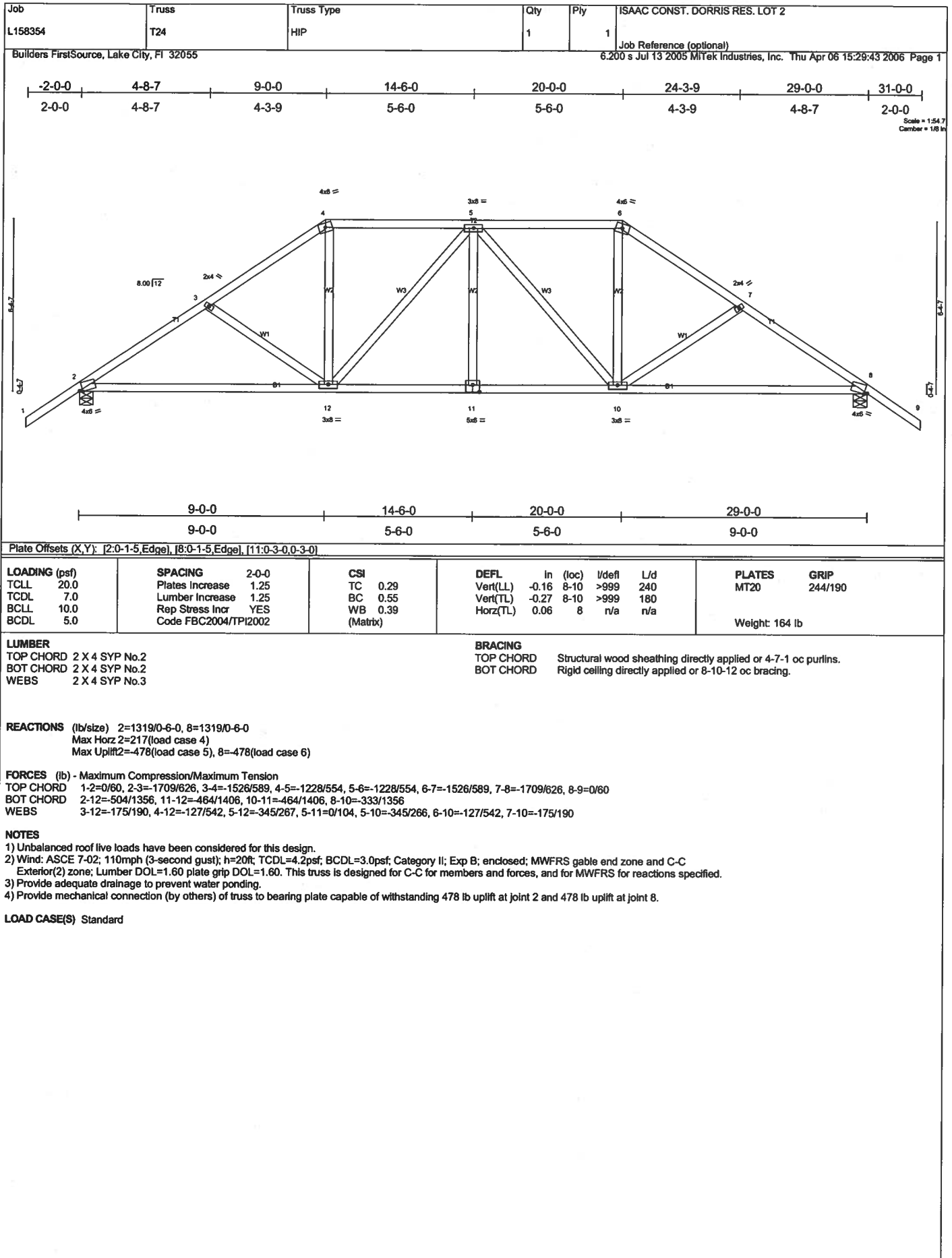
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

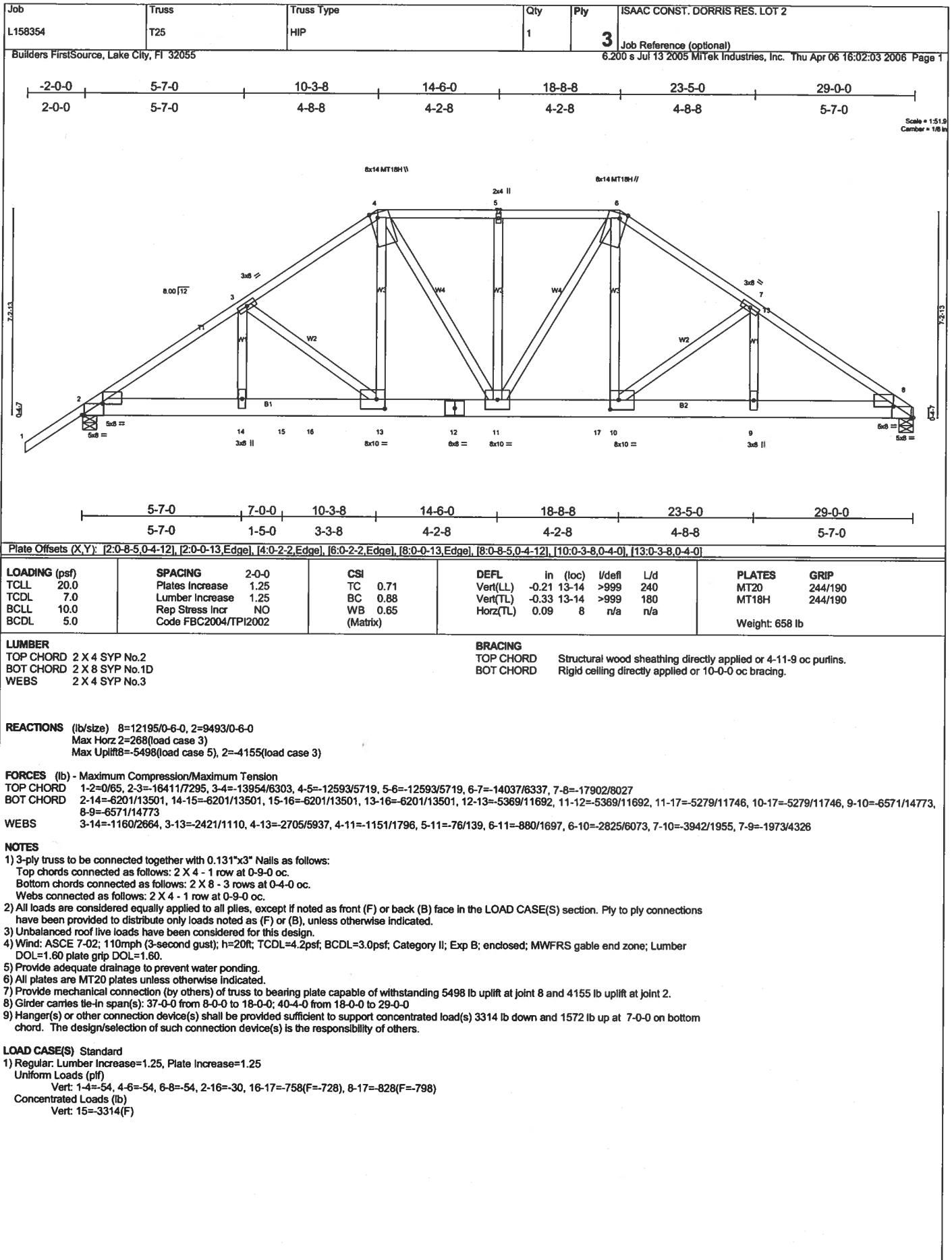
Uniform Loads (plf)

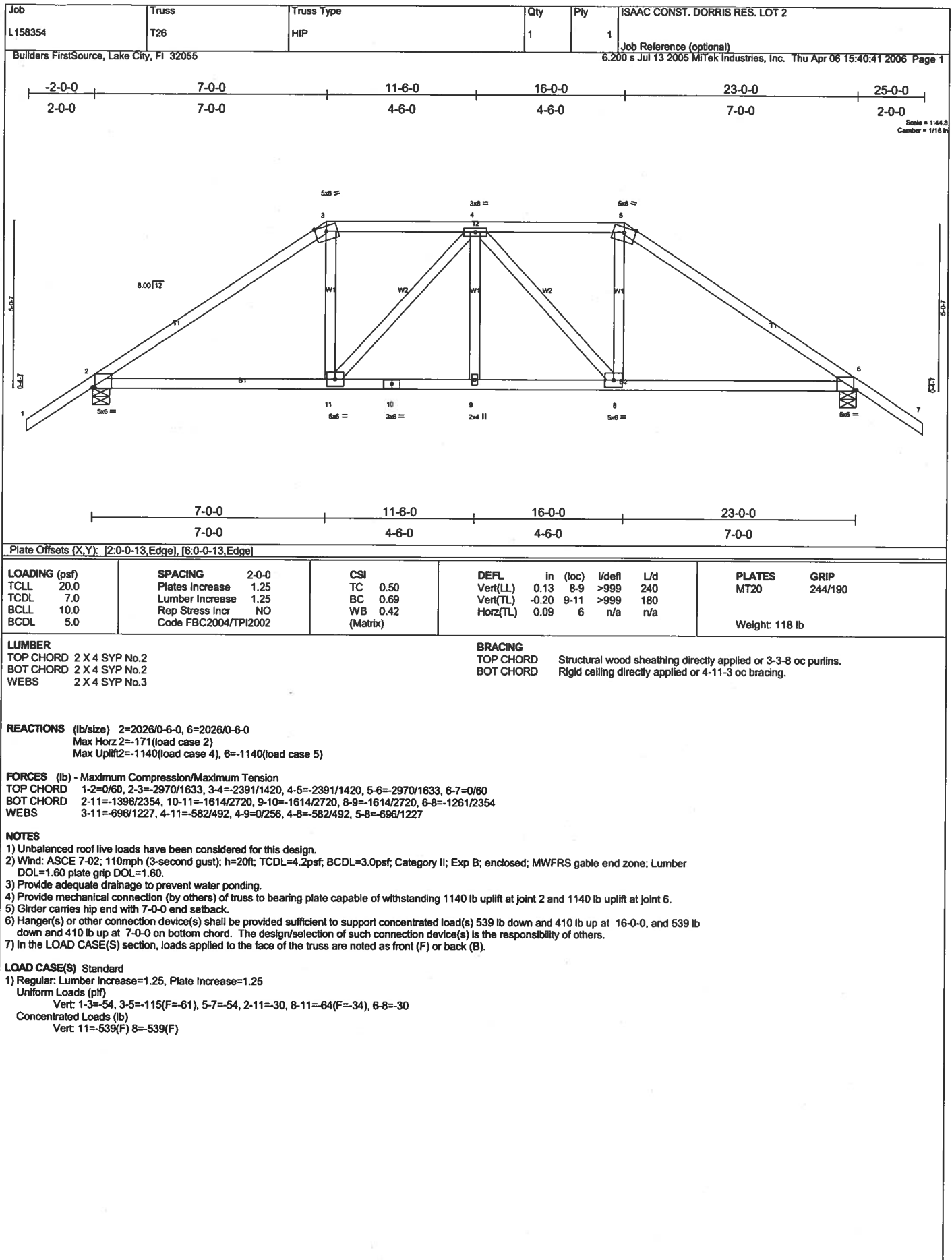
Vert: 1-3=-54, 3-6=-115(F=61), 6-8=-54, 2-11=-30, 9-11=-64(F=-34), 7-9=-30

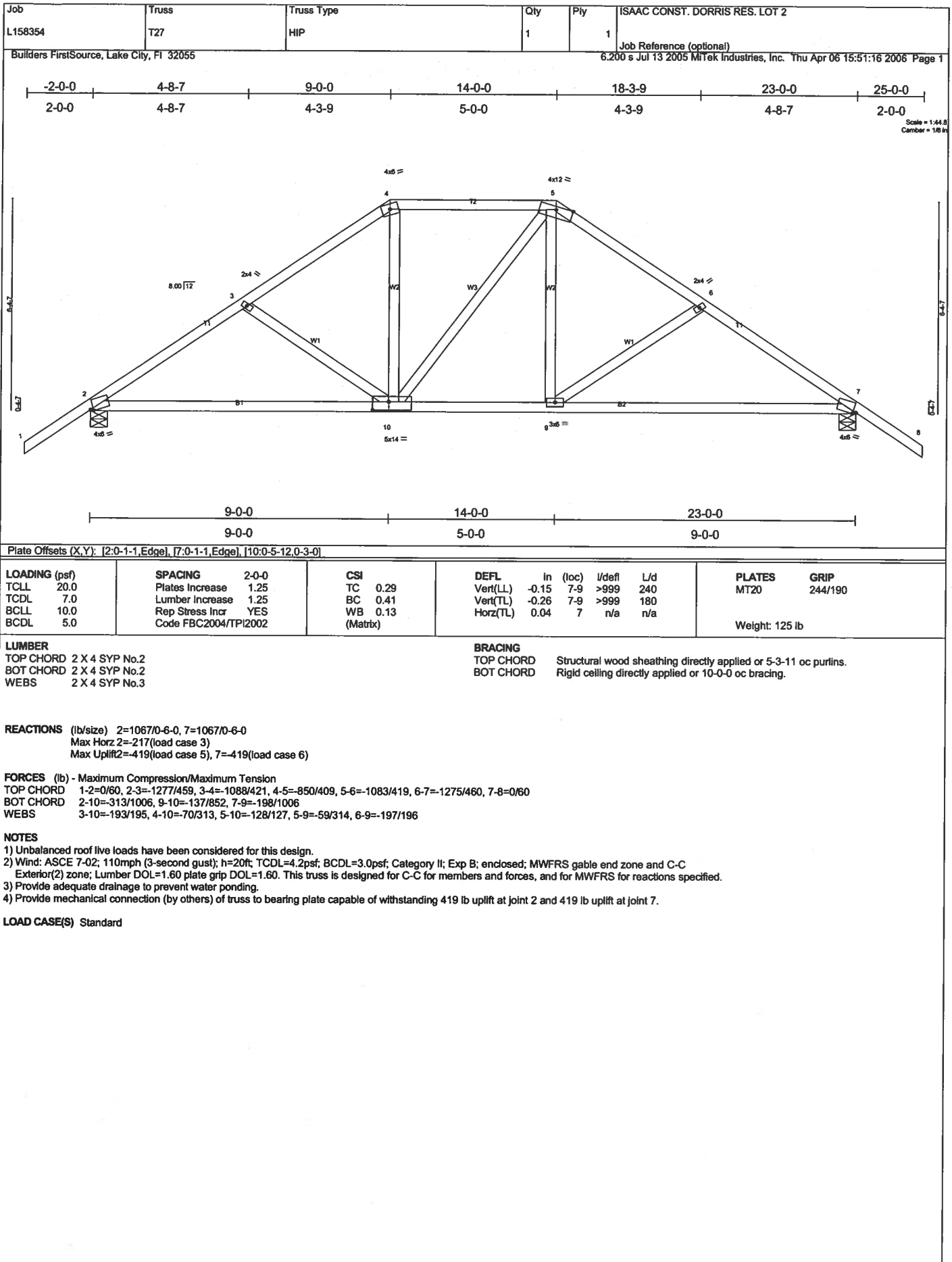
Concentrated Loads (lb)

Vert: 11=-539(F) 9=-539(F)









Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T28	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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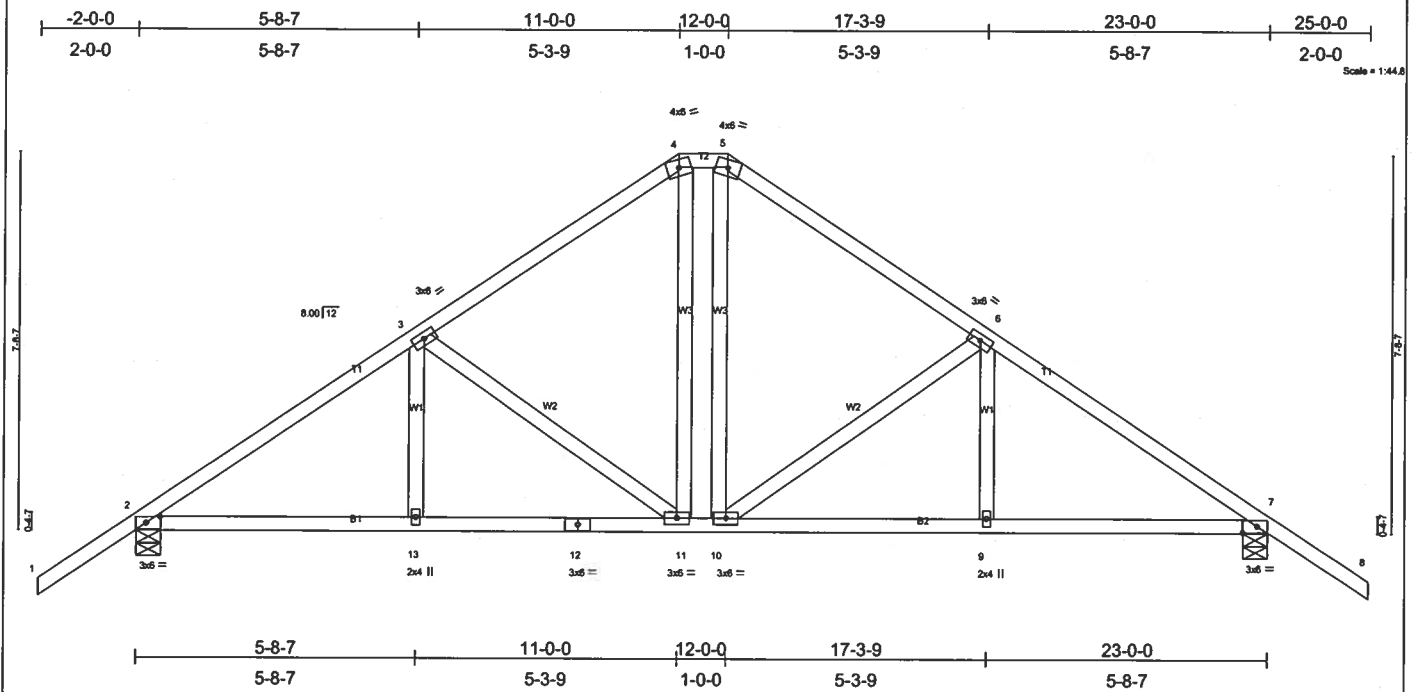


Plate Offsets (X,Y): [2-0-3-9,0-1-8], [7-0-3-9,0-1-8]

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 0.29	Vert(LL) -0.06 9-10 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.32	Vert(TL) -0.10 9-10 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.04 7 n/a n/a		
	Code FBC2004/TPI2002				
				Weight: 133 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

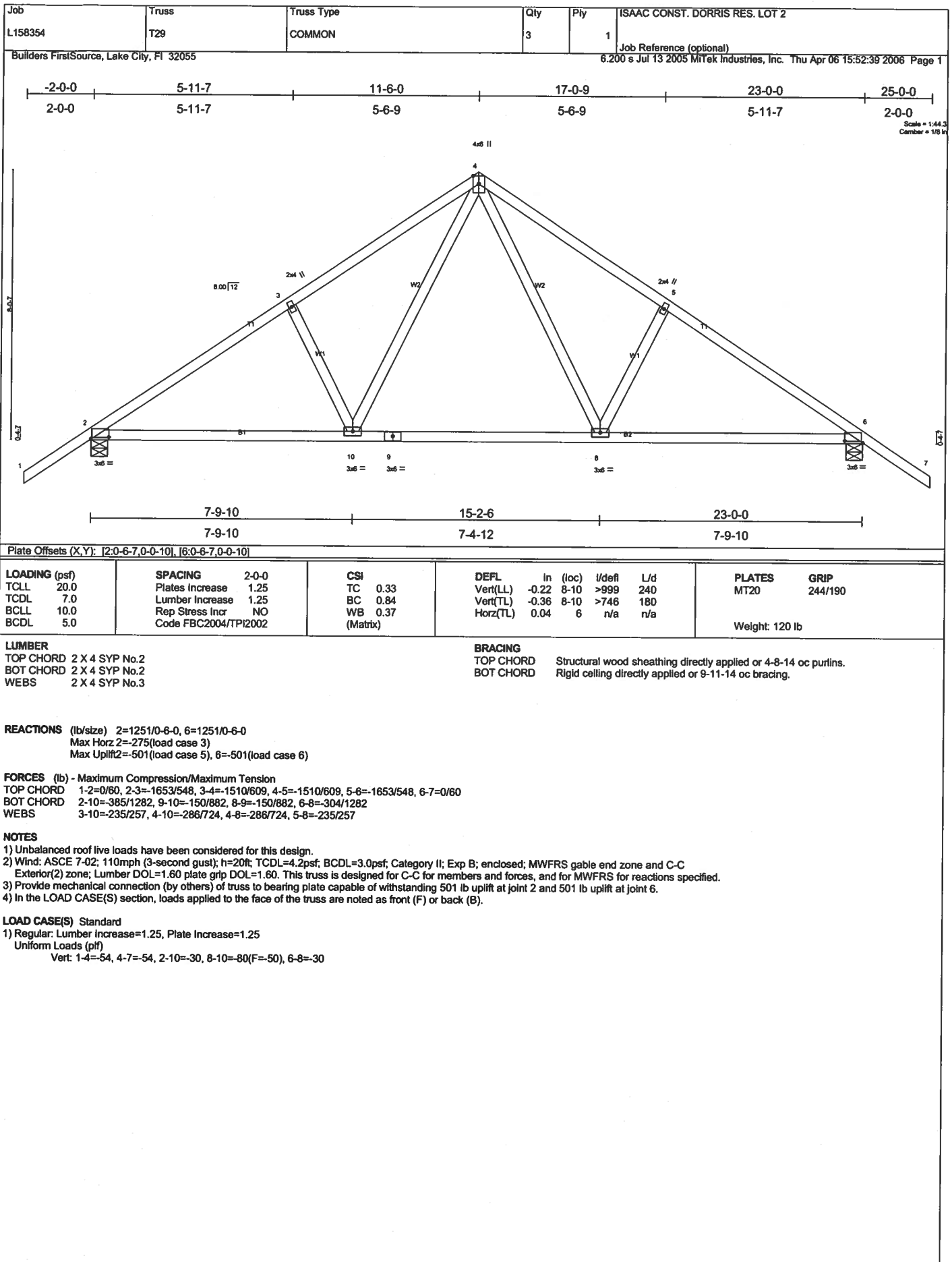
REACTIONS (lb/size) 2=1067/0-6-0, 7=1067/0-6-0
 Max Horz 2=-264(load case 3)
 Max Uplift 2=429(load case 5), 7=429(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/60, 2-3=-1345/419, 3-4=-943/399, 4-5=-721/398, 5-6=-943/399, 6-7=-1345/419, 7-8=0/60
 BOT CHORD 2-13=-269/1032, 12-13=-269/1032, 11-12=-269/1032, 10-11=-74/721, 9-10=-188/1032, 7-9=-188/1032
 WEBS 3-13=0/186, 3-11=-411/240, 4-11=-132/331, 5-10=-132/331, 6-10=-411/241, 6-9=0/186

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 adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 2 and 429 lb uplift at joint 7.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T30	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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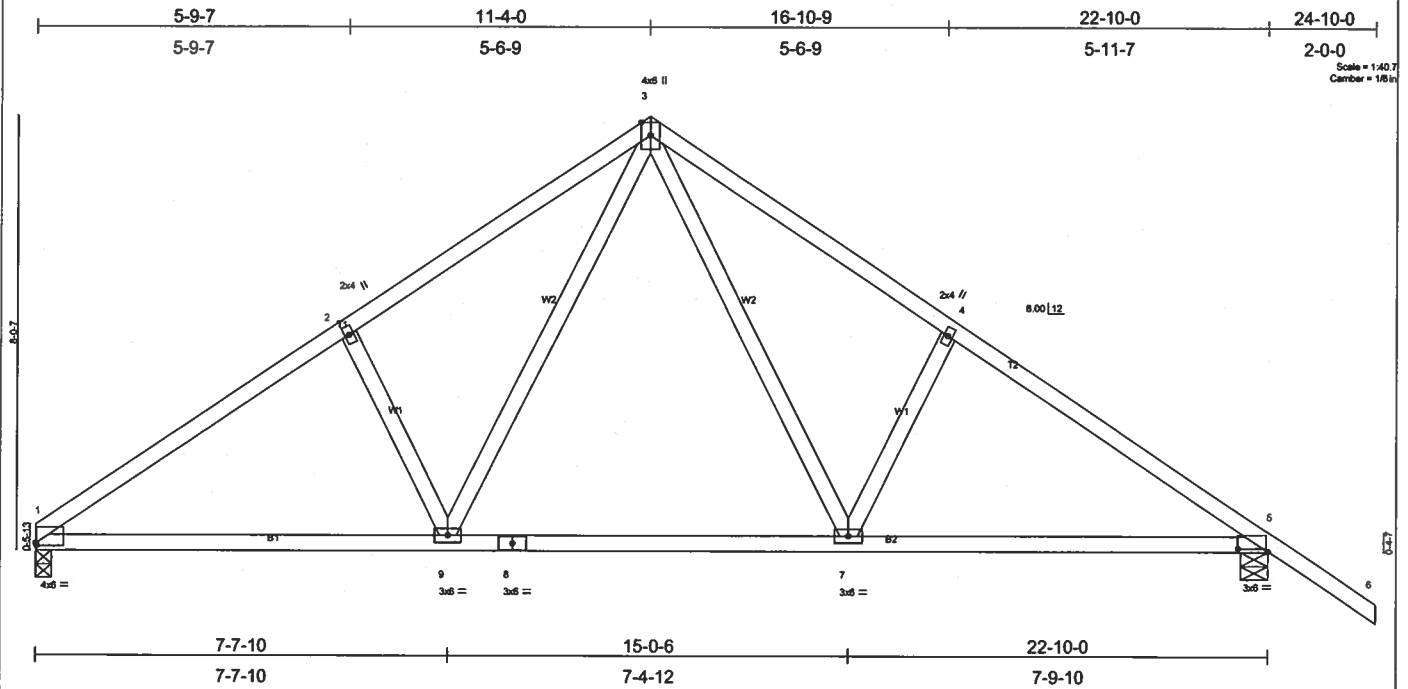


Plate Offsets (X,Y): [1:0-0-3,0-0-9], [5:0-6-7,0-0-10]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.88	Vert(LL) -0.22 7-9 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.42	Vert(TL) -0.35 7-9 >763 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.04 5 n/a n/a		
	Code FBC2004/TPI2002			Weight: 116 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.

REACTIONS (lb/size) 1=1122/0-3-8, 5=1254/0-6-0
 Max Horz 1=-297(load case 3)
 Max Uplift 1=-365(load case 5), 5=-503(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 3-4=-1515/622, 4-5=-1657/561, 5-6=0/60, 1-2=-1669/584, 2-3=-1528/649
 BOT CHORD 1-9=-423/1297, 8-9=-162/886, 7-8=-162/886, 5-7=-314/1286
 WEBS 4-7=-235/257, 3-7=-285/724, 3-9=-327/746, 2-9=-242/276

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 365 lb uplift at joint 1 and 503 lb uplift at joint 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 3-6=-54, 1-3=-54, 1-9=-30, 7-9=-80(F=50), 5-7=-30

Job L158354	Truss T31	Truss Type COMMON	Qty 2	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 16:02:25 2006 Page 1		

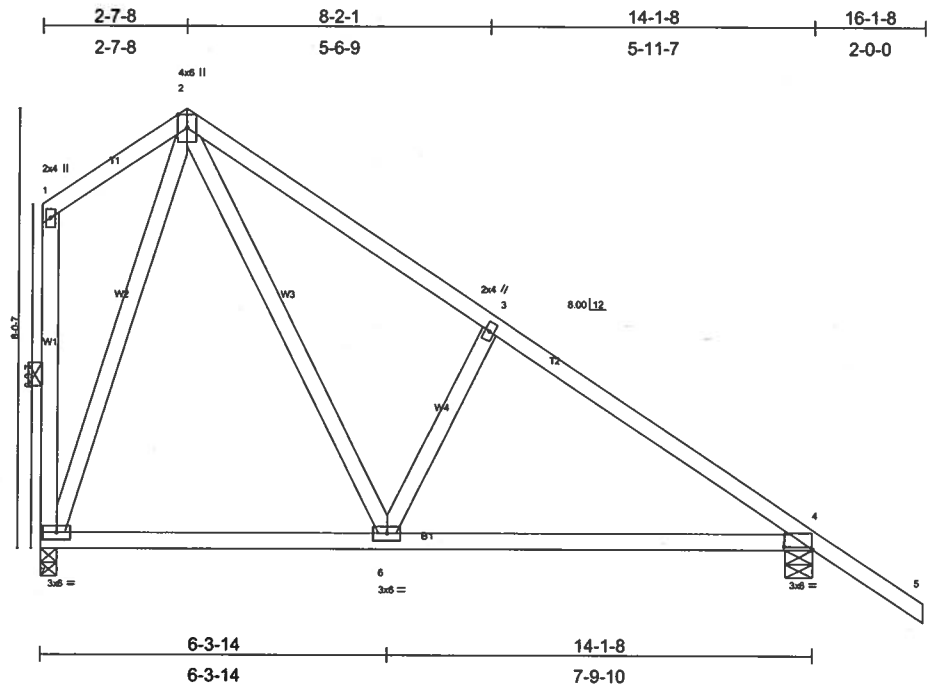


Plate Offsets (X,Y): 4-0-6-3,0-0-10

LOADING (psf)	SPACING	CSI	DEFL	In	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	-0.07	4-6	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.28	Vert(TL)	-0.13	4-6	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.54	Horz(TL)	0.01	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 89 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 1-7

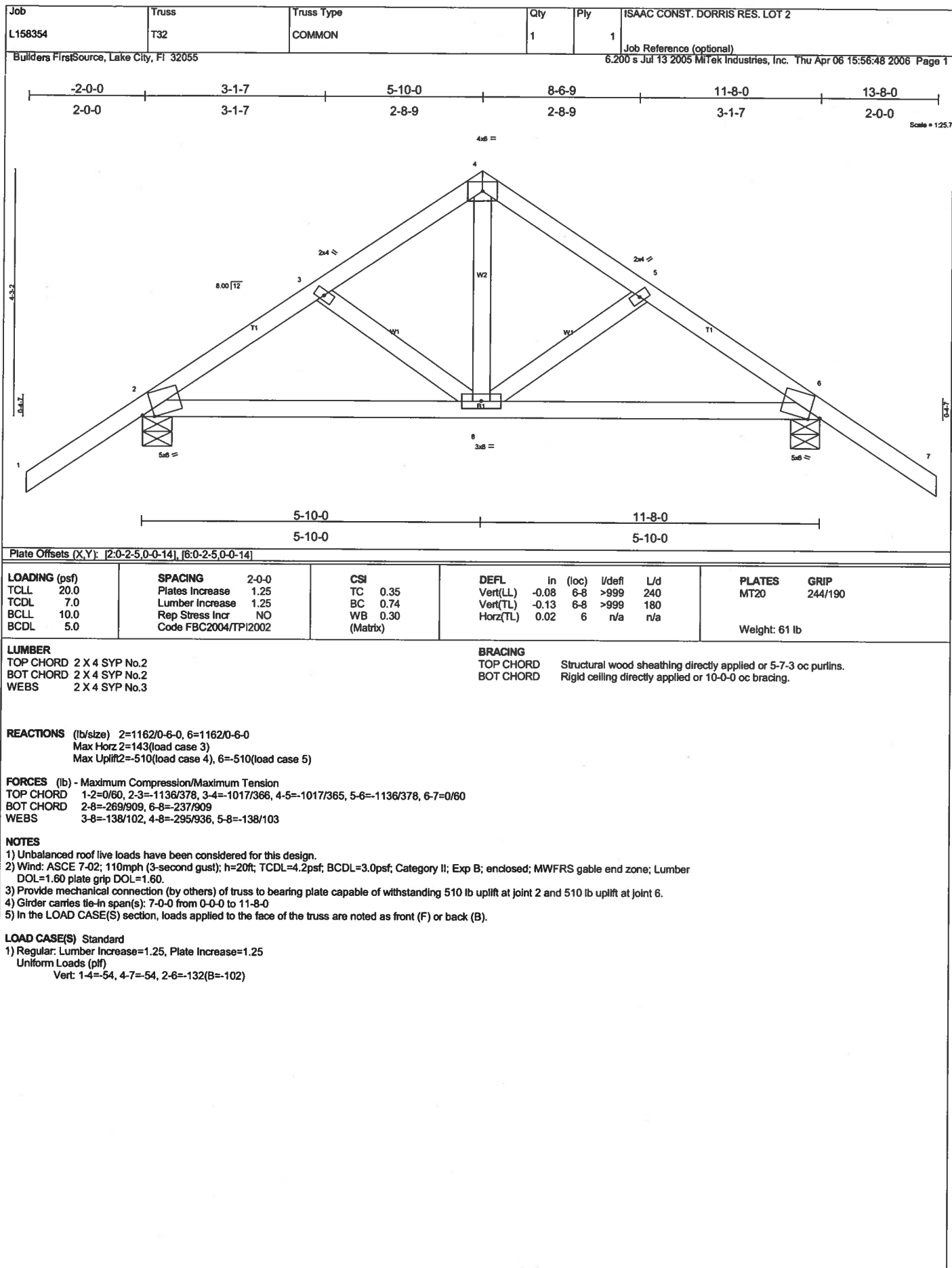
REACTIONS (lb/size) 4=708/0-6-0, 7=567/0-3-8
 Max Horz 7=386(load case 6)
 Max Uplift 4=282(load case 6), 7=245(load case 6)

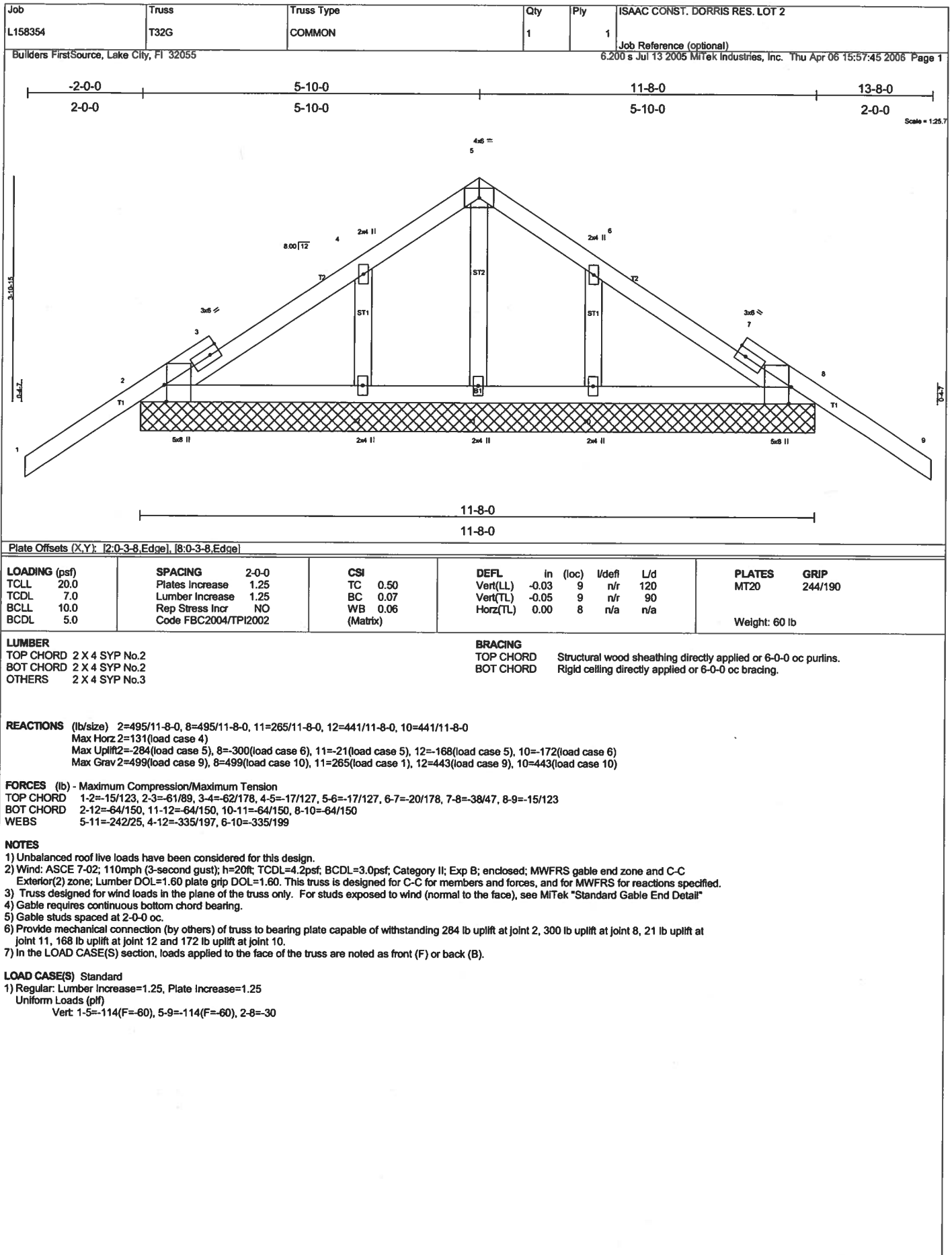
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-3=-547/204, 3-4=-682/138, 4-5=0/60, 1-2=-50/44, 1-7=-73/52
 BOT CHORD 6-7=-19/304, 4-6=0/495
 WEBS 3-6=-268/276, 2-6=-218/525, 2-7=-473/274

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 282 lb uplift at joint 4 and 245 lb uplift at joint 7.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T33	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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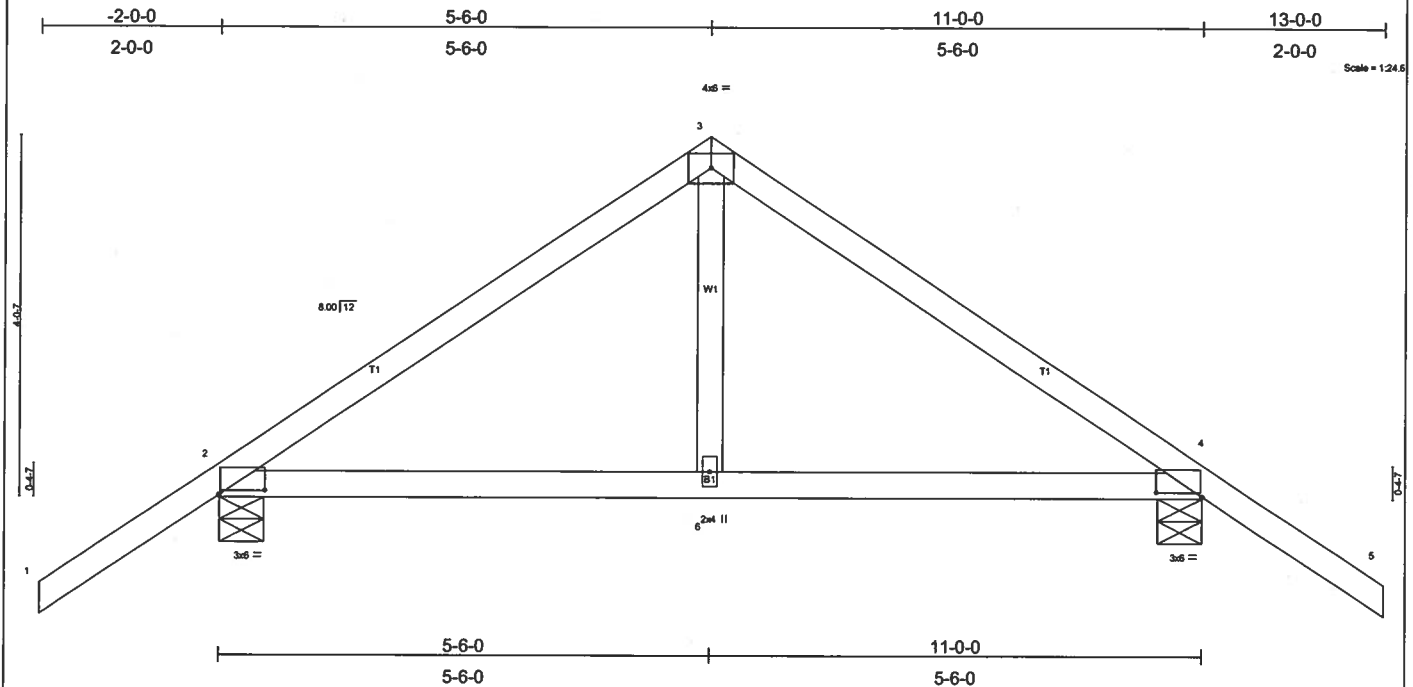


Plate Offsets (X,Y): [2-0-6-3,0-0-10], [4-0-6-3,0-0-10]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	0.04	2-6	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.16	Vert(TL)	0.03	2-6	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.08	Horz(TL)	0.01	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 49 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 2=563/0-6-0, 4=563/0-6-0

Max Horz 2=-136(load case 3)
 Max Uplift 2=409(load case 5), 4=409(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/60, 2-3=-484/453, 3-4=-484/453, 4-5=0/60
 BOT CHORD 2-6=-188/332, 4-6=-188/332
 WEBS 3-6=-300/174

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; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint 2 and 409 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T34	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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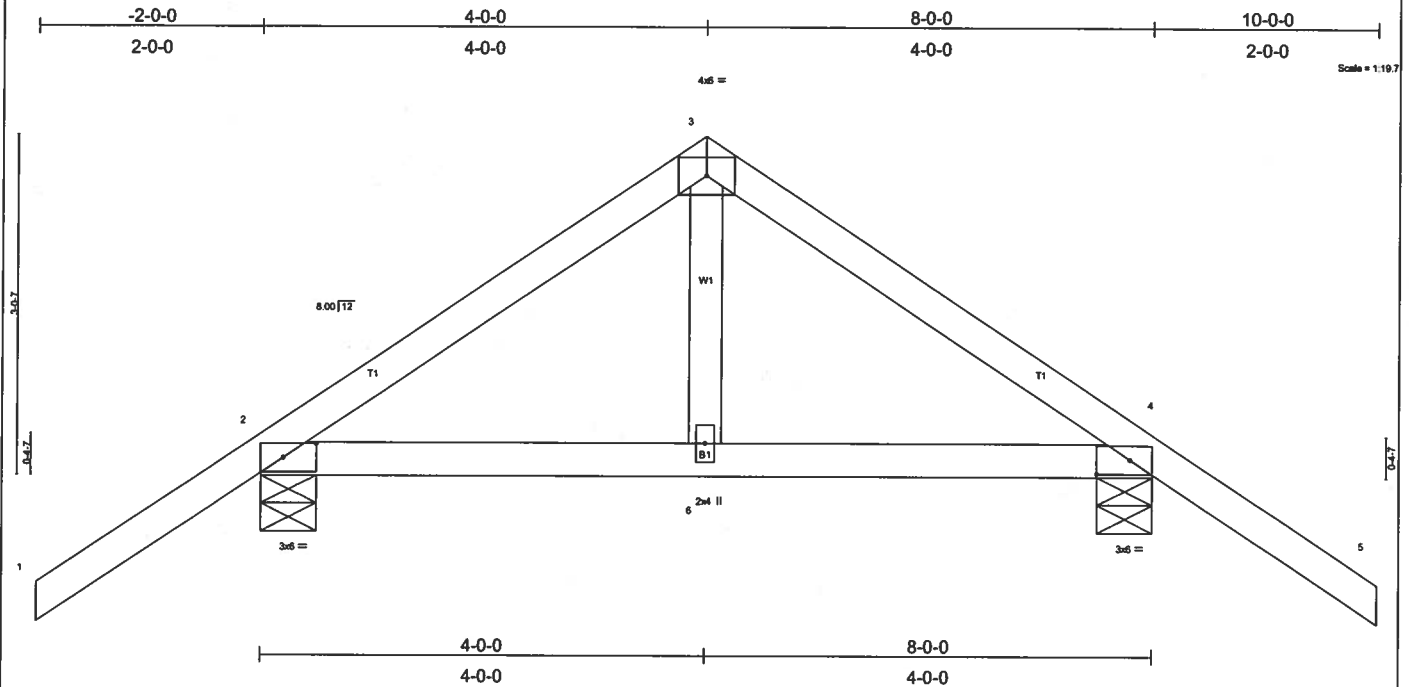


Plate Offsets (X,Y): [2-0-3-9,0-1-8], [4-0-3-9,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	-0.01	4-6	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(TL)	-0.01	4-6	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.03	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	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

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=437/0-6-0, 4=437/0-6-0

Max Horz 2=101(load case 4)

Max Uplift 2=-243(load case 5), 4=-243(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/60, 2-3=-302/50, 3-4=-302/50, 4-5=0/60

BOT CHORD 2-6=0/193, 4-6=0/193

WEBS 3-6=0/105

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 243 lb uplift at joint 2 and 243 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L158354	Truss T34G	Truss Type COMMON	Qty 1	Ply 1	ISAAC CONST. DORRIS RES. LOT 2
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 06 15:59:03 2006 Page 1

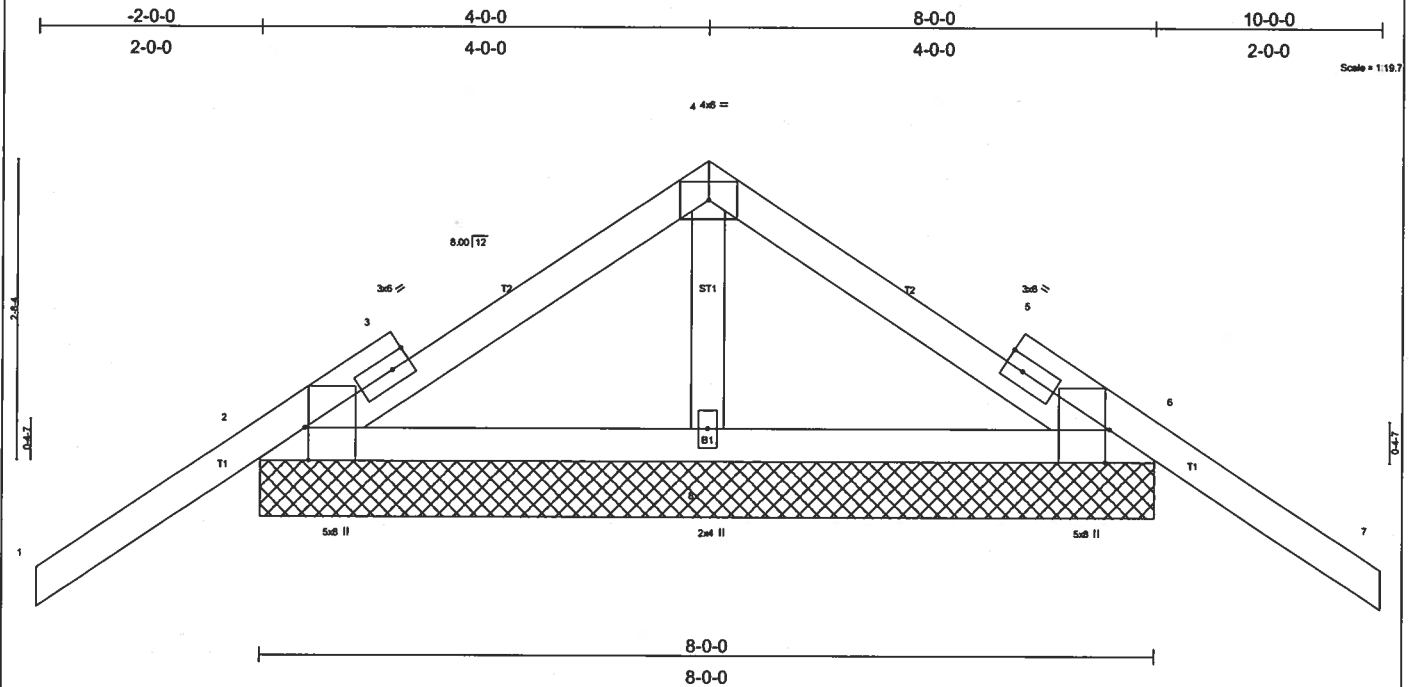


Plate Offsets (X,Y): [2-0-3-8,Edge], [6-0-3-8,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	In	(loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.50	Vert(LL)	-0.03	7	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.07	Vert(TL)	-0.05	7	n/r	90		
BCLL 10.0	Rep Stress Incr	NO	WB 0.09	Horz(TL)	0.00	6	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
 OTHERS 2 X 4 SYP No.3

BRACING

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

REACTIONS (lb/size) 2=493/8-0-0, 6=493/8-0-0, 8=621/8-0-0

Max Horz 2=89(load case 4)
 Max Uplift 2=303(load case 5), 6=317(load case 6), 8=133(load case 5)
 Max Grav 2=503(load case 9), 6=503(load case 10), 8=621(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-17/123, 2-3=-42/73, 3-4=-15/187, 4-5=0/187, 5-6=-42/73, 6-7=-17/123
 BOT CHORD 2-8=-63/118, 6-8=-63/118
 WEBS 4-8=-488/161

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 MiTek "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 303 lb uplift at joint 2, 317 lb uplift at joint 6 and 133 lb uplift at joint 8.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

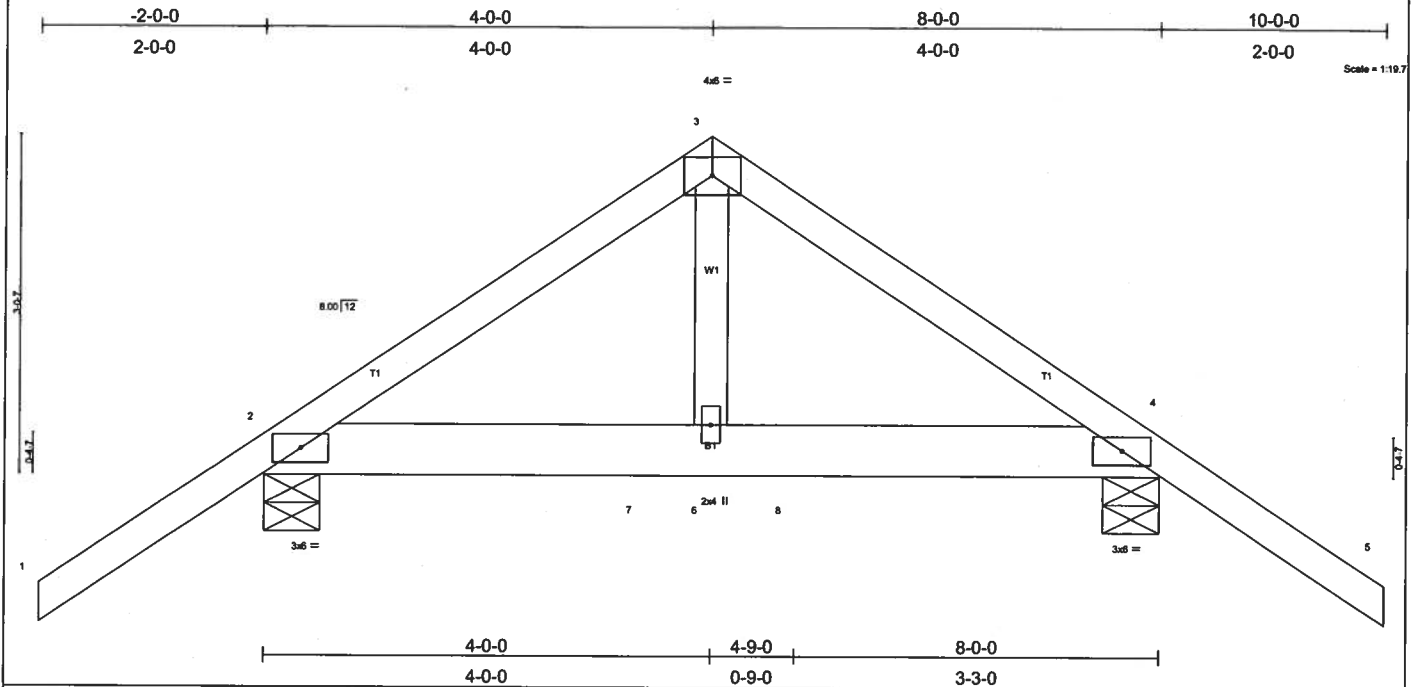
LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert 1-4=-114(F=-60), 4-7=-114(F=-60), 2-6=-30

Job	Truss	Truss Type	Qty	Ply	ISAAC CONST. DORRIS RES. LOT 2
L158354	T35	COMMON	1	2	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2'-0"	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.15	Vert(LL) 0.01 2-6 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.21	Vert(TL) -0.02 2-6 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
	Code FBC2004/TP12002				
				Weight: 88 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" oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) 2=1574/0-6-0, 4=1129/0-6-0
 Max Horz 2=99(load case 3)
 Max Uplift 2=685(load case 4), 4=508(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/63, 2-3=-1375/461, 3-4=-1393/463, 4-5=0/63
 BOT CHORD 2-7=-297/1097, 6-7=-297/1097, 6-8=-297/1097, 4-8=-297/1097
 WEBS 3-6=-395/1327

NOTES

- 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.
- 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 685 lb uplift at joint 2 and 508 lb uplift at joint 4.
- Girder carries tie-in span(s): 18'-0" from 0-0-0 to 3-5-0
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 788 lb down and 298 lb up at 4-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

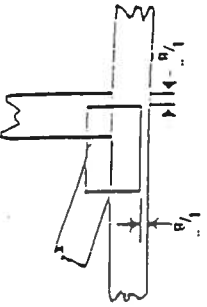
- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 3-5=-54, 2-7=-359(F=-329), 4-7=-30
 Concentrated Loads (lb)
 Vert: 8=-788(F)

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE



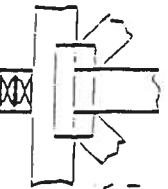
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



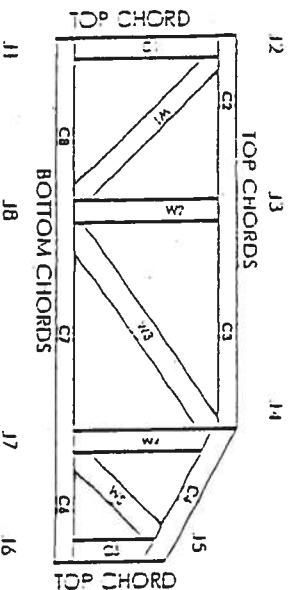
Indicates location of required continuous lateral bracing.

BEARINGS



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SRCCI	96&7, 9432A
WISC/DIIIIR	960022-W, 970036-11
IIR	561



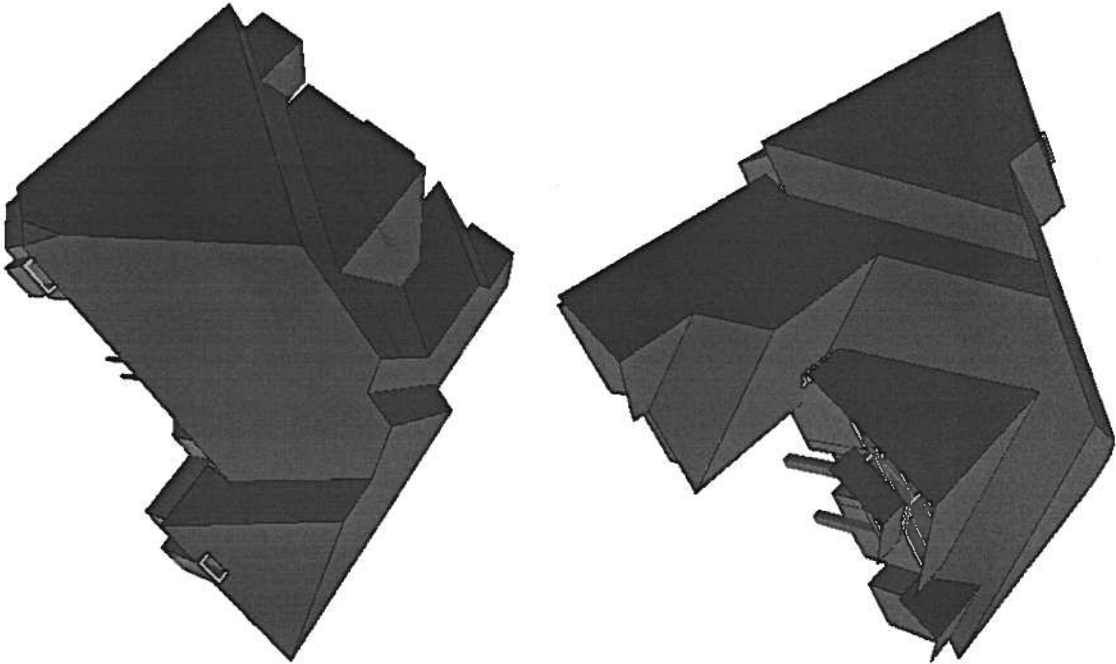
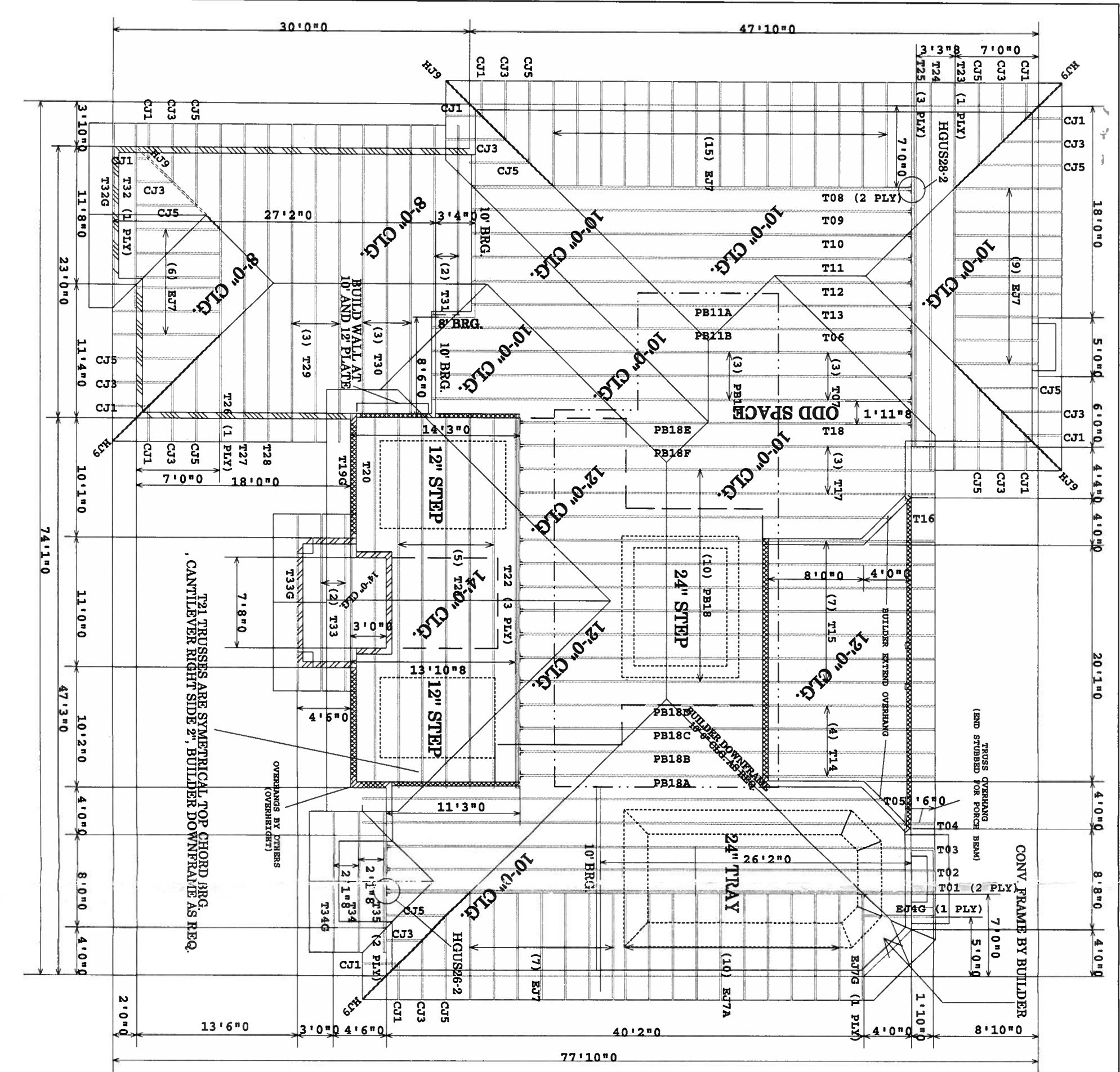
MTEC Engineering Reference Sheet: MTE-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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HANGER SCHEDULE

(29) HTU26

(1) HGUS28-2

(1) HGUS26-2

BEARING HEIGHT SCHEDULE

	10'-0"
	12'-0"
	14'-0"
	8'-0"

OVERHANG 2'-0"

ROOF PITCH(S) 8/12

NOTES:

- 1) REFER TO HUB 91 (RECOMMENDATIONS FOR HANGING INSTALLATION AND TEMPORARY BRACING). REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETED DECIDED OR REFER TO DETAIL VIDS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSSES HANGERS TO BE SAMPSON HTU26, UNLESS OTHERWISE NOTED. ALL FLOOR TRUSSES HANGERS TO BE SAMPSON THA422 UNLESS OTHERWISE NOTED.
- 8) DEBRAND/DEER INTEL (DDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

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

Required Return Date: _____

Approved By: _____ Date: _____



Bunnell

PHONE: 904-437-3349 FAX: 904-437-3494

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

Lake City

PHONE: 904-755-6944 FAX: 904-755-7473

Sanford

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

Isaac Const.

BUILDER: ISAAC CONST.

LEGAL ADDRESS: COBBLESTONE LOT 11, DORRIS RES

MODEL: CUSTOM SCALE: NTS

DATE: 4/6/06 DRAWN BY: BPC JOB #: L168364

