

DATE 09/21/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000024993

APPLICANT LINDA RODER PHONE 752-2281  
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024  
OWNER DARBY ROGERS CO PHONE 752-6575  
ADDRESS COUNTRY LAKE DRIVE LAKE CITY FL 32055  
CONTRACTOR BLAKE CONSTRUCTION CO PHONE 754-5810  
LOCATION OF PROPERTY 90W, TR ON LAKE JEFFREY, TL ON SCENIC LAKE DR,  
TR ON COUNTRY LAKE DRIVE, 9TH LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 140900.00  
HEATED FLOOR AREA 2818.00 TOTAL AREA 3354.00 HEIGHT 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 10/12 FLOOR SLAB  
LAND USE & ZONING RSF-2 MAX. HEIGHT 26  
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00  
NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO.

PARCEL ID 22-3S-16-02267-118 SUBDIVISION COUNTRY LAKES AT WOODBOROUGH  
LOT 18 BLOCK PHASE UNIT TOTAL ACRES

000001209 CBC1253408  
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
CULVERT 06-0791-N BK JH Y  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident  
COMMENTS: ONE FOOT ABOVE THE ROAD,NOC ON FILE

Check # or Cash 4341

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 705.00 CERTIFICATION FEE \$ 16.77 SURCHARGE FEE \$ 16.77  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$  
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 838.54  
INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

## Columbia County Building Permit Application

Ck# 4341

838-25  
Revised 9-23-04

For Office Use Only Application # 0609-29 Date Received 9/12/06 By ST Permit # 1209/24993  
Application Approved by - Zoning Official BLK Date 9-20-06 Plans Examiner OKJTH Date 9-20-06  
Flood Zone Xp plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Ln-Dev.  
Comments \_\_\_\_\_

Applicants Name Linda Roder Phone 752-2281  
Address 387 S.W. Kemp Ct Lake City FL 32024  
Owners Name The Darby Rogers Co. Phone 752-6575  
911 Address 911 Dending per RC 9/20/06  
Contractors Name Blake Construction Co. Phone 754-5810  
Address 291 SW Sisters Welcome Lake City FL 32025  
Fee Simple Owner Name & Address NA  
Bonding Co. Name & Address NA  
Architect/Engineer Name & Address Donald Gardner/ Mark Disosway  
Mortgage Lenders Name & Address People's  
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
Property ID Number 22-35-16-02267-118 Estimated Cost of Construction \$200,000.00  
Subdivision Name Country Lakes at Woodborough Lot 18 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
Driving Directions Hwy 90 West, R on Lake Jeffrey, L on Scenic Lake Dr  
R on Country Lake Dr, Lot on Left (9th lot down) See sign  
Type of Construction SFD Number of Existing Dwellings on Property 0  
Total Acreage \_\_\_\_\_ Lot Size .91 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive  
Actual Distance of Structure from Property Lines - Front 45' Side 39' Side 39' Rear 160'  
Total Building Height 26' Number of Stories 1 Heated Floor Area 2818 Roof Pitch 10-12  
TOTAL 3354

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

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

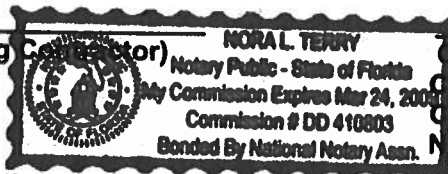
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this 30th day of May 2006

Personally known ✓ or Produced Identification \_\_\_\_\_



Contractor Signature

Contractors License Number CBC1253408

Competency Card Number \_\_\_\_\_

NOTARY STAMP/SEAL

Nora L. Terry  
Notary Signature

PREPARED BY AND RETURN TO:

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32055-1328

File No. 06-413

Inst:200607157 Date:07/18/2006 Time:11:46  
J.P. DC, P. Dewitt Cason, Columbia County B:1090 P:472

PERMIT NO. \_\_\_\_\_

TAX FOLIO NO.: R02252-000,  
R02268-004 & R02253-000

**NOTICE OF COMMENCEMENT**

STATE OF FLORIDA  
COUNTY OF COLUMBIA

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

1. Description of property:

Lot 18, Country Lake In Woodborough, Phase 1, a subdivision according to the plat thereof recorded in Plat Book 8, Pages 97-99, public records, Columbia County, Florida.

2. General description of improvement: Construction of dwelling.

3. Owner information:

a. Name and address: The Darby Rogers Company, 3101 W US  
Hwy 90, Suite 101, Lake City, FL 32055

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner):

4. Contractor: Blake Construction Company of North Florida, 291 SW  
Sisters Welcome Road, Suite 102, Lake City, FL 32025,

5. Surety

a. Name and address: None

b. Amount of bond:

6. Lender: Peoples State Bank, 350 SW Main Blvd., Lake City, Florida  
32025

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None

8. In addition to himself, Owner designates Lonnie Maltiwanger of Peoples State Bank, 350 SW Main Blvd., Lake City, Florida 32025, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). July 18, 2006



STATE OF FLORIDA  
COUNTY OF COLUMBIA

STATE OF FLORIDA, COUNTY OF COLUMBIA THE DARBY ROGERS COMPANY

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

By: Sharon Feagles  
Deputy Clerk

By: Blake N. Lunde, II  
President

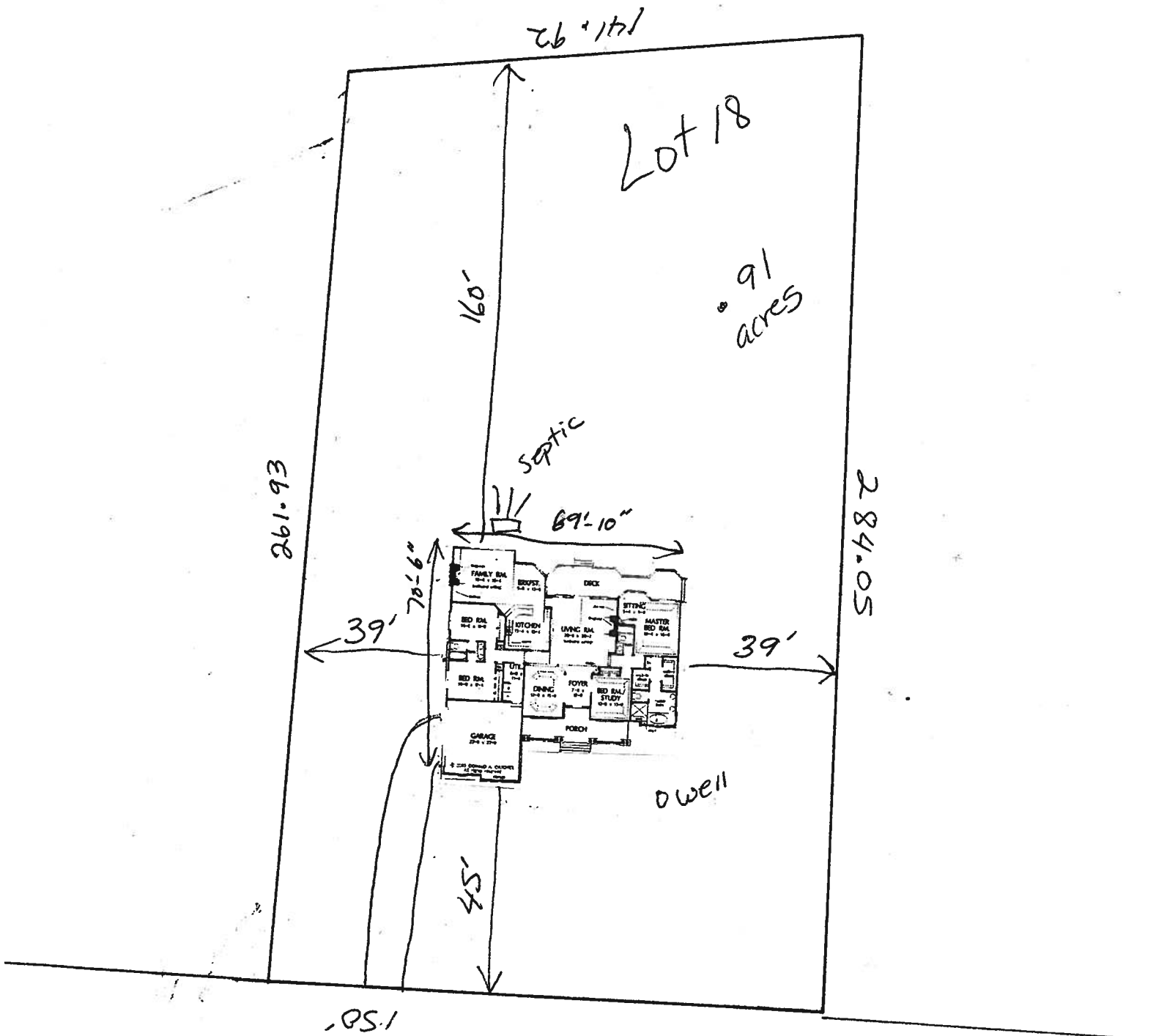
Date 07-19-2006

The foregoing instrument was acknowledged before me this 18th day of July, 2006 by Blake N. Lunde, II, President of The Darby Rogers Company, on behalf of the corporation. He is personally known to me and did not take an oath.



Notary Public  
My commission expires: \_\_\_\_\_

# Lot 18 Country Lakes in Woodborough



(proposed) N. W. Country Lake Glen



PREPARED BY AND RETURN TO:

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

Inst:2006017155 Date:07/19/2006 Time:11:15

Doc Stamp-Deed : 298.90

2.7 TC, P. DeWitt Cason, Columbia County 9:1080 P:181

Property Appraiser's  
Identification Number R02252-000 & R02260-004

TM File No: 06-413

WARRANTY DEED

This Warranty Deed, made this 19th day of July, 2006, BETWEEN MS, DM & ML, LLC, a Florida limited liability company, whose post office address is 3101 US Highway 90 West, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor\*, and THE DARBY ROGERS COMPANY, whose post office address is 3101 W US Highway 90, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantees\*.

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

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

Lot 18, Country Lake In Woodborough, Phase 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99, public records, Columbia County, Florida.

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

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

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

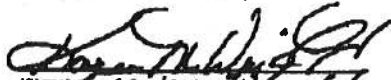
In Witness Whereof, grantor has hereunto set grantor's hand  
and seal the day and year first above written.

Signed, sealed and delivered  
in our presence:

MS, DM & BL, LLC

  
(Typed Name of First Witness)  
TERRY MADALA

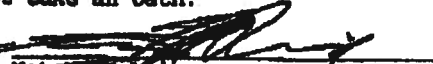
BY:  (SEAL)  
Deborah S. Myles Managing  
Member

  
(Typed Name of Second Witness)  
KAREN M. WRIGHT

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this  
17th day of July, 2006, by Deborah S. Myles, Managing Member of  
MS, DM & BL, LLC, a Florida limited liability company, who is/are  
personally known to me or who has/have produced  
as identification and who did not take an oath.

My Commission Expires:

  
Notary Public  
Printed, typed, or stamped name:



# Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 9-7-06

Lot 18 Country Lakes at Woodborough

(Address of Treatment or Lot/Block of Treatment)

Lake City

City

## Florida Pest Control & Chemical Co.

[www.flapest.com](http://www.flapest.com)

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

Chemical to be used: 23% Disodium Octaborate Tetrahydrate

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

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

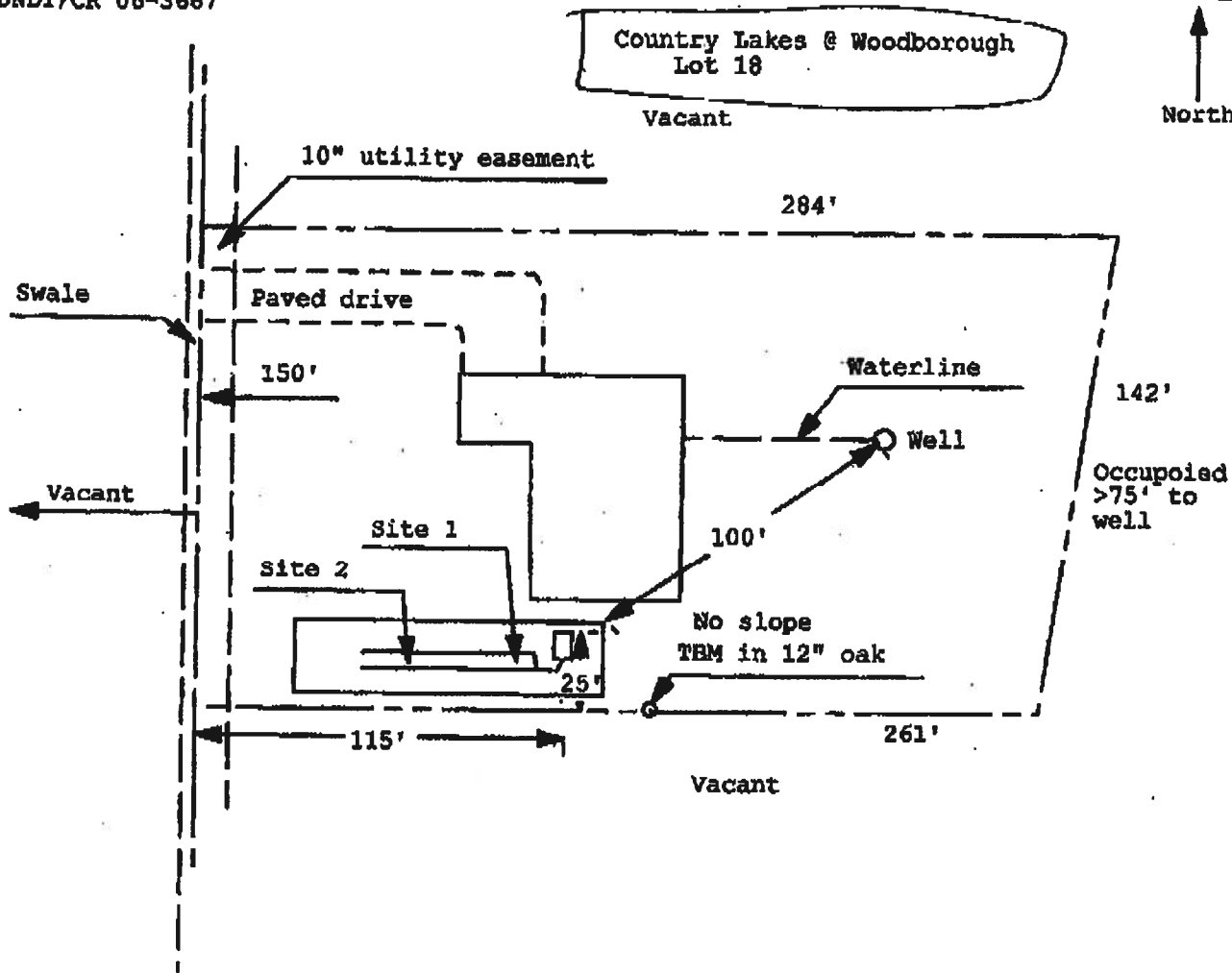
0609-29

Blake Lunde

**Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan**  
**Permit Application Number:** 06-0791N

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

LUNDI/CR 06-3667



1 inch = 50 feet

Site Plan Submitted By Paul Lunde Date 8/29/06  
 Plan Approved X Not Approved    Day   

By Salbi Graddy ESII 9-7-06 CPHU

Notes:   

Columbia CHD



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Community Affairs Residential Whole Building Performance Method A

|               |                                                                          |                             |
|---------------|--------------------------------------------------------------------------|-----------------------------|
| Project Name: | 608155 Blake Construction Lot 18 Country Lake in Woodborough S/D Phase 1 |                             |
| Address:      | Lot: 18, Sub: Country Lake in, Plat:                                     | Permitting Office: Columbia |
| City, State:  | , FL                                                                     | Permit Number: 24993        |
| Owner:        | Spec House                                                               | Jurisdiction Number: 221000 |
| Climate Zone: | North                                                                    |                             |

|                                                                                 |                      |           |
|---------------------------------------------------------------------------------|----------------------|-----------|
| 1. New construction or existing                                                 | New                  | ___       |
| 2. Single family or multi-family                                                | Single family        | ___       |
| 3. Number of units, if multi-family                                             | 1                    | ___       |
| 4. Number of Bedrooms                                                           | 4                    | ___       |
| 5. Is this a worst case?                                                        | Yes                  | ___       |
| 6. Conditioned floor area (ft²)                                                 | 2818 ft²             | ___       |
| 7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default) |                      |           |
| a. U-factor:                                                                    | Description Area     |           |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default)   | 452.0 ft² |
| b. SHGC:                                                                        |                      |           |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear)          | 452.0 ft² |
| 8. Floor types                                                                  |                      |           |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 222.0(p) ft   | ___       |
| b. N/A                                                                          |                      | ___       |
| c. N/A                                                                          |                      | ___       |
| 9. Wall types                                                                   |                      |           |
| a. Frame, Wood, Exterior                                                        | R=13.0, 1275.0 ft²   | ___       |
| b. Frame, Wood, Exterior                                                        | R=13.0, 190.0 ft²    | ___       |
| c. N/A                                                                          |                      | ___       |
| d. N/A                                                                          |                      | ___       |
| e. N/A                                                                          |                      | ___       |
| 10. Ceiling types                                                               |                      |           |
| a. Under Attic                                                                  | R=30.0, 2948.0 ft²   | ___       |
| b. N/A                                                                          |                      | ___       |
| c. N/A                                                                          |                      | ___       |
| 11. Ducts                                                                       |                      |           |
| a. Sup: Unc. Ret: Unc. AH: Interior                                             | Sup. R=6.0, 210.0 ft | ___       |
| b. N/A                                                                          |                      | ___       |
| 12. Cooling systems                                                             |                      |           |
| a. Central Unit                                                                 | Cap: 52.0 kBtu/hr    | ___       |
|                                                                                 | SEER: 11.00          | ___       |
| b. N/A                                                                          |                      | ___       |
| c. N/A                                                                          |                      | ___       |
| 13. Heating systems                                                             |                      |           |
| a. Electric Heat Pump                                                           | Cap: 52.0 kBtu/hr    | ___       |
|                                                                                 | HSPF: 7.30           | ___       |
| b. N/A                                                                          |                      | ___       |
| c. N/A                                                                          |                      | ___       |
| 14. Hot water systems                                                           |                      |           |
| a. Electric Resistance                                                          | Cap: 40.0 gallons    | ___       |
|                                                                                 | EF: 0.93             | ___       |
| b. N/A                                                                          |                      | ___       |
| c. Conservation credits                                                         |                      | ___       |
| (HR-Heat recovery, Solar                                                        |                      |           |
| DHP-Dedicated heat pump)                                                        |                      |           |
| 15. HVAC credits                                                                |                      | ___       |
| (CF-Ceiling fan, CV-Cross ventilation,                                          |                      |           |
| HF-Whole house fan,                                                             |                      |           |
| PT-Programmable Thermostat,                                                     |                      |           |
| MZ-C-Multizone cooling,                                                         |                      |           |
| MZ-H-Multizone heating)                                                         |                      |           |

Glass/Floor Area: 0.16

Total as-built points: 38398

Total base points: 38600

PASS

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

PREPARED BY: [Signature]  
DATE: 8-21-06

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

OWNER/AGENT: [Signature]  
DATE: 9-8-06

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: \_\_\_\_\_



<sup>1</sup> 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: 18, Sub: Country Lake in, Plat: , , FL,

PERMIT #:

| BASE                                                           |        |       |         | AS-BUILT                        |                          |      |     |                           |             |        |        |                     |         |        |  |
|----------------------------------------------------------------|--------|-------|---------|---------------------------------|--------------------------|------|-----|---------------------------|-------------|--------|--------|---------------------|---------|--------|--|
| GLASS TYPES<br>.18 X Conditioned X BSPM = Points<br>Floor Area |        |       |         |                                 |                          |      |     |                           |             |        |        |                     |         |        |  |
|                                                                |        |       |         | Type/SC                         | Overhang<br>Ornt Len Hgt |      |     | Area X SPM X SOF = Points |             |        |        |                     |         |        |  |
| .18                                                            | 2818.0 | 20.04 | 10165.1 | Double, Clear                   | S                        | 1.5  | 0.0 | 24.7                      | 35.87       | 0.43   | 382.6  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | S                        | 1.5  | 0.0 | 32.9                      | 35.87       | 0.43   | 509.7  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | S                        | 1.5  | 7.5 | 24.7                      | 35.87       | 0.91   | 806.1  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | SW                       | 1.5  | 7.5 | 24.7                      | 40.16       | 0.93   | 926.0  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | S                        | 7.0  | 7.5 | 57.6                      | 35.87       | 0.53   | 1095.2 |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | S                        | 7.0  | 6.5 | 20.0                      | 35.87       | 0.51   | 365.5  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | SE                       | 13.0 | 6.5 | 11.7                      | 42.75       | 0.40   | 202.1  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | S                        | 6.0  | 6.5 | 27.2                      | 35.87       | 0.53   | 518.6  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | SW                       | 13.0 | 6.5 | 13.6                      | 40.16       | 0.39   | 215.4  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | W                        | 1.5  | 5.5 | 9.7                       | 38.52       | 0.90   | 335.2  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | N                        | 1.5  | 5.5 | 19.4                      | 19.20       | 0.93   | 345.8  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | N                        | 7.0  | 7.5 | 24.7                      | 19.20       | 0.72   | 342.1  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | N                        | 7.0  | 7.5 | 45.2                      | 19.20       | 0.72   | 626.0  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | N                        | 7.0  | 7.5 | 24.7                      | 19.20       | 0.72   | 342.1  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | N                        | 10.0 | 8.0 | 20.0                      | 19.20       | 0.68   | 259.5  |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | E                        | 1.5  | 7.3 | 62.2                      | 42.06       | 0.94   | 2468.9 |                     |         |        |  |
|                                                                |        |       |         | Double, Clear                   | E                        | 1.5  | 6.0 | 9.0                       | 42.06       | 0.91   | 345.5  |                     |         |        |  |
|                                                                |        |       |         | As-Built Total:                 |                          |      |     |                           |             |        |        | 452.0               | 10086.2 |        |  |
|                                                                |        |       |         | 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        |        |        | 1275.0              | 1.50    | 1912.5 |  |
| Exterior                                                       | 1465.0 | 1.70  | 2490.5  | Frame, Wood, Exterior           | 13.0                     |      |     | 190.0                     | 1.50        | 285.0  |        |                     |         |        |  |
| Base Total: 1465.0 2490.5                                      |        |       |         | As-Built Total:                 |                          |      |     | 1465.0                    | 2197.5      |        |        |                     |         |        |  |
| DOOR TYPES Area X BSPM = Points                                |        |       |         | Type                            |                          |      |     | Area X SPM = Points       |             |        |        |                     |         |        |  |
| Adjacent                                                       | 20.0   | 1.60  | 32.0    | Exterior Insulated              |                          |      |     | 40.0                      | 4.10        | 164.0  |        |                     |         |        |  |
| Exterior                                                       | 60.0   | 4.10  | 246.0   | Exterior Insulated              |                          |      |     | 20.0                      | 4.10        | 82.0   |        |                     |         |        |  |
|                                                                |        |       |         | Adjacent Insulated              |                          |      |     | 20.0                      | 1.60        | 32.0   |        |                     |         |        |  |
| Base Total: 80.0 278.0                                         |        |       |         | As-Built Total:                 |                          |      |     | 80.0                      | 278.0       |        |        |                     |         |        |  |
| CEILING TYPES Area X BSPM = Points                             |        |       |         | Type                            | R-Value                  |      |     | Area X SPM X SCM = Points |             |        |        |                     |         |        |  |
| Under Attic                                                    | 2818.0 | 1.73  | 4875.1  | Under Attic                     | 30.0                     |      |     | 2948.0                    | 1.73 X 1.00 | 5100.0 |        |                     |         |        |  |
| Base Total: 2818.0 4875.1                                      |        |       |         | As-Built Total:                 |                          |      |     | 2948.0                    | 5100.0      |        |        |                     |         |        |  |

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 18, Sub: Country Lake in, Plat: , , FL,

PERMIT #:

| BASE                              |          |                   |                  | AS-BUILT                          |                              |                       |                     |                     |                  |
|-----------------------------------|----------|-------------------|------------------|-----------------------------------|------------------------------|-----------------------|---------------------|---------------------|------------------|
| FLOOR TYPES Area X BSPM = Points  |          |                   |                  | Type                              | R-Value                      | Area X SPM = Points   |                     |                     |                  |
| Slab                              | 222.0(p) | -37.0             | -8214.0          | Slab-On-Grade Edge Insulation     | 0.0                          | 222.0(p)              | -41.20              | -9146.4             |                  |
| Raised                            | 0.0      | 0.00              | 0.0              |                                   |                              |                       |                     |                     |                  |
| Base Total:                       |          |                   | -8214.0          | As-Built Total:                   |                              |                       | 222.0               | -9146.4             |                  |
| INFILTRATION Area X BSPM = Points |          |                   |                  | Area X SPM = Points               |                              |                       |                     |                     |                  |
|                                   | 2818.0   | 10.21             | 28771.8          |                                   |                              | 2818.0                | 10.21               | 28771.8             |                  |
| Summer Base Points: 38366.5       |          |                   |                  | Summer As-Built Points: 37287.1   |                              |                       |                     |                     |                  |
| 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 |
| 38366.5                           |          | 0.4266            | 16367.2          | 37287                             | 1.00                         | (1.09 x 1.147 x 0.91) | 0.310               | 1.000               | 13162.4          |
|                                   |          |                   |                  | 37287.1                           | 1.00                         | 1.138                 | 0.310               | 1.000               | 13162.4          |

(sys 1: Central Unit 52000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 18, Sub: Country Lake in, Plat: , , FL,

PERMIT #:

| BASE                                            |        |       |        | AS-BUILT              |                          |          |                           |                |        |  |
|-------------------------------------------------|--------|-------|--------|-----------------------|--------------------------|----------|---------------------------|----------------|--------|--|
| GLASS TYPES                                     |        |       |        |                       |                          |          |                           |                |        |  |
| .18 X Conditioned X BWPM = Points<br>Floor Area |        |       |        | Type/SC               | Overhang<br>Ornt Len Hgt |          | Area X WPM                | X WOF = Points |        |  |
| .18                                             | 2818.0 | 12.74 | 6462.2 | Double, Clear         | S                        | 1.5 0.0  | 24.7 13.30                | 3.66           | 1202.1 |  |
|                                                 |        |       |        | Double, Clear         | S                        | 1.5 0.0  | 32.9 13.30                | 3.66           | 1601.2 |  |
|                                                 |        |       |        | Double, Clear         | S                        | 1.5 7.5  | 24.7 13.30                | 1.06           | 347.0  |  |
|                                                 |        |       |        | Double, Clear         | SW                       | 1.5 7.5  | 24.7 16.74                | 1.04           | 427.9  |  |
|                                                 |        |       |        | Double, Clear         | S                        | 7.0 7.5  | 57.6 13.30                | 2.62           | 2008.9 |  |
|                                                 |        |       |        | Double, Clear         | S                        | 7.0 6.5  | 20.0 13.30                | 2.86           | 759.8  |  |
|                                                 |        |       |        | Double, Clear         | SE                       | 13.0 6.5 | 11.7 14.71                | 2.48           | 426.0  |  |
|                                                 |        |       |        | Double, Clear         | S                        | 6.0 6.5  | 27.2 13.30                | 2.61           | 942.6  |  |
|                                                 |        |       |        | Double, Clear         | SW                       | 13.0 6.5 | 13.6 16.74                | 1.93           | 438.4  |  |
|                                                 |        |       |        | Double, Clear         | W                        | 1.5 5.5  | 9.7 20.73                 | 1.03           | 206.7  |  |
|                                                 |        |       |        | Double, Clear         | N                        | 1.5 5.5  | 19.4 24.58                | 1.00           | 478.2  |  |
|                                                 |        |       |        | Double, Clear         | N                        | 7.0 7.5  | 24.7 24.58                | 1.02           | 617.7  |  |
|                                                 |        |       |        | Double, Clear         | N                        | 7.0 7.5  | 45.2 24.58                | 1.02           | 1130.3 |  |
|                                                 |        |       |        | Double, Clear         | N                        | 7.0 7.5  | 24.7 24.58                | 1.02           | 617.7  |  |
|                                                 |        |       |        | Double, Clear         | N                        | 10.0 8.0 | 20.0 24.58                | 1.02           | 501.9  |  |
|                                                 |        |       |        | Double, Clear         | E                        | 1.5 7.3  | 62.2 18.79                | 1.02           | 1197.8 |  |
|                                                 |        |       |        | Double, Clear         | E                        | 1.5 6.0  | 9.0 18.79                 | 1.04           | 175.1  |  |
|                                                 |        |       |        | As-Built Total:       |                          | 452.0    |                           | 13079.3        |        |  |
| WALL TYPES Area X BWPM = Points                 |        |       |        | Type                  | R-Value                  |          | Area X WPM = Points       |                |        |  |
| Adjacent                                        | 0.0    | 0.00  | 0.0    | Frame, Wood, Exterior | 13.0                     |          | 1275.0                    | 3.40           | 4335.0 |  |
| Exterior                                        | 1465.0 | 3.70  | 5420.5 | Frame, Wood, Exterior | 13.0                     |          | 190.0                     | 3.40           | 646.0  |  |
| Base Total:                                     |        |       |        | As-Built Total:       |                          | 1465.0   |                           | 4981.0         |        |  |
| DOOR TYPES Area X BWPM = Points                 |        |       |        | Type                  |                          |          | Area X WPM = Points       |                |        |  |
| Adjacent                                        | 20.0   | 8.00  | 160.0  | Exterior Insulated    |                          |          | 40.0                      | 8.40           | 336.0  |  |
| Exterior                                        | 60.0   | 8.40  | 504.0  | Exterior Insulated    |                          |          | 20.0                      | 8.40           | 168.0  |  |
|                                                 |        |       |        | Adjacent Insulated    |                          |          | 20.0                      | 8.00           | 160.0  |  |
| Base Total:                                     |        |       |        | As-Built Total:       |                          | 80.0     |                           | 664.0          |        |  |
| CEILING TYPES Area X BWPM = Points              |        |       |        | Type                  | R-Value                  |          | Area X WPM X WCM = Points |                |        |  |
| Under Attic                                     | 2818.0 | 2.05  | 5776.9 | Under Attic           | 30.0                     |          | 2948.0                    | 2.05 X 1.00    | 6043.4 |  |
| Base Total:                                     |        |       |        | As-Built Total:       |                          | 2948.0   |                           | 6043.4         |        |  |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 18, Sub: Country Lake in, Plat: , , FL,

PERMIT #:

| BASE                              |          |                   |                  | AS-BUILT                                                                                    |                              |                        |                     |                     |                  |
|-----------------------------------|----------|-------------------|------------------|---------------------------------------------------------------------------------------------|------------------------------|------------------------|---------------------|---------------------|------------------|
| FLOOR TYPES Area X BWPM = Points  |          |                   |                  | Type                                                                                        | R-Value                      | Area X                 | WPM                 | =                   | Points           |
| Slab                              | 222.0(p) | 8.9               | 1975.8           | Slab-On-Grade Edge Insulation                                                               | 0.0                          | 222.0(p)               | 18.80               |                     | 4173.6           |
| Raised                            | 0.0      | 0.00              | 0.0              |                                                                                             |                              |                        |                     |                     |                  |
| Base Total:                       |          |                   |                  | As-Built Total:                                                                             |                              | 222.0                  |                     |                     | 4173.6           |
| INFILTRATION Area X BWPM = Points |          |                   |                  | Area X WPM = Points                                                                         |                              |                        |                     |                     |                  |
|                                   | 2818.0   | -0.59             | -1662.6          |                                                                                             |                              | 2818.0                 | -0.59               |                     | -1662.6          |
| Winter Base Points: 18636.8       |          |                   |                  | Winter As-Built Points: 27278.7                                                             |                              |                        |                     |                     |                  |
| 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 |
| 18636.8                           |          | 0.6274            | 11692.7          | (sys 1: Electric Heat Pump 52000 btuh ,EFF(7.3) Ducts:Unc(S),Unc(R),Int(AH),R6.0<br>27278.7 | 1.000                        | (1.069 x 1.169 x 0.93) | 0.467               | 1.000               | 14809.1          |
|                                   |          |                   |                  | 27278.7                                                                                     | 1.00                         | 1.162                  | 0.467               | 1.000               | 14809.1          |





# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 18, Sub: Country Lake in, Plat: , , FL,

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 83.2**

**The higher the score, the more efficient the home.**

Spec House, Lot: 18, Sub: Country Lake in, Plat: , , FL,

|                                                                                 |                              |                                        |                   |
|---------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | New                          | 12. Cooling systems                    |                   |
| 2. Single family or multi-family                                                | Single family                | a. Central Unit                        | Cap: 52.0 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?                                                        | Yes                          | c. N/A                                 |                   |
| 6. Conditioned floor area (ft²)                                                 | 2818 ft²                     |                                        |                   |
| 7. Glass type <sup>1</sup> 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: 52.0 kBtu/hr |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 452.0 ft² |                                        | HSPF: 7.30        |
| b. SHGC:                                                                        |                              | b. N/A                                 |                   |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 452.0 ft²        | c. N/A                                 |                   |
| 8. Floor types                                                                  |                              |                                        |                   |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 222.0(p) ft           | 14. Hot water systems                  |                   |
| b. N/A                                                                          |                              | a. Electric Resistance                 | Cap: 40.0 gallons |
| c. N/A                                                                          |                              |                                        | EF: 0.93          |
| 9. Wall types                                                                   |                              | b. N/A                                 |                   |
| a. Frame, Wood, Exterior                                                        | R=13.0, 1275.0 ft²           | c. Conservation credits                |                   |
| b. Frame, Wood, Exterior                                                        | R=13.0, 190.0 ft²            | (HR-Heat recovery, Solar               |                   |
| c. N/A                                                                          |                              | DHP-Dedicated heat pump)               |                   |
| d. N/A                                                                          |                              | 15. HVAC credits                       |                   |
| e. N/A                                                                          |                              | (CF-Ceiling fan, CV-Cross ventilation, |                   |
| 10. Ceiling types                                                               |                              | HF-Whole house fan,                    |                   |
| a. Under Attic                                                                  | R=30.0, 2948.0 ft²           | PT-Programmable Thermostat,            |                   |
| b. N/A                                                                          |                              | MZ-C-Multizone cooling,                |                   |
| c. N/A                                                                          |                              | MZ-H-Multizone heating)                |                   |
| 11. Ducts                                                                       |                              |                                        |                   |
| a. Sup: Unc. Ret: Unc. AH: Interior                                             | Sup. R=6.0, 210.0 ft         |                                        |                   |
| b. N/A                                                                          |                              |                                        |                   |

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

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



*\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> 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](http://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.*

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLR2PB v4.1)

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 (904) 752-1004  
FAX (904) 755-7022  
3860 NW Main Blvd.  
LAKE CITY, FLORIDA 32055  
904 NW Main Blvd.

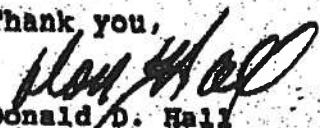
June 12, 2002

## NOTICE TO ALL CONTRACTORS

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

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

Thank you,

  
Donald D. Hall  
DDH/jk

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000001209**

DATE 09/21/2006 PARCEL ID # 22-3S-16-02267-118

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER THE DARBY ROGERS CO PHONE 752-6575

ADDRESS COUNTRY LAKE DRIVE LAKE CITY FL 32055

CONTRACTOR BLAKE LUNDE PHONE 754-5810

LOCATION OF PROPERTY 90W, TR ON LAE JEFFREY, TL ON SCENIC LAKE DRIVE, TR ON COUNTRY  
LAKE DR., 9TH LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY LAKES AT WB 18

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 INSTALATION OF THE CULVERT.**

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

**Amount Paid 25.00**



**Blake Construction Company of North Florida**  
**License# CBC1253408**  
291 S. W. Sisters Welcome Rd., #102  
Lake City, Florida 32025  
Phone: (386) 754-5810  
Fax: (386) 719-6708

September 20, 2006

Joe Haltiwanger  
Columbia County Building & Zoning  
Plan Review  
135 NE Hernando Ave.  
Lake City, FL 32055

Re: Permit Application Number 0609-29

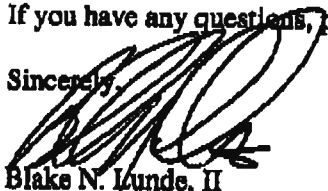
Joe,

In reference to the above mentioned permit application, I am providing the additional information you requested.

1. Windows N & G, according to plan specification schedule, sheet #3, will be tempered to comply with Section R308.4 of the Florida Building Code.
2. The door going to the guest bath will be changed to #5 (2'x 6') according to the door schedule shown on sheet #3 of the plans.
3. The door schedule on sheet #3 shows the garage walk through door as #3 at 2'x6' exterior one hour fire rated door, which meets Florida Building Code, Section R309.1.
4. Exterior wall chimney has an elevation of 25.5' and extends 13.5' from closest ridge. The highest ridge elevation is 29'. The second interior chimney will be eliminated.
5. Truss area involving trusses #T05 are for storage only and will not be erected as habitable space.
6. All bedroom outlets shall be wired with arc-fault circuit interrupter protection. Also, the main meter can will have an exterior disconnect supplied with 4-wire conductor.

If you have any questions, please give me a call at 754-5810.

Sincerely,



Blake N. Lunde, II  
President

BNL/nlt



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: **0609-29**

Contractor Blake Construction Owner: The Darby Rogers Company Property  
ID#22-3s-16-02268-004

On the date of September 15, 2006 application 0609-29 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 0609-29 and when making reference to this application.**

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



- 1.** The windows in the bathrooms will be required to comply with section R308.4 of the Florida Residential Building Code: 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. Please verify that these windows comply with this building code requirement.
- 2.** Please provide for compliance with the Florida Residential Building Code section R322.1.1 All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737 mm) clear opening. However, if only a toilet room is provided at grade level, such toilet rooms shall have a clear opening of not less than 29 inches (737 mm).

**3.** In the garage area the following code requirements need to be corrected or verified.

A. Please verify that section R309.1 of the Florida Residential Building Code will be complied with as this section relates to the garage entry door in to the residence. Opening protection: Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

**4.** On the dwelling elevation drawing show the height of the chimney flue above the roof peak and the distance from the nearest roof line intersection. Sections R1001.17 of the Florida Residential Building Code requires, Chimney crickets: Chimneys shall be provided with crickets when the dimension parallel to the ridgeline is greater than 30 inches (762 mm) and does not intersect the ridgeline. The intersection of the cricket and the chimney shall be flashed and counter flashed in the same manner as normal roof-chimney intersections. Crickets shall be constructed in compliance with Figure R1001.17 and Table R1001.17.

**4.** On the truss drawing Truss T05 is designed for attic storage and is not considered to be a habitable room by the Florida Residential Building Code sections R305.1 minimum height. Habitable rooms, hallways,

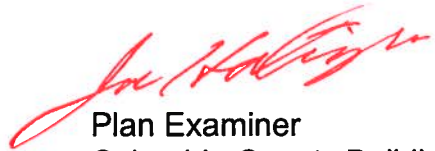
corridors, bathrooms, toilet rooms, laundry rooms and basements shall have a ceiling height of not less than 7 feet (2134 mm). The required height shall be measured from the finish floor to the lowest projection from the ceiling. Therefore the ceiling covering in the garage area will not be required to meet the requirements of section 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. Please verify that this attic space will remain as an uninhabitable room.

- 5.** Please verify that compliance with the requirement of the 2005 National Electrical Code section 210.12 Arc-Fault Circuit-Interrupter Protection and the Florida Residential Building code 2004 section R313.1 will be complied with. Also that an overcurrent protection device will be installed on the exterior of structures to serve as a disconnecting means.  
  
Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.
- 6.** Any structural designs within the plans which were designed by Donald A. Gardner Inc. which relate to design requirements of the Florida Residential

Building Code sections R301 design criteria shall not be used. Mr. Mark Disosway of Windload Engineering structural engineering design shall be used. Any and all question which relate to the requirements of sections R301 should be address to Mr. Disosway, as the engineer of record for this structure.

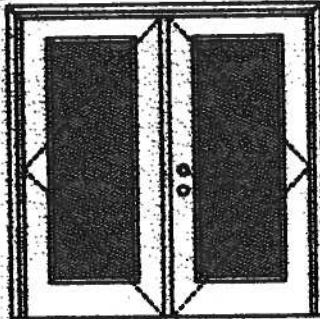
Joe Haltiwanger



Plan Examiner  
Columbia County Building  
Department

**XX****Glazed Outswing Unit**

DDP-WL-JH1102-02

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

**Double Door**  
Maximum unit size - 6'0" x 6'0"

**Design Pressure**  
**+40.5/-40.5**

Unified water unless special threshold design is used.

**Large Glass Impact Resistance**

**Hurricane protective system (shutters) is REQUIRED.**

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

**Note:**

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

**MINIMUM ASSEMBLY DETAIL:**

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

**MINIMUM INSTALLATION DETAIL:**

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

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

100 Series



130, 135 Series



130 Series



600 Series



822 Series

**1/2 GLASS:**

100 Series\*



100, 100 Series\*



120 Series\*



200 Series\*



12 RL, 20 RL, 34 RL Series\*



107 Series\*



100 Series



304 Series

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

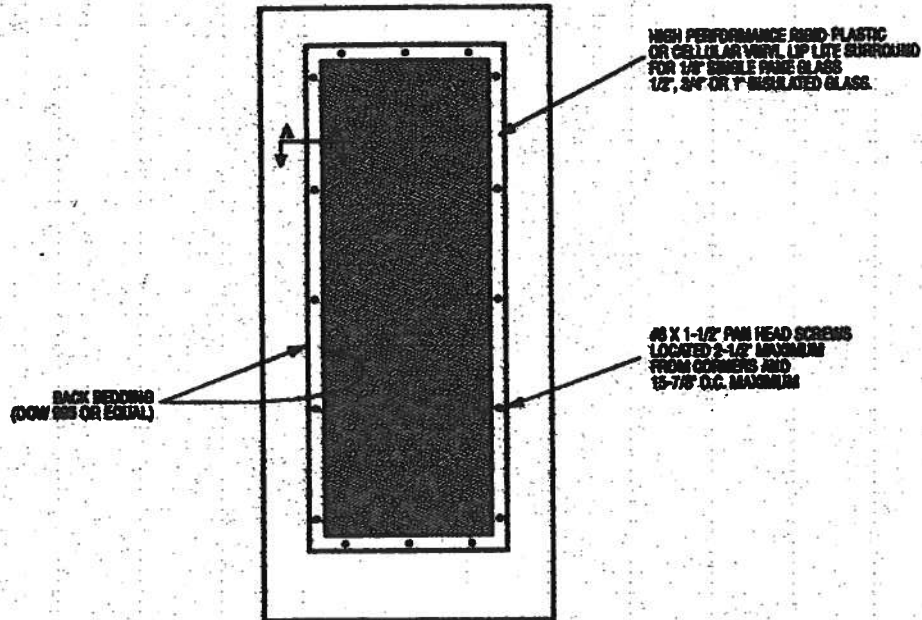
**Johnson**  
**EntrySystems**

March 29, 2002  
Our continuing program of product improvement requires specifications, designs and product details subject to change without notice.

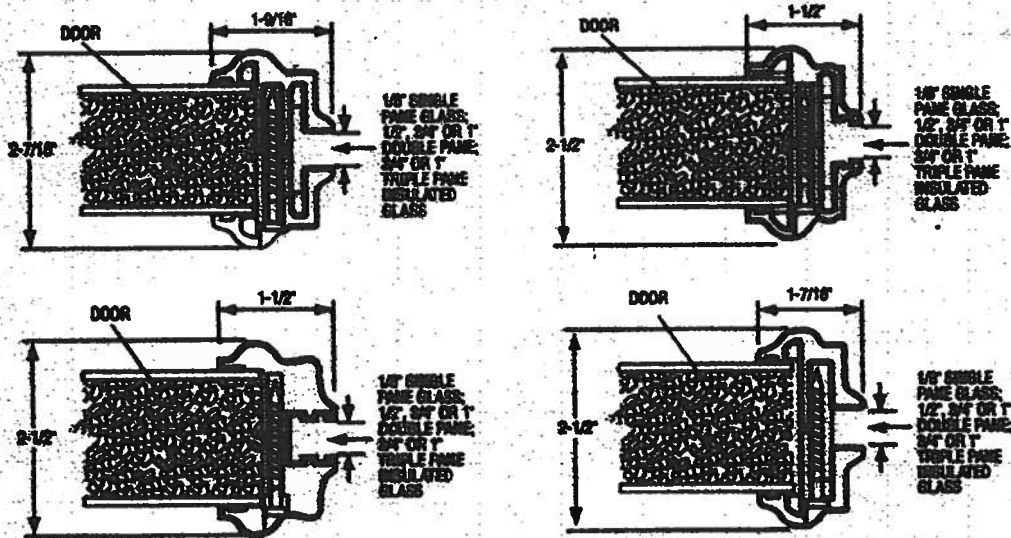


Exclusively from  
**Masonite**  
Masonite International Corporation

# GLASS INSERT IN DOOR OR SIDELITE PANEL



## SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



**XX**

Glazed Outswing Unit

COP-01 JHA162-02

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

404 Series



410 Series



420 Series

**FULL GLASS:**

100 Series

114, 120, 122  
Series

132 Series



140 Series



300 Series

**CERTIFIED TEST REPORTS:**

NCTL 210-1887-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 18258.

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 like 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 Baithor, P.E. - License Number 56533

**Johnson**  
**EntrySystems**

March 28, 2002

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Exclusively from

**Masonite**  
Masonite International Corporation

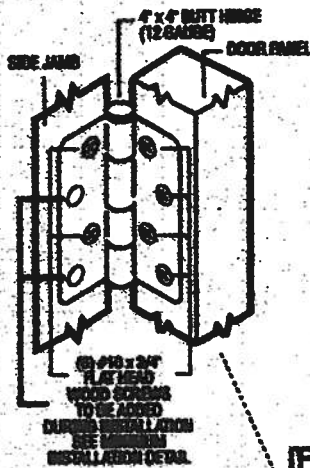


**XX**  
Unit

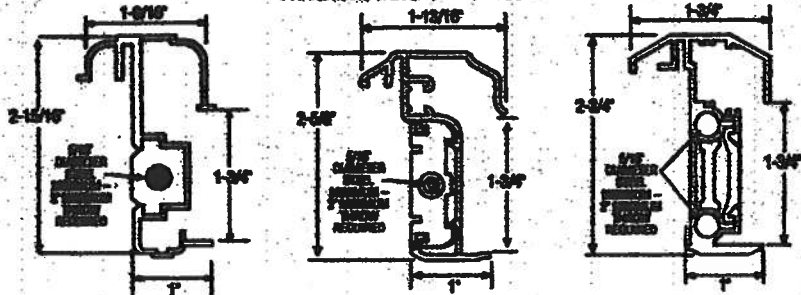
MAD-WL MAD010-02

## OUTSWING UNITS WITH DOUBLE DOOR

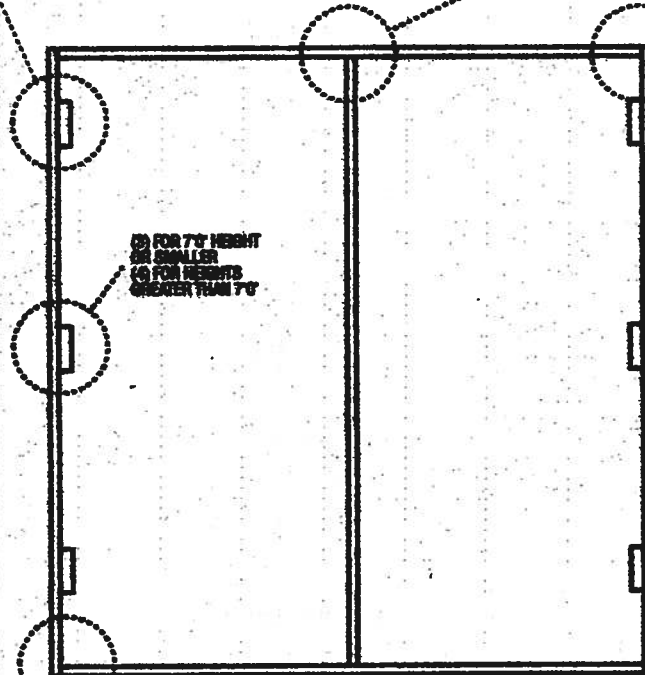
### TYPICAL INSIDE ATTACHMENT



### TYPICAL ASTRALAL PROFILES



ALUMINUM EXTRUDED ASTRALAL (1/8\"/>



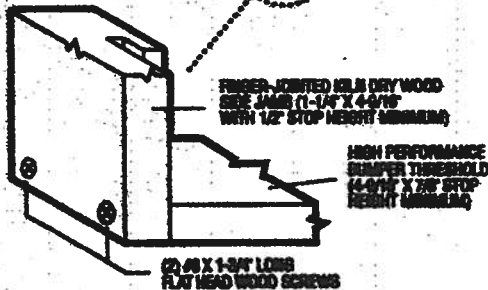
### TYPICAL HEADER & SIDE JAMB ATTACHMENT

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



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

### TYPICAL THRESHOLDS & SIDE JAMB ATTACHMENT



March 20, 2002

For complete program of product improvement, online specifications,  
design and product detail, subject to change without notice.

**PREMIERE**  
Premium Quality Doors



Exclusively from

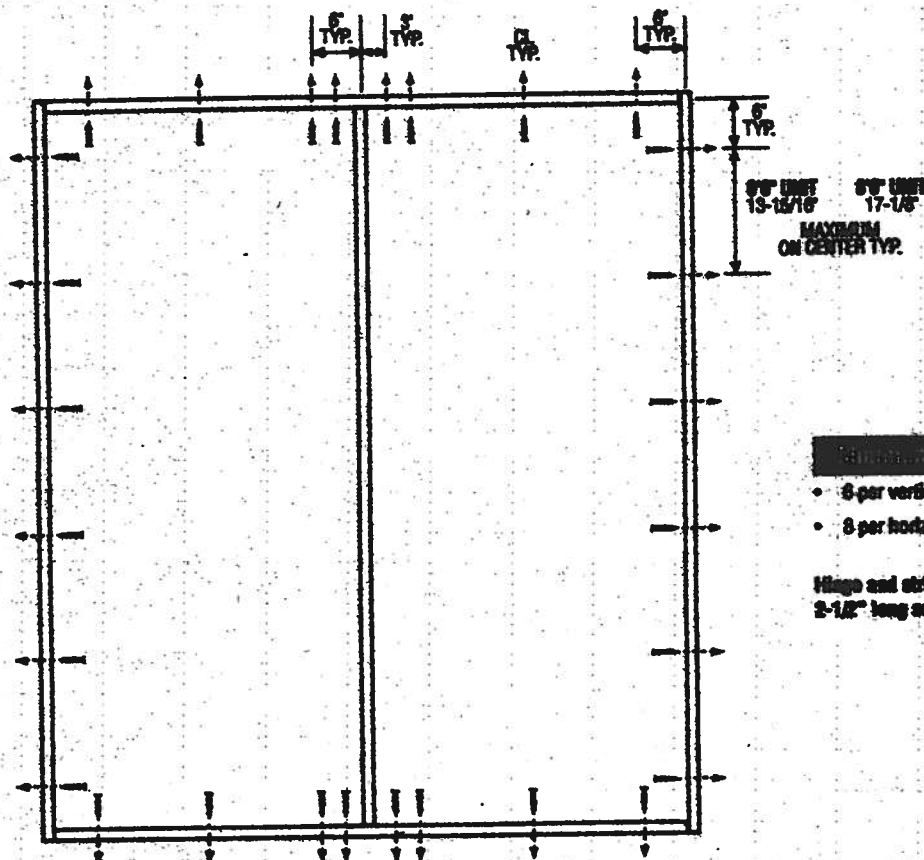
**Masonite**

Masonite International Corporation

**XX**  
Unit

MD-VI-MAD002-02

## DOUBLE DOOR



### Minimum Fastener Counts

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

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

### Latching Hardware:

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

### Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/APA & 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 EICO Ode Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002

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



Exclusively from

**Masonite**  
Masonite International Corporation

I

**AAMA/NWDA 101/1.3-97  
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<br>-47.2 psf   |
| Operating Force          | 11 lb max.               |
| Air Infiltration         | 0.13 cfm/ft <sup>2</sup> |
| Water Resistance         | 6.00 psf                 |
| Structural Test Pressure | +67.5 psf<br>-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/NWDA 101/S.2-97 TEST REPORT**

Rendered to

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

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

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in 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/NWDA 101/S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

**Test Specimen Description:**

**Series/Model:** 650 Fin

**Type:** Aluminum Single Hung Window

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

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

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

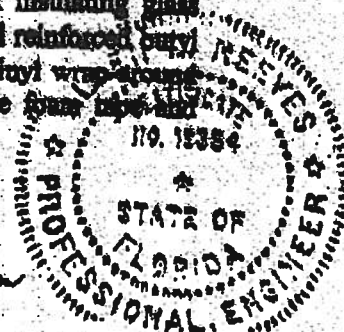
**Screen Size:** 4' 0-1/4" wide by 2' 11-1/8" high

**Finish:** All aluminum was white.

**Glazing Details:** The active and fixed lites utilized 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 M. 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)<br>@ 1.57 psf (25 mph) | 0.13 cfm/ft <sup>2</sup> | 0.3 cfm/ft <sup>2</sup> max |

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

|         |                                                                                                                                                                                         |                |                          |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
|         | Water Resistance (ASTM E 547-00)<br>(with and without screen)<br>WTP = 2.86 psf                                                                                                         | No leakage     | No leakage               |
| 2.1.4.1 | Uniform Load Deflection (ASTM E 330-97)<br>(Measurements reported were taken on the meeting rail)<br>(Loads were held for 33 seconds)<br>@ 25.9 psf (positive)<br>@ 34.7 psf (negative) | 0.42"<br>0.43" | 0.26" max.<br>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)<br>(Measurements reported were taken on the meeting rail)<br>(Loads were held for 10 seconds)<br>@ 38.9 psf (positive)<br>@ 52.1 psf (negative) | 0.02"<br>0.02" | 0.18" max.<br>0.18" max. |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|

*Allen H. Reeves*  
1 APRIL 2002



Test Specimen Description: (Continued)

| Paragraph | Title of Test - Test Method                                      | Results   | Allowed    |
|-----------|------------------------------------------------------------------|-----------|------------|
| 2.2.1.6.2 | De-glazing Test (ASTM E 987)<br>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   |

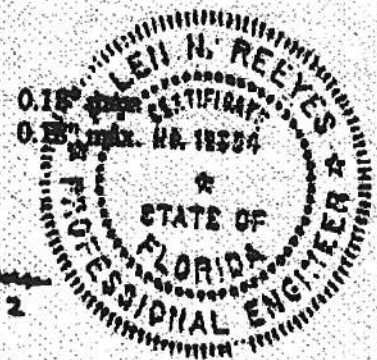
Optional Performance

|     |                                                                                                                                       |            |            |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| 4.3 | Water Resistance (ASTM E 547-00)<br>(with and without screen)<br>WTP = 6.00 psf                                                       | No leakage | No leakage |
|     | Uniform Load Deflection (ASTM E 330-97)<br>(Measurements reported were taken on the meeting rail)<br>(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)<br>(Measurements reported were taken on the meeting rail)<br>(Loads were held for 10 seconds) |       |
| @ 67.5 psf (positive)                                                                                                                 | 0.05" |
| @ 70.8 psf (negative)                                                                                                                 | 0.05" |

*Allen H. Reeves*  
1 APRIL 2002





VI

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

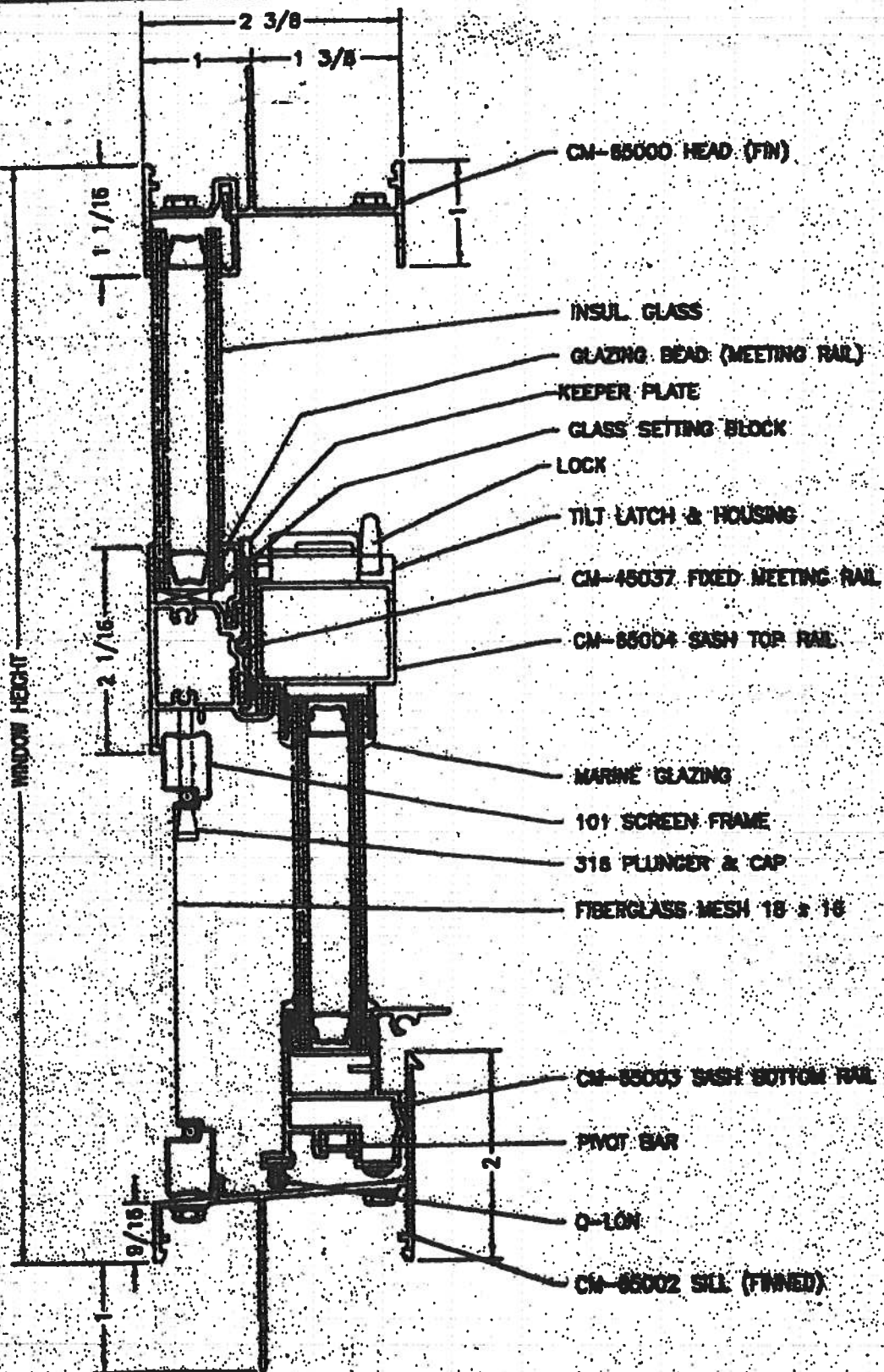
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01-41134.01



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







650-AS1 A

MI HOME PRODUCTS

650 NEW BERRY STREET - GAITHERSBURG, PA - 17038-9370

TITLE

650 SH FIN MAIN FRAME  
VERTICAL CROSS SECTION

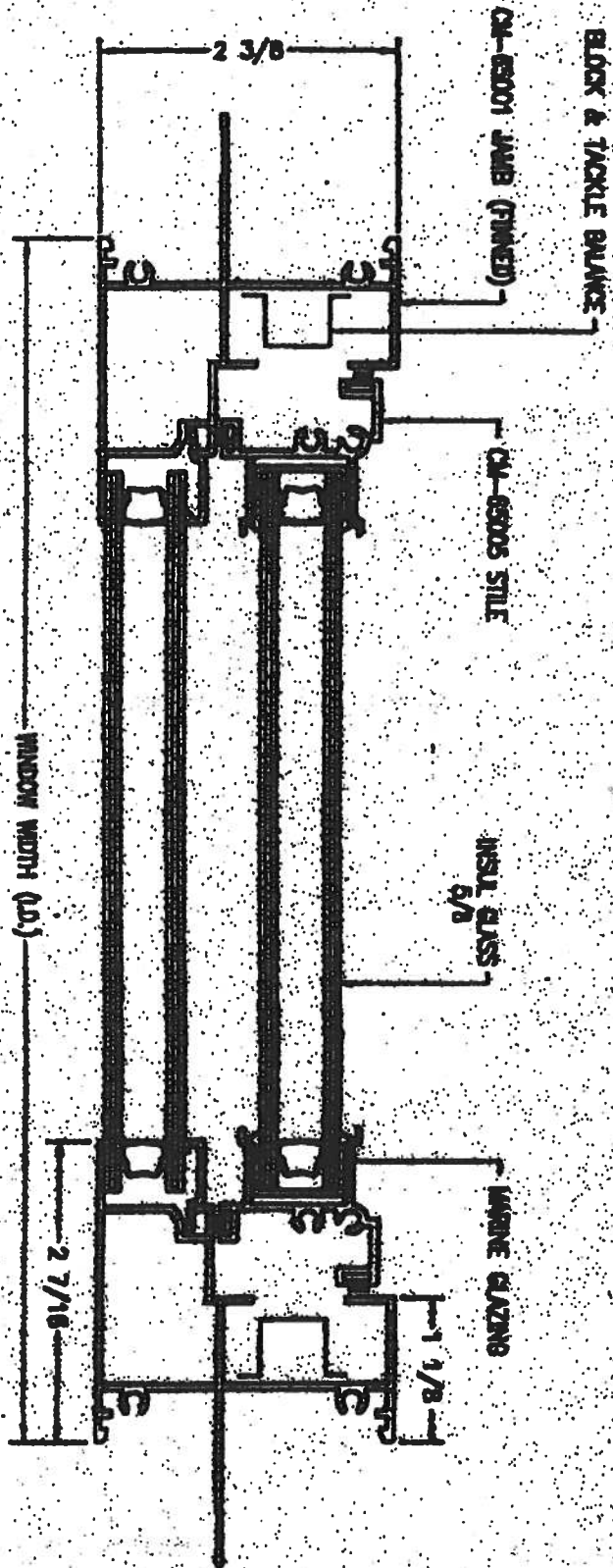
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4-7-92

FILE

650-AS1

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**MI HOME PRODUCTS**  
 650 SH FIN JAMB FINED INSULATED  
 GLASS HORIZONTAL CROSS SECTION  
 650-AS2

# TAMKO

ROOFING PRODUCTS

(CONTINUED from Pg. 2)

• Glass-Seal  
• Glass-Seal AR

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

## THREE-TAB ASPHALT SHINGLES

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

### 5. RE-ROOFING

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

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

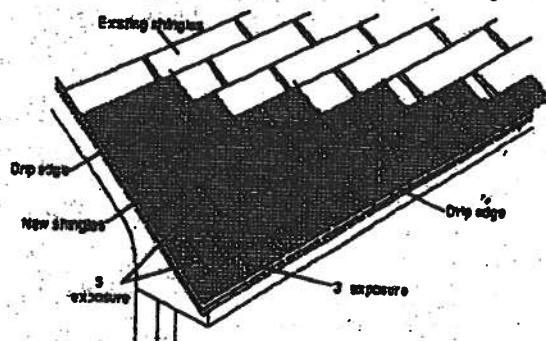
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

The nesting procedure described below is the preferred method for re-roofing over square tab strip 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. tabs 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.

**Final 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 50 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.

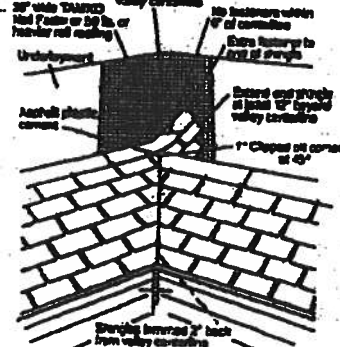
**Note:** For a neater installation, snap a chalkline over the shingles for guidance.

- 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)

Visit Our Web Site at  
[www.tamko.com](http://www.tamko.com)

Central District  
Northeast District  
Southeast District  
Southwest District  
Western District

220 West 4th St., Joplin, MO 64801  
4500 Tamko Dr., Frederick, MD 21701  
2300 35th St., Tuscaloosa, AL 35401  
7910 S. Central Exp., Dallas, TX 75216  
5300 East 43rd Ave., Denver, CO 80216

800-641-4691  
800-368-2055  
800-228-2656  
800-443-1834  
800-530-8868

07/01



FEB - 4 REGD

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.

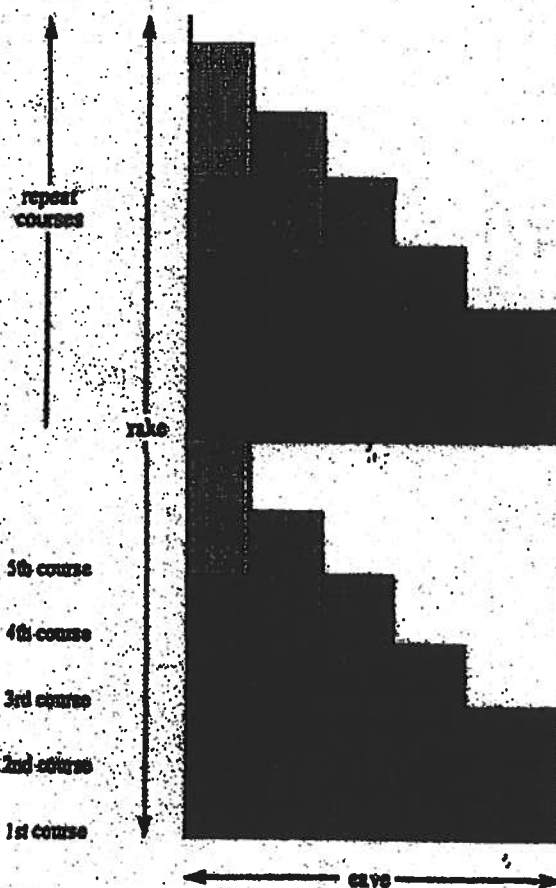
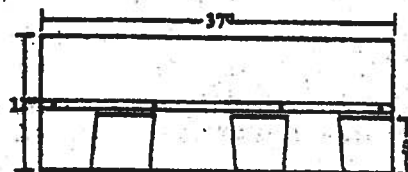
**TAMKO Roofing Products, Inc.**





## 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
  - Elite Glass-Seal®
  - Glass-Seal AR
  - 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 rakes.

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

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

#### 2. VENTILATION

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

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

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

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

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

#### 3. FASTENING

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

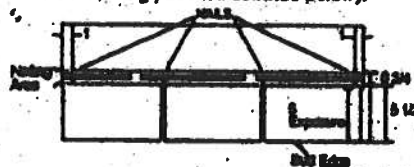
**WIND CAUTION:** Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

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

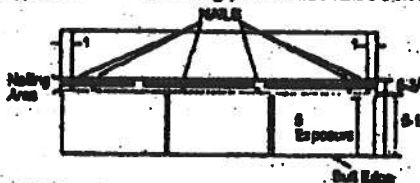
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

**FASTENING PATTERNS:** Fasteners must be placed above or below the factory applied sealant in an area between 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 5 fasteners per shingle. (See Mansard fastening pattern illustrated below.)



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

(Continued)

Visit Our Web Site at  
[www.tamko.com](http://www.tamko.com)

|                    |                                        |              |
|--------------------|----------------------------------------|--------------|
| Central District   | 220 West 4th St., Joplin, MO 64801     | 800-841-4691 |
| Northeast District | 4500 Tamko Dr., Frederick, MD 21701    | 800-368-2066 |
| Southeast District | 2300 38th St., Tuscaloosa, AL 35401    | 800-228-2886 |
| Southwest District | 7910 S. Central Exp., Dallas, TX 75216 | 800-443-1834 |
| Western District   | 6300 East 43rd Ave., Denver, CO 80216  | 800-630-8888 |

07/01

Florida Building Code Online



# Building Code Information System

FLORIDA BUILDING CODE

Overview User Organization User Organization  
Registration Registration Authentication Search 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                 | Expiry     | Status   |
|-------------------------------------------------------------|------------|----------------|-------------|----------------------|------------|----------|
| General American Door                                       | Montgomery | James Campbell | (606)393000 | Product Manufacturer | 01/01/2009 | Approved |
| Org Codes PDM System IDs: 3385                              |            |                |             |                      |            |          |
| Site Link: <a href="http://www.gadec.com">www.gadec.com</a> |            |                |             |                      |            |          |

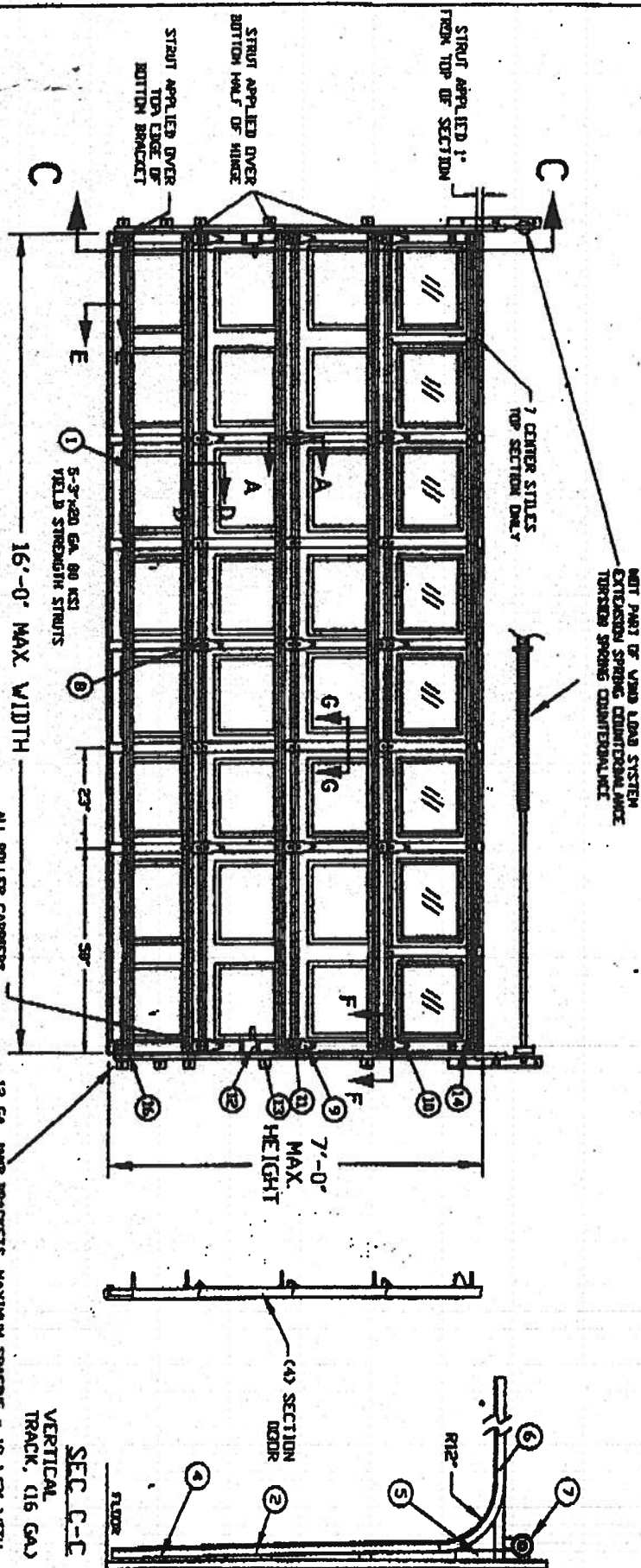
Displaying 1-1 of 1

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[http://www.floridabuilding.org/Codesetc\\_org\\_page\\_SEARCH.asp](http://www.floridabuilding.org/Codesetc_org_page_SEARCH.asp)

| REV. | DATE     | BY | DESCRIPTION  |
|------|----------|----|--------------|
| 1    | 11-18-00 | WV | SEE C&M, EIT |

- NOTES:**
1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF FBT PRESSURES PER ASTM E-330
  2. MAXIMUM SECTION HEIGHT = 21'
  3. SECTION HEIGHTS OF 21'0" AND 19'0" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DEER HEIGHTS.
  4. VARIOUS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH 1/4" RIB GLASS OR EQUIVALENT OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
  5. MODULUS LENGTH OF ROLLER STUD IS 24" OR AS TESTED
  6. THE STRUT PLACEMENT IN DOOR MUST BE CONSISTENT WITH THE DOOR SIGNA.
  7. STRUTS REQUIRED AT ALL LOCATIONS WITH TIE SCORING.
  8. QUANTITY OF SIDE LOCKS CAN BE 0, 1, OR 2 AS TESTED.
  9. DOOR IN TYPE OF INSULATION IS OPTIONAL.



The seal on this drawing only certifies that the product illustrated and described herein conforms to the dimensions and configurations of the door as tested.



# INSIDE ELEVATION

TEST REPORTS ON FILE VIDEO 10/19/00 000930

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

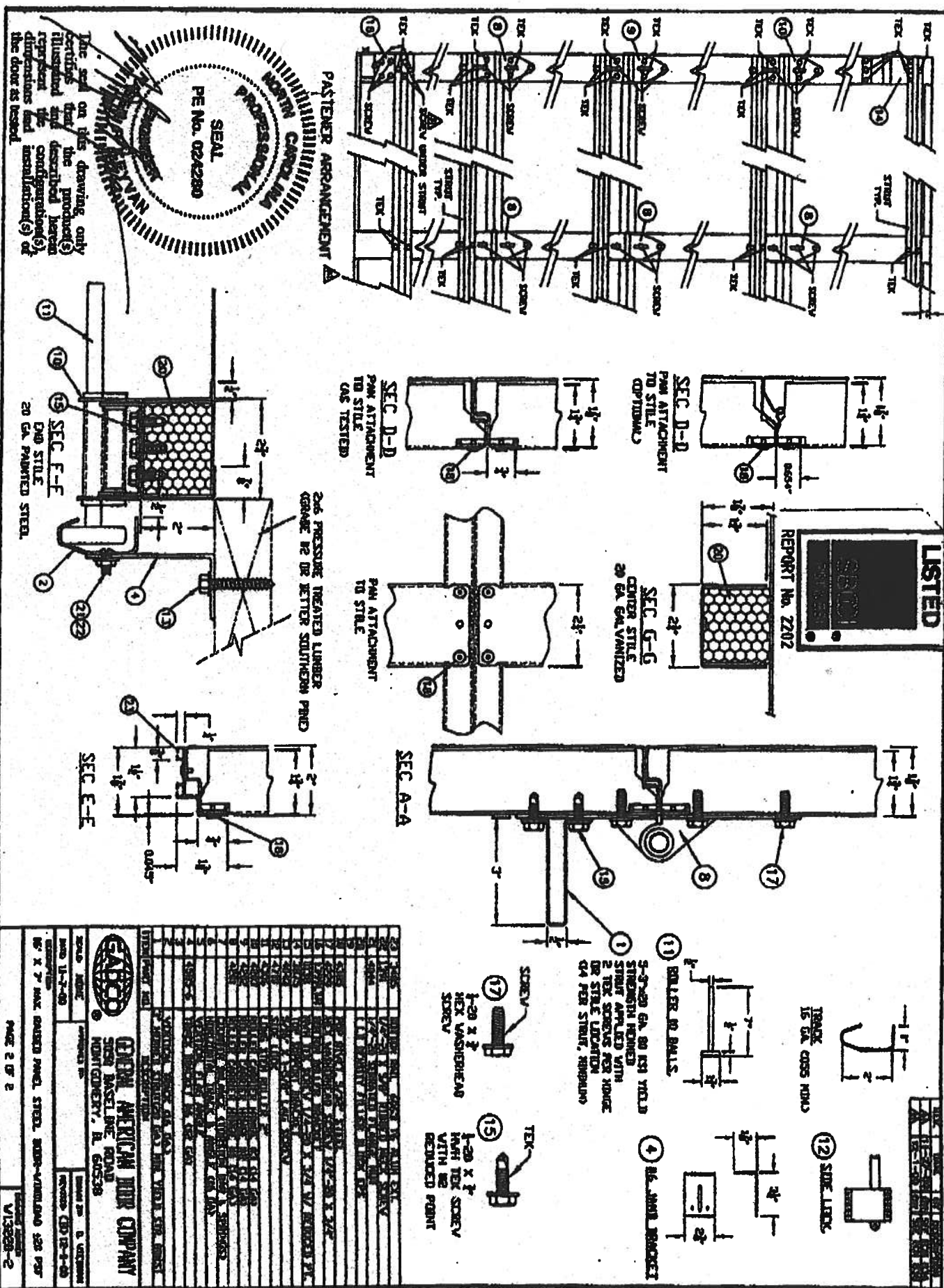
**GADED DOORS**  
SERIES 7400, EXTERIOR STEEL - 407 NON GAS TESTED  
SERIES 7025, EXTERIOR STEEL - 407 NON A  
SERIES 7524, EXTERIOR STEEL - 407 NON A  
TESTED WITH VARIOUS



GENERAL AMERICAN DOOR COMPANY  
5050 BASELINE ROAD  
MONTGOMERY, IL 60058

| MAXIMUM<br>DOOR<br>WIDTH | MAXIMUM<br>DOOR<br>HEIGHT | TYPICAL<br>CTR. STILE<br>SPACING | STILES<br>80 KSI<br>SIZE | VERTICAL<br>TRACK |
|--------------------------|---------------------------|----------------------------------|--------------------------|-------------------|
| 16'                      | 7'                        | 23"                              | 3" 5                     | 2 IN.             |

| DOOR SIZE                                               | APPROVED BY             | REVISION             | DATE     |
|---------------------------------------------------------|-------------------------|----------------------|----------|
| 16' X 7' MAX. RAISED PANEL STEEL DOOR - VINTAGE 400 PSF | APPROVED BY: A. VICKERS | REVISED (A) 11-18-00 | 11-18-00 |





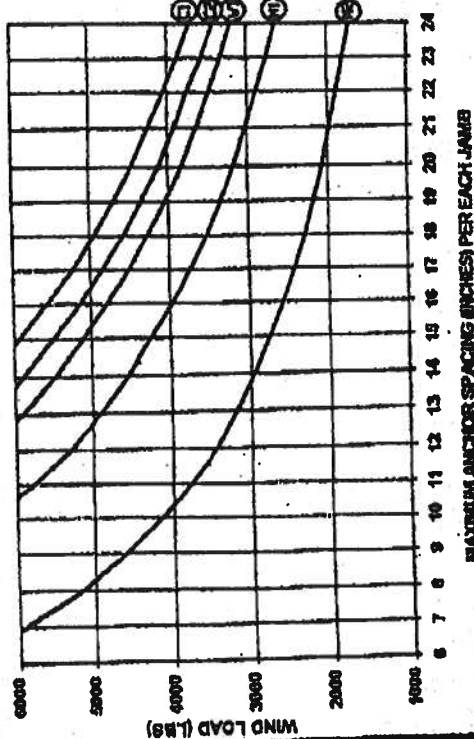
## 2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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 INSTALLATIONS 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 SSB 10," CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUILDINGS STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (22 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT CMU WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2500 PSI GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS CMU SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3'-3/4"
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TYPICAL 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.

WIND LOAD VS. ANCHOR SPACING



MAXIMUM ANCHOR SPACING (INCHES) PER EACH JAMB

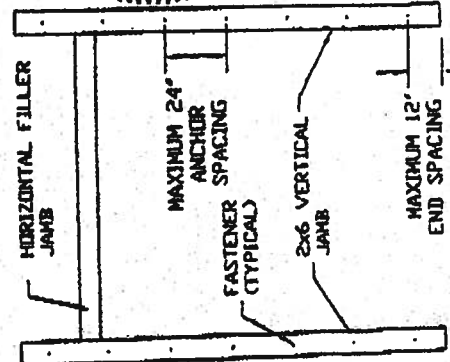
DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)  
LOAD FT<sup>2</sup>

### EXAMPLE

30 LBS / FT<sup>2</sup> X 16 FT WIDE X 8 FT HIGH = 3840 LBS

- ① USE 22" SPACING
- ② USE 21" SPACING
- ③ USE 19" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



|                                                                                          |                                                     |
|------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>GENERAL AMERICAN DOOR COMPANY</b><br>5200 BASELINE ROAD<br>MONTGOMERY, IL 60538       |                                                     |
| ROAD NAME<br>AND 8-30-99<br>COORDINATOR                                                  | OFFICED BY<br>DESIGNED BY<br>DRAWN BY<br>CHECKED BY |
| JAMB TO STRUCTURE ATTACHMENT<br>FOR WIND LOADED GARAGE DOORS<br>PROJECT NUMBER<br>AUG560 |                                                     |



# Victorian

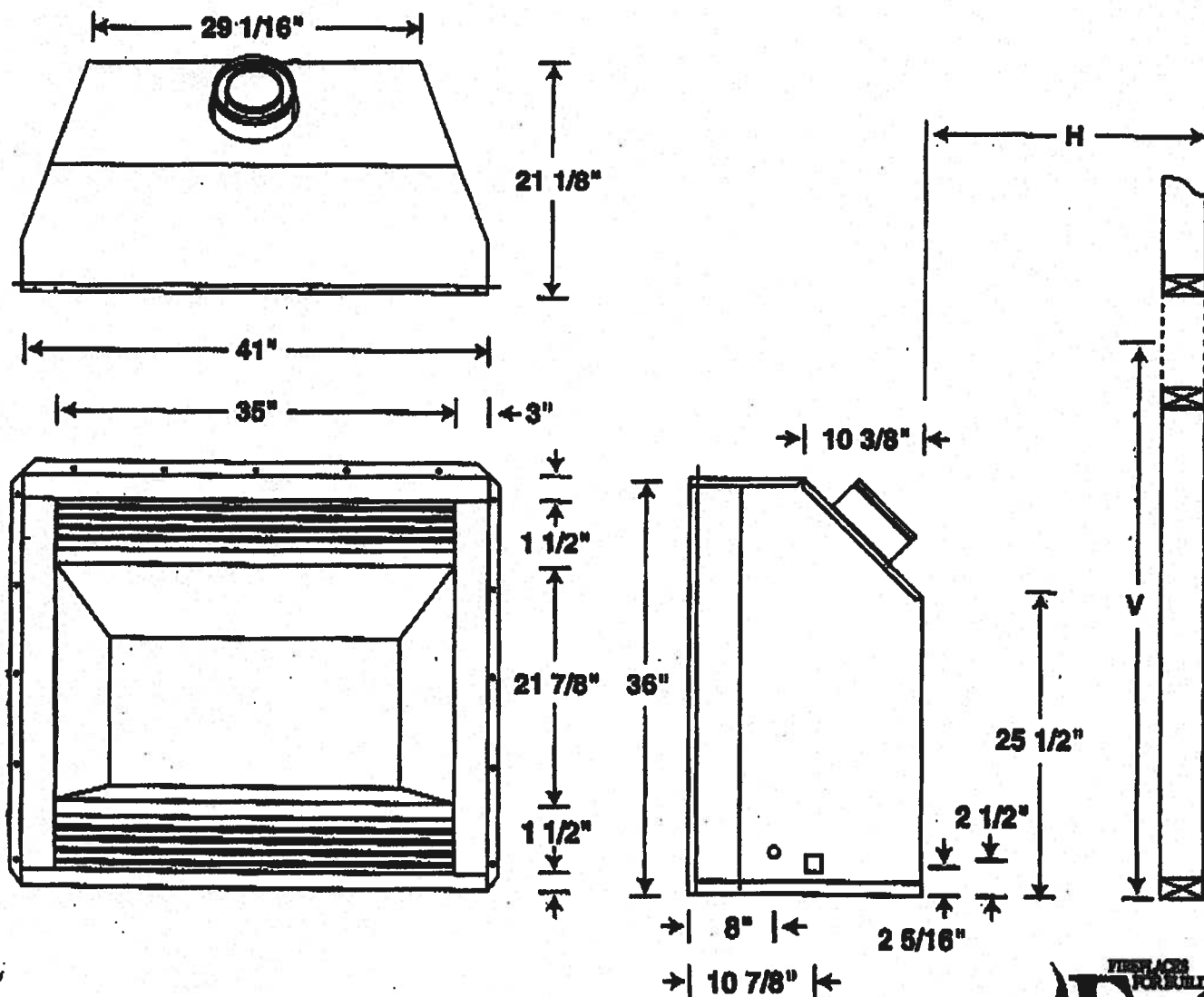
## 36" Direct Vent Fireplace (5" - 8" Vent Pipe)

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

| Horiz.<br>Run (H) | Min.<br>Height (V) | Required<br>Horiz. Pipe |
|-------------------|--------------------|-------------------------|
| 17" max.          | 36"                | 12" max.                |

Installations requiring a 45°  
and 90° Elbow

| Horiz.<br>Run (H) | Min.<br>Height (V) | Required<br>Vent. Pipe |
|-------------------|--------------------|------------------------|
| 30" max.          | 47 1/4"            | none                   |
| 48" max.          | 57 1/4"            | 12"                    |
| 60" max.          | 69 1/4"            | 24"                    |
| 84" max.          | 81 1/4"            | 36"                    |
| 144" max.         | 93 1/4"            | 48"                    |



FIREPLACE  
FOR BUILDERS  
**Fmi**

## THE RENAISSANCE SERIES

*Victorian*36" AND 42" DIRECT VENT GAS FIREPLACES  
Model V36 and V42

## Timeless Beauty— And The Latest Technologies

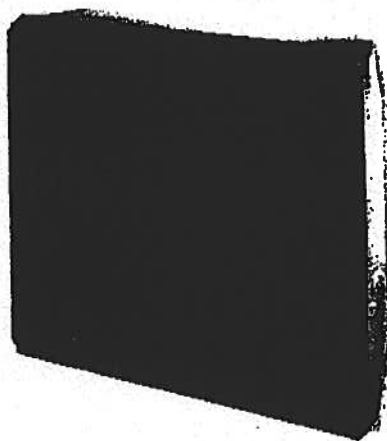
FMI's Victorian direct vent gas fireplaces are the ideal match for today's energy-efficient homes. The Victorian is the centerpiece of our exciting new Renaissance Series, which offers a consistent look, sizing, and construction across the entire line... plus beautiful new features homeowners will love!

### Homeowner Highlights:

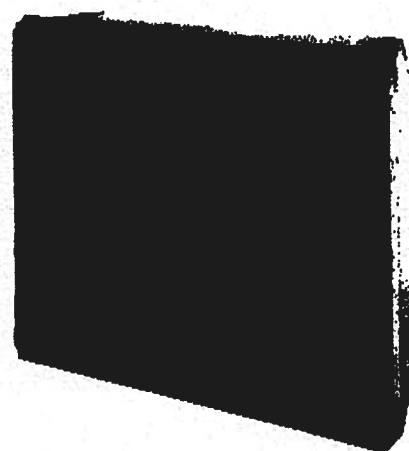
- **Distinctive looks**—Features random flame pattern and realistic glowing ember bed burner... plus exquisite new split oak ceramic fiber logs.
- **Operation and maintenance are a breeze**—Operates from wall switch or remote control. Hinged glass door swings open for easy maintenance and never needs adjustment.
- **Attractive accessories**—You have an array of eye-catching extras, including brass or platinum louvers and trim, realistic textured brick liner kits, and much more.

### Builder Benefits:

- **Secure, straight installation**—We've added full-length nailing flanges, and drywall stops.
- **Venting options**—Our 45° slant back design lets you choose between horizontal and vertical venting for painless installation. Your choice of hard or flexible venting.
- **More standard features**—Flex gas connector, shut-off valve and pre-wired "J" box are all standard.



V36N features black rolled louvers.



V42NH features black rolled louvers and textured herringbone brick-lined interior.

### Victorian Direct Vent Fireplace Product Offering Summary

36" & 42" Direct Vent Fireplace Models Available With The Following:

- Millivolt Or Electronic Ignition
- Natural Or Propane Fuel
- Black, Standard Brick, And Herringbone Pattern Refractory Brick Interiors
- All fireplaces use 5" - 8" pipe. 36" models @ 32,000 Btu/42" models @ 35,000 Btu.



Victorian models offer random, tiered flame patterns and gorgeous glowing ember bed burners.

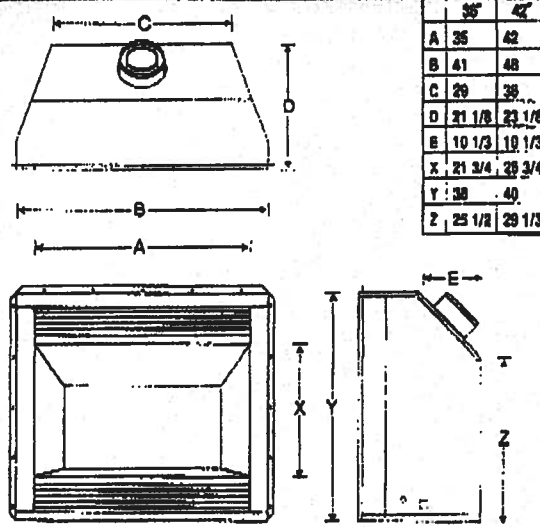


Hinged, tool-less entry door swings open for easy maintenance.

### Accessory Offering Summary

- Smooth Face, Stamped Steel and Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Standard & Herringbone Refractory Brick Liners
- Remote Control Kits
- Fan Kits
- Deflection Hoods

### Dimensions



FIREPLACES  
FOR BUILDERS  
**Fmi**

DESA International  
www.desaint.com

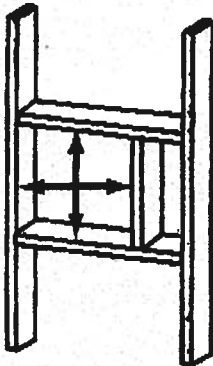
For more information, call (800) 888-2050

# Victorian

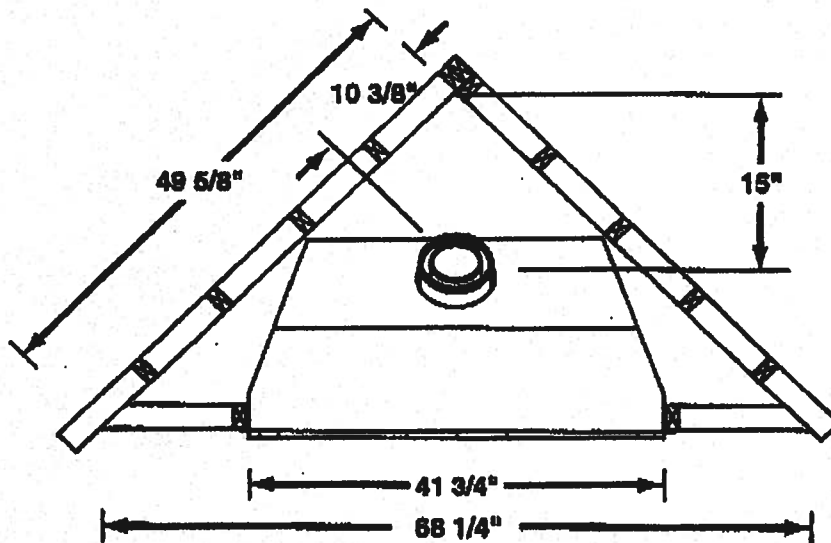
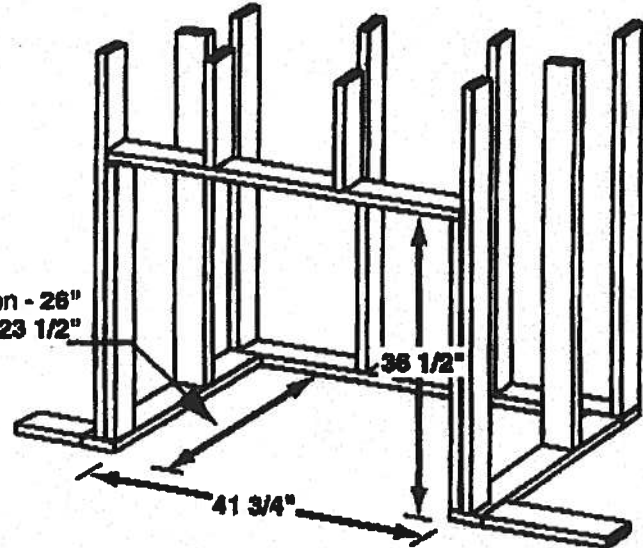
## 36" Direct Vent Fireplace

### Framing Dimensions

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



Vertical Termination - 26"  
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

FIREPLACE  
FOR BUILT  
**Fmi**

# Residential System Sizing Calculation

## Summary

Spec House

Project Title:  
608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

, FL

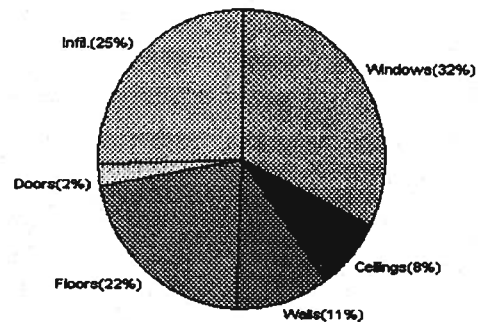
8/21/2006

|                                                                                                 |                   |                                       |                   |
|-------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| 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              |
| <b>Total heating load calculation</b>                                                           | <b>44864 Btuh</b> | <b>Total cooling load calculation</b> | <b>41686 Btuh</b> |
| Submitted heating capacity                                                                      | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)                                                                      | 115.9 52000       | Sensible (SHR = 0.75)                 | 112.0 39000       |
| Heat Pump + Auxiliary(0.0kW)                                                                    | 115.9 52000       | Latent                                | 189.7 13000       |
|                                                                                                 |                   | Total (Electric Heat Pump)            | 124.7 52000       |

## WINTER CALCULATIONS

Winter Heating Load (for 2818 sqft)

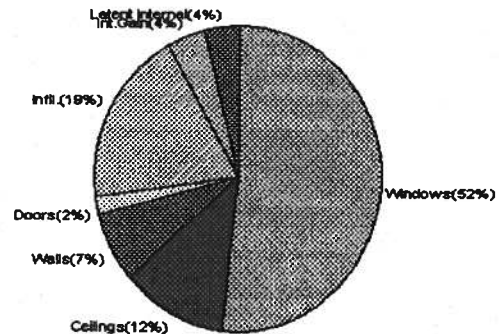
| Load component         |           | Load              |
|------------------------|-----------|-------------------|
| Window total           | 452 sqft  | 14550 Btuh        |
| Wall total             | 1465 sqft | 4811 Btuh         |
| Door total             | 80 sqft   | 1036 Btuh         |
| Ceiling total          | 2948 sqft | 3474 Btuh         |
| Floor total            | 222 sqft  | 9693 Btuh         |
| Infiltration           | 279 cfm   | 11301 Btuh        |
| Duct loss              |           | 0 Btuh            |
| <b>Subtotal</b>        |           | <b>44864 Btuh</b> |
| Ventilation            | 0 cfm     | 0 Btuh            |
| <b>TOTAL HEAT LOSS</b> |           | <b>44864 Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 2818 sqft)

| Load component                        |           | Load              |
|---------------------------------------|-----------|-------------------|
| Window total                          | 452 sqft  | 21597 Btuh        |
| Wall total                            | 1465 sqft | 3056 Btuh         |
| Door total                            | 80 sqft   | 784 Btuh          |
| Ceiling total                         | 2948 sqft | 4882 Btuh         |
| Floor total                           |           | 0 Btuh            |
| Infiltration                          | 144 cfm   | 2675 Btuh         |
| Internal gain                         |           | 1840 Btuh         |
| Duct gain                             |           | 0 Btuh            |
| Sens. Ventilation                     | 0 cfm     | 0 Btuh            |
| <b>Total sensible gain</b>            |           | <b>34834 Btuh</b> |
| Latent gain(ducts)                    |           | 0 Btuh            |
| Latent gain(infiltration)             |           | 5252 Btuh         |
| Latent gain(ventilation)              |           | 0 Btuh            |
| Latent gain(internal/occupants/other) |           | 1600 Btuh         |
| <b>Total latent gain</b>              |           | <b>6852 Btuh</b>  |
| <b>TOTAL HEAT GAIN</b>                |           | <b>41686 Btuh</b> |



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 8-21-06

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Spec House  
, FL

Project Title:  
608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/21/2006

| Component Loads for Whole House |                                                            |             |              |       |            |
|---------------------------------|------------------------------------------------------------|-------------|--------------|-------|------------|
| Window                          | Panes/SHGC/Frame/U                                         | Orientation | Area(sqft) X | HTM=  | Load       |
| 1                               | 2, Clear, Metal, 0.87                                      | NW          | 24.7         | 32.2  | 795 Btuh   |
| 2                               | 2, Clear, Metal, 0.87                                      | NW          | 32.9         | 32.2  | 1059 Btuh  |
| 3                               | 2, Clear, Metal, 0.87                                      | NW          | 24.7         | 32.2  | 795 Btuh   |
| 4                               | 2, Clear, Metal, 0.87                                      | N           | 24.7         | 32.2  | 795 Btuh   |
| 5                               | 2, Clear, Metal, 0.87                                      | NW          | 57.6         | 32.2  | 1854 Btuh  |
| 6                               | 2, Clear, Metal, 0.87                                      | NW          | 20.0         | 32.2  | 644 Btuh   |
| 7                               | 2, Clear, Metal, 0.87                                      | W           | 11.7         | 32.2  | 377 Btuh   |
| 8                               | 2, Clear, Metal, 0.87                                      | NW          | 27.2         | 32.2  | 876 Btuh   |
| 9                               | 2, Clear, Metal, 0.87                                      | N           | 13.6         | 32.2  | 438 Btuh   |
| 10                              | 2, Clear, Metal, 0.87                                      | NE          | 9.7          | 32.2  | 312 Btuh   |
| 11                              | 2, Clear, Metal, 0.87                                      | SE          | 19.4         | 32.2  | 624 Btuh   |
| 12                              | 2, Clear, Metal, 0.87                                      | SE          | 24.7         | 32.2  | 795 Btuh   |
| 13                              | 2, Clear, Metal, 0.87                                      | SE          | 45.2         | 32.2  | 1455 Btuh  |
| 14                              | 2, Clear, Metal, 0.87                                      | SE          | 24.7         | 32.2  | 795 Btuh   |
| 15                              | 2, Clear, Metal, 0.87                                      | SE          | 20.0         | 32.2  | 644 Btuh   |
| 16                              | 2, Clear, Metal, 0.87                                      | SW          | 62.2         | 32.2  | 2002 Btuh  |
| 17                              | 2, Clear, Metal, 0.87                                      | SW          | 9.0          | 32.2  | 290 Btuh   |
| Window Total                    |                                                            |             | 452(sqft)    |       | 14550 Btuh |
| Walls                           | Type                                                       | R-Value     | Area X       | HTM=  | Load       |
| 1                               | Frame - Wood - Ext(0.09)                                   | 13.0        | 1275         | 3.3   | 4187 Btuh  |
| 2                               | Frame - Wood - Ext(0.09)                                   | 13.0        | 190          | 3.3   | 624 Btuh   |
| Wall Total                      |                                                            |             | 1465         |       | 4811 Btuh  |
| Doors                           | Type                                                       |             | Area X       | HTM=  | Load       |
| 1                               | Insulated - Adjacent                                       |             | 20           | 12.9  | 259 Btuh   |
| 2                               | Insulated - Exterior                                       |             | 20           | 12.9  | 259 Btuh   |
| 3                               | Insulated - Exterior                                       |             | 40           | 12.9  | 518 Btuh   |
| Door Total                      |                                                            |             | 80           |       | 1036Btuh   |
| Ceilings                        | Type/Color/Surface                                         | R-Value     | Area X       | HTM=  | Load       |
| 1                               | Vented Attic(D/Shin)                                       | 30.0        | 2948         | 1.2   | 3474 Btuh  |
| Ceiling Total                   |                                                            |             | 2948         |       | 3474Btuh   |
| Floors                          | Type                                                       | R-Value     | Size X       | HTM=  | Load       |
| 1                               | Slab On Grade                                              | 0           | 222.0 ft(p)  | 43.7  | 9693 Btuh  |
| Floor Total                     |                                                            |             | 222          |       | 9693 Btuh  |
| Zone Envelope Subtotal:         |                                                            |             |              |       | 33563 Btuh |
| Infiltration                    | Type                                                       | ACH X       | Zone Volume  | CFM=  | Load       |
|                                 | Natural                                                    | 0.66        | 25362        | 279.0 | 11301 Btuh |
| Ductload                        | Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00) |             |              |       | 0 Btuh     |
| Zone #1                         | Sensible Zone Subtotal                                     |             |              |       | 44864 Btuh |



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House  
, FL

Project Title:  
608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

8/21/2006

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 44864 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 44864 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

Spec House

Project Title:

Class 3 Rating

608155BlakeConstruction\Lot18CountryLakeinWoo

Registration No. 0

, FL

Climate: North

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

8/21/2006

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

| Component Loads for Zone #1: Main |                                                            |             |             |       |            |
|-----------------------------------|------------------------------------------------------------|-------------|-------------|-------|------------|
| Window                            | Panes/SHGC/Frame/U                                         | Orientation | Area(sqft)  | X     | HTM=       |
| 1                                 | 2, Clear, Metal, 0.87                                      | NW          | 24.7        |       | 32.2       |
| 2                                 | 2, Clear, Metal, 0.87                                      | NW          | 32.9        |       | 32.2       |
| 3                                 | 2, Clear, Metal, 0.87                                      | NW          | 24.7        |       | 32.2       |
| 4                                 | 2, Clear, Metal, 0.87                                      | N           | 24.7        |       | 32.2       |
| 5                                 | 2, Clear, Metal, 0.87                                      | NW          | 57.6        |       | 32.2       |
| 6                                 | 2, Clear, Metal, 0.87                                      | NW          | 20.0        |       | 32.2       |
| 7                                 | 2, Clear, Metal, 0.87                                      | W           | 11.7        |       | 32.2       |
| 8                                 | 2, Clear, Metal, 0.87                                      | NW          | 27.2        |       | 32.2       |
| 9                                 | 2, Clear, Metal, 0.87                                      | N           | 13.6        |       | 32.2       |
| 10                                | 2, Clear, Metal, 0.87                                      | NE          | 9.7         |       | 32.2       |
| 11                                | 2, Clear, Metal, 0.87                                      | SE          | 19.4        |       | 32.2       |
| 12                                | 2, Clear, Metal, 0.87                                      | SE          | 24.7        |       | 32.2       |
| 13                                | 2, Clear, Metal, 0.87                                      | SE          | 45.2        |       | 32.2       |
| 14                                | 2, Clear, Metal, 0.87                                      | SE          | 24.7        |       | 32.2       |
| 15                                | 2, Clear, Metal, 0.87                                      | SE          | 20.0        |       | 32.2       |
| 16                                | 2, Clear, Metal, 0.87                                      | SW          | 62.2        |       | 32.2       |
| 17                                | 2, Clear, Metal, 0.87                                      | SW          | 9.0         |       | 32.2       |
| Window Total                      |                                                            |             | 452(sqft)   |       |            |
|                                   |                                                            |             |             |       | 14550 Btuh |
| Walls                             | Type                                                       | R-Value     | Area        | X     | HTM=       |
| 1                                 | Frame - Wood - Ext(0.09)                                   | 13.0        | 1275        |       | 3.3        |
| 2                                 | Frame - Wood - Ext(0.09)                                   | 13.0        | 190         |       | 3.3        |
| Wall Total                        |                                                            |             | 1465        |       |            |
|                                   |                                                            |             |             |       | 4811 Btuh  |
| Doors                             | Type                                                       |             | Area        | X     | HTM=       |
| 1                                 | Insulated - Adjacent                                       |             | 20          |       | 12.9       |
| 2                                 | Insulated - Exterior                                       |             | 20          |       | 12.9       |
| 3                                 | Insulated - Exterior                                       |             | 40          |       | 12.9       |
| Door Total                        |                                                            |             | 80          |       |            |
|                                   |                                                            |             |             |       | 1036 Btuh  |
| Ceilings                          | Type/Color/Surface                                         | R-Value     | Area        | X     | HTM=       |
| 1                                 | Vented Attic(D/Shin)                                       | 30.0        | 2948        |       | 1.2        |
| Ceiling Total                     |                                                            |             | 2948        |       |            |
|                                   |                                                            |             |             |       | 3474 Btuh  |
| Floors                            | Type                                                       | R-Value     | Size        | X     | HTM=       |
| 1                                 | Slab On Grade                                              | 0           | 222.0       | ft(p) | 43.7       |
| Floor Total                       |                                                            |             | 222         |       |            |
|                                   |                                                            |             |             |       | 9693 Btuh  |
| Zone Envelope Subtotal:           |                                                            |             |             |       | 33563 Btuh |
| Infiltration                      | Type                                                       | ACH X       | Zone Volume | CFM=  |            |
|                                   | Natural                                                    | 0.66        | 25362       | 279.0 |            |
|                                   |                                                            |             |             |       | 11301 Btuh |
| Ductload                          | Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00) |             |             |       | 0 Btuh     |
| Zone #1                           | Sensible Zone Subtotal                                     |             |             |       | 44864 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House

Project Title:

Class 3 Rating

608155BlakeConstruction\Lot18CountryLakeinWoo

Registration No. 0

, FL

Climate: North

8/21/2006

### WHOLE HOUSE TOTALS

|  |                                                              |                                    |
|--|--------------------------------------------------------------|------------------------------------|
|  | Subtotal Sensible<br>Ventilation Sensible<br>Total Btuh Loss | 44864 Btuh<br>0 Btuh<br>44864 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

Spec House

Project Title:  
608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/21/2006

### Component Loads for Whole House

| Window                  | Type*                                        | Ornt            | Overhang |               | Window Area(sqft) |              |           | HTM        |           | Load       |            |
|-------------------------|----------------------------------------------|-----------------|----------|---------------|-------------------|--------------|-----------|------------|-----------|------------|------------|
|                         | Pn/SHGC/U/InSh/ExSh/IS                       |                 | Len      | Hgt           | Gross             | Shaded       | Unshaded  | Shaded     | Unshaded  |            |            |
| 1                       | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 0ft.          | 24.7              | 0.0          | 24.7      | 29         | 60        | 1483 Btuh  |            |
| 2                       | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 0ft.          | 32.9              | 0.0          | 32.9      | 29         | 60        | 1975 Btuh  |            |
| 3                       | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 7.5ft.        | 24.7              | 0.0          | 24.7      | 29         | 60        | 1483 Btuh  |            |
| 4                       | 2, Clear, 0.87, None,N,N                     | N               | 1.5ft.   | 7.5ft.        | 24.7              | 0.0          | 24.7      | 29         | 29        | 715 Btuh   |            |
| 5                       | 2, Clear, 0.87, None,N,N                     | NW              | 7ft.     | 7.5ft.        | 57.6              | 0.0          | 57.6      | 29         | 60        | 3458 Btuh  |            |
| 6                       | 2, Clear, 0.87, None,N,N                     | NW              | 7ft.     | 6.5ft.        | 20.0              | 0.0          | 20.0      | 29         | 60        | 1201 Btuh  |            |
| 7                       | 2, Clear, 0.87, None,N,N                     | W               | 13ft.    | 6.5ft.        | 11.7              | 11.7         | 0.0       | 29         | 80        | 339 Btuh   |            |
| 8                       | 2, Clear, 0.87, None,N,N                     | NW              | 6ft.     | 6.5ft.        | 27.2              | 0.0          | 27.2      | 29         | 60        | 1633 Btuh  |            |
| 9                       | 2, Clear, 0.87, None,N,N                     | N               | 13ft.    | 6.5ft.        | 13.6              | 0.0          | 13.6      | 29         | 29        | 394 Btuh   |            |
| 10                      | 2, Clear, 0.87, None,N,N                     | NE              | 1.5ft.   | 5.5ft.        | 9.7               | 0.0          | 9.7       | 29         | 60        | 582 Btuh   |            |
| 11                      | 2, Clear, 0.87, None,N,N                     | SE              | 1.5ft.   | 5.5ft.        | 19.4              | 5.5          | 13.9      | 29         | 63        | 1027 Btuh  |            |
| 12                      | 2, Clear, 0.87, None,N,N                     | SE              | 7ft.     | 7.5ft.        | 24.7              | 24.7         | 0.0       | 29         | 63        | 715 Btuh   |            |
| 13                      | 2, Clear, 0.87, None,N,N                     | SE              | 7ft.     | 7.5ft.        | 45.2              | 45.2         | 0.0       | 29         | 63        | 1309 Btuh  |            |
| 14                      | 2, Clear, 0.87, None,N,N                     | SE              | 7ft.     | 7.5ft.        | 24.7              | 24.7         | 0.0       | 29         | 63        | 715 Btuh   |            |
| 15                      | 2, Clear, 0.87, None,N,N                     | SE              | 10ft.    | 8ft.          | 20.0              | 20.0         | 0.0       | 29         | 63        | 579 Btuh   |            |
| 16                      | 2, Clear, 0.87, None,N,N                     | SW              | 1.5ft.   | 7.25f         | 62.2              | 11.8         | 50.4      | 29         | 63        | 3493 Btuh  |            |
| 17                      | 2, Clear, 0.87, None,N,N                     | SW              | 1.5ft.   | 6ft.          | 9.0               | 2.0          | 7.0       | 29         | 63        | 494 Btuh   |            |
| Window Total            |                                              |                 |          |               |                   | 452 (sqft)   |           |            |           |            | 21597 Btuh |
| Walls                   | Type                                         | R-Value/U-Value |          | Area(sqft)    |                   |              | HTM       |            | Load      |            |            |
| 1                       | Frame - Wood - Ext                           | 13.0/0.09       |          | 1275.0        |                   |              | 2.1       |            | 2659 Btuh |            |            |
| 2                       | Frame - Wood - Ext                           | 13.0/0.09       |          | 190.0         |                   |              | 2.1       |            | 396 Btuh  |            |            |
| Wall Total              |                                              |                 |          |               |                   | 1465 (sqft)  |           |            | 3056 Btuh |            |            |
| Doors                   | Type                                         |                 |          |               | Area (sqft)       |              | HTM       |            | Load      |            |            |
| 1                       | Insulated - Adjacent                         |                 |          |               | 20.0              |              | 9.8       |            | 196 Btuh  |            |            |
| 2                       | Insulated - Exterior                         |                 |          |               | 20.0              |              | 9.8       |            | 196 Btuh  |            |            |
| 3                       | Insulated - Exterior                         |                 |          |               | 40.0              |              | 9.8       |            | 392 Btuh  |            |            |
| Door Total              |                                              |                 |          |               |                   | 80 (sqft)    |           |            |           | 784 Btuh   |            |
| Ceilings                | Type/Color/Surface                           | R-Value         |          | Area(sqft)    |                   |              | HTM       |            | Load      |            |            |
| 1                       | Vented Attic/DarkShingle                     | 30.0            |          | 2948.0        |                   |              | 1.7       |            | 4882 Btuh |            |            |
| Ceiling Total           |                                              |                 |          |               |                   | 2948 (sqft)  |           |            | 4882 Btuh |            |            |
| Floors                  | Type                                         | R-Value         |          | Size          |                   |              | HTM       |            | Load      |            |            |
| 1                       | Slab On Grade                                | 0.0             |          | 222 (ft(p))   |                   |              | 0.0       |            | 0 Btuh    |            |            |
| Floor Total             |                                              |                 |          |               |                   | 222.0 (sqft) |           |            | 0 Btuh    |            |            |
| Zone Envelope Subtotal: |                                              |                 |          |               |                   |              |           |            |           | 30319 Btuh |            |
| Infiltration            | Type                                         | ACH             |          | Volume(cuft)  |                   |              | CFM=      |            | Load      |            |            |
|                         | SensibleNatural                              | 0.34            |          | 25362         |                   |              | 143.7     |            | 2675 Btuh |            |            |
| Internal gain           | Occupants                                    |                 |          | Btuh/occupant |                   |              | Appliance |            | Load      |            |            |
|                         | 8                                            |                 |          | X 230 +       |                   |              | 0         |            | 1840 Btuh |            |            |
| Duct load               | Unsealed, R6.0, Supply(Attic), Return(Attic) |                 |          |               |                   |              |           | DGM = 0.00 |           | 0.0 Btuh   |            |
| Sensible Zone Load      |                                              |                 |          |               |                   |              |           |            |           | 34834 Btuh |            |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House  
, FL

Project Title:  
608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

8/21/2006

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>34834 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>34834 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>34834 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 5252 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            |
|                                           | <b>Latent total gain</b>                                  | <b>6852 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>41686 Btuh</b> |

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



For Florida residences only



# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Spec House

Project Title:

608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating

Registration No. 0

Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/21/2006

### Component Loads for Zone #1: Main

| Window        | Type*                                        | Ornt            | Overhang      |              | Window Area(sqft) |        |           | HTM        |            | Load       |
|---------------|----------------------------------------------|-----------------|---------------|--------------|-------------------|--------|-----------|------------|------------|------------|
|               | Pn/SHGC/U/InSh/ExSh/IS                       |                 | Len           | Hgt          | Gross             | Shaded | Unshaded  | Shaded     | Unshaded   |            |
| 1             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.        | 0ft.         | 24.7              | 0.0    | 24.7      | 29         | 60         | 1483 Btuh  |
| 2             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.        | 0ft.         | 32.9              | 0.0    | 32.9      | 29         | 60         | 1975 Btuh  |
| 3             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.        | 7.5ft.       | 24.7              | 0.0    | 24.7      | 29         | 60         | 1483 Btuh  |
| 4             | 2, Clear, 0.87, None,N,N                     | N               | 1.5ft.        | 7.5ft.       | 24.7              | 0.0    | 24.7      | 29         | 29         | 715 Btuh   |
| 5             | 2, Clear, 0.87, None,N,N                     | NW              | 7ft.          | 7.5ft.       | 57.6              | 0.0    | 57.6      | 29         | 60         | 3458 Btuh  |
| 6             | 2, Clear, 0.87, None,N,N                     | NW              | 7ft.          | 6.5ft.       | 20.0              | 0.0    | 20.0      | 29         | 60         | 1201 Btuh  |
| 7             | 2, Clear, 0.87, None,N,N                     | W               | 13ft.         | 6.5ft.       | 11.7              | 11.7   | 0.0       | 29         | 80         | 339 Btuh   |
| 8             | 2, Clear, 0.87, None,N,N                     | NW              | 6ft.          | 6.5ft.       | 27.2              | 0.0    | 27.2      | 29         | 60         | 1633 Btuh  |
| 9             | 2, Clear, 0.87, None,N,N                     | N               | 13ft.         | 6.5ft.       | 13.6              | 0.0    | 13.6      | 29         | 29         | 394 Btuh   |
| 10            | 2, Clear, 0.87, None,N,N                     | NE              | 1.5ft.        | 5.5ft.       | 9.7               | 0.0    | 9.7       | 29         | 60         | 582 Btuh   |
| 11            | 2, Clear, 0.87, None,N,N                     | SE              | 1.5ft.        | 5.5ft.       | 19.4              | 5.5    | 13.9      | 29         | 63         | 1027 Btuh  |
| 12            | 2, Clear, 0.87, None,N,N                     | SE              | 7ft.          | 7.5ft.       | 24.7              | 24.7   | 0.0       | 29         | 63         | 715 Btuh   |
| 13            | 2, Clear, 0.87, None,N,N                     | SE              | 7ft.          | 7.5ft.       | 45.2              | 45.2   | 0.0       | 29         | 63         | 1309 Btuh  |
| 14            | 2, Clear, 0.87, None,N,N                     | SE              | 7ft.          | 7.5ft.       | 24.7              | 24.7   | 0.0       | 29         | 63         | 715 Btuh   |
| 15            | 2, Clear, 0.87, None,N,N                     | SE              | 10ft.         | 8ft.         | 20.0              | 20.0   | 0.0       | 29         | 63         | 579 Btuh   |
| 16            | 2, Clear, 0.87, None,N,N                     | SW              | 1.5ft.        | 7.25f        | 62.2              | 11.8   | 50.4      | 29         | 63         | 3493 Btuh  |
| 17            | 2, Clear, 0.87, None,N,N                     | SW              | 1.5ft.        | 6ft.         | 9.0               | 2.0    | 7.0       | 29         | 63         | 494 Btuh   |
| Window Total  |                                              |                 |               |              | 452 (sqft)        |        |           |            |            | 21597 Btuh |
| Walls         | Type                                         | R-Value/U-Value |               | Area(sqft)   |                   |        | HTM       |            | Load       |            |
| 1             | Frame - Wood - Ext                           | 13.0/0.09       |               | 1275.0       |                   |        | 2.1       |            | 2659 Btuh  |            |
| 2             | Frame - Wood - Ext                           | 13.0/0.09       |               | 190.0        |                   |        | 2.1       |            | 396 Btuh   |            |
| Wall Total    |                                              |                 |               |              | 1465 (sqft)       |        |           | 3056 Btuh  |            |            |
| Doors         | Type                                         |                 |               |              | Area (sqft)       |        | HTM       |            | Load       |            |
| 1             | Insulated - Adjacent                         |                 |               |              | 20.0              |        | 9.8       |            | 196 Btuh   |            |
| 2             | Insulated - Exterior                         |                 |               |              | 20.0              |        | 9.8       |            | 196 Btuh   |            |
| 3             | Insulated - Exterior                         |                 |               |              | 40.0              |        | 9.8       |            | 392 Btuh   |            |
| Door Total    |                                              |                 |               |              | 80 (sqft)         |        |           |            | 784 Btuh   |            |
| Ceilings      | Type/Color/Surface                           | R-Value         |               | Area(sqft)   |                   |        | HTM       |            | Load       |            |
| 1             | Vented Attic/DarkShingle                     | 30.0            |               | 2948.0       |                   |        | 1.7       |            | 4882 Btuh  |            |
| Ceiling Total |                                              |                 |               |              | 2948 (sqft)       |        |           | 4882 Btuh  |            |            |
| Floors        | Type                                         | R-Value         |               | Size         |                   |        | HTM       |            | Load       |            |
| 1             | Slab On Grade                                | 0.0             |               | 222 (ft(p))  |                   |        | 0.0       |            | 0 Btuh     |            |
| Floor Total   |                                              |                 |               |              | 222.0 (sqft)      |        |           | 0 Btuh     |            |            |
|               | Zone Envelope Subtotal:                      |                 |               |              |                   |        |           |            | 30319 Btuh |            |
| Infiltration  | Type                                         | ACH             |               | Volume(cuft) |                   |        | CFM=      |            | Load       |            |
|               | SensibleNatural                              | 0.34            |               | 25362        |                   |        | 143.7     |            | 2675 Btuh  |            |
| Internal gain | Occupants                                    |                 | Btuh/occupant |              | Appliance         |        | Load      |            |            |            |
|               | 8                                            |                 | X 230 +       |              | 0                 |        | 1840 Btuh |            |            |            |
| Duct load     | Unsealed, R6.0, Supply(Attic), Return(Attic) |                 |               |              |                   |        |           | DGM = 0.00 |            | 0.0 Btuh   |
|               | Sensible Zone Load                           |                 |               |              |                   |        |           |            | 34834 Btuh |            |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House  
, FL

Project Title:  
608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

8/21/2006

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>34834 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>34834 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>34834 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 5252 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            |
|                                           | <b>Latent total gain</b>                                  | <b>6852 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>41686 Btuh</b> |

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



For Florida residences only

# Residential Window Diversity

## MidSummer

Spec House

Project Title:

608155BlakeConstruction\Lot18CountryLakeinWoo

Class 3 Rating  
Registration No. 0  
Climate: North

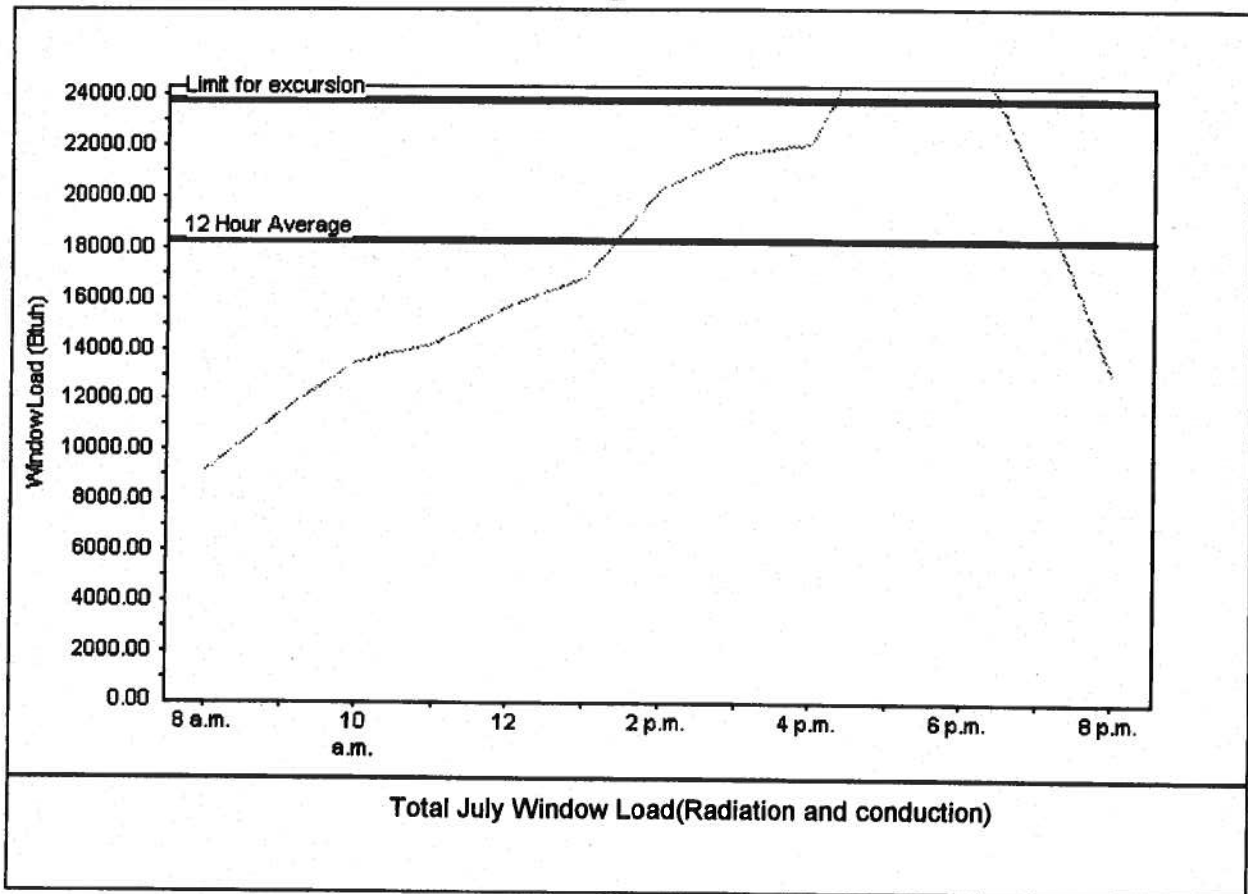
, FL

8/21/2006

Weather data for: Gainesville - Defaults

|                               |          |                               |           |
|-------------------------------|----------|-------------------------------|-----------|
| Summer design temperature     | 92 F     | Average window load for July  | 18324 Btu |
| Summer setpoint               | 75 F     | Peak window load for July     | 27658 Btu |
| Summer temperature difference | 17 F     | Excursion limit(130% of Ave.) | 23822 Btu |
| Latitude                      | 29 North | Window excursion (July)       | 3836 Btuh |

### WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *[Signature]*

EnergyGauge® FLR2PB v4.1



# Notice of Treatment

12367

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: BAYA Ave

City LAKE CITY

Phone 752 1703

Site Location: Subdivision COUNTRY LAKES / LINDENBOROUGH

Lot # 18

Block#

Permit # 24993 PHS II

Address

## Product used

## Active Ingredient

## % Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☒ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

## Type treatment:

☐ Soil

☒ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Drilling

3354

1101

8

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

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

3/20/07  
Date

1200  
Time

F254  
Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05





**CERTIFICATE OF OCCUPANCY**

# 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 22-3S-16-02267-118

Building permit No. 000024993

Use Classification SFD, UTILITY

Fire: 11.16

Permit Holder BLAKE CONSTRUCTION CO

Waste: 33.50

Owner of Building DARBY ROGERS CO

Total: 44.66

Location: 669 NW COUNTRY LAKE DRIVE, LAKE CITY, FL

Date: 08/09/2007

*Harry Dickson*

Building Inspector

**POST IN A CONSPICUOUS PLACE**  
(Business Places Only)





**Project Information for:**

Builder: L207624  
 Lot: BLAKE CONSTRUCTION  
 Subdivision: LOT 18 COUNTRY LAKE  
 County or City: N/A  
 Truss Page Count: COLUMBIA COUNTY  
 97

Date: 8/29/2006  
 Start Number: 1071  
 SEI Ref: L207624

**Truss Design Load Information (UNO)**

Design Program: MiTek

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

Note: See individual truss drawings for special loading conditions

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

LUNDE, BLAKE N II RR 0067618  
 Address: 2250 SW JAGUAR DR  
 LAKE CITY, FL. 32025

Designer: 88

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

Company: Structural Engineering and Inspections, Inc. EB 9196

Address: 16105 N. Florida Ave, Ste B, Lutz, FL 33549 Phone: 813-849-5769

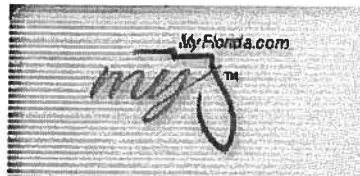
**Notes:**

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

| #  | Truss ID | Dwg. #     | Seal Date | #  | Truss ID | Dwg. #     | Seal Date |
|----|----------|------------|-----------|----|----------|------------|-----------|
| 1  | CJ1B     | 0829061071 | 8/29/2006 | 41 | PB12D    | 0829061112 | 8/29/2006 |
| 2  | CJ1D     | 0829061072 | 8/29/2006 | 42 | PB13     | 0829061113 | 8/29/2006 |
| 3  | CJ1E     | 0829061073 | 8/29/2006 | 43 | PB14     | 0829061114 | 8/29/2006 |
| 4  | CJ1F     | 0829061074 | 8/29/2006 | 44 | PB14A    | 0829061115 | 8/29/2006 |
| 5  | CJ2A     | 0829061075 | 8/29/2006 | 45 | PB14B    | 0829061116 | 8/29/2006 |
| 6  | CJ2B     | 0829061076 | 8/29/2006 | 46 | PB14C    | 0829061117 | 8/29/2006 |
| 7  | CJ2C     | 0829061077 | 8/29/2006 | 47 | PB18     | 0829061118 | 8/29/2006 |
| 8  | CJ2D     | 0829061078 | 8/29/2006 | 48 | PB18A    | 0829061119 | 8/29/2006 |
| 9  | CJ2E     | 0829061079 | 8/29/2006 | 49 | PB18B    | 0829061120 | 8/29/2006 |
| 10 | CJ2F     | 0829061080 | 8/29/2006 | 50 | PB18C    | 0829061121 | 8/29/2006 |
| 11 | CJ3A     | 0829061081 | 8/29/2006 | 51 | PB19     | 0829061122 | 8/29/2006 |
| 12 | CJ3B     | 0829061082 | 8/29/2006 | 52 | PB19A    | 0829061123 | 8/29/2006 |
| 13 | CJ3C     | 0829061083 | 8/29/2006 | 53 | PB23     | 0829061124 | 8/29/2006 |
| 14 | CJ3D     | 0829061084 | 8/29/2006 | 54 | PB23A    | 0829061125 | 8/29/2006 |
| 15 | CJ3E     | 0829061085 | 8/29/2006 | 55 | PB23B    | 0829061126 | 8/29/2006 |
| 16 | CJ4A     | 0829061086 | 8/29/2006 | 56 | PB23C    | 0829061127 | 8/29/2006 |
| 17 | CJ4B     | 0829061087 | 8/29/2006 | 57 | PB33     | 0829061128 | 8/29/2006 |
| 18 | CJ4C     | 0829061088 | 8/29/2006 | 58 | T01      | 0829061129 | 8/29/2006 |
| 19 | EJ4D     | 0829061089 | 8/29/2006 | 59 | T02      | 0829061130 | 8/29/2006 |
| 20 | EJ4DA    | 0829061090 | 8/29/2006 | 60 | T02G     | 0829061131 | 8/29/2006 |
| 21 | EJ5D     | 0829061091 | 8/29/2006 | 61 | T03      | 0829061132 | 8/29/2006 |
| 22 | EJ7E     | 0829061092 | 8/29/2006 | 62 | T04      | 0829061133 | 8/29/2006 |
| 23 | EJ9B     | 0829061093 | 8/29/2006 | 63 | T05      | 0829061134 | 8/29/2006 |
| 24 | EJ10B    | 0829061094 | 8/29/2006 | 64 | T06      | 0829061135 | 8/29/2006 |
| 25 | HJ8E     | 0829061095 | 8/29/2006 | 65 | T07      | 0829061136 | 8/29/2006 |
| 26 | HJ11C    | 0829061096 | 8/29/2006 | 66 | T08      | 0829061137 | 8/29/2006 |
| 27 | HJ14C    | 0829061097 | 8/29/2006 | 67 | T09      | 0829061138 | 8/29/2006 |
| 28 | PB05     | 0829061099 | 8/29/2006 | 68 | T10      | 0829061139 | 8/29/2006 |
| 29 | PB05A    | 0829061100 | 8/29/2006 | 69 | T11      | 0829061140 | 8/29/2006 |
| 30 | PB05B    | 0829061101 | 8/29/2006 | 70 | T12      | 0829061141 | 8/29/2006 |
| 31 | PB05C    | 0829061102 | 8/29/2006 | 71 | T13      | 0829061142 | 8/29/2006 |
| 32 | PB09     | 0829061103 | 8/29/2006 | 72 | T14      | 0829061143 | 8/29/2006 |
| 33 | PB10A    | 0829061104 | 8/29/2006 | 73 | T15      | 0829061144 | 8/29/2006 |
| 34 | PB10B    | 0829061105 | 8/29/2006 | 74 | T16      | 0829061145 | 8/29/2006 |
| 35 | PB10C    | 0829061106 | 8/29/2006 | 75 | T26G     | 0829061146 | 8/29/2006 |
| 36 | PB10D    | 0829061107 | 8/29/2006 | 76 | T17      | 0829061147 | 8/29/2006 |
| 37 | PB12     | 0829061108 | 8/29/2006 | 77 | T18      | 0829061148 | 8/29/2006 |
| 38 | PB12A    | 0829061109 | 8/29/2006 | 78 | T19      | 0829061149 | 8/29/2006 |
| 39 | PB12B    | 0829061110 | 8/29/2006 | 79 | T20      | 0829061150 | 8/29/2006 |
| 40 | PB12C    | 0829061111 | 8/29/2006 | 80 | T21      | 0829061151 | 8/29/2006 |

AUG 29 2006



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9:56:25 AM

**Licensee Details****Licensee Information**

Name: **LUNDE, BLAKE N II (Primary Name)**  
**BLAKE CONSTRUCTION (DBA Name)**  
Main Address: **872 SW JAGUAR DR**  
**LAKE CITY Florida 32025**

License Mailing:

LicenseLocation: **2250 SW JAGUAR DR**  
**LAKE CITY FL 32025**

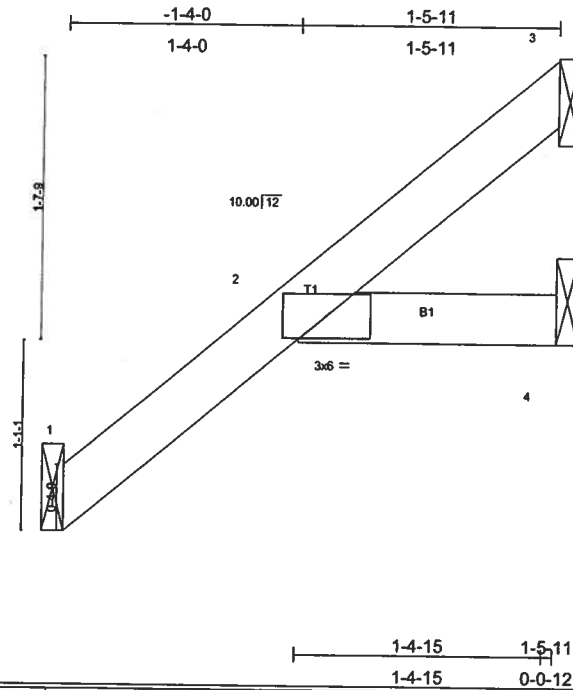
**License Information**

License Type: **Registered Residential Contractor**  
Rank: **Reg Residential**  
License Number: **RR0067618**  
Status: **Current,Active**  
Licensure Date: **03/13/2001**  
Expires: **08/31/2005**

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|                                           |               |                    |          |          |                                        |
|-------------------------------------------|---------------|--------------------|----------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ1B | Truss Type<br>JACK | Qty<br>1 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    |          |          | Job Reference (optional)               |

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Scale = 1:12.6

|                      |                      |            |                           |               |             |
|----------------------|----------------------|------------|---------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>               | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.13    | in (loc) l/defl L/d       | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.02    | Vert(LL) 0.02 2 >999 240  |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.00    | Vert(TL) -0.02 2 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) -0.01 4 n/a n/a  |               |             |
|                      | Code FBC2004/TPI2002 |            |                           | Weight: 8 lb  |             |

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-5-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=98/Mechanical, 4=22/Mechanical, 3=88/Mechanical  
Max Horz 1=105(load case 5)  
Max Uplift 3=91(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=90/5, 2-3=75/53  
BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
2 = 0.01

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3.

**LOAD CASE(S)** Standard

|                                           |                      |                           |                                                                            |                 |                                                                           |
|-------------------------------------------|----------------------|---------------------------|----------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------|
| Job<br><b>L207624</b>                     | Truss<br><b>CJ1D</b> | Truss Type<br><b>JACK</b> | Qty<br><b>1</b>                                                            | Ply<br><b>1</b> | Job Reference (optional)<br><b>BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE</b> |
| Builders FirstSource, Lake City, FL 32055 |                      |                           | 6:200 s Jul 13 2005 MiTek Industries, Inc. Wed Aug 23 14:57:44 2006 Page 1 |                 |                                                                           |

|                                                |                                                                                                      |                                           |                                                                                                         |               |             |
|------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------|-------------|
| <b>LOADING (psf)</b>                           | <b>SPACING</b>                                                                                       | <b>CSI</b>                                | <b>DEFL</b>                                                                                             | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0<br>TCCL 7.0<br>BCLL 10.0<br>BCDL 5.0 | 2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr YES<br>Code FBC2004/TPI2002 | TC 0.13<br>BC 0.02<br>WB 0.00<br>(Matrix) | in (loc) l/defl L/d<br>Vert(LL) 0.02 2 >999 240<br>Vert(TL) 0.02 2 >999 180<br>Horz(TL) -0.02 4 n/a n/a | MT20          | 244/190     |
| Weight: 8 lb                                   |                                                                                                      |                                           |                                                                                                         |               |             |

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-5-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=98/Mechanical, 4=22/0-1-13, 3=88/Mechanical  
Max Horz 1=105(load case 5)  
Max Uplift 1=8(load case 5), 4=17(load case 3), 3=100(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-77/11, 2-3=-90/53  
BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
2 = 0.02

**NOTES**  
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
2) Refer to girder(s) for truss to truss connections.  
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 17 lb uplift at joint 4 and 100 lb uplift at joint 3.

**LOAD CASE(S)** Standard



|                                           |                      |                           |                                                                                                        |                 |                                               |  |
|-------------------------------------------|----------------------|---------------------------|--------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------|--|
| Job<br><b>L207624</b>                     | Truss<br><b>CJ1E</b> | Truss Type<br><b>JACK</b> | Qty<br><b>1</b>                                                                                        | Ply<br><b>1</b> | <b>BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE</b> |  |
| Builders FirstSource, Lake City, FL 32055 |                      |                           | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Wed Aug 23 14:58:14 2006 Page 1 |                 |                                               |  |

Scale = 1:10.7

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

|                      |                      |            |                           |               |             |
|----------------------|----------------------|------------|---------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>               | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.14    | in (loc) l/defl L/d       | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.01    | Vert(LL) -0.00 2 >999 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.00    | Vert(TL) -0.00 2 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) -0.00 3 n/a n/a  |               |             |
|                      | Code FBC2004/TP2002  |            |                           | Weight: 8 lb  |             |

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| <b>LUMBER</b>            | <b>BRACING</b>                                                             |
| TOP CHORD 2 X 4 SYP No.2 | TOP CHORD Structural wood sheathing directly applied or 1-5-11 oc purlins. |
| BOT CHORD 2 X 4 SYP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.             |

**REACTIONS** (lb/size) 2=169/0-4-0, 4=21/Mechanical, 3=3/Mechanical  
 Max Horz 2=127(load case 5)  
 Max Uplift 2=134(load case 5), 3=15(load case 6)  
 Max Grav 2=169(load case 1), 4=21(load case 1), 3=24(load case 3)

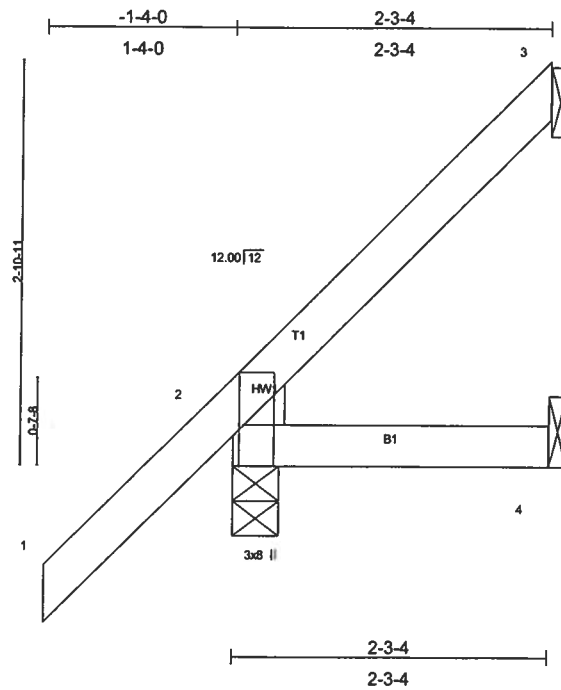
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/45, 2-3=-49/15  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
 2 = 0.14

**NOTES**  
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Refer to girder(s) for truss to truss connections.  
 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 15 lb uplift at joint 3.

**LOAD CASE(S)** Standard

|                                           |               |                    |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ1F | Truss Type<br>JACK | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Aug 23 14:58:43 2006 Page 1 |          |                                        |



Scale = 1:15.7

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

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.16  | Vert(LL) | -0.00 | 2     | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.03  | 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: 12 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEDGE  
 Left: 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=25/Mechanical, 2=196/0-4-0, 4=31/Mechanical  
 Max Horz 2=183(load case 5)  
 Max Uplift 3=59(load case 5), 2=96(load case 5)  
 Max Grav 3=29(load case 3), 2=196(load case 1), 4=31(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-66/21  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.09 and 2 = 0.00

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 3 and 96 lb uplift at joint 2.

**LOAD CASE(S)** Standard

|                                           |               |                    |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ2A | Truss Type<br>JACK | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Aug 23 15:06:25 2006 Page 1 |          |                                        |

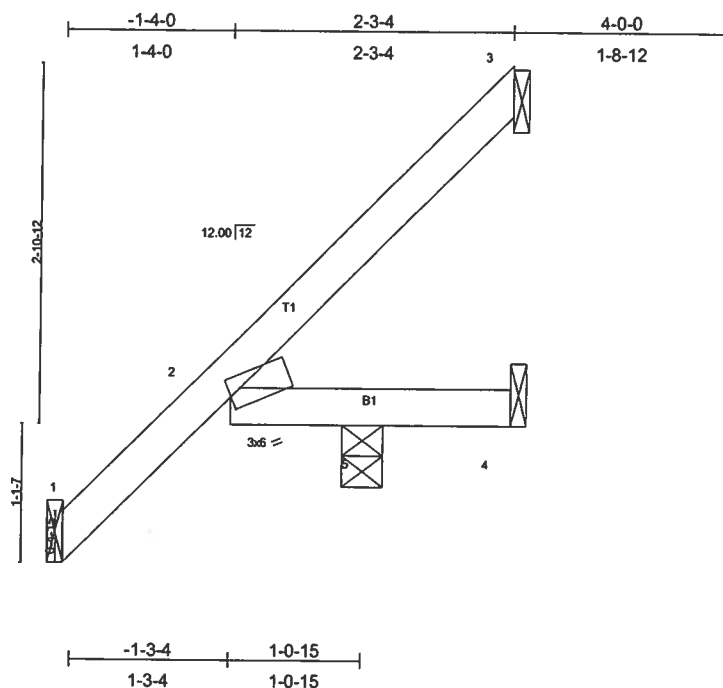


Plate Offsets (X,Y): [2-0-0-8,0-1-8]

|                      |                      |            |                           |               |             |
|----------------------|----------------------|------------|---------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>               | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.08    | in (loc) l/defl L/d       | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.14    | Vert(LL) 0.01 2 >999 240  |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.00    | Vert(TL) -0.02 2 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) -0.02 3 n/a n/a  |               |             |
|                      | Code FBC2004/TPI2002 |            |                           | Weight: 11 lb |             |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.1D

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=60/Mechanical, 3=70/Mechanical, 4=69/Mechanical, 5=209/0-4-0

Max Horz 5=160(load case 5)

Max Uplift 1=11(load case 5), 3=91(load case 5), 4=69(load case 1), 5=26(load case 5)

Max Grav 1=60(load case 1), 3=70(load case 1), 4=19(load case 5), 5=209(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-32/21, 2-3=-90/43

BOT CHORD 2-5=-14/177, 4-5=0/0

**JOINT STRESS INDEX**

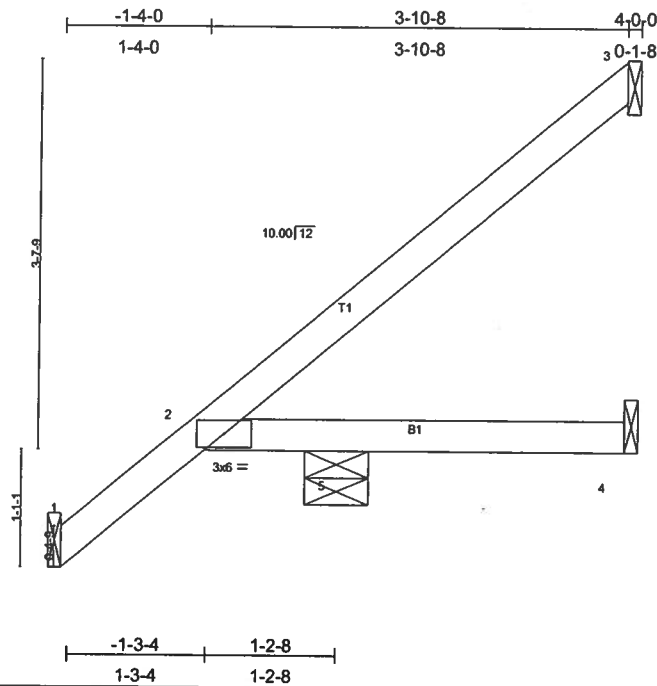
2 = 0.18

**NOTES**

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 91 lb uplift at joint 3, 69 lb uplift at joint 4 and 26 lb uplift at joint 5.

LOAD CASE(S) Standard

|                                           |               |                    |          |          |                                                                                                        |
|-------------------------------------------|---------------|--------------------|----------|----------|--------------------------------------------------------------------------------------------------------|
| Job<br>L207624                            | Truss<br>CJ2B | Truss Type<br>JACK | Qty<br>1 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE                                                                 |
| Builders FirstSource, Lake City, FL 32055 |               |                    |          |          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Aug 23 15:07:23 2006 Page 1 |



| LOADING (psf) | SPACING              | CSI      | DEFL                      | PLATES        | GRIP    |
|---------------|----------------------|----------|---------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.20  | in (loc) l/defl L/d       | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.31  | Vert(LL) 0.03 2 >898 240  |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.00  | Vert(TL) -0.05 2 >584 180 |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) -0.04 3 n/a n/a  |               |         |
|               | Code FBC2004/TP12002 |          |                           | Weight: 16 lb |         |

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

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

**REACTIONS** (lb/size) 1=64/Mechanical, 3=110/Mechanical, 4=23/Mechanical, 5=254/0-7-3  
Max Horz 5=195(load case 5)  
Max Uplift 3=123(load case 5), 4=23(load case 1), 5=-71(load case 5)  
Max Grav 1=64(load case 1), 3=110(load case 1), 4=34(load case 5), 5=254(load case 1)

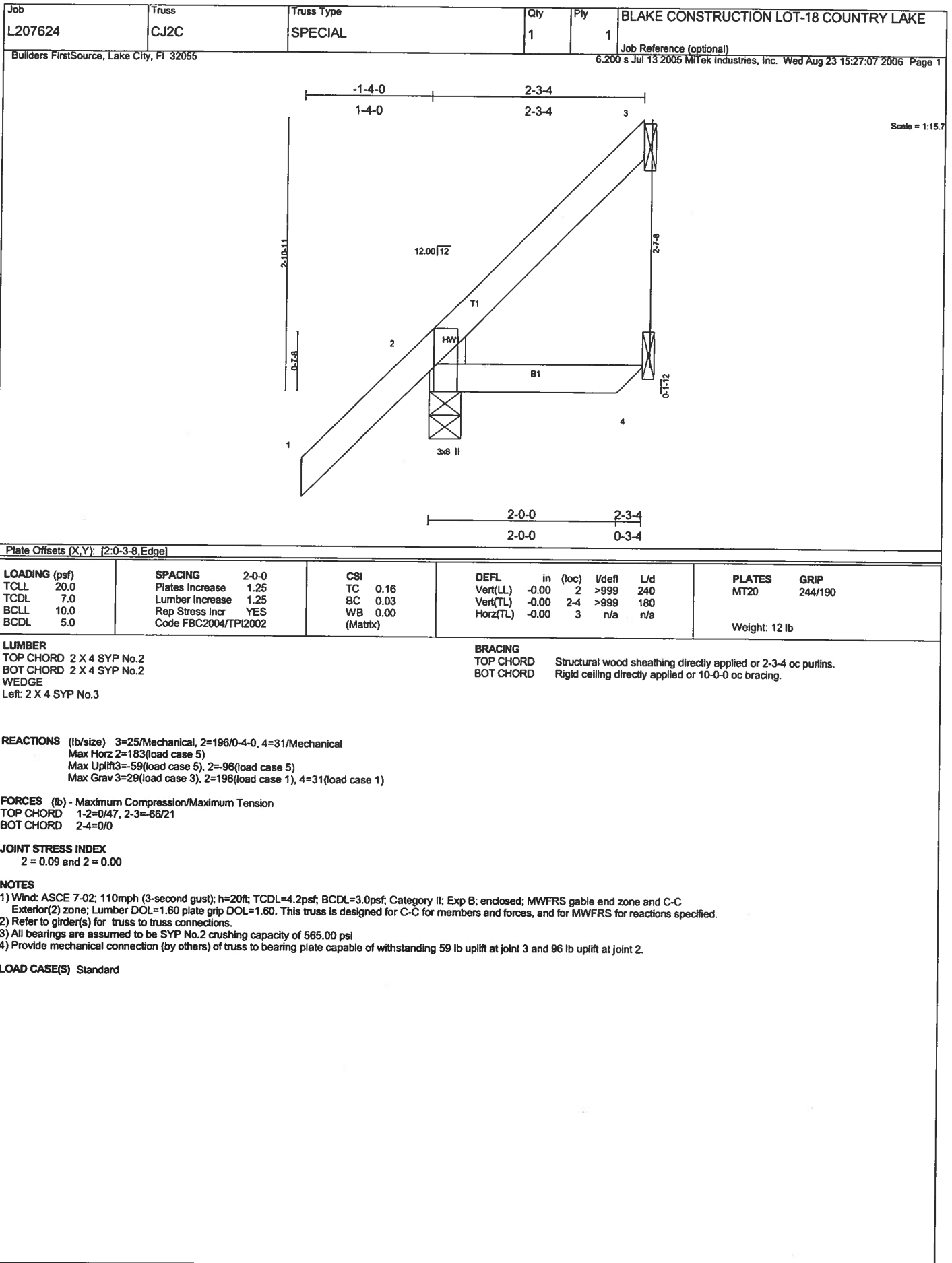
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-34/13, 2-3=-110/58  
BOT CHORD 2-5=-17/216, 4-5=0/0

**JOINT STRESS INDEX**  
2 = 0.08

#### 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 3, 23 lb uplift at joint 4 and 71 lb uplift at joint 5.

**LOAD CASE(S)** Standard





|                                           |               |                       |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|-----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ2D | Truss Type<br>SPECIAL | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                       | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Wed Aug 23 15:27:53 2006 Page 1 |          |                                        |

Scale = 1:18.5

|                                      |                      |            |                           |               |             |
|--------------------------------------|----------------------|------------|---------------------------|---------------|-------------|
| Plate Offsets (X,Y): [2.0-4-1.0-1-8] |                      |            |                           |               |             |
| <b>LOADING</b> (psf)                 | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>               | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0                            | 2-0-0                | TC 0.20    | in (loc) l/defl L/d       | MT20          | 244/190     |
| TCDL 7.0                             | Plates Increase 1.25 | BC 0.02    | Vert(LL) 0.03 6 >999 240  |               |             |
| BCLL 10.0                            | Lumber Increase 1.25 | WB 0.02    | Vert(TL) -0.04 6 >990 180 |               |             |
| BCDL 5.0                             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) -0.04 5 n/a n/a  |               |             |
|                                      | Code FBC2004/TPI2002 |            |                           | Weight: 20 lb |             |

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| <b>LUMBER</b>            | <b>BRACING</b>                                                             |
| TOP CHORD 2 X 4 SYP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-10-8 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      |                                                                            |

**REACTIONS** (lb/size) 4=109/Mechanical, 2=251/0-4-0, 5=27/Mechanical  
 Max Horz 2=217(load case 5)  
 Max Uplift 4=-103(load case 5), 2=-103(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/46, 2-3=-98/8, 3-4=-83/63  
 BOT CHORD 2-6=-50, 5-6=-16/16  
 WEBS 3-6=0/55

**JOINT STRESS INDEX**  
 2 = 0.18, 3 = 0.04 and 6 = 0.02

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 4 and 103 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Job

L207624

Truss

CJ2E

Truss Type

JACK

Qty

1

Ply

1

BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE

Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

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1

2

3

4

1-4-0

3-10-8

3-10-8

3-10-8

3-10-8

3-10-8

10.00

T1

B1

3x6 =

3.75

10.41

Scale = 1:18.5

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

|                                                                                                            |                                                                                                                                                         |                                                                                             |                                                                                                                                                                                              |                                                                         |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <div>LOADING (psf)</div> <div>TCLL 20.0</div> <div>TCDL 7.0</div> <div>BCLL 10.0</div> <div>BCDL 5.0</div> | <div>SPACING 2-0-0</div> <div>Plates Increase 1.25</div> <div>Lumber Increase 1.25</div> <div>Rep Stress Incr YES</div> <div>Code FBC2004/TPI2002</div> | <div>CSI</div> <div>TC 0.16</div> <div>BC 0.09</div> <div>WB 0.00</div> <div>(Matrix)</div> | <div>DEFL</div> <div>in (loc)</div> <div>l/defl</div> <div>L/d</div> <div>Vert(LL) -0.01 2-4 &gt;999 240</div> <div>Vert(TL) -0.02 2-4 &gt;999 180</div> <div>Horz(TL) -0.00 3 n/a n/a</div> | <div>PLATES GRIP</div> <div>MT20 244/190</div> <div>Weight: 16 lb</div> |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.

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

REACTIONS (lb/size)

3=82/Mechanical, 2=251/0-4-0, 4=55/Mechanical

Max Horz 2=217(load case 5)

Max Uplift3=-108(load case 5), 2=-103(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=-100/41

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.18

NOTES

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

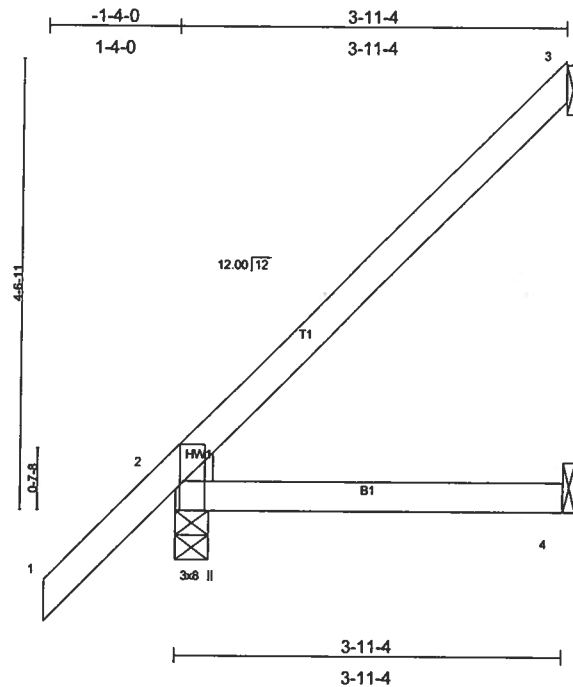
2) Refer to girder(s) for truss to truss connections.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 3 and 103 lb uplift at joint 2.

LOAD CASE(S) Standard

|                                           |               |                    |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ2F | Truss Type<br>JACK | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:25:08 2006 Page 1 |          |                                        |



Scale = 1:22.3

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

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.19  | Vert(LL) | -0.01 | 2-4   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.10  | Vert(TL) | -0.02 | 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: 18 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEDGE

Left: 2 X 4 SYP No.3

**BRACING**

TOP CHORD

Structural wood sheathing directly applied or 3-11-4 oc purlins.

BOT CHORD

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

**REACTIONS**

(lb/size) 3=84/Mechanical, 2=253/0-4-0, 4=56/Mechanical

Max Horz 2=260(load case 5)

Max Uplift 3=150(load case 5), 2=63(load case 5)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-147/47

BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.13 and 2 = 0.00

**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; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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

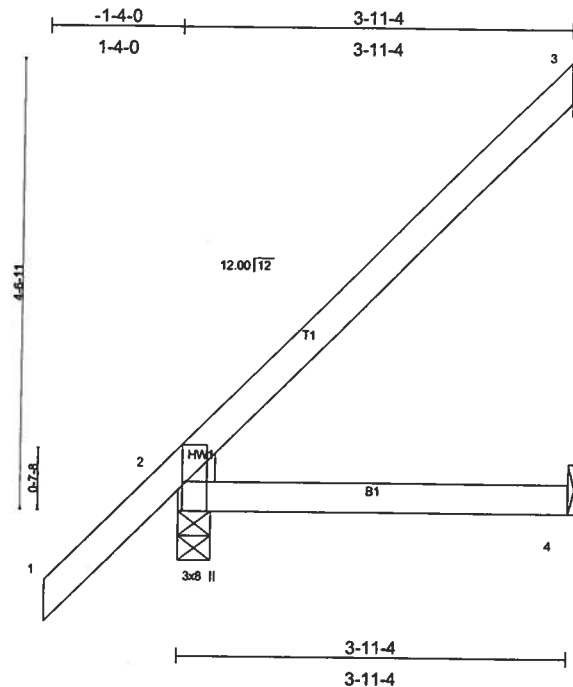
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 3 and 63 lb uplift at joint 2.

LOAD CASE(S) Standard

|                                           |               |                    |                          |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ3A | Truss Type<br>JACK | Qty<br>1                 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional) |          |                                        |

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Scale = 1:22.3

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

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.19  | Vert(LL) | -0.01 | 2-4   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.10  | Vert(TL) | -0.02 | 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: 18 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

**WEDGE**

Left: 2 X 4 SYP No.3

**BRACING**

TOP CHORD

Structural wood sheathing directly applied or 3-11-4 oc purlins.

BOT CHORD

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

**REACTIONS**

(lb/size) 3=84/Mechanical, 2=253/0-4-0, 4=56/Mechanical

Max Horz 2=260(load case 5)

Max Uplift 3=150(load case 5), 2=63(load case 5)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-147/47

BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.13 and 2 = 0.00

**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; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 3 and 63 lb uplift at joint 2.

LOAD CASE(S) Standard

|                                           |               |                    |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ3B | Truss Type<br>JACK | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:26:22 2006 Page 1 |          |                                        |

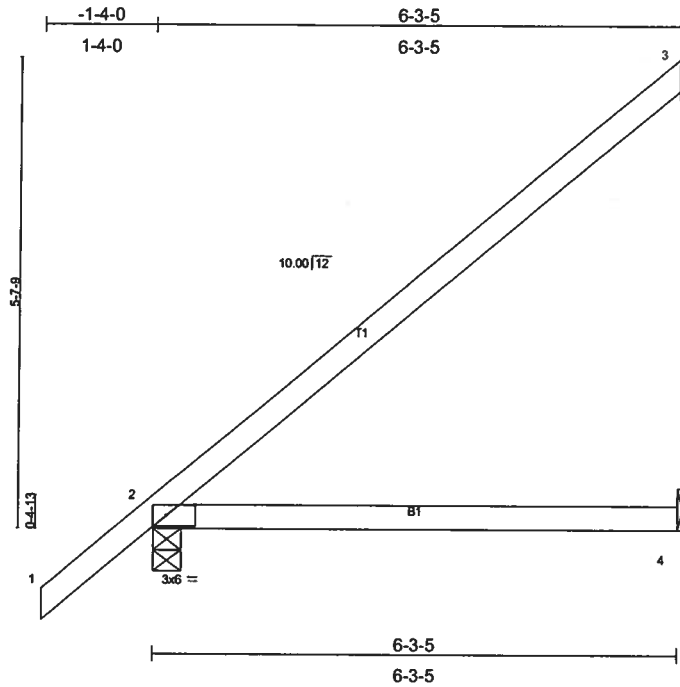


Plate Offsets (X,Y): [2:0-4-1,0-1-8]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.45  | Vert(LL) | -0.07 | 2-4   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.26  | Vert(TL) | -0.12 | 2-4   | >591   | 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: 24 lb |         |

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size) 3=153/Mechanical, 2=345/0-4-0, 4=91/Mechanical  
Max Horz 2=309(load case 5)  
Max Uplift 3=203(load case 5), 2=92(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/46, 2-3=178/79  
BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
2 = 0.23

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 3 and 92 lb uplift at joint 2.

**LOAD CASE(S)** Standard



|         |       |            |     |     |                                        |
|---------|-------|------------|-----|-----|----------------------------------------|
| Job     | Truss | Truss Type | Qty | Ply | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| L207624 | CJ3C  | SPECIAL    | 1   | 1   | Job Reference (optional)               |

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

[illegible]

## LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3  
WEDGE  
Left: 2 X 4 SYP No.3

## BRACING

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 3-11-4 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing.              |

**REACTIONS** (lb/size) 4=111/Mechanical, 2=253/0-4-0, 5=28/Mechanical

Max Horz 2=260(load case 5)  
Max Uplift4=-144(load case 5), 2=-63(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=141/11, 3-4=124/71  
BOT CHORD 2-6=4/0, 5-6=16/16  
WEBS 3-6=0/56

### JOINT STRESS INDEX

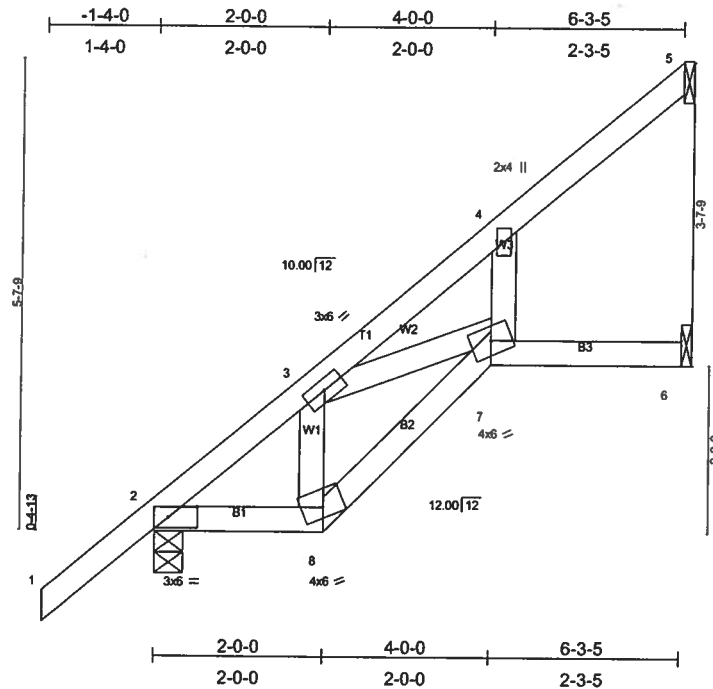
2 = 0.13, 2 = 0.00, 3 = 0.03 and 6 = 0.02

## NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDF=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 4 and 63 lb uplift at joint 2.

## LOAD CASE(S) Standard

|                                           |               |                       |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|-----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ3D | Truss Type<br>SPECIAL | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                       | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 06:27:47 2006 Page 1 |          |                                        |



Scale = 1/28.4  
Camber = 1/16 in

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

|                      |                      |            |                           |               |             |
|----------------------|----------------------|------------|---------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>               | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.59    | in (loc) l/defl L/d       | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.08    | Vert(LL) 0.18 7 >413 240  |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.08    | Vert(TL) -0.19 7 >382 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.10 6 n/a n/a   |               |             |
|                      | Code FBC2004/TPI2002 |            |                           |               |             |
|                      |                      |            |                           | Weight: 33 lb |             |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 5=211/Mechanical, 2=345/0-4-0, 6=33/Mechanical  
Max Horz 2=309(load case 5)  
Max Uplift 5=191(load case 5), 2=92(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/46, 2-3=330/0, 3-4=186/0, 4-5=145/128  
BOT CHORD 2-8=-192/227, 7-8=-251/317, 6-7=-0/0  
WEBS 3-8=-152/184, 3-7=-193/166, 4-7=-131/240

#### JOINT STRESS INDEX

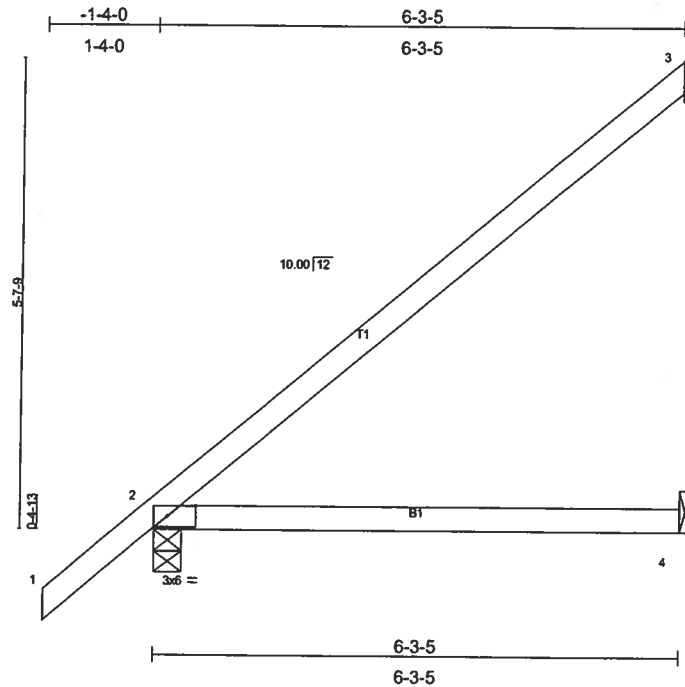
2 = 0.26, 3 = 0.11, 4 = 0.15, 7 = 0.12 and 8 = 0.11

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 5 and 92 lb uplift at joint 2.

**LOAD CASE(S)** Standard

|                                           |               |                    |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ3E | Truss Type<br>JACK | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:28:12 2006 Page 1 |          |                                        |



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

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

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.45  | Vert(LL) | -0.07 | 2-4   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.26  | Vert(TL) | -0.12 | 2-4   | >591   | 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: 24 lb |         |

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size) 3=153/Mechanical, 2=345/0-4-0, 4=91/Mechanical  
Max Horz 2=309(load case 5)  
Max Uplift 3=203(load case 5), 2=92(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/46, 2-3=-178/79  
BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
2 = 0.23

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 3 and 92 lb uplift at joint 2.

**LOAD CASE(S)** Standard

|                                           |               |                    |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ4A | Truss Type<br>JACK | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                    | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:28:49 2006 Page 1 |          |                                        |

Scale = 1:28.8

|                                     |                      |       |          |          |       |       |        |     |        |         |
|-------------------------------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------|
| Plate Offsets (X,Y): [2:0-3-8,Edge] |                      |       |          |          |       |       |        |     |        |         |
| LOADING (psf)                       | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES | GRIP    |
| TCLL 20.0                           | Plates Increase      | 1.25  | TC 0.46  | Vert(LL) | -0.04 | 2-4   | >999   | 240 | MT20   | 244/190 |
| TCDL 7.0                            | Lumber Increase      | 1.25  | BC 0.21  | Vert(TL) | -0.08 | 2-4   | >842   | 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: 24 lb                       |                      |       |          |          |       |       |        |     |        |         |

|                                                                                                        |                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 4 SYP No.2<br>WEDGE<br>Left: 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 5-7-4 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 3=134/Mechanical, 2=318/0-4-0, 4=81/Mechanical  
 Max Horz 2=337(load case 5)  
 Max Uplift 3=228(load case 5), 2=43(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=-217/77  
 BOT CHORD 2-4=0/0

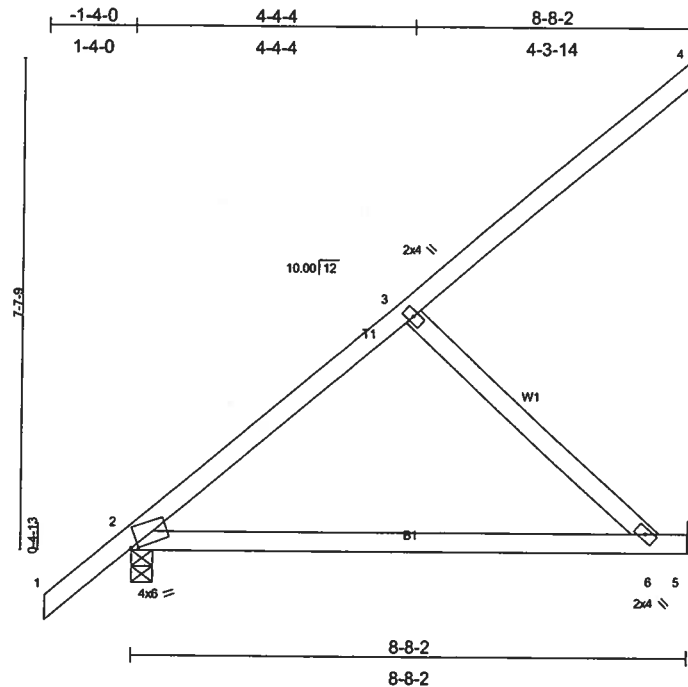
**JOINT STRESS INDEX**  
 2 = 0.16 and 2 = 0.00

**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; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 3 and 43 lb uplift at joint 2.

**LOAD CASE(S)** Standard

|                                           |               |                          |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>CJ4B | Truss Type<br>MONO TRUSS | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                          | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 06:29:40 2006 Page 1 |          |                                        |



Scale = 1/32" = 1' 0"

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

| LOADING (psf) | SPACING              | CSI      | DEFL           | In  | (loc) | I/defl | L/d | PLATES | GRIP          |
|---------------|----------------------|----------|----------------|-----|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.26  | Vert(LL) -0.21 | 2-6 | >492  | 240    |     | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.46  | Vert(TL) -0.35 | 2-6 | >286  | 180    |     |        |               |
| BCLL 10.0     | Rep Stress Incr YES  | WB 0.12  | Horz(TL) -0.00 | 5   | n/a   | n/a    |     |        |               |
| BCDL 5.0      | Code FBC2004/TPI2002 | (Matrix) |                |     |       |        |     |        |               |
|               |                      |          |                |     |       |        |     |        | Weight: 40 lb |

#### LUMBER

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

#### BRACING

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

#### REACTIONS (lb/size)

4=88/Mechanical, 2=443/0-4-0, 5=259/Mechanical  
Max Horz 2=402(load case 5)  
Max Uplift 4=122(load case 5), 2=87(load case 5), 5=143(load case 5)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=254/0, 3-4=105/41  
BOT CHORD 2-6=201/177, 5-6=0/0  
WEBS 3-6=240/273

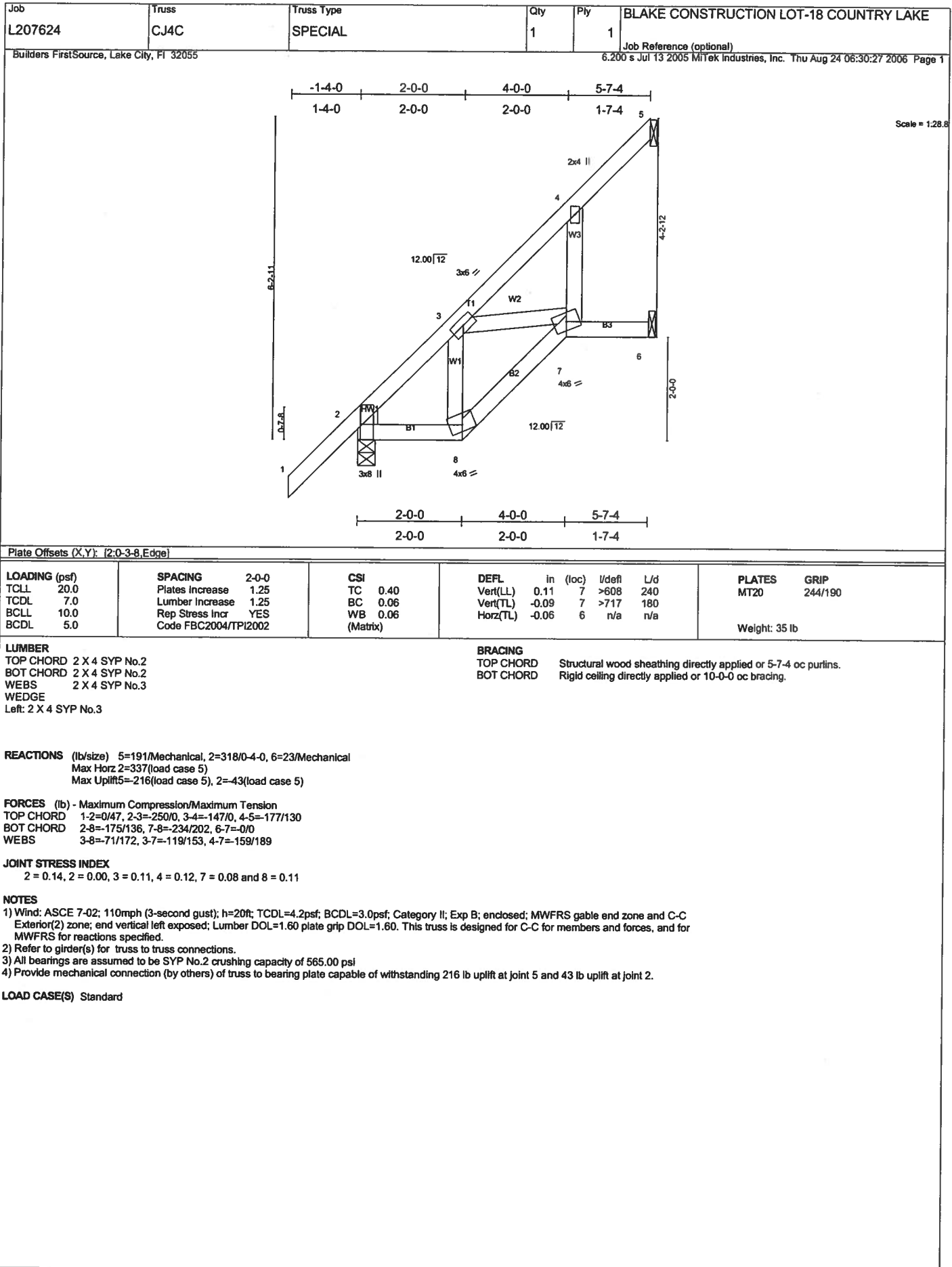
#### JOINT STRESS INDEX

2 = 0.91, 3 = 0.15 and 6 = 0.14

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II: Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 4, 87 lb uplift at joint 2 and 143 lb uplift at joint 5.

LOAD CASE(S) Standard





|                                           |               |                       |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|-----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>EJ4D | Truss Type<br>SPECIAL | Qty<br>2                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                       | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Sep 07 16:59:57 2006 Page 1 |          |                                        |

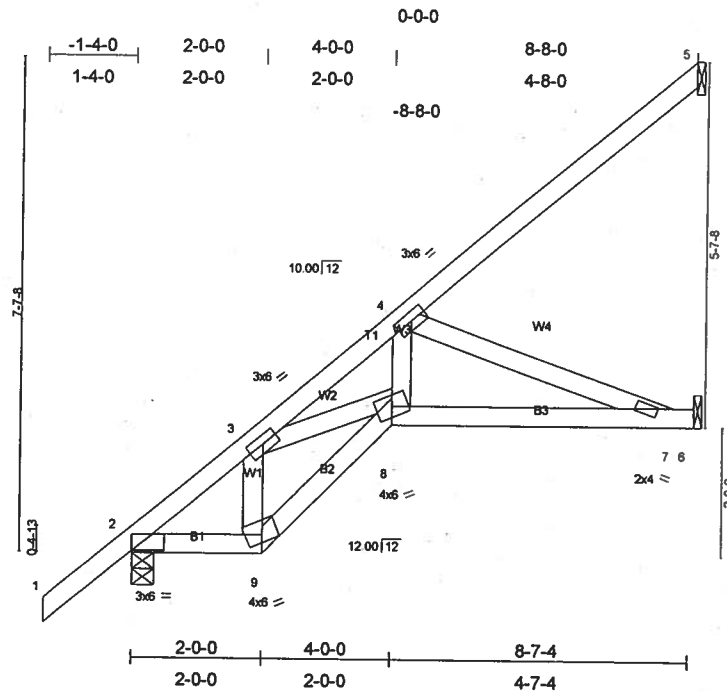


Plate Offsets (X,Y): [2-0-4-1-0-1-8]

|               |                      |       |          |          |       |       |        |     |               |         |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.22  | Vert(LL) | 0.03  | 7-8   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.26  | Vert(TL) | -0.06 | 7-8   | >999   | 180 |               |         |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.20  | Horz(TL) | 0.02  | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 48 lb |         |

## LUMBER

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

## BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.

## REACTIONS

(lb/size) 5=101/Mechanical, 2=443/0-4-0, 6=246/Mechanical  
Max Horz 2=401(load case 5)  
Max Uplift 5=128(load case 5), 2=87(load case 5), 6=137(load case 5)

## FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=-406/0, 3-4=-789/305, 4-5=-110/49  
BOT CHORD 2-9=-210/258, 8-9=-270/376, 7-8=-462/559, 6-7=0/0  
WEBS 3-9=-224/219, 3-8=-300/373, 4-8=-235/462, 4-7=-593/491

## JOINT STRESS INDEX

2 = 0.55, 3 = 0.17, 4 = 0.36, 7 = 0.31, 8 = 0.59 and 9 = 0.12

## NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 5, 87 lb uplift at joint 2 and 137 lb uplift at joint 6.

LOAD CASE(S) Standard

|                                           |       |            |     |     |                                        |
|-------------------------------------------|-------|------------|-----|-----|----------------------------------------|
| Job                                       | Truss | Truss Type | Qty | Ply | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| L207624                                   | EJ4DA | SPECIAL    | 1   | 1   |                                        |
| Buildings FirstSource Lake City, FL 33056 |       |            |     |     | Job Reference (optional)               |

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[illegible]

|                  |                                                                                          |
|------------------|------------------------------------------------------------------------------------------|
| <b>BRACING</b>   |                                                                                          |
| <b>TOP CHORD</b> | Structural wood sheathing directly applied or 6-0-0 oc purlins.                          |
| <b>BOT CHORD</b> | Rigid ceiling directly applied or 10-0-0 oc bracing. Except:<br>8-10-14 oc bracing: 6-7. |

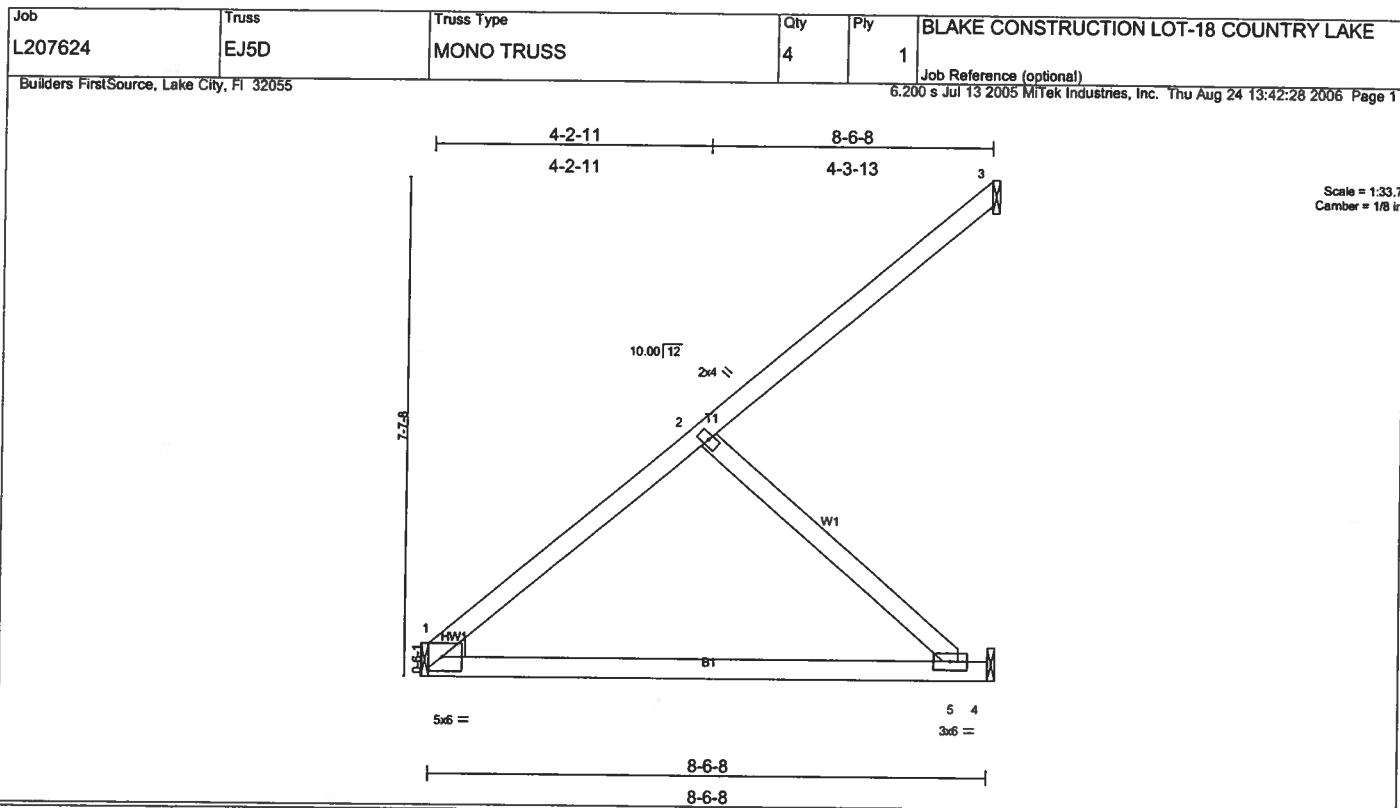
**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=-440/0, 2-3=-816/361, 3-4=-110/50  
**BOT CHORD** 1-8=-276/290, 7-8=-355/418, 6-7=-497/575, 5-6=0/0  
**WEBS** 2-8=-229/234, 2-7=-276/380, 3-7=-285/486, 3-6=-611/528

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 4 and 148 lb uplift at joint 5.

LOAD CASE(S) Standard

**AUGUST 29, 2006 TRUSS DESIGN ENGINEER:**  
**THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987**  
**STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196**  
**16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**



|                      |                      |            |                             |               |             |
|----------------------|----------------------|------------|-----------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                 | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.31    | in (loc) l/defl L/d         | MT20          | 244/190     |
| TCCL 7.0             | Plates Increase 1.25 | BC 0.47    | Vert(LL) -0.21 1-5 >474 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.13    | Vert(TL) -0.36 1-5 >278 180 |               |             |
| BCCL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) -0.00 4 n/a n/a    |               |             |
|                      | Code FBC2004/TPI2002 |            |                             |               |             |
|                      |                      |            |                             | Weight: 38 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  
 WEDGE  
 Left: 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) 3=86/Mechanical, 4=268/Mechanical, 1=353/Mechanical  
 Max Horz 1=334(load case 5)  
 Max Uplift 3=119(load case 5), 4=158(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-258/0, 2-3=-103/40  
 BOT CHORD 1-5=-216/186, 4-5=0/0  
 WEBS 2-5=-250/291

**JOINT STRESS INDEX**

1 = 0.66, 1 = 0.00, 2 = 0.16 and 5 = 0.10

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCCL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 3 and 158 lb uplift at joint 4.

**LOAD CASE(S)** Standard

|                                           |                      |                                 |                                                                                                        |                 |                                        |
|-------------------------------------------|----------------------|---------------------------------|--------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------|
| Job<br><b>L207624</b>                     | Truss<br><b>EJ7E</b> | Truss Type<br><b>MONO TRUSS</b> | Qty<br><b>3</b>                                                                                        | Ply<br><b>1</b> | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                      |                                 | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 06:35:35 2006 Page 1 |                 |                                        |

Scale = 1/28.7  
 Camber = 1/16 in

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

|                                                                        |                                                                                                                     |                                                         |                                                                                                                           |                                                                |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>LOADING (psf)</b><br>TCCL 20.0<br>TCCL 7.0<br>BCLL 10.0<br>BCDL 5.0 | <b>SPACING</b> 2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr YES<br>Code FBC2004/TPI2002 | <b>CSI</b><br>TC 0.45<br>BC 0.39<br>WB 0.00<br>(Matrix) | <b>DEFL</b> in (loc) l/defl L/d<br>Vert(LL) -0.14 2-4 >570 240<br>Vert(TL) -0.24 2-4 >345 180<br>Horz(TL) -0.00 3 n/a n/a | <b>PLATES</b> <b>GRIP</b><br>MT20 244/190<br><br>Weight: 27 lb |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

|                                                                       |                                                                                                                                                               |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 4 SYP No.2 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 3=164/Mechanical, 2=374/0-4-0, 4=112/Mechanical  
 Max Horz 2=337(load case 5)  
 Max Uplift 3=201(load case 5), 2=90(load case 5), 4=-8(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/46, 2-3=-179/83  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
 2 = 0.73

**NOTES**  
 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Refer to girder(s) for truss to truss connections.  
 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 3, 90 lb uplift at joint 2 and 8 lb uplift at joint 4.

**LOAD CASE(S)** Standard

|                                           |               |                          |          |          |                                                                                                        |
|-------------------------------------------|---------------|--------------------------|----------|----------|--------------------------------------------------------------------------------------------------------|
| Job<br>L207624                            | Truss<br>EJ9B | Truss Type<br>MONO TRUSS | Qty<br>1 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE                                                                 |
| Builders FirstSource, Lake City, Fl 32055 |               |                          |          |          | Job Reference (optional)<br>6,200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 06:35:23 2006 Page 1 |

Scale = 1:36.3  
Camber = 3/16 in

| Plate Offsets (X,Y): [2:0-1-8,Edge] |      |                      |      |            |      |                                 |                    |                    |         |
|-------------------------------------|------|----------------------|------|------------|------|---------------------------------|--------------------|--------------------|---------|
| <b>LOADING (psf)</b>                |      | <b>SPACING</b> 2-0-0 |      | <b>CSI</b> |      | <b>DEFL</b> in (loc) l/defl L/d |                    | <b>PLATES GRIP</b> |         |
| TCLL                                | 20.0 | Plates Increase      | 1.25 | TC         | 0.30 | Vert(LL)                        | -0.26 2-6 >421 240 | MT20               | 244/190 |
| TCDL                                | 7.0  | Lumber Increase      | 1.25 | BC         | 0.51 | Vert(TL)                        | -0.44 2-6 >245 180 |                    |         |
| BCLL                                | 10.0 | Rep Stress Incr      | YES  | WB         | 0.15 | Horz(TL)                        | -0.00 5 n/a n/a    |                    |         |
| BCDL                                | 5.0  | Code FBC2004/TP12002 |      | (Matrix)   |      |                                 |                    | Weight: 43 lb      |         |

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| <b>LUMBER</b>  |                                                                 |
| TOP CHORD      | 2 X 4 SYP No.2                                                  |
| BOT CHORD      | 2 X 4 SYP No.2                                                  |
| WEBS           | 2 X 4 SYP No.3                                                  |
| <b>BRACING</b> |                                                                 |
| TOP CHORD      | Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD      | Rigid ceiling directly applied or 10-0-0 oc bracing.            |

REACTIONS (lb/size) 4=93/Mechanical, 2=465/0-4-0, 5=278/Mechanical  
Max Horz 2=422(load case 5)  
Max Uplift 4=129(load case 5), 2=-86(load case 5), 5=-154(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
**TOP CHORD** 1-2=0/46, 2-3=-274/0, 3-4=-111/43  
**BOT CHORD** 2-6=-215/192, 5-6=0/0  
**WEBS** 3-6=-258/289

JOINT STRESS INDEX  
2 = 0.69, 3 = 0.16 and 6 = 0.11

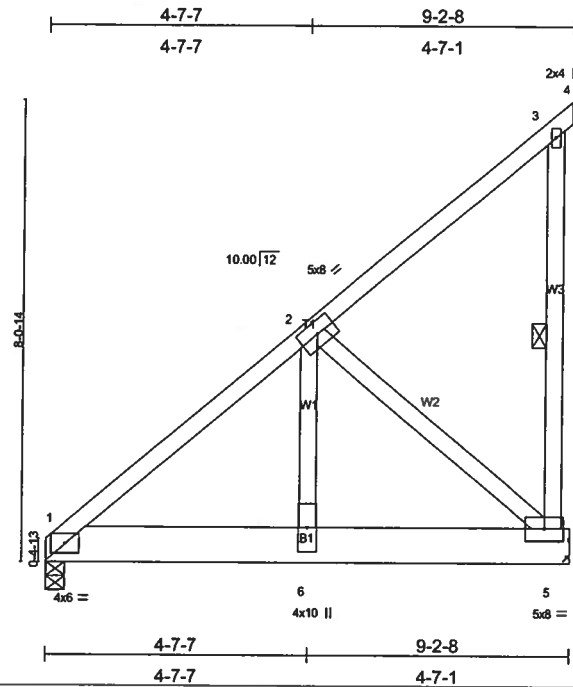
## NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDD=4.2psf; BCDD=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 4, 86 lb uplift at joint 2 and 154 lb uplift at joint 5.

LOAD CASE(S) Standard

**AUGUST 29, 2006 TRUSS DESIGN ENGINEER:  
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**

|                                                                                                        |                |                          |          |          |                                        |
|--------------------------------------------------------------------------------------------------------|----------------|--------------------------|----------|----------|----------------------------------------|
| Job<br>L207624                                                                                         | Truss<br>EJ10B | Truss Type<br>MONO TRUSS | Qty<br>1 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055                                                              |                |                          |          |          |                                        |
| Job Reference (optional)<br>6,200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:31:47 2006 Page 1 |                |                          |          |          |                                        |



|                      |                      |            |                             |               |             |
|----------------------|----------------------|------------|-----------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                 | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.22    | In (loc) l/defl L/d         | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.26    | Vert(LL) -0.03 1-6 >999 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.93    | Vert(TL) -0.05 1-6 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr NO   | (Matrix)   | Horz(TL) 0.01 5 n/a n/a     |               |             |
|                      | Code FBC2004/TPI2002 |            |                             |               |             |
|                      |                      |            |                             | Weight: 70 lb |             |

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-5

**REACTIONS** (lb/size) 1=1899/0-4-0, 5=1903/Mechanical  
 Max Horz 1=348(load case 4)  
 Max Uplift 1=588(load case 4), 5=898(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1748/489, 2-3=-105/48, 3-4=-3/0, 3-5=-97/139  
 BOT CHORD 1-6=-601/1283, 5-6=-601/1283  
 WEBS 2-6=-677/1916, 2-5=-1684/783

**JOINT STRESS INDEX**  
 1 = 0.58, 2 = 0.68, 3 = 0.59, 5 = 0.28 and 6 = 0.47

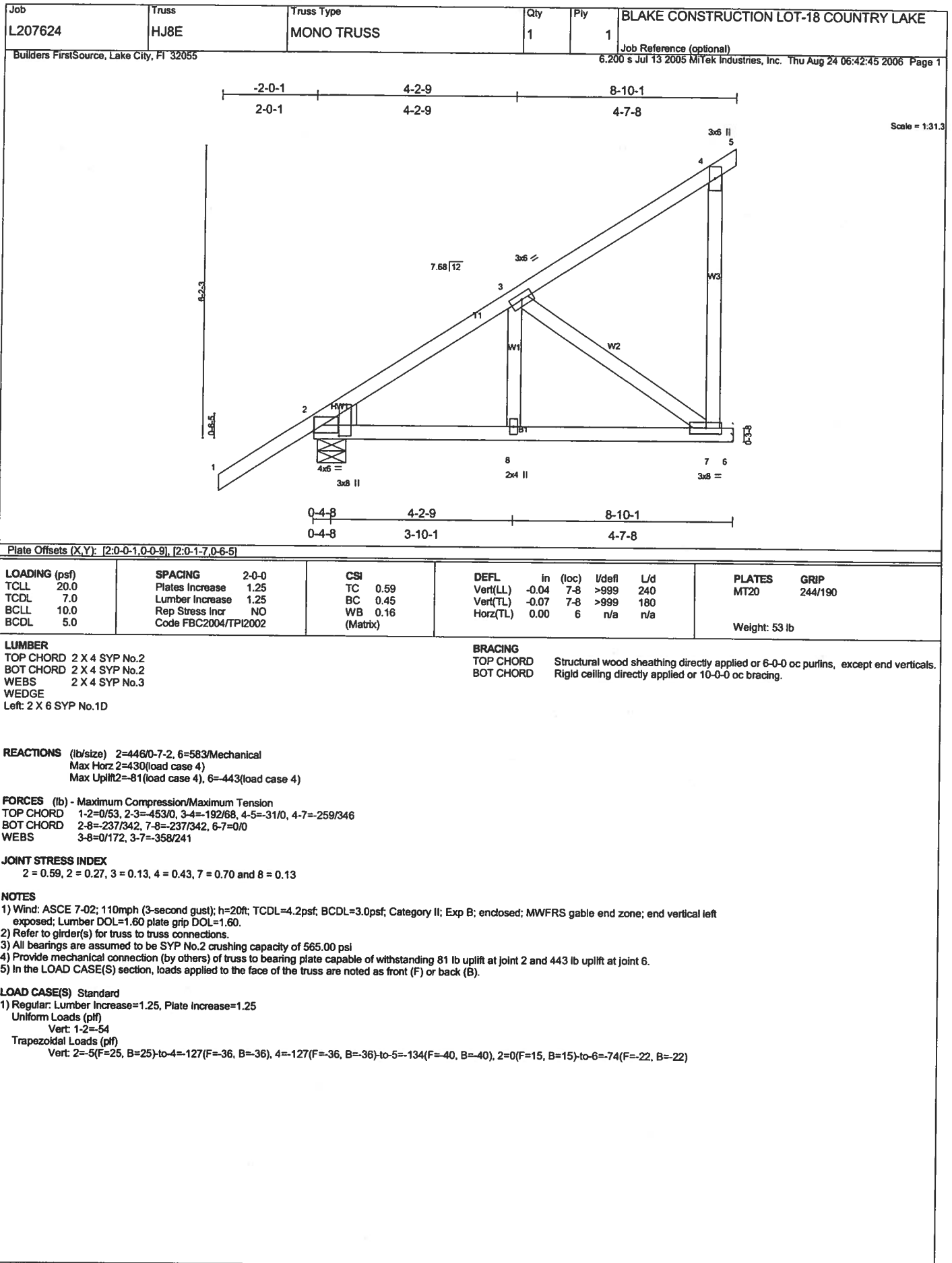
#### NOTES

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint 1 and 898 lb uplift at joint 5.
- 5) Girder carries tie-in span(s): 19-0-0 from 0-0-0 to 9-2-8
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-54, 3-4=-14, 1-5=-380(F=-350)





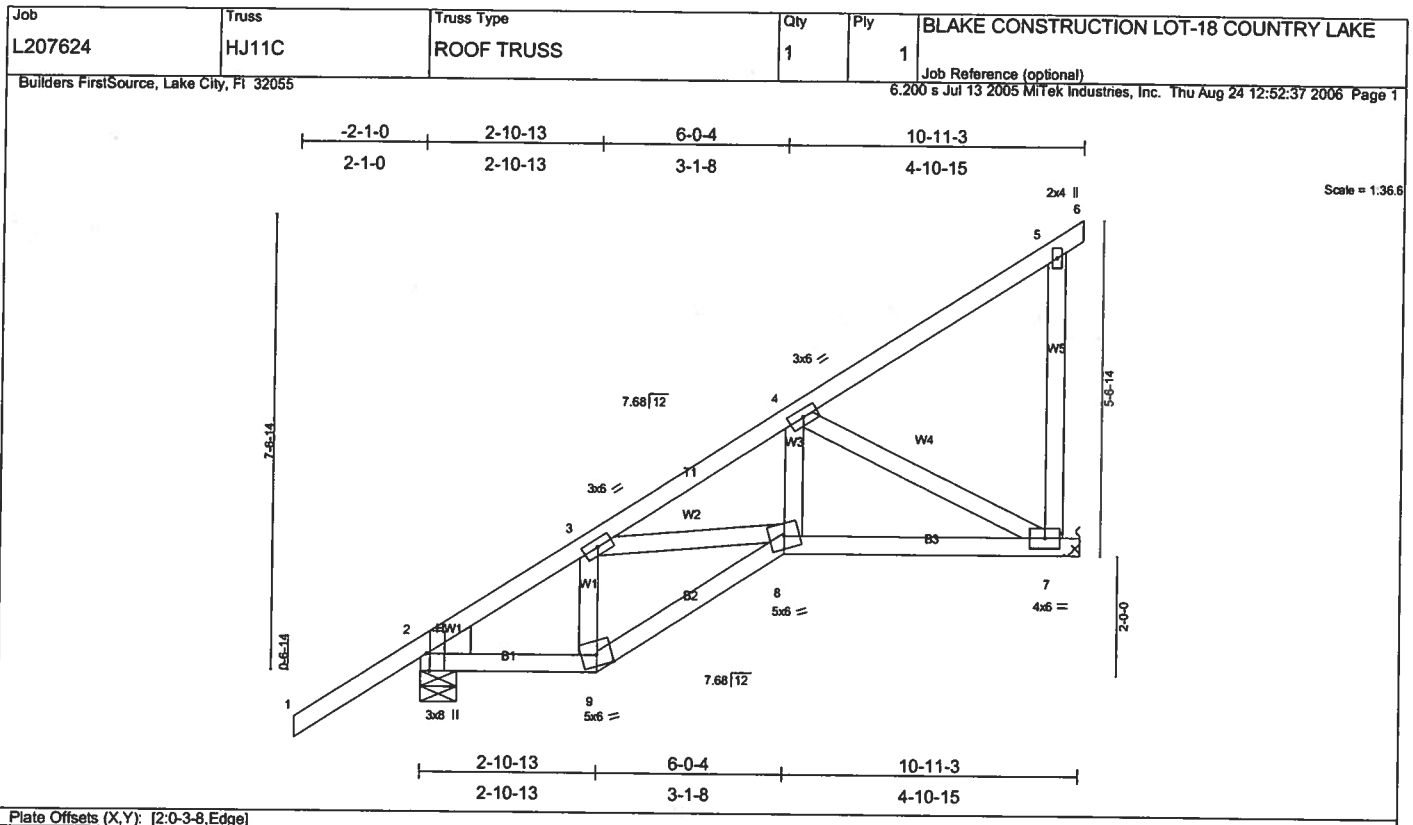


Plate Offsets (X,Y): [2-0-3-8,Edge]

| 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 0.41  | Vert(LL) -0.04 7-8 >999 240 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.34  | Vert(TL) -0.07 7-8 >999 180 |               |         |
| BCDL 5.0      | Rep Stress Incr NO   | (Matrix) | Horz(TL) 0.02 7 n/a n/a     |               |         |
|               | Code FBC2004/TPI2002 |          |                             | Weight: 66 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.10  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 WEDGE  
 Left: 2 X 6 SYP No.10

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.

**REACTIONS** (lb/size) 2=545/0-7-2, 7=778/Mechanical  
 Max Horz 2=627(load case 4)  
 Max Uplift 2=36(load case 4), 7=730(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/53, 2-3=-535/0, 3-4=-942/171, 4-5=-283/71, 5-6=-38/0  
 BOT CHORD 2-9=-330/389, 8-9=-373/497, 7-8=-647/739  
 WEBS 3-9=-243/248, 3-8=-345/401, 4-8=-147/511, 4-7=-829/726, 5-7=-253/430

**JOINT STRESS INDEX**

2 = 0.53, 2 = 0.00, 3 = 0.19, 4 = 0.39, 5 = 0.22, 7 = 0.23, 8 = 0.67 and 9 = 0.16

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 730 lb uplift at joint 7.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

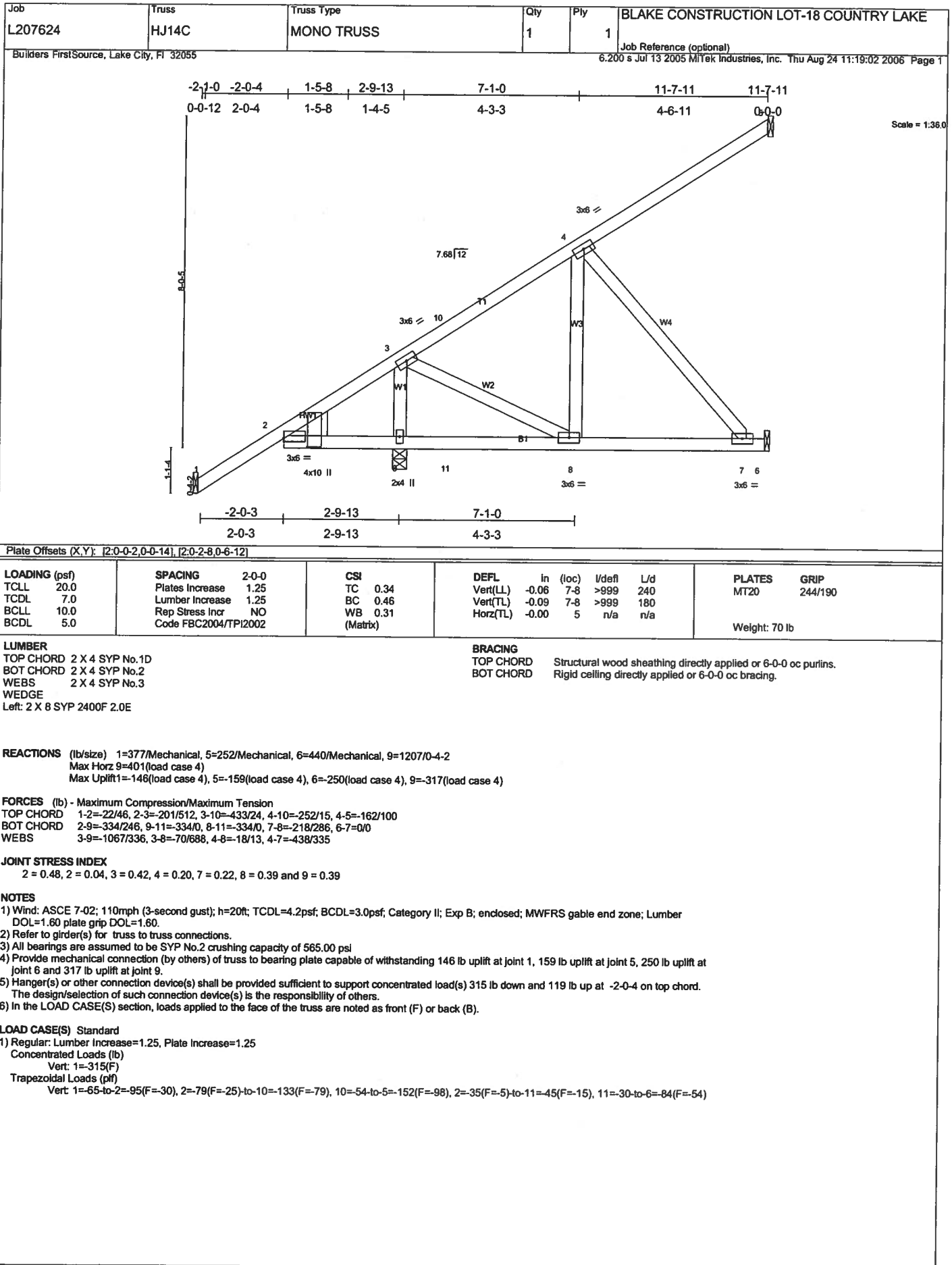
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

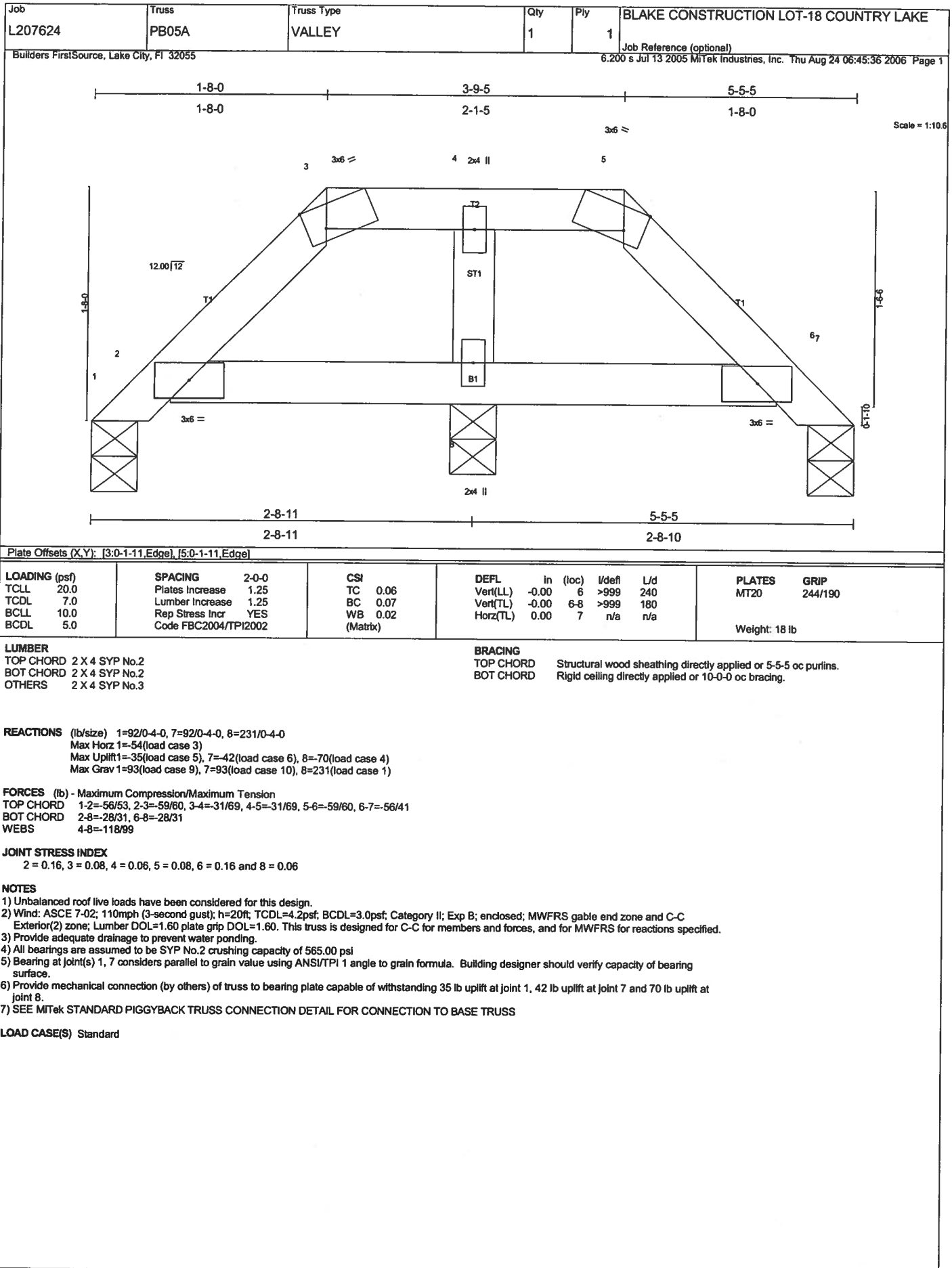
Vert: 1-2=-54

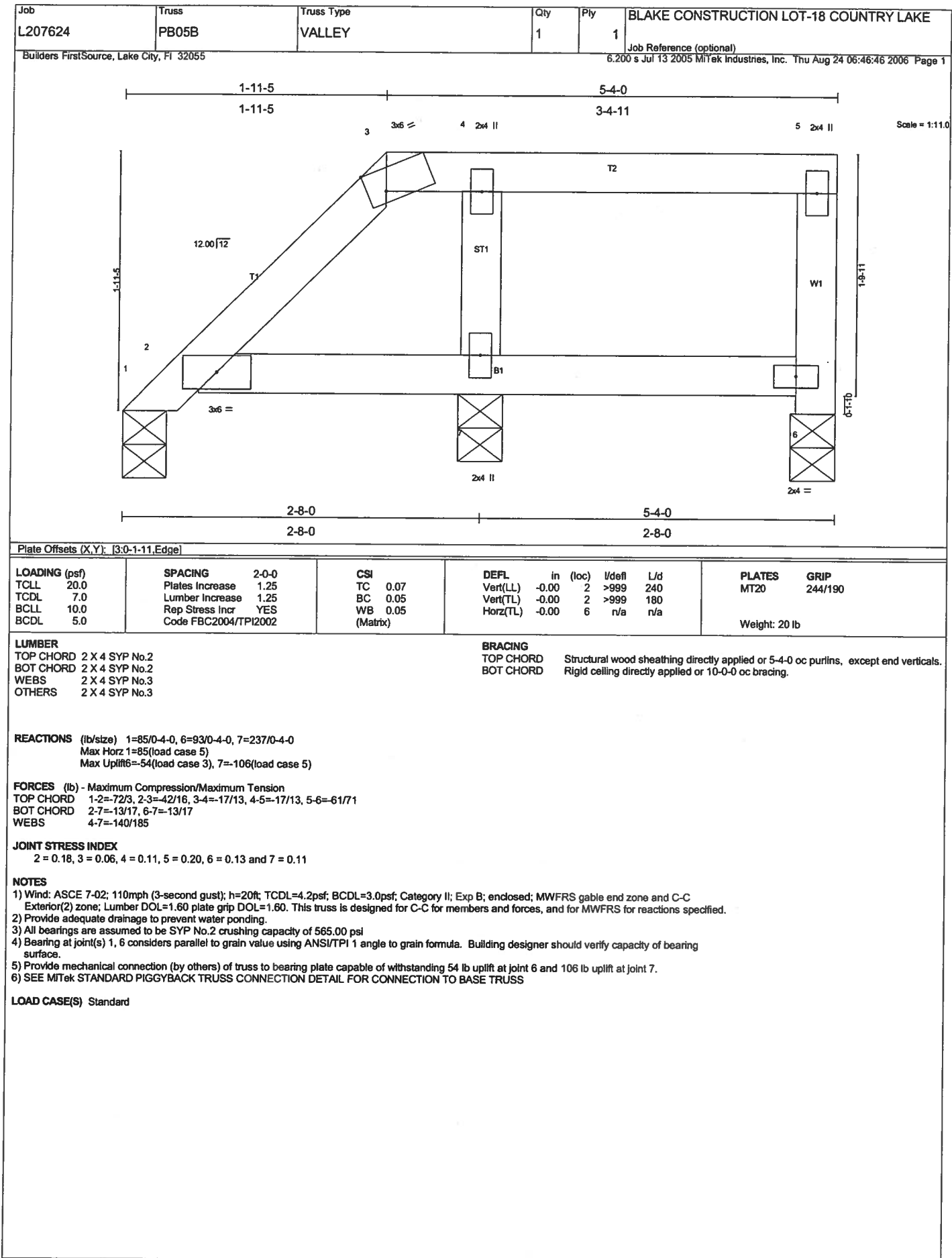
Trapezoidal Loads (plf)

Vert: 2=-5(F=25, B=25)-to-4=-93(F=-20, B=-20), 4=-53(F=-20, B=-20)-to-5=-119(F=-52, B=-52), 5=-159(F=-52, B=-52)-to-6=-165(F=-56, B=-56), 2=0(F=15, B=15)-to-9=-23(F=3, B=3), 9=-23(F=3, B=3)-to-8=-51(F=-11, B=-11), 8=-51(F=-11, B=-11)-to-7=-91(F=-30, B=-30)



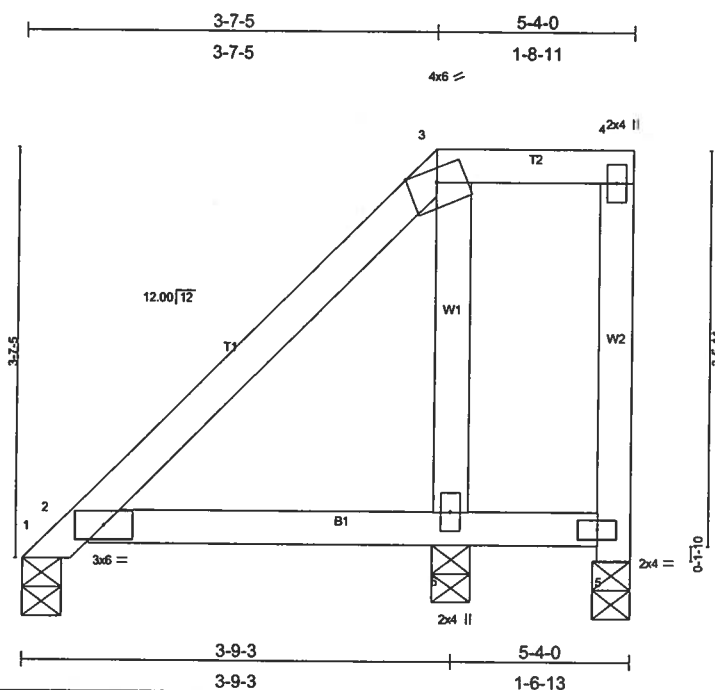








|                                           |                |                      |                                                                                                        |          |                                        |
|-------------------------------------------|----------------|----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB05C | Truss Type<br>VALLEY | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                |                      | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:48:13 2006 Page 1 |          |                                        |



|                      |                      |            |                            |               |             |
|----------------------|----------------------|------------|----------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.11    | in (loc) l/defl L/d        | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.11    | Vert(LL) 0.01 2-6 >999 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.06    | Vert(TL) 0.01 2-6 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) -0.00 6 n/a n/a   |               |             |
|                      | Code FBC2004/TPI2002 |            |                            |               |             |
|                      |                      |            |                            | Weight: 26 lb |             |

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 1=114/0-4-0, 5=-16/0-4-0, 6=317/0-4-0

Max Horz 1=161(load case 5)  
 Max Uplift 5=-55(load case 3), 6=-238(load case 5)  
 Max Grav 1=114(load case 1), 5=53(load case 5), 6=317(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-171/2, 2-3=-126/69, 3-4=-6/6, 4-5=-28/48  
 BOT CHORD 2-6=-7/2, 5-6=-6/6  
 WEBS 3-6=-179/257

**JOINT STRESS INDEX**

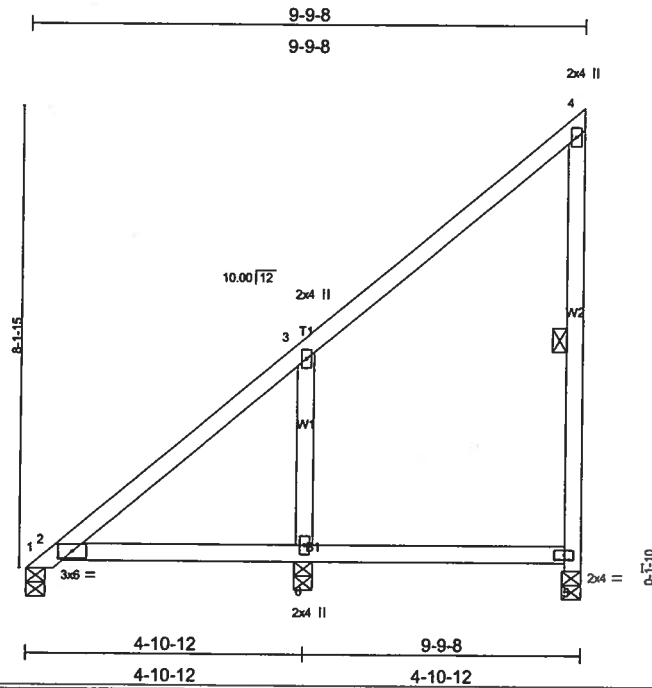
2 = 0.38, 3 = 0.38, 4 = 0.09, 5 = 0.13 and 6 = 0.15

**NOTES**

- 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 5 and 238 lb uplift at joint 6.
- SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

|                                           |               |                      |          |          |                                                                                                        |
|-------------------------------------------|---------------|----------------------|----------|----------|--------------------------------------------------------------------------------------------------------|
| Job<br>L207624                            | Truss<br>PB09 | Truss Type<br>VALLEY | Qty<br>1 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE                                                                 |
| Builders FirstSource, Lake City, FL 32055 |               |                      |          |          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:50:34 2006 Page 1 |



Scale = 1:39.0

| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES        | GRIP    |
|---------------|----------------------|----------|-----------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.25  | in (loc) l/defl L/d         | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.17  | Vert(LL) 0.02 2-6 >999 240  |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.10  | Vert(TL) -0.03 2-6 >999 180 |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.01 5 n/a n/a     |               |         |
|               | Code FBC2004/TP12002 |          |                             | 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, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-5

**REACTIONS** (lb/size) 1=152/0-4-0, 5=159/0-4-0, 6=476/0-4-0

Max Horz 1=364(load case 5)

Max Uplift 5=124(load case 5), 6=356(load case 5)

Max Grav 1=180(load case 5), 5=159(load case 1), 6=476(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-414/21, 2-3=-378/83, 3-4=-109/58, 4-5=-101/141

BOT CHORD 2-6=-9/9, 5-6=-9/9

WEBS 3-6=-293/382

**JOINT STRESS INDEX**

2 = 0.41, 3 = 0.19, 4 = 0.62, 5 = 0.34 and 6 = 0.22

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 5 and 356 lb uplift at joint 6.
- 5) SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

|                                           |                |                      |                                                                            |          |                                        |
|-------------------------------------------|----------------|----------------------|----------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB10A | Truss Type<br>VALLEY | Qty<br>4                                                                   | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                |                      | 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:52:12 2006 Page 1 |          |                                        |

|                                                                        |                                                                                                                     |                                                         |                                                                                                                              |                                                            |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>LOADING (psf)</b><br>TCDL 20.0<br>TCDL 7.0<br>BCCL 10.0<br>BCDL 5.0 | <b>SPACING</b> 2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr YES<br>Code FBC2004/TPI2002 | <b>CSI</b><br>TC 0.12<br>BC 0.10<br>WB 0.07<br>(Matrix) | <b>DEFL</b><br>in (loc) l/defl L/d<br>Vert(LL) 0.01 2-10 >999 240<br>Vert(TL) -0.01 2-10 >999 180<br>Horz(TL) 0.01 7 n/a n/a | <b>PLATES</b> MT20<br><b>GRIP</b> 244/190<br>Weight: 52 lb |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|

|                                                                                                |                                                                                                                                                              |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 4 SYP No.2<br>OTHERS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 1=27/0-4-0, 9=76/0-4-0, 8=352/0-4-0, 10=352/0-4-0, 7=27/0-4-0  
 Max Horz 1=175(load case 4)  
 Max Uplift 1=50(load case 3), 8=272(load case 6), 10=287(load case 5), 7=11(load case 9)  
 Max Grav 1=92(load case 4), 9=114(load case 6), 8=352(load case 1), 10=352(load case 1), 7=52(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-194/172, 2-3=-185/229, 3-4=-13/131, 4-5=-21/131, 5-6=-168/229, 6-7=-37/14  
 BOT CHORD 2-10=-108/210, 9-10=-108/210, 8-9=-108/210, 6-8=-108/210  
 WEBS 4-9=-153/9, 5-8=-204/263, 3-10=-204/263

**JOINT STRESS INDEX**  
 2 = 0.30, 3 = 0.13, 4 = 0.07, 5 = 0.13, 6 = 0.30, 8 = 0.15, 9 = 0.06 and 10 = 0.15

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 4) 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.  
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 272 lb uplift at joint 8, 287 lb uplift at joint 10 and 11 lb uplift at joint 7.  
 6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

|                                           |                |                      |                                                                                                        |          |                                        |
|-------------------------------------------|----------------|----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB10B | Truss Type<br>VALLEY | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                |                      | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:54:44 2006 Page 1 |          |                                        |

|                                                                 |                                                                                                                 |                                                  |                                                                                                                       |                                                  |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| LOADING (psf)<br>TCLL 20.0<br>TCDL 7.0<br>BCLL 10.0<br>BCDL 5.0 | SPACING<br>2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr YES<br>Code FBC2004/TPI2002 | CSI<br>TC 0.12<br>BC 0.10<br>WB 0.07<br>(Matrix) | DEFL<br>in (loc) l/defl L/d<br>Vert(LL) 0.01 2-10 >999 240<br>Vert(TL) -0.01 2-10 >999 180<br>Horz(TL) 0.01 7 n/a n/a | PLATES GRIP<br>MT20 244/190<br><br>Weight: 52 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) 1=27/0-4-0, 9=76/0-4-0, 8=352/0-4-0, 10=352/0-4-0, 7=27/0-4-0  
Max Horz 1=175(load case 3)  
Max Uplift 1=50(load case 3), 8=272(load case 6), 10=287(load case 5), 7=11(load case 9)  
Max Grav 1=92(load case 4), 9=114(load case 6), 8=352(load case 1), 10=352(load case 1), 7=52(load case 5)

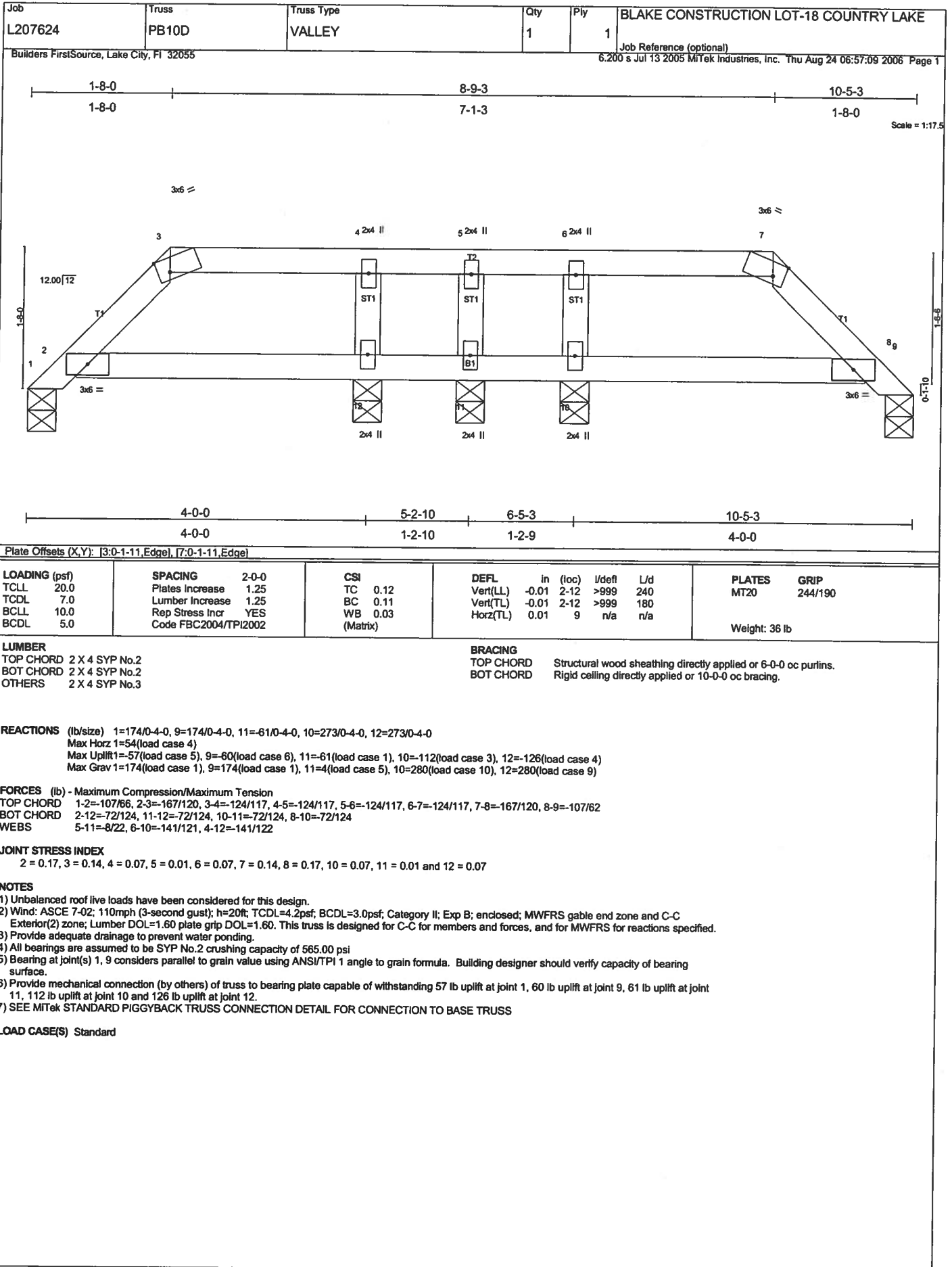
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-194/172, 2-3=-185/229, 3-4=-13/131, 4-5=-21/131, 5-6=-168/229, 6-7=-37/14  
BOT CHORD 2-10=-108/210, 9-10=-108/210, 8-9=-108/210, 6-8=-108/210  
WEBS 4-9=-153/9, 5-8=-204/263, 3-10=-204/263

**JOINT STRESS INDEX**  
2 = 0.30, 3 = 0.13, 4 = 0.10, 5 = 0.13, 6 = 0.30, 8 = 0.15, 9 = 0.06 and 10 = 0.15

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
4) 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.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 272 lb uplift at joint 8, 287 lb uplift at joint 10 and 11 lb uplift at joint 7.  
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard





Job: L207624 Truss: PB12 Truss Type: VALLEY Qty: 1 Ply: 1 BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE

Builders FirstSource, Lake City, FL 32055 Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 06:59:28 2006 Page 1

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

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

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | In (loc) | I/defl | L/d  | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.21  | Vert(LL) | 0.01     | 2-11   | >999 | 240    |      |
| TCOL 7.0      | Lumber Increase      | 1.25  | BC 0.10  | Vert(TL) | -0.01    | 2-11   | >999 | 180    |      |
| BCCL 10.0     | Rep Stress Incr      | YES   | WB 0.04  | Horz(TL) | 0.01     | 8      | n/a  | n/a    |      |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |          |        |      |        |      |

Weight: 44 lb

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size) 1=158/0-4-0, 8=167/0-4-0, 10=133/0-4-0, 9=284/0-4-0, 11=288/0-4-0  
 Max Horz 1=72/(load case 5)  
 Max Uplift 1=37/(load case 5), 8=78/(load case 3), 10=76/(load case 3), 9=135/(load case 3), 11=109/(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-97/16, 2-3=-127/57, 3-4=-85/54, 4-5=-85/54, 5-6=-85/54, 6-7=-85/54, 7-8=-106/93  
 BOT CHORD 2-11=-54/85, 10-11=-54/85, 9-10=-54/85, 8-9=-54/85  
 WEBS 5-10=-93/85, 6-9=-183/159, 4-11=-164/150

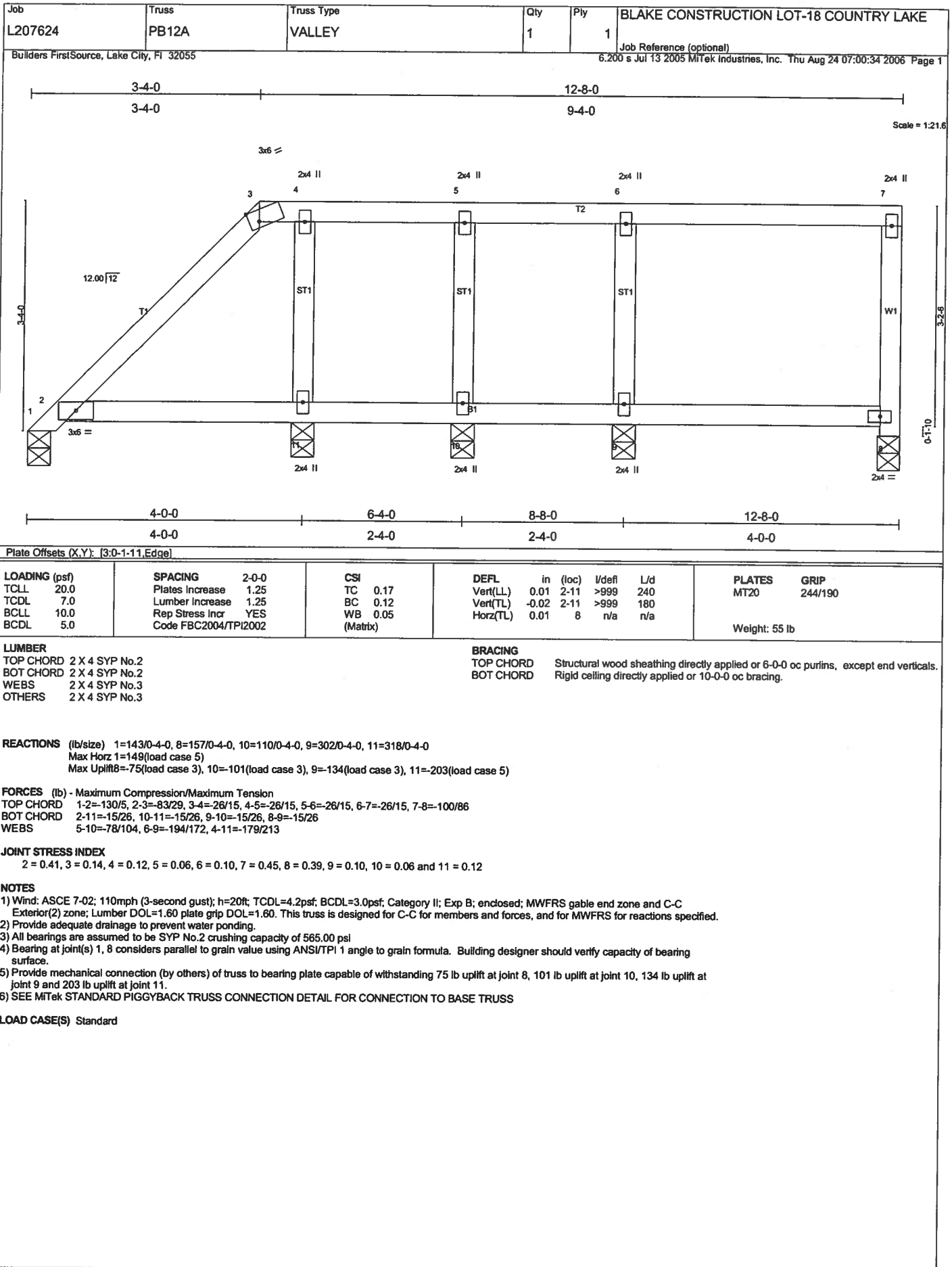
**JOINT STRESS INDEX**  
 2 = 0.24, 3 = 0.11, 4 = 0.09, 5 = 0.05, 6 = 0.09, 7 = 0.63, 8 = 0.53, 9 = 0.09, 10 = 0.05 and 11 = 0.09

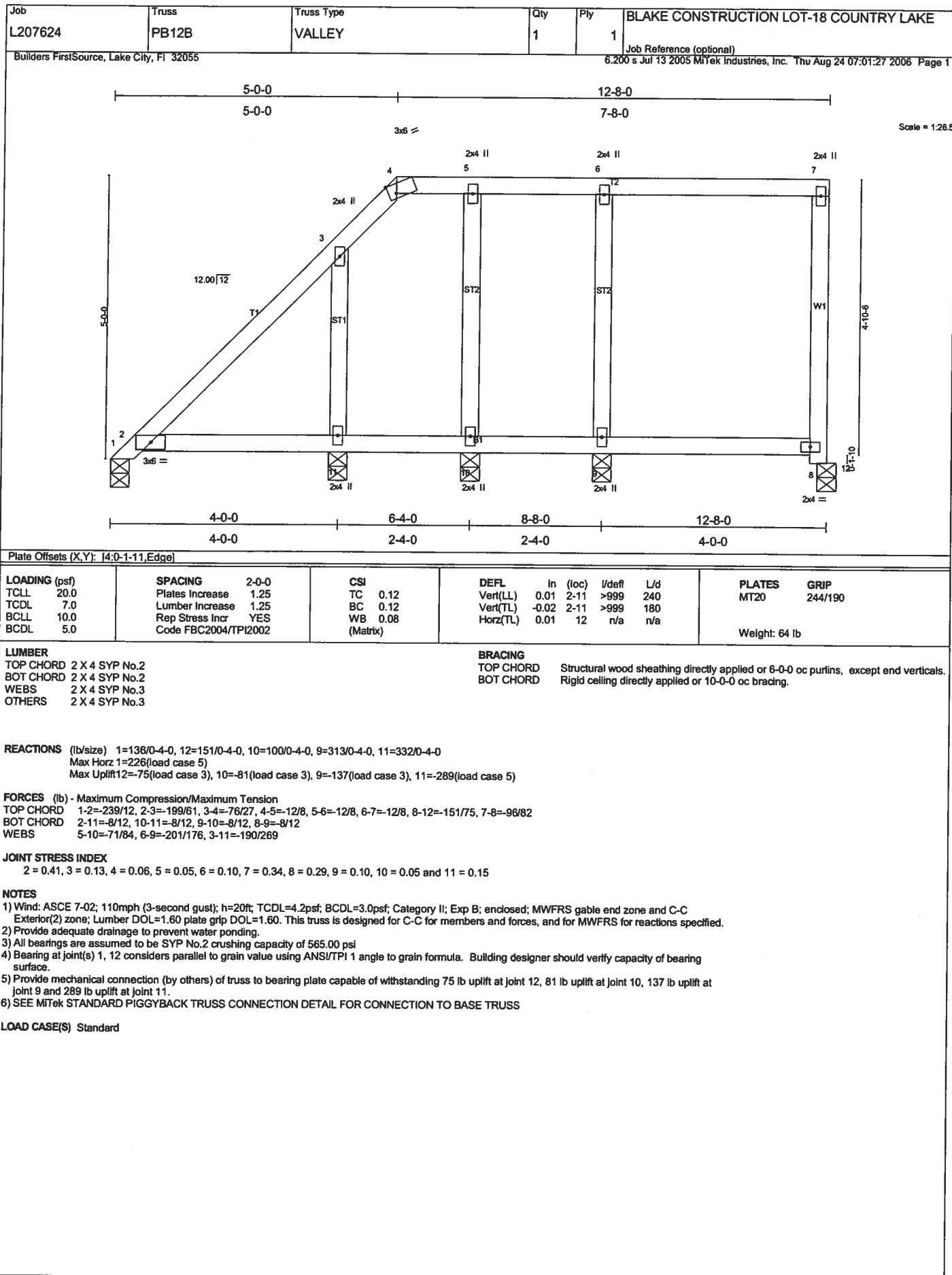
**NOTES**

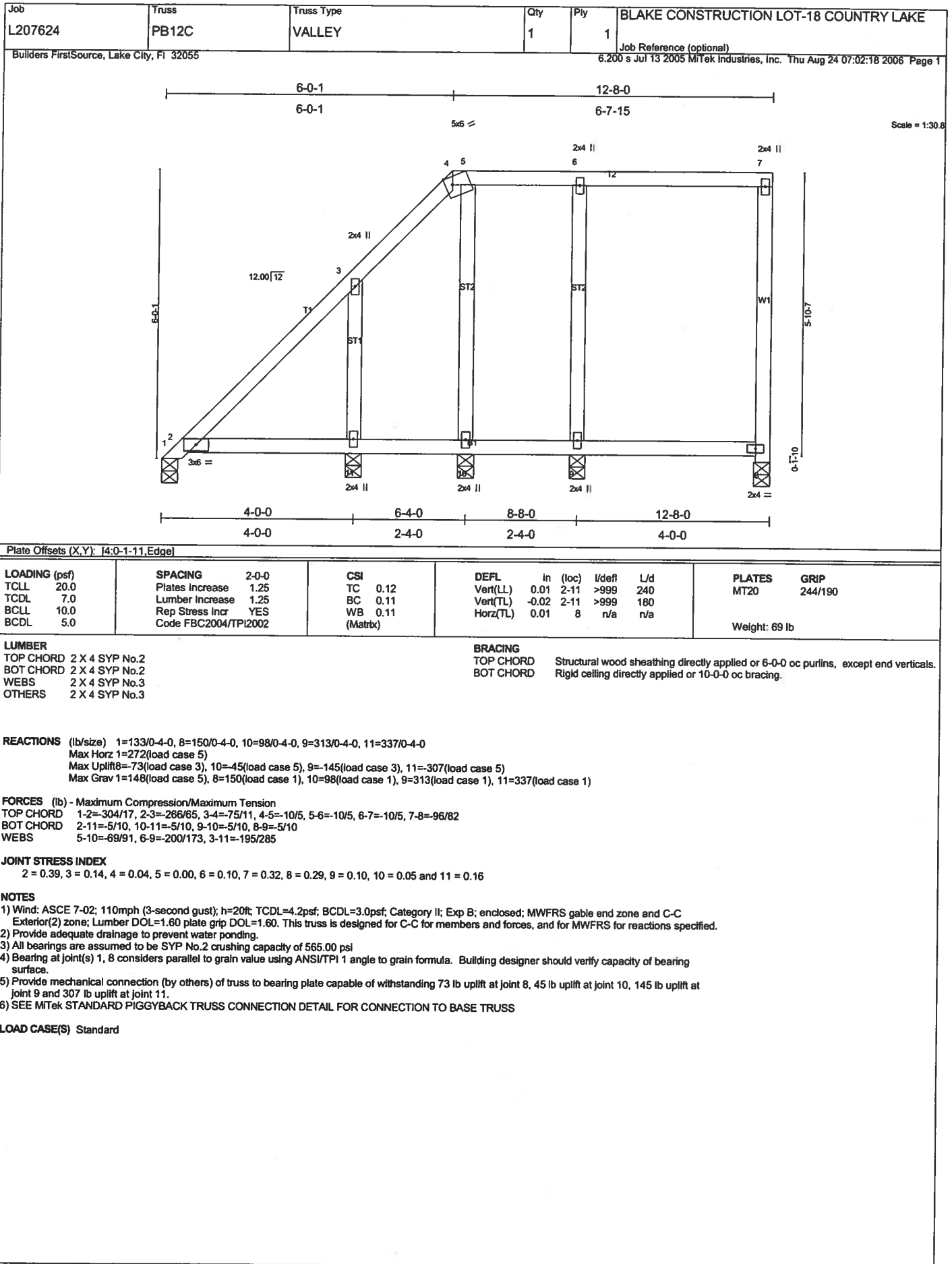
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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 37 lb uplift at joint 1, 78 lb uplift at joint 8, 76 lb uplift at joint 10, 135 lb uplift at joint 9 and 109 lb uplift at joint 11.
- SEE MITTEK STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

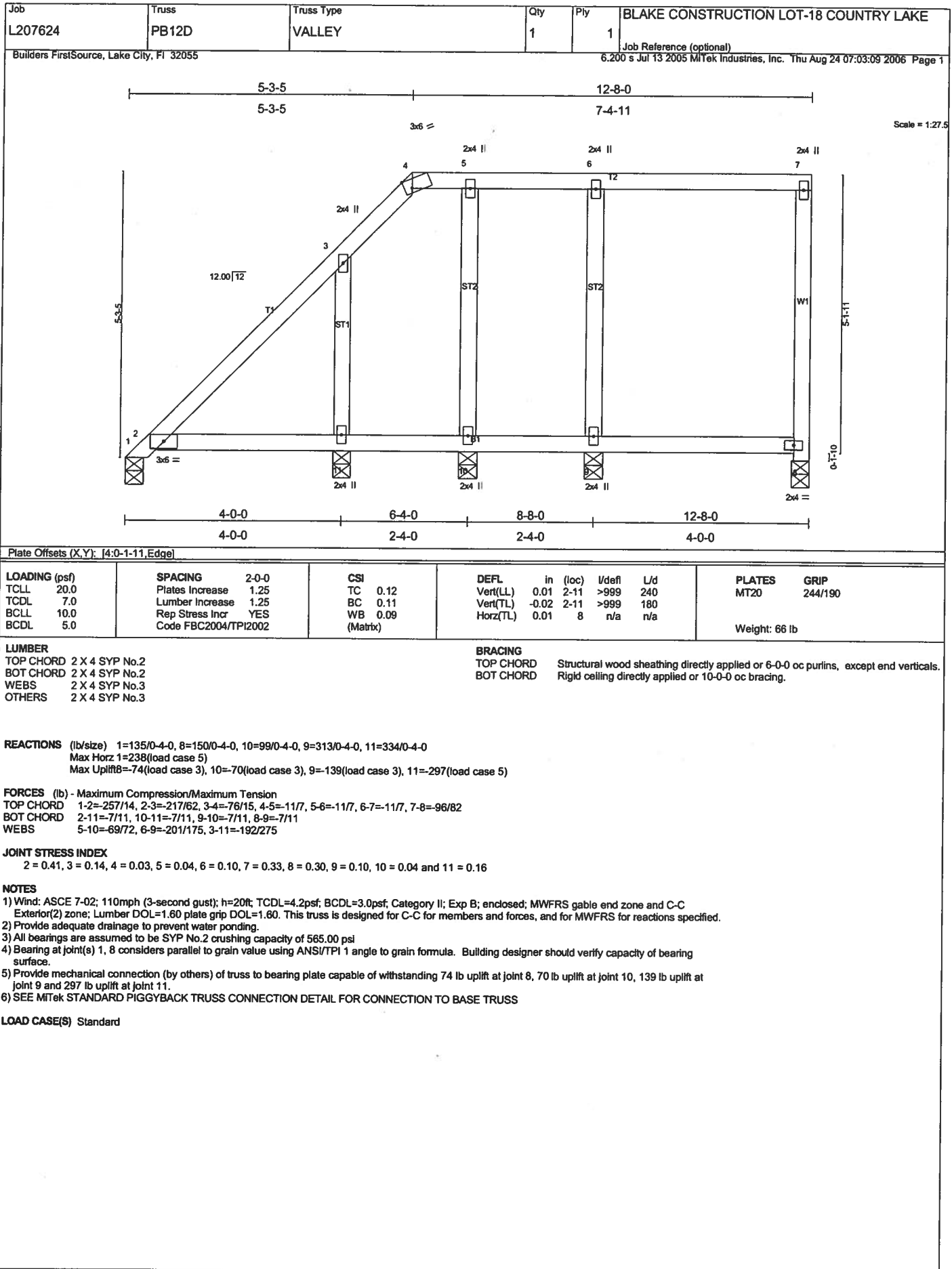
**LOAD CASE(S)** Standard











|                                           |               |                      |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB13 | Truss Type<br>VALLEY | Qty<br>6                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                      | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 07:03:49 2006 Page 1 |          |                                        |

|                                                                        |                                                                                                                        |                                                         |                                                                                                                              |                                        |                        |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------|
| <b>LOADING (psf)</b><br>TCLL 20.0<br>TCDL 7.0<br>BCLL 10.0<br>BCDL 5.0 | <b>SPACING</b><br>2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr YES<br>Code FBC2004/TPI2002 | <b>CSI</b><br>TC 0.12<br>BC 0.09<br>WB 0.19<br>(Matrix) | <b>DEFL</b><br>in (loc) l/defl L/d<br>Vert(LL) 0.01 2-10 >999 240<br>Vert(TL) -0.01 2-10 >999 180<br>Horz(TL) 0.01 7 n/a n/a | <b>PLATES</b><br>MT20<br>Weight: 67 lb | <b>GRIP</b><br>244/190 |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------|

|                                                                                                |                                                                                                                                                              |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 4 SYP No.2<br>OTHERS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 1=70/0-4-0, 7=70/0-4-0, 9=318/0-4-0, 8=337/0-4-0, 10=337/0-4-0  
 Max Horz 1=237(load case 4)  
 Max Uplift 1=87(load case 3), 9=-14(load case 4), 8=-288(load case 6), 10=299(load case 5)  
 Max Grav 1=135(load case 4), 7=80(load case 10), 9=318(load case 1), 8=343(load case 10), 10=343(load case 9)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-269/244, 2-3=-217/162, 3-4=-53/132, 4-5=-2/132, 5-6=-151/162, 6-7=48/1  
 BOT CHORD 2-10=-59/192, 9-10=-59/192, 8-9=-59/192, 6-8=-59/192  
 WEBS 4-9=-255/36, 5-8=-209/288, 3-10=-209/283

**JOINT STRESS INDEX**  
 2 = 0.29, 3 = 0.14, 4 = 0.15, 5 = 0.14, 6 = 0.29, 8 = 0.17, 9 = 0.09 and 10 = 0.17

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 4) 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.  
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 1, 14 lb uplift at joint 9, 288 lb uplift at joint 8 and 299 lb uplift at joint 10.  
 6) SEE Mitek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

|                                           |               |                      |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB14 | Truss Type<br>VALLEY | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                      | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 07:05:13 2006 Page 1 |          |                                        |

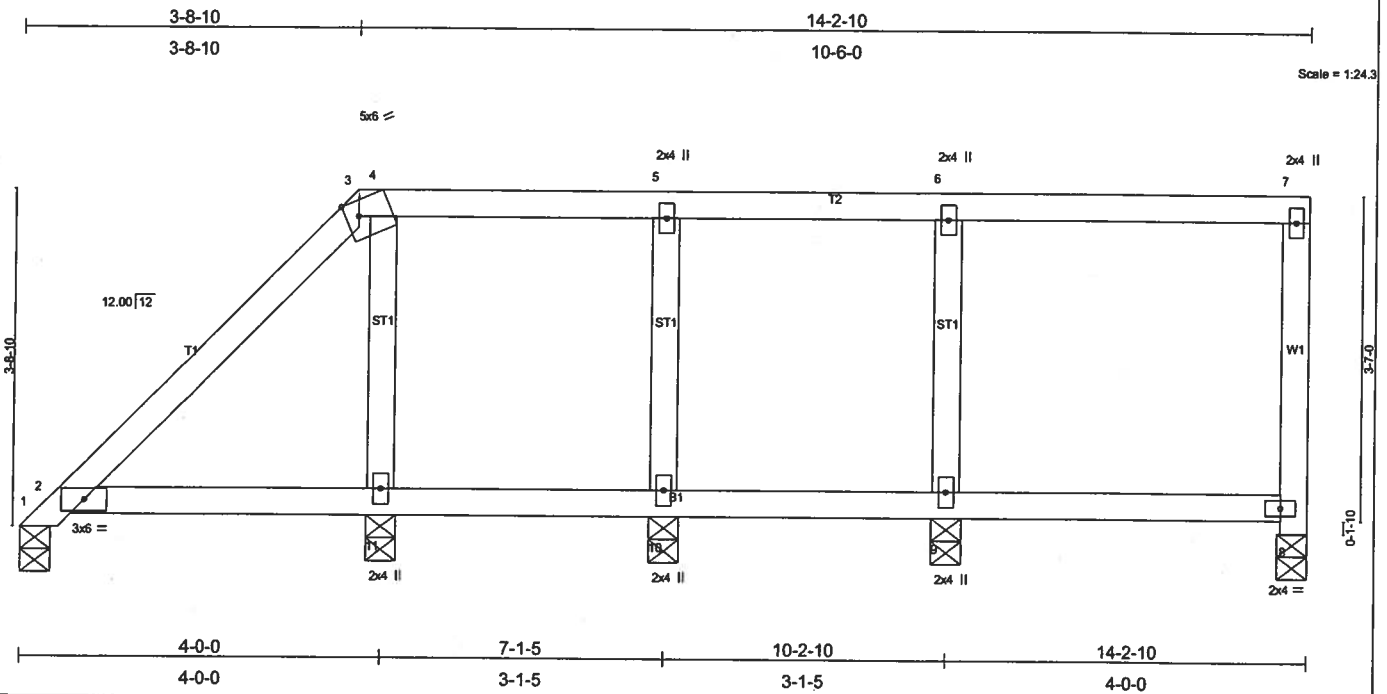


Plate Offsets (X,Y): {3:0-1-11,Edge}

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.14  | Vert(LL) | 0.01  | 2-11  | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.11  | Vert(TL) | -0.02 | 2-11  | >999   | 180 |               |         |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.05  | Horz(TL) | -0.01 | 1     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 62 lb |         |

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size) 1=139/0-4-0, 8=152/0-4-0, 10=217/0-4-0, 9=321/0-4-0, 11=333/0-4-0

Max Horz 8=166(load case 5)

Max Uplift 8=74(load case 3), 10=139(load case 3), 9=143(load case 3), 11=190(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-85/0, 2-3=-102/45, 3-4=-19/12, 4-5=-19/12, 5-6=-19/12, 6-7=-19/12, 7-8=-97/82

BOT CHORD 2-11=-24/160, 10-11=-24/160, 9-10=-24/160, 8-9=-24/160

WEBS 5-10=-144/151, 6-9=-207/170, 4-11=-192/214

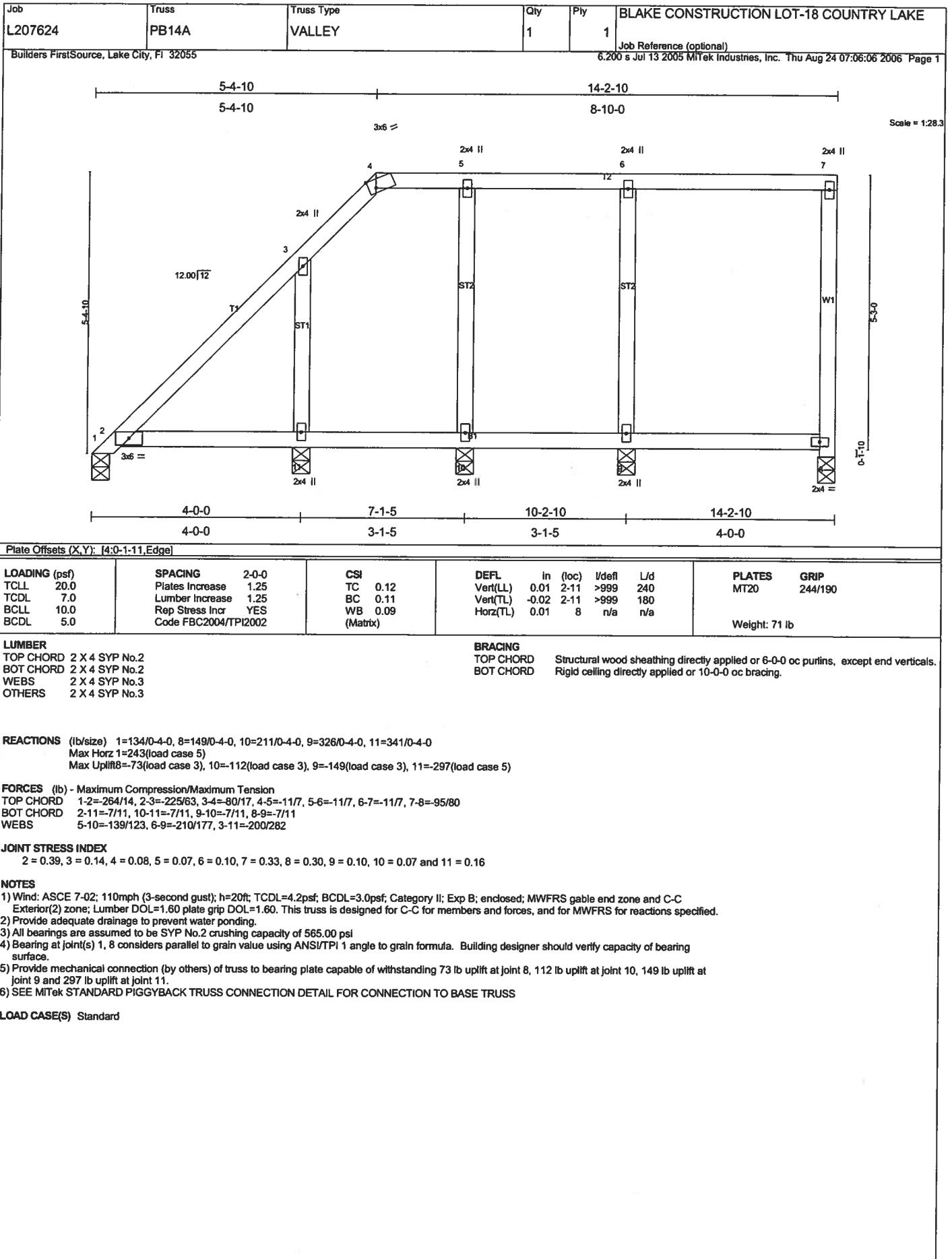
**JOINT STRESS INDEX**

2 = 0.33, 3 = 0.29, 4 = 0.00, 5 = 0.09, 6 = 0.10, 7 = 0.39, 8 = 0.33, 9 = 0.10, 10 = 0.09 and 11 = 0.12

**NOTES**

- 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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 74 lb uplift at joint 8, 139 lb uplift at joint 10, 143 lb uplift at joint 9 and 190 lb uplift at joint 11.
- SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

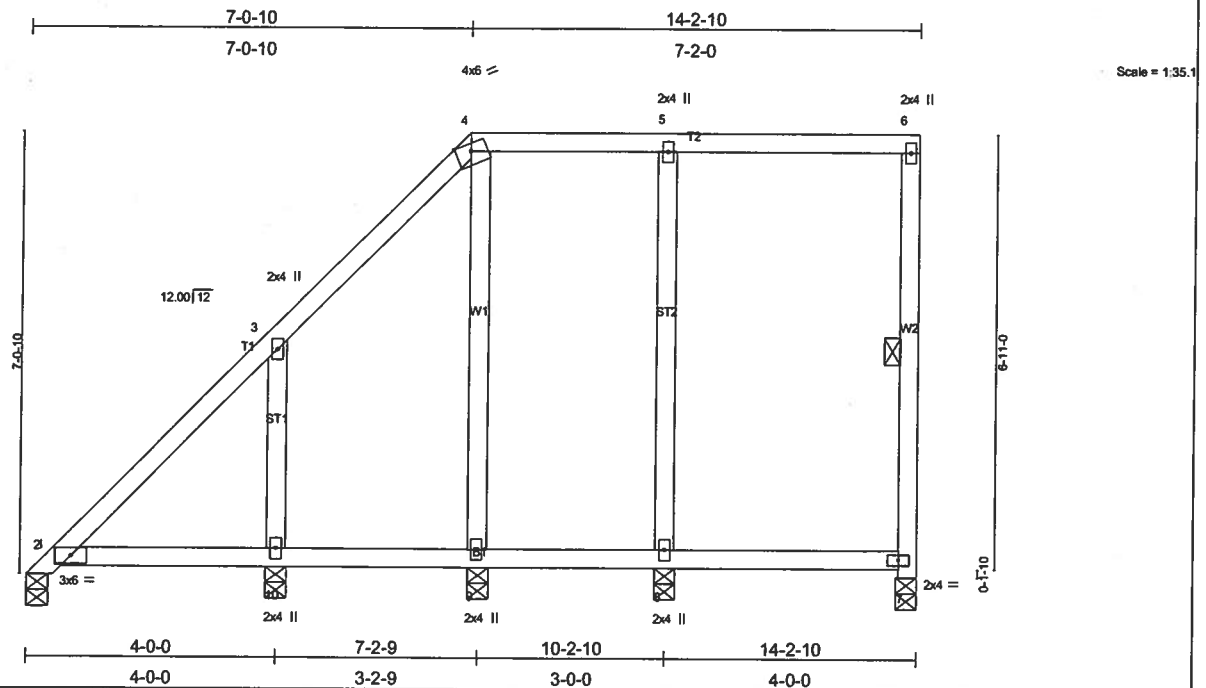
LOAD CASE(S) Standard





|                                                        |       |            |     |     |                                        |
|--------------------------------------------------------|-------|------------|-----|-----|----------------------------------------|
| Job                                                    | Truss | Truss Type | Qty | PLY | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| L207624                                                | PB14B | VALLEY     | 1   | 1   |                                        |
| <small>Buildings FirstSource Job City FL 33455</small> |       |            |     |     | Job Reference (optional)               |

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[illegible]

**LUMBER**

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

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

**REACTIONS** (lb/size) 1=132/0-4-0, 7=147/0-4-0, 8=328/0-4-0, 10=348/0-4-0, 9=206/0-4-0  
 Max Horz 1=320(load case 5)  
 Max Uplift 7=69(load case 3), 8=163(load case 3), 10=321(load case 5), 9=121(load case 5)  
 Max Grav 1=194(load case 5), 7=147(load case 1), 8=328(load case 1), 10=348(load case 1), 9=206(load case 1)

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=371/21, 2-3=333/65, 3-4=91/36, 4-5=8/3, 5-6=7/4, 6-7=93/77  
**BOT CHORD** 2-10=8/10, 9-10=8/10, 8-9=4/7, 7-8=4/7  
**WEBS** 5-8=212/190, 3-10=205/310, 4-9=134/170

**JOINT STRESS INDEX**  
2 = 0.36, 3 = 0.15, 4 = 0.23, 5 = 0.11, 6 = 0.29, 7 = 0.28, 8 = 0.11, 9 = 0.10 and 10 = 0.18

## NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 585.00 psi
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 7, 163 lb uplift at joint 8, 321 lb uplift at joint 10 and 121 lb uplift at joint 9.
- 6) SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)** Standard

**AUGUST 29, 2006 TRUSS DESIGN ENGINEER:  
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**

|                                           |                |                      |                                                                                                        |          |                                        |
|-------------------------------------------|----------------|----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB14C | Truss Type<br>VALLEY | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                |                      | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 06:58:21 2006 Page 1 |          |                                        |

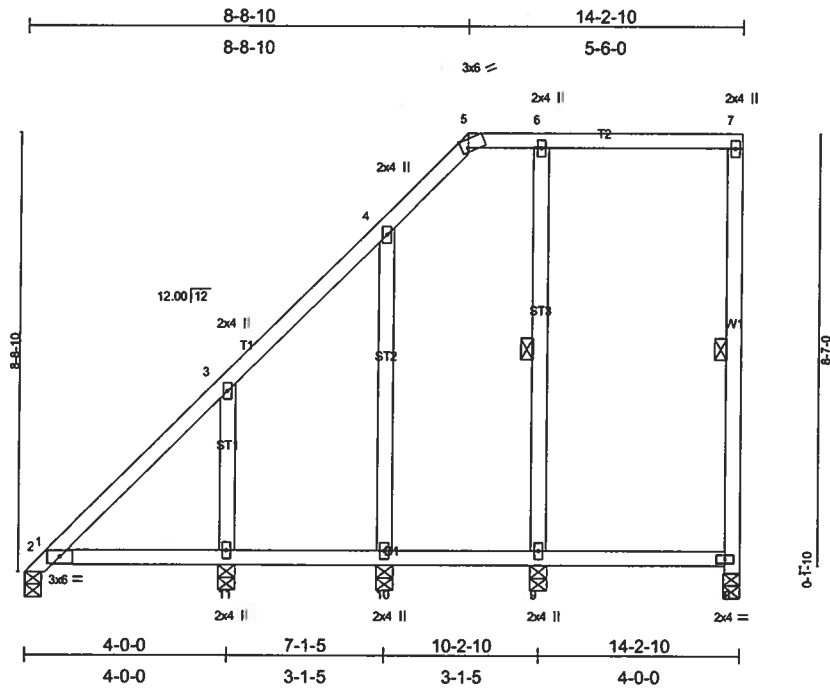


Plate Offsets (X,Y): [5:0-1-11,Edge]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.12  | Vert(LL) | 0.01  | 2-11  | >999   | 240 | MT20   | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.11  | Vert(TL) | -0.02 | 2-11  | >999   | 180 |        |         |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.11  | Horz(TL) | 0.01  | 8     | n/a    | n/a |        |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |        |         |
| Weight: 85 lb |                      |       |          |          |       |       |        |     |        |         |

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-8, 6-9

**REACTIONS** (lb/size) 1=128/0-4-0, 8=146/0-4-0, 10=213/0-4-0, 9=326/0-4-0, 11=348/0-4-0

Max Horz 1=397(load case 5)

Max Uplift 1=-1(load case 3), 8=-73(load case 3), 10=-206(load case 5), 9=-132(load case 3), 11=-316(load case 5)

Max Grav 1=274(load case 5), 8=146(load case 1), 10=213(load case 1), 9=326(load case 1), 11=348(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-481/31, 2-3=-447/72, 3-4=-209/43, 4-5=-58/5, 5-6=-5/3, 6-7=-5/3, 7-8=-93/81

BOT CHORD 2-11=-3/5, 10-11=-3/5, 9-10=-3/5, 8-9=-3/5

WEBS 4-10=-141/232, 6-9=-208/184, 3-11=-208/306

**JOINT STRESS INDEX**

2 = 0.34, 3 = 0.15, 4 = 0.11, 5 = 0.09, 6 = 0.11, 7 = 0.27, 8 = 0.26, 9 = 0.11, 10 = 0.13 and 11 = 0.17

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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 1 lb uplift at joint 1, 73 lb uplift at joint 8, 206 lb uplift at joint 10, 132 lb uplift at joint 9 and 316 lb uplift at joint 11.
- 6) SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

|                                           |               |                      |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB18 | Truss Type<br>VALLEY | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                      | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 07:18:07 2006 Page 1 |          |                                        |

|                                      |                       |            |                               |               |             |
|--------------------------------------|-----------------------|------------|-------------------------------|---------------|-------------|
| Plate Offsets (X,Y): [4:0-3-0,0-3-0] |                       |            |                               |               |             |
| <b>LOADING (psf)</b>                 | <b>SPACING</b>        | <b>CSI</b> | <b>DEFL</b>                   | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0                            | Plates Increase 2-0-0 | TC 0.15    | in (loc) l/defl L/d           | MT20          | 244/190     |
| TCDL 7.0                             | Lumber Increase 1.25  | BC 0.07    | Vert(LL) -0.00 12-13 >999 240 |               |             |
| BCLL 10.0                            | Rep Stress Incr YES   | WB 0.04    | Vert(TL) -0.01 12-13 >999 180 |               |             |
| BCDL 5.0                             | Code FBC2004/TPI2002  | (Matrix)   | Horz(TL) 0.00 8 n/a n/a       |               |             |
| Weight: 66 lb                        |                       |            |                               |               |             |

|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>            | <b>BRACING</b>                                                                                  |
| TOP CHORD 2 X 4 SYP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2 X 4 SYP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS 2 X 4 SYP No.3      |                                                                                                 |
| OTHERS 2 X 4 SYP No.3    |                                                                                                 |

**REACTIONS** (lb/size) 11=-49/0-4-0, 9=352/0-4-0, 10=296/0-4-0, 13=352/0-4-0, 12=296/0-4-0, 14=149/0-4-0, 8=149/0-4-0  
 Max Uplift 11=-49(load case 1), 9=-133(load case 3), 10=-110(load case 3), 13=-133(load case 3), 12=-110(load case 3), 14=-56(load case 3), 8=-56(load case 3)  
 Max Grav 11=16(load case 3), 9=352(load case 1), 10=296(load case 1), 13=352(load case 1), 12=296(load case 1), 14=149(load case 1), 8=149(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-14=-95/68, 1-2=-58/23, 2-3=-58/23, 3-4=-58/23, 4-5=-58/23, 5-6=-58/23, 6-7=-58/23, 7-8=-95/68  
 BOT CHORD 13-14=-23/58, 12-13=-23/58, 11-12=-23/58, 10-11=-23/58, 9-10=-23/58, 8-9=-23/58  
 WEBS 4-11=-20/28, 6-9=-227/164, 5-10=-188/135, 2-13=-227/164, 3-12=-188/135

**JOINT STRESS INDEX**  
 1 = 0.45, 2 = 0.34, 3 = 0.34, 4 = 0.20, 5 = 0.34, 6 = 0.34, 7 = 0.45, 8 = 0.36, 9 = 0.34, 10 = 0.34, 11 = 0.34, 12 = 0.34, 13 = 0.34 and 14 = 0.36

**NOTES**  
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Provide adequate drainage to prevent water ponding.  
 3) All plates are 2x4 MT20 unless otherwise indicated.  
 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 5) Bearing at joint(s) 14, 8 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 49 lb uplift at joint 11, 133 lb uplift at joint 9, 110 lb uplift at joint 10, 133 lb uplift at joint 13, 110 lb uplift at joint 12, 56 lb uplift at joint 14 and 56 lb uplift at joint 8.

**LOAD CASE(S)** Standard

|                                           |                |                      |                          |          |                                        |
|-------------------------------------------|----------------|----------------------|--------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>PB18A | Truss Type<br>VALLEY | Qty<br>1                 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                |                      | Job Reference (optional) |          |                                        |

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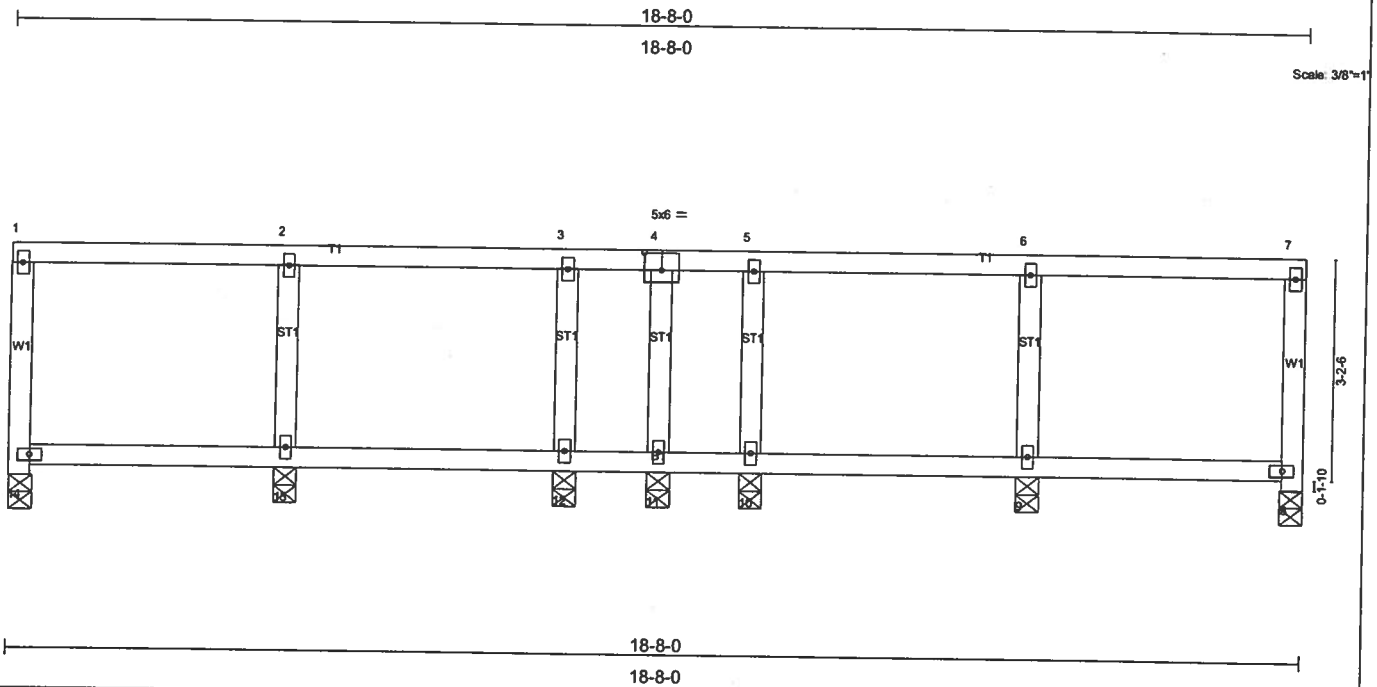


Plate Offsets (X,Y): [4:0-3:0,0-3:0]

| LOADING (psf) | SPACING              | CSI      | DEFL                          | PLATES        | GRIP    |
|---------------|----------------------|----------|-------------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.14  | In (loc) l/defl L/d           | MT20          | 244/190 |
| TCOL 7.0      | Plates Increase 1.25 | BC 0.06  | Vert(LL) -0.00 12-13 >999 240 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.05  | Vert(TL) -0.01 12-13 >999 180 |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.00 8 n/a n/a       |               |         |
|               | Code FBC2004/TPI2002 |          |                               |               |         |
|               |                      |          |                               | Weight: 83 lb |         |

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(lb/size) 11=38/0-4-0, 9=355/0-4-0, 10=289/0-4-0, 13=355/0-4-0, 12=289/0-4-0, 14=146/0-4-0, 8=146/0-4-0  
 Max Uplift 11=38(load case 1), 9=134(load case 3), 10=106(load case 3), 13=134(load case 3), 12=106(load case 3), 14=55(load case 3), 8=55(load case 3)  
 Max Grav 11=8(load case 3), 9=355(load case 1), 10=289(load case 1), 13=355(load case 1), 12=289(load case 1), 14=146(load case 1), 8=146(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-93/65, 1-2=-22/9, 2-3=-22/9, 3-4=-22/9, 4-5=-22/9, 5-6=-22/9, 6-7=-22/9, 7-8=-93/65  
 BOT CHORD 13-14=-9/22, 12-13=-9/22, 11-12=-9/22, 10-11=-9/22, 9-10=-9/22, 8-9=-9/22  
 WEBS 4-11=-11/17, 6-9=-230/167, 5-10=-181/130, 2-13=-230/167, 3-12=-181/130

**JOINT STRESS INDEX**

1 = 0.39, 2 = 0.34, 3 = 0.34, 4 = 0.20, 5 = 0.34, 6 = 0.34, 7 = 0.39, 8 = 0.34, 9 = 0.34, 10 = 0.34, 11 = 0.34, 12 = 0.34, 13 = 0.34 and 14 = 0.34

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Bearing at joint(s) 14, 8 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 38 lb uplift at joint 11, 134 lb uplift at joint 9, 106 lb uplift at joint 10, 134 lb uplift at joint 13, 106 lb uplift at joint 12, 55 lb uplift at joint 14 and 55 lb uplift at joint 8.

LOAD CASE(S) Standard

|                                           |                       |                             |                                                                                                        |                 |                                        |
|-------------------------------------------|-----------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------|
| Job<br><b>L207624</b>                     | Truss<br><b>PB18B</b> | Truss Type<br><b>VALLEY</b> | Qty<br><b>1</b>                                                                                        | Ply<br><b>1</b> | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |                       |                             | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 07:15:18 2006 Page 1 |                 |                                        |

|                                      |                       |          |                               |        |         |
|--------------------------------------|-----------------------|----------|-------------------------------|--------|---------|
| Plate Offsets (X,Y): [4:0-3:0,0-3:0] |                       |          |                               |        |         |
| LOADING (psf)                        | SPACING               | CSI      | DEFL                          | PLATES | GRIP    |
| TCLL 20.0                            | Plates Increase 2-0-0 | TC 0.12  | In (loc) l/defl L/d           | MT20   | 244/190 |
| TCDL 7.0                             | Lumber Increase 1.25  | BC 0.06  | Vert(LL) -0.00 12-14 >999 240 |        |         |
| BCLL 10.0                            | Rep Stress Incr YES   | WB 0.09  | Vert(TL) -0.01 12-14 >999 180 |        |         |
| BCDL 5.0                             | Code FBC2004/TPI2002  | (Matrix) | Horz(TL) 0.00 8 n/a n/a       |        |         |
| Weight: 100 lb                       |                       |          |                               |        |         |

|                                                                                                                       |                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 4 SYP No.2<br>WEBS 2 X 4 SYP No.3<br>OTHERS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

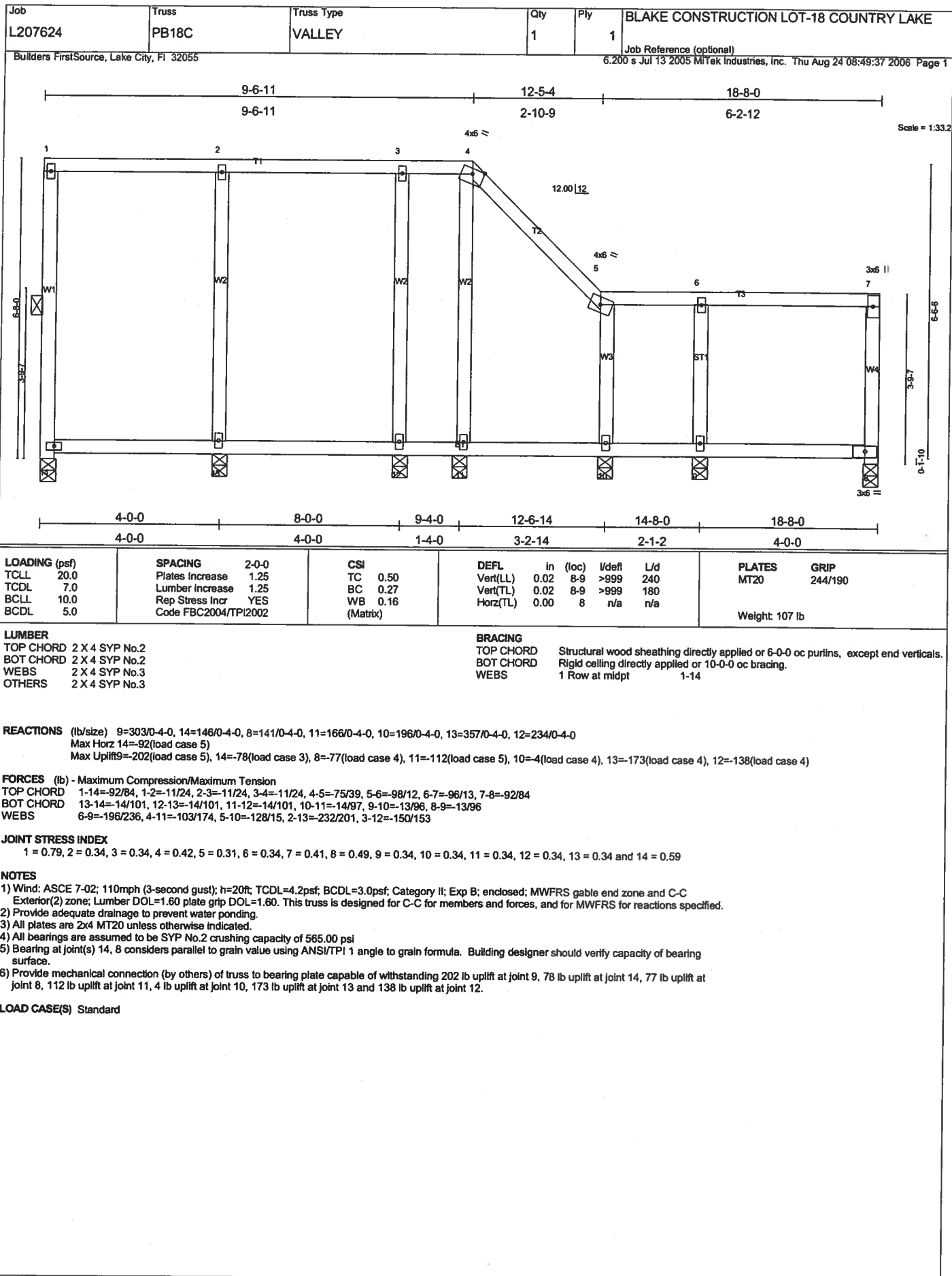
**REACTIONS** (lb/size) 15=143/0-4-0, 11=-27/0-4-0, 9=360/0-4-0, 10=282/0-4-0, 14=360/0-4-0, 12=282/0-4-0, 8=143/0-4-0  
 Max Uplift 15=-54(load case 3), 11=-27(load case 1), 9=-136(load case 3), 10=-102(load case 3), 14=-136(load case 3), 12=-102(load case 3), 8=-54(load case 3)  
 Max Grav 15=143(load case 1), 11=27(load case 3), 9=360(load case 1), 10=282(load case 1), 14=360(load case 1), 12=282(load case 1), 8=143(load case 1)

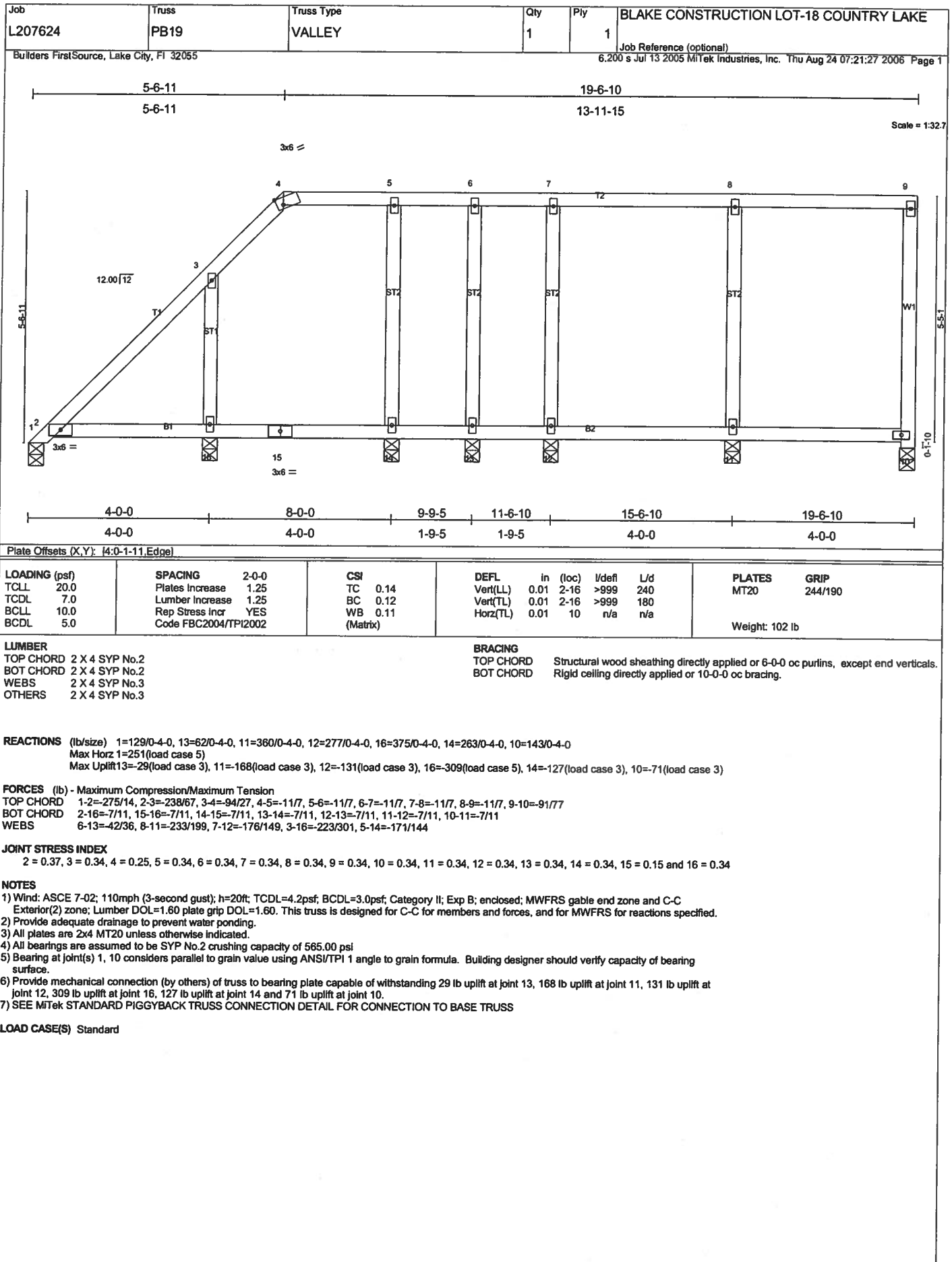
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-15=-91/64, 1-2=-12/5, 2-3=-12/5, 3-4=-12/5, 4-5=-12/5, 5-6=-12/5, 6-7=-12/5, 7-8=-91/64  
 BOT CHORD 14-15=-5/12, 13-14=-5/12, 12-13=-5/12, 11-12=-5/12, 10-11=-5/12, 9-10=-5/12, 8-9=-5/12  
 WEBS 4-11=-4/7, 6-9=-233/169, 5-10=-175/125, 2-14=-233/169, 3-12=-175/125

**JOINT STRESS INDEX**  
 1 = 0.34, 2 = 0.34, 3 = 0.34, 4 = 0.20, 5 = 0.34, 6 = 0.34, 7 = 0.34, 8 = 0.34, 9 = 0.34, 10 = 0.34, 11 = 0.34, 12 = 0.34, 13 = 0.15, 14 = 0.34 and 15 = 0.34

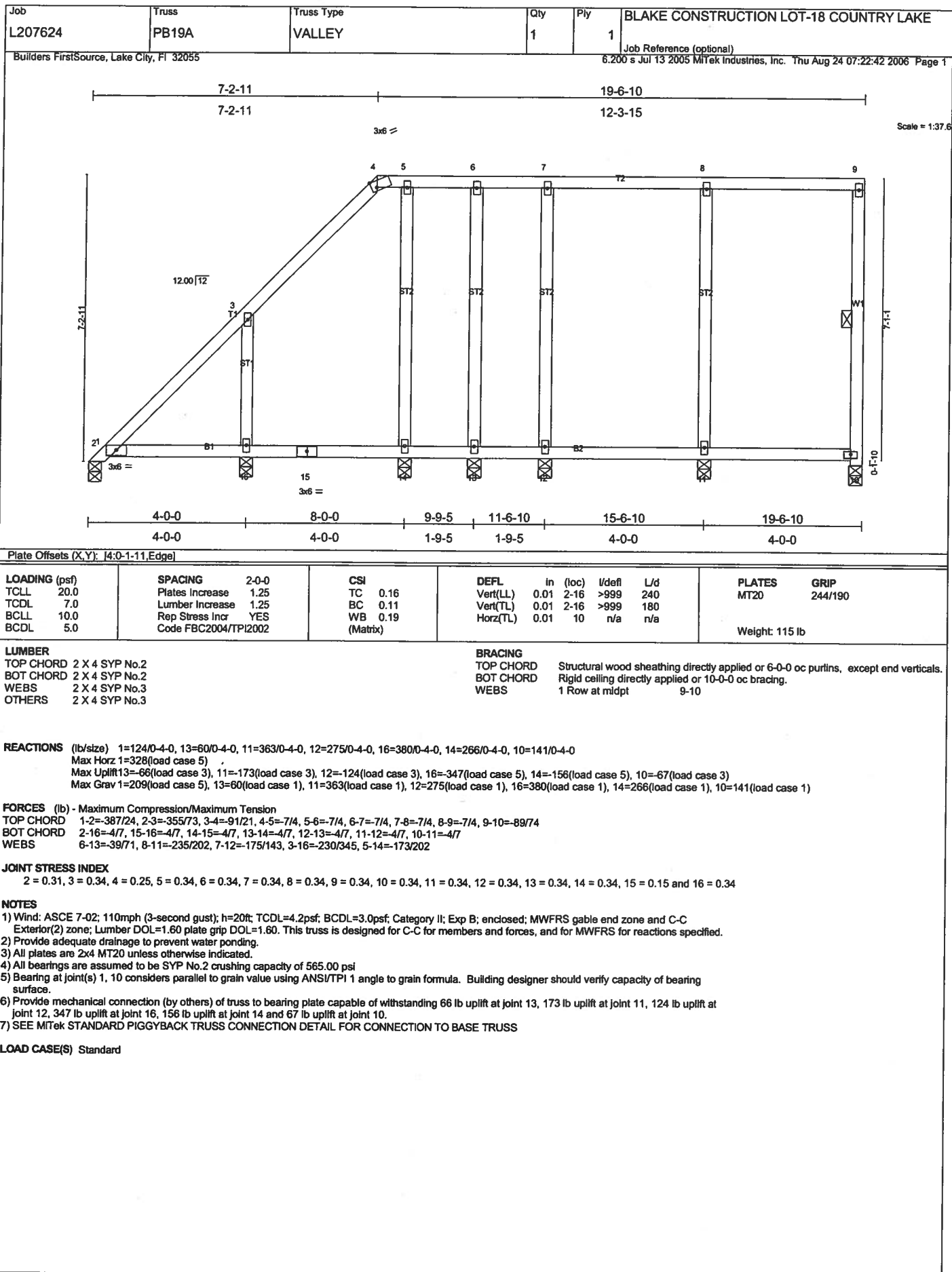
**NOTES**  
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Provide adequate drainage to prevent water ponding.  
 3) All plates are 2x4 MT20 unless otherwise indicated.  
 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 5) Bearing at joint(s) 15, 8 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 54 lb uplift at joint 15, 27 lb uplift at joint 11, 136 lb uplift at joint 9, 102 lb uplift at joint 10, 136 lb uplift at joint 14, 102 lb uplift at joint 12 and 54 lb uplift at joint 8.

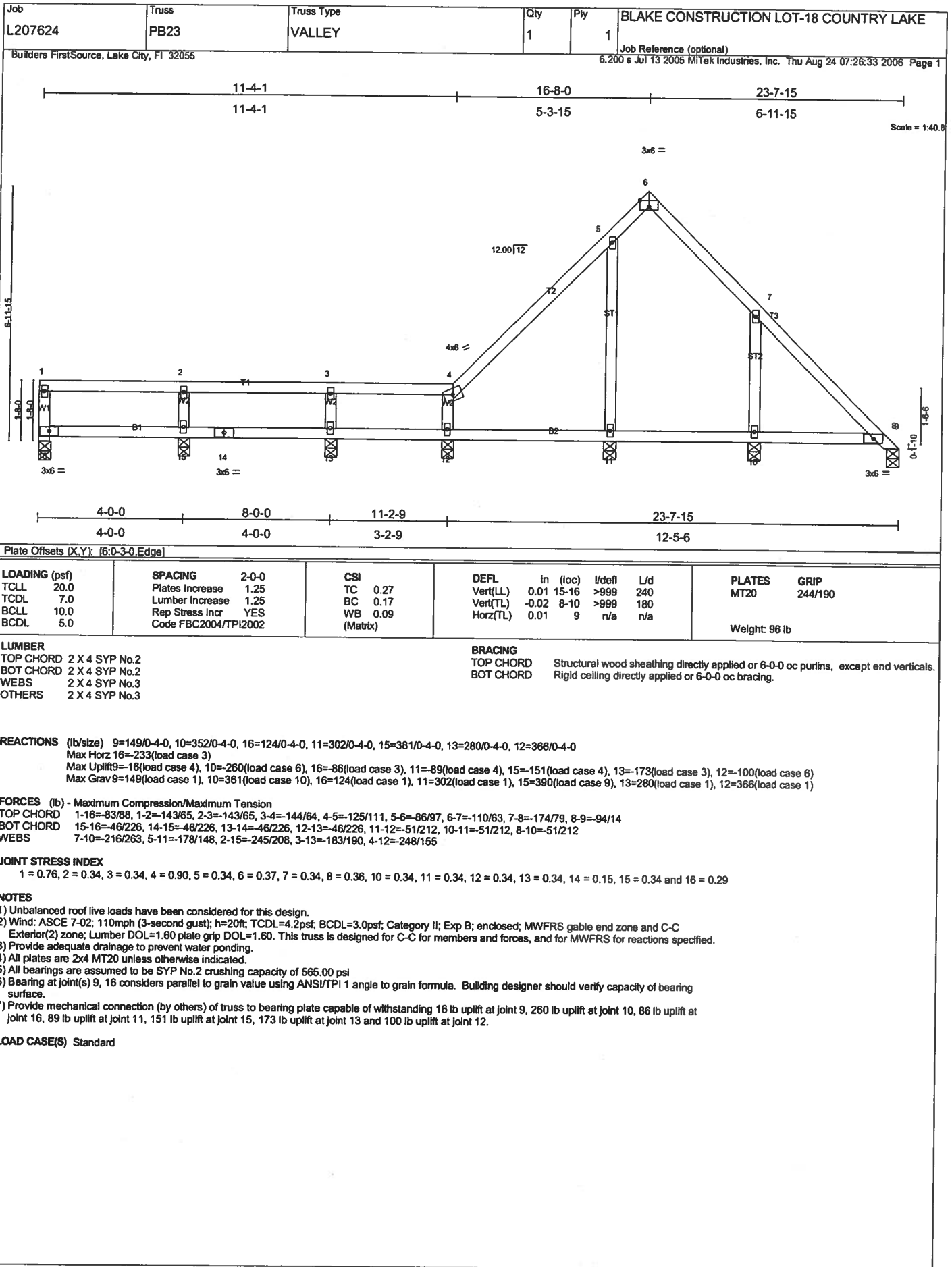
**LOAD CASE(S)** Standard

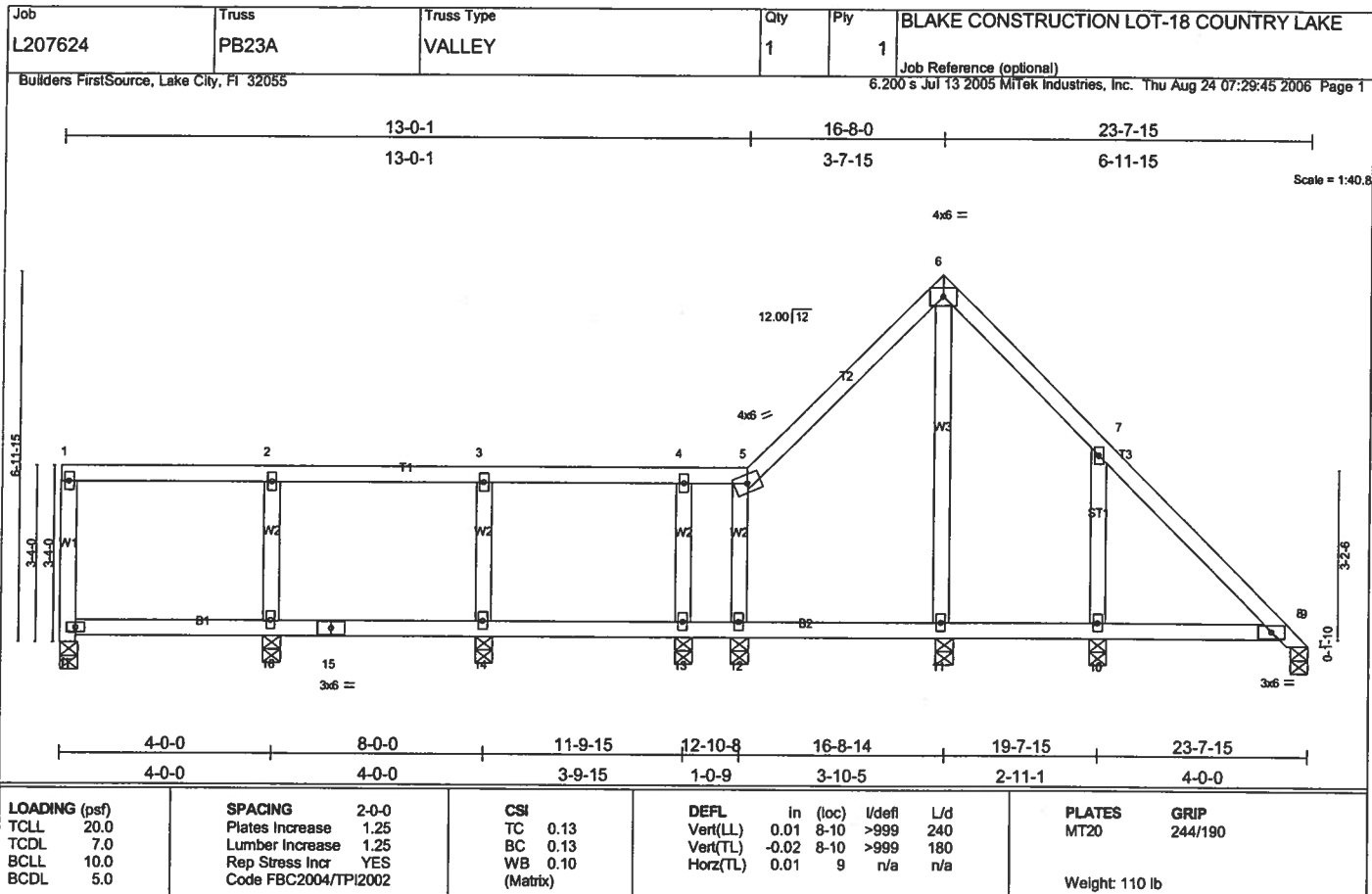












**LUMBER**

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3

OTHERS 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

**REACTIONS** (lb/size) 9=126/0-4-0, 10=330/0-4-0, 17=144/0-4-0, 16=347/0-4-0, 14=339/0-4-0, 13=188/0-4-0, 12=242/0-4-0, 11=214/0-4-0

Max Horz 17=-216(load case 3)

Max Uplift 9=99(load case 4), 10=-283(load case 6), 17=-78(load case 3), 16=-153(load case 3), 14=-162(load case 3), 13=-150(load case 3), 12=-135(load case 5), 11=-20(load case 3)

Max Grav 9=126(load case 1), 10=339(load case 10), 17=145(load case 9), 16=347(load case 1), 14=339(load case 9), 13=188(load case 1), 12=249(load case 9), 11=214(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-93/82, 1-2=-20/19, 2-3=-20/19, 3-4=-20/19, 4-5=-21/17, 5-6=-112/141, 6-7=-98/162, 7-8=-218/199, 8-9=-81/63

BOT CHORD 16-17=-131/198, 15-16=-131/198, 14-15=-131/198, 13-14=-131/198, 12-13=-131/198, 11-12=-139/200, 10-11=-139/200, 8-10=-139/200

WEBS 7-10=-207/280, 2-16=-224/186, 3-14=-218/185, 4-13=-124/164, 5-12=-172/210, 6-11=-140/42

**JOINT STRESS INDEX**

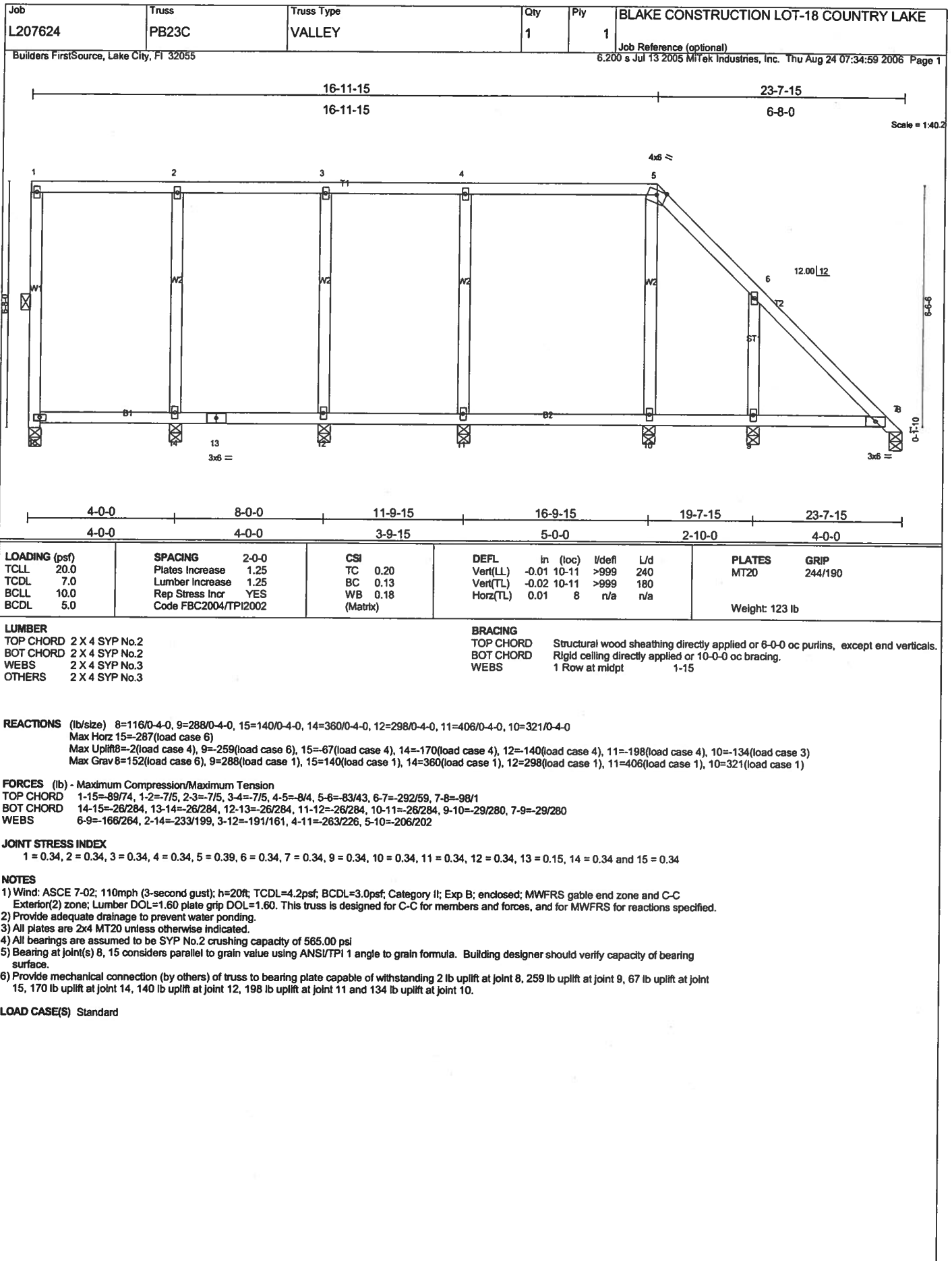
1 = 0.40, 2 = 0.34, 3 = 0.34, 4 = 0.34, 5 = 0.61, 6 = 0.35, 7 = 0.34, 8 = 0.34, 10 = 0.34, 11 = 0.34, 12 = 0.34, 13 = 0.34, 14 = 0.34, 15 = 0.15, 16 = 0.34 and 17 = 0.34

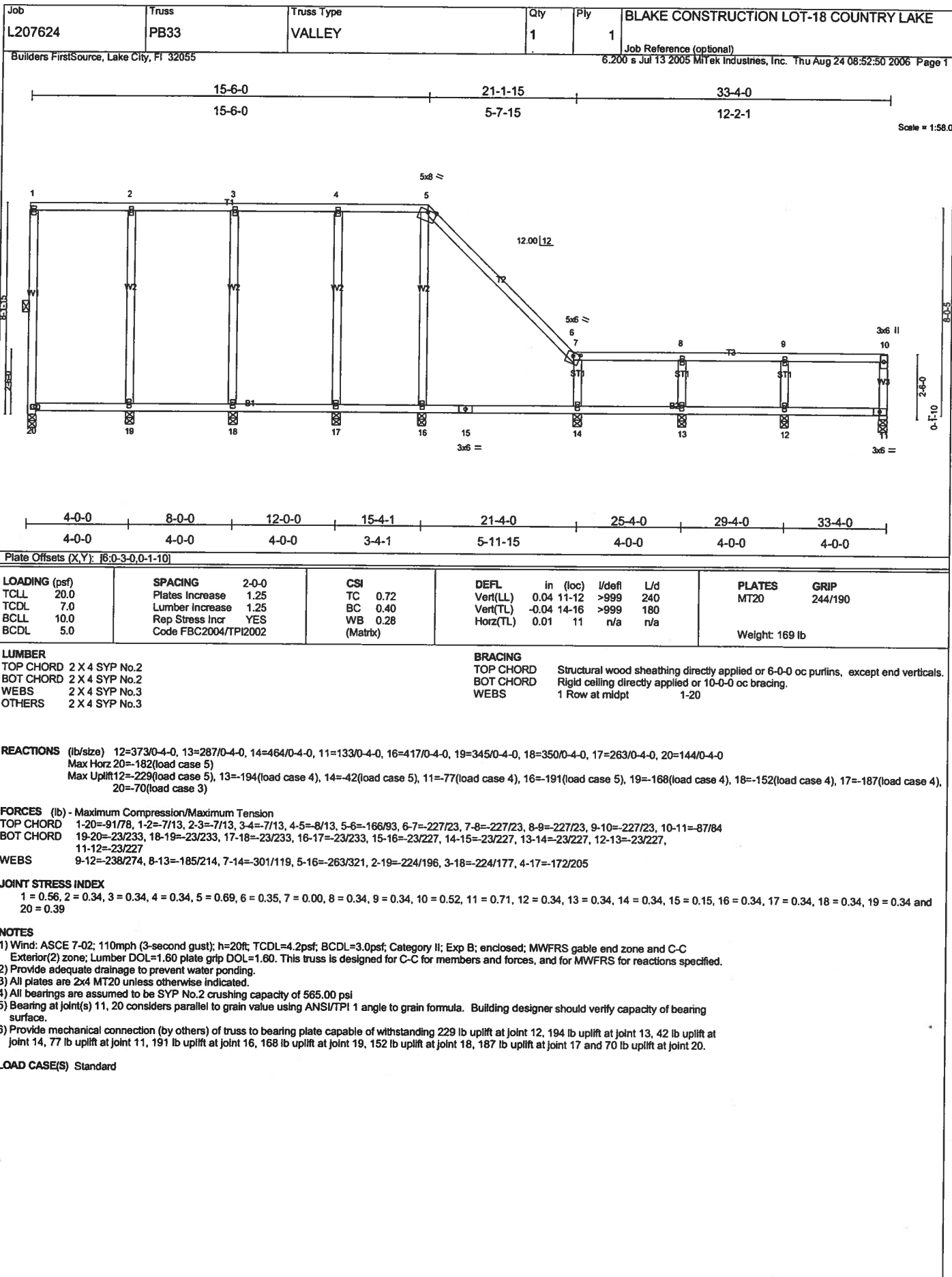
**NOTES**

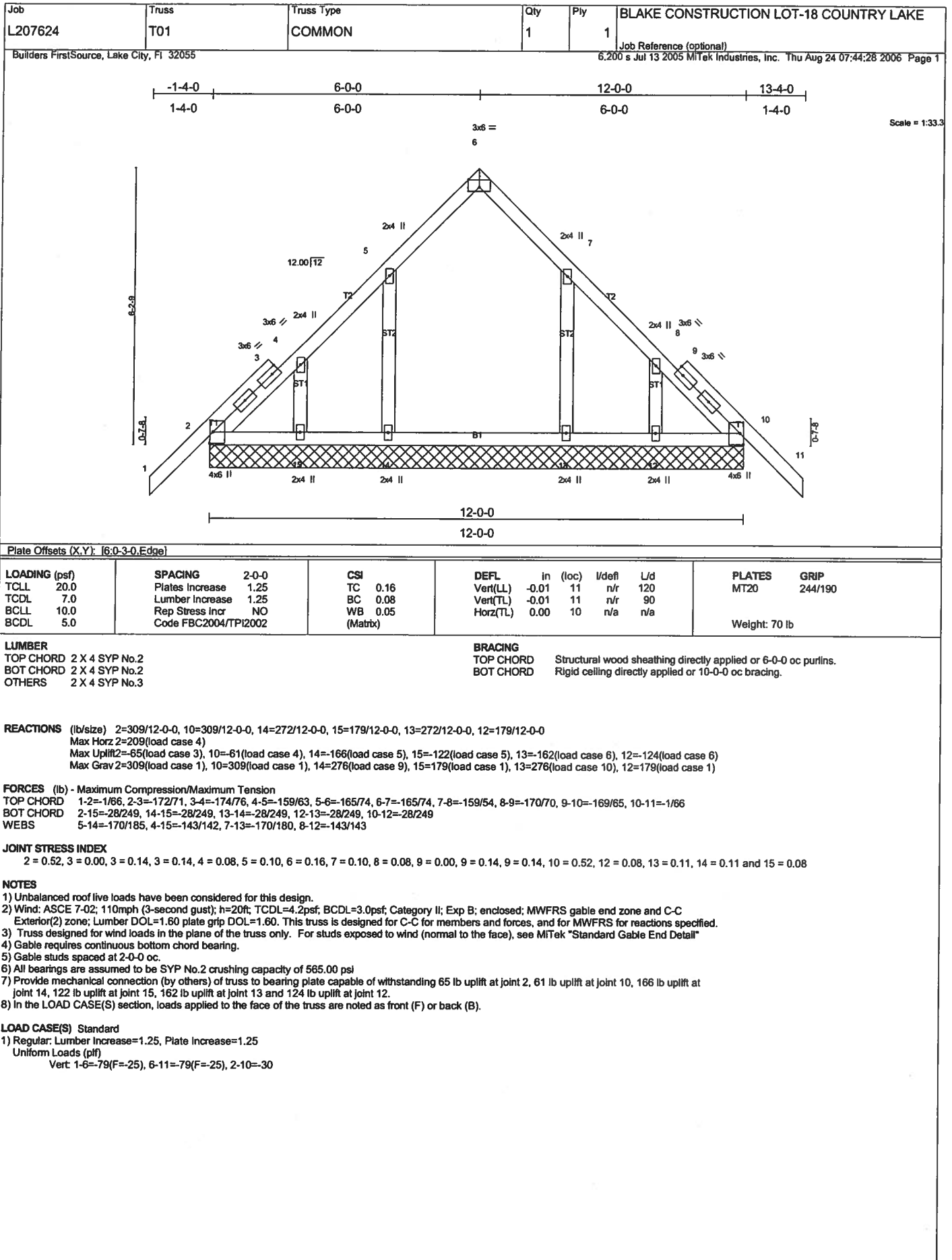
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Bearing at joint(s) 9, 17 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 9, 283 lb uplift at joint 10, 78 lb uplift at joint 17, 153 lb uplift at joint 16, 162 lb uplift at joint 14, 150 lb uplift at joint 13, 135 lb uplift at joint 12 and 20 lb uplift at joint 11.

**LOAD CASE(S)** Standard

**AUGUST 29, 2006 TRUSS DESIGN ENGINEER:  
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549**







Job: L207624 Truss: T02 Truss Type: COMMON Qty: 3 Ply: 1 BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE

Builders FirstSource, Lake City, FL 32055 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 09:56:58 2006 Page 1

Scale = 1:35

The diagram shows a gable truss with a total width of 24'-0" and a peak height of 12'-0". The truss is composed of two main chords (top and bottom) and two webs (left and right). The top chord is labeled '2 X 4 SYP No. 2' and the bottom chord is labeled '2 X 4 SYP No. 2'. The webs are labeled '2 X 4 SYP No. 3'. The truss is supported by four points: 1 (left end), 2 (left support), 3 (peak), and 4 (right support). The dimensions are as follows: Total width: 24'-0"; Peak height: 12'-0"; Chord length: 12'-0"; Web length: 12'-0"; Support spacing: 12'-0" (between 2 and 4). The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II', '2x4 II', 'W1', 'T1', 'T2', 'T3', 'T4', 'T5', 'T6', 'T7', 'T8', 'T9', 'T10', 'T11', 'T12', 'T13', 'T14', 'T15', 'T16', 'T17', 'T18', 'T19', 'T20', 'T21', 'T22', 'T23', 'T24', 'T25', 'T26', 'T27', 'T28', 'T29', 'T30', 'T31', 'T32', 'T33', 'T34', 'T35', 'T36', 'T37', 'T38', 'T39', 'T40', 'T41', 'T42', 'T43', 'T44', 'T45', 'T46', 'T47', 'T48', 'T49', 'T50', 'T51', 'T52', 'T53', 'T54', 'T55', 'T56', 'T57', 'T58', 'T59', 'T60', 'T61', 'T62', 'T63', 'T64', 'T65', 'T66', 'T67', 'T68', 'T69', 'T70', 'T71', 'T72', 'T73', 'T74', 'T75', 'T76', 'T77', 'T78', 'T79', 'T80', 'T81', 'T82', 'T83', 'T84', 'T85', 'T86', 'T87', 'T88', 'T89', 'T90', 'T91', 'T92', 'T93', 'T94', 'T95', 'T96', 'T97', 'T98', 'T99', 'T100'. The truss is labeled with '4x6 =', '12.00/12', '3x8 II



|                                           |               |                          |                                                                                                        |          |                                        |
|-------------------------------------------|---------------|--------------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>T02G | Truss Type<br>MONO TRUSS | Qty<br>1                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |               |                          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 08:09:04 2006 Page 1 |          |                                        |

Scale = 1:30.8

|                                                                        |                                                                                                                    |                                                         |                                                                                                                        |                                                                |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>LOADING (psf)</b><br>TCLL 20.0<br>TCDL 7.0<br>BCLL 10.0<br>BCDL 5.0 | <b>SPACING</b> 2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr NO<br>Code FBC2004/TPI2002 | <b>CSI</b><br>TC 0.40<br>BC 0.38<br>WB 0.08<br>(Matrix) | <b>DEFL</b> in (loc) l/defl L/d<br>Vert(LL) -0.07 2-5 >999 240<br>Vert(TL) -0.11 2-5 >684 180<br>Horz(TL) 0.00 n/a n/a | <b>PLATES</b> MT20<br><b>GRIP</b> 244/190<br><br>Weight: 45 lb |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

|                                                                                                    |                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 8 SYP 2400F 2.0E<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

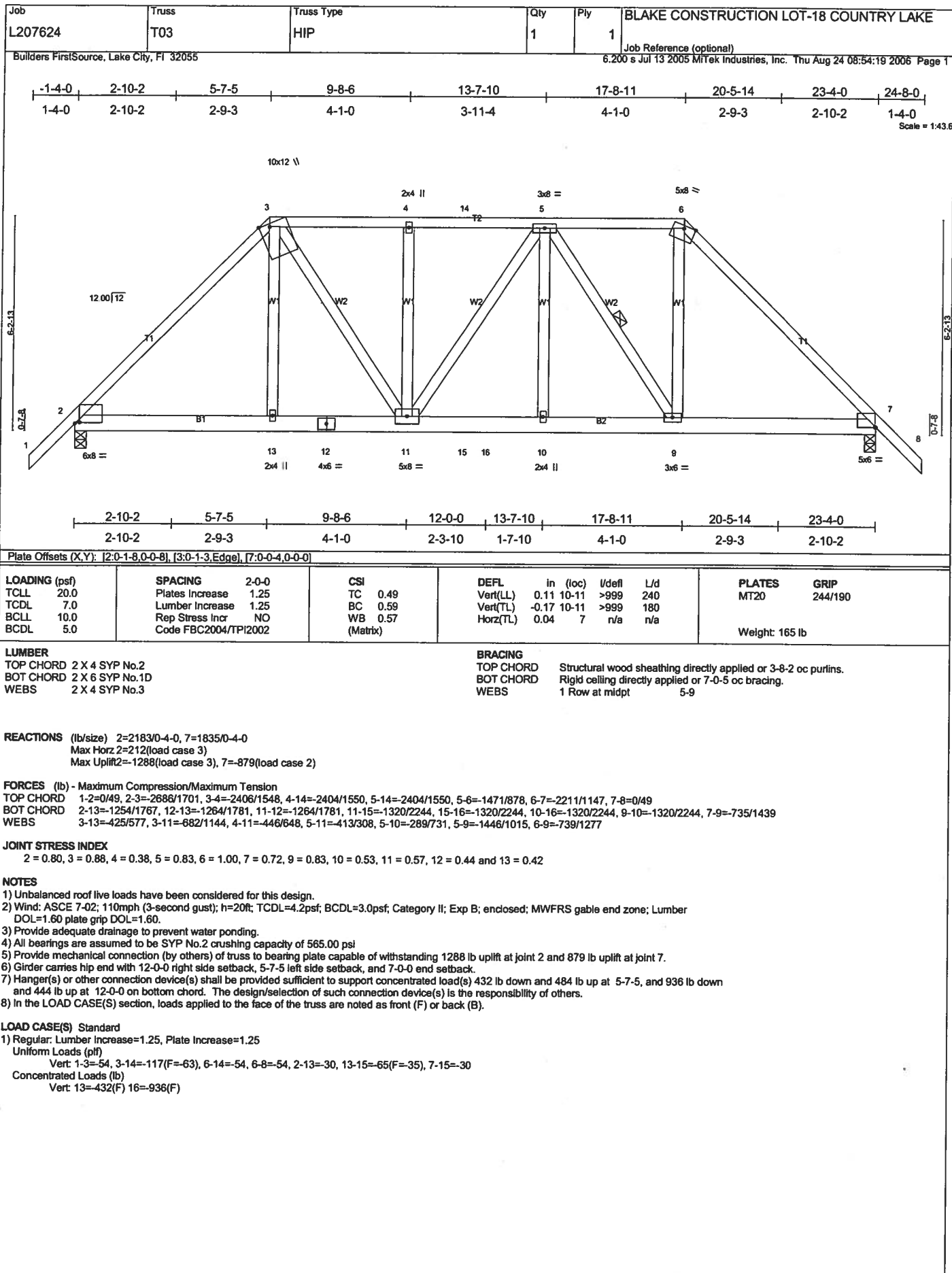
**REACTIONS** (lb/size) 2=1010/0-4-0, 5=936/Mechanical  
Max Horz 2=340(load case 4)  
Max Uplift 2=341(load case 4), 5=470(load case 4)

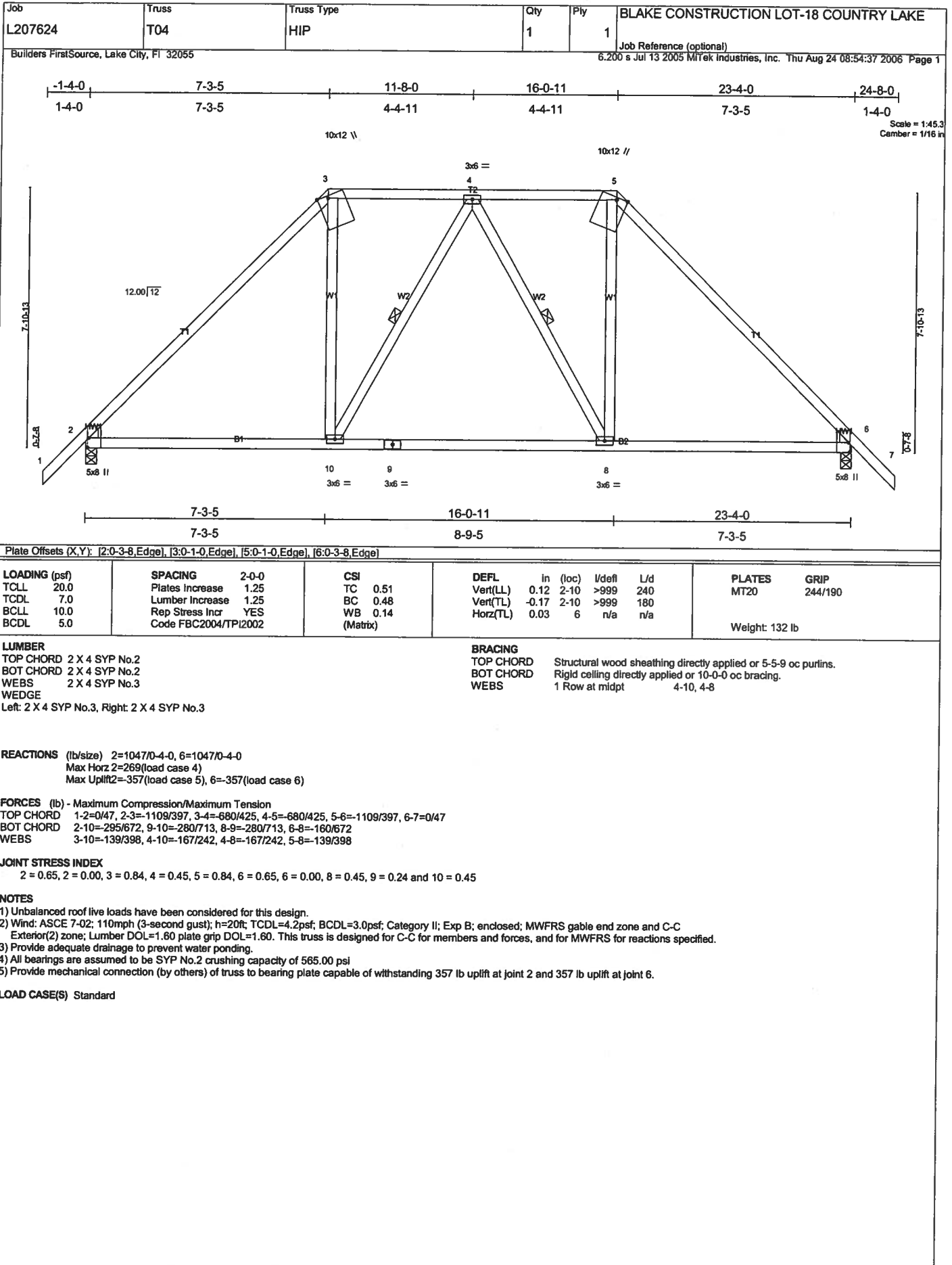
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/51, 2-3=-167/71, 3-4=-15/0  
BOT CHORD 2-5=0/0  
WEBS 3-5=-168/202

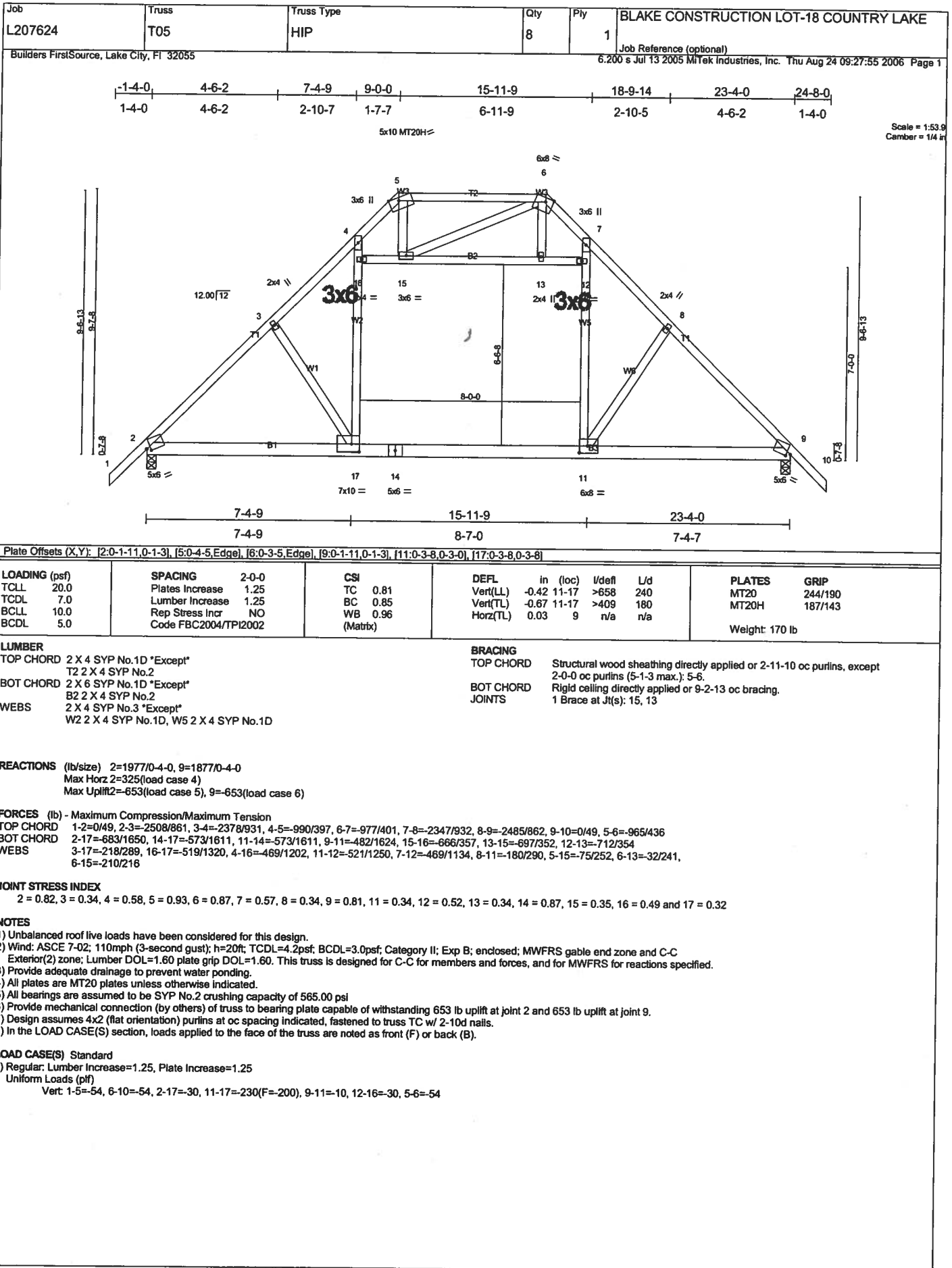
**JOINT STRESS INDEX**  
2 = 0.72, 3 = 0.10 and 5 = 0.07

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 2 and 470 lb uplift at joint 5.  
5) Girder carries tie-in span(s): 12-0-0 from 0-0-0 to 7-0-0  
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 2-5=-234(F=204)







|                                           |              |                        |          |          |                                        |
|-------------------------------------------|--------------|------------------------|----------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>T06 | Truss Type<br>MONO HIP | Qty<br>4 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |              |                        |          |          | Job Reference (optional)               |

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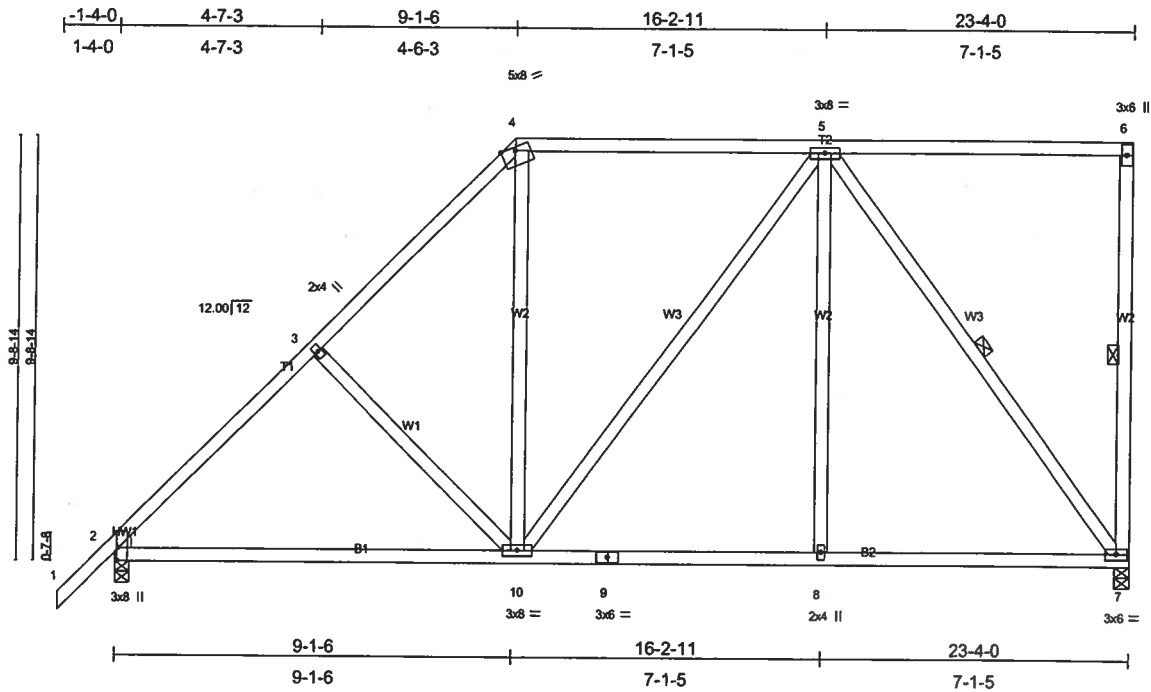


Plate Offsets (X,Y): [2:0-3-8,Edge]

|                      |                      |              |            |                |           |              |               |            |                |             |
|----------------------|----------------------|--------------|------------|----------------|-----------|--------------|---------------|------------|----------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>2-0-0</b> | <b>CSI</b> | <b>DEFL</b>    | <b>In</b> | <b>(loc)</b> | <b>l/defl</b> | <b>L/d</b> | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | Plates Increase 1.25 |              | TC 0.39    | Vert(LL) -0.16 | 2-10      | >999         | 240           |            | MT20           | 244/190     |
| TCDL 7.0             | Lumber Increase 1.25 |              | BC 0.46    | Vert(TL) -0.27 | 2-10      | >999         | 180           |            |                |             |
| BCLL 10.0            | Rep Stress Incr YES  |              | WB 0.55    | Horz(TL) 0.02  | 7         | n/a          | n/a           |            |                |             |
| BCDL 5.0             | Code FBC2004/TP12002 |              | (Matrix)   |                |           |              |               |            |                |             |
|                      |                      |              |            |                |           |              |               |            | Weight: 163 lb |             |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 WEDGE  
 Left: 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 8-10-6 oc bracing.  
 WEBS 1 Row at midpt 6-7, 5-7  
 JOINTS 1 Brace at Jt(s): 6

**REACTIONS** (lb/size) 7=964/0-4-0, 2=1051/0-4-0  
 Max Horz 2=504(load case 5)  
 Max Uplift 7=380(load case 4), 2=304(load case 5)

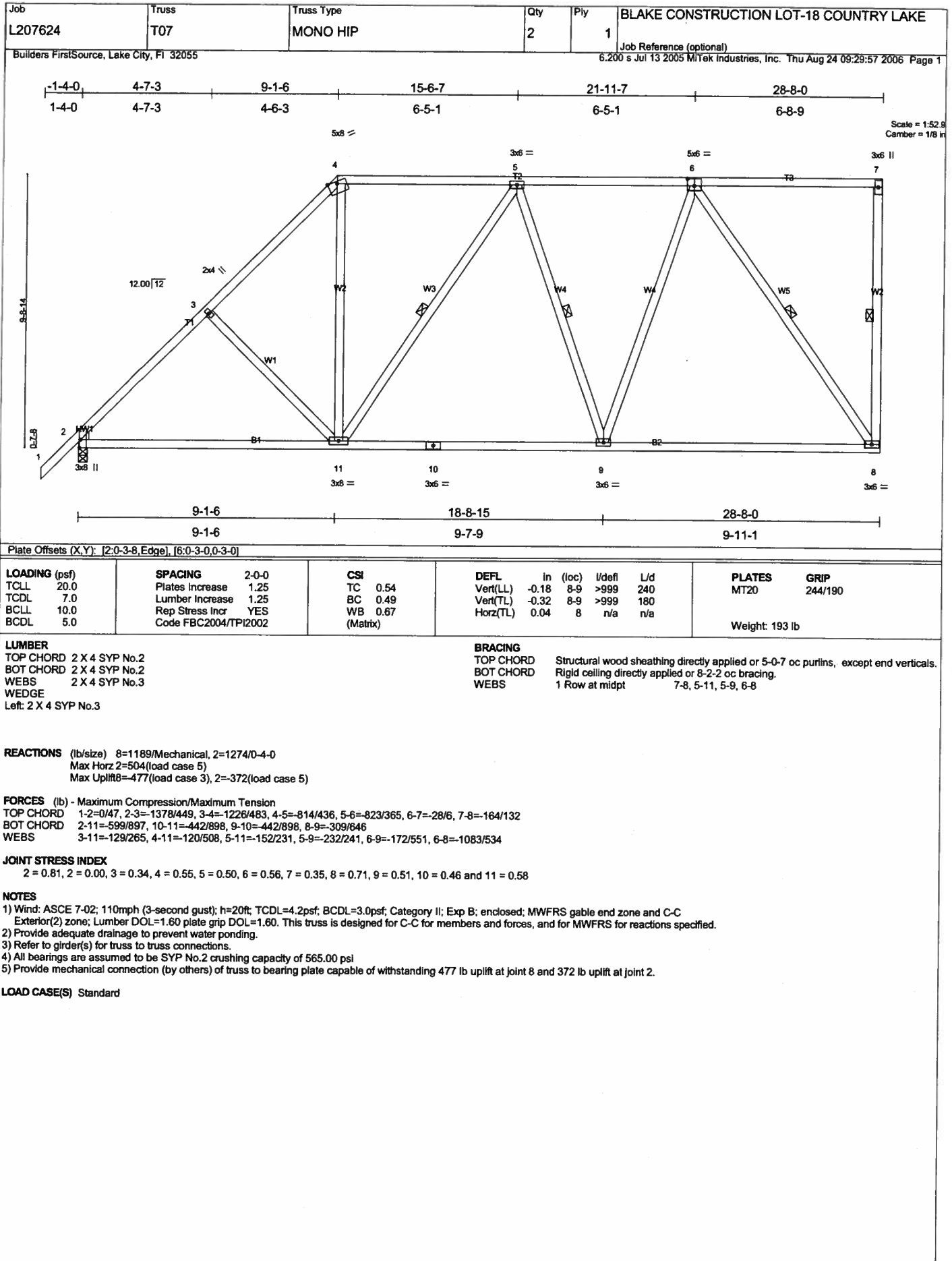
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=-1071/313, 3-4=-919/347, 4-5=-596/339, 5-6=-20/8, 6-7=-165/134  
 BOT CHORD 2-10=-508/692, 9-10=-265/535, 8-9=-265/535, 7-8=-265/535  
 WEBS 3-10=-143/269, 4-10=-19/281, 5-10=-161/116, 5-8=0/200, 5-7=-867/433

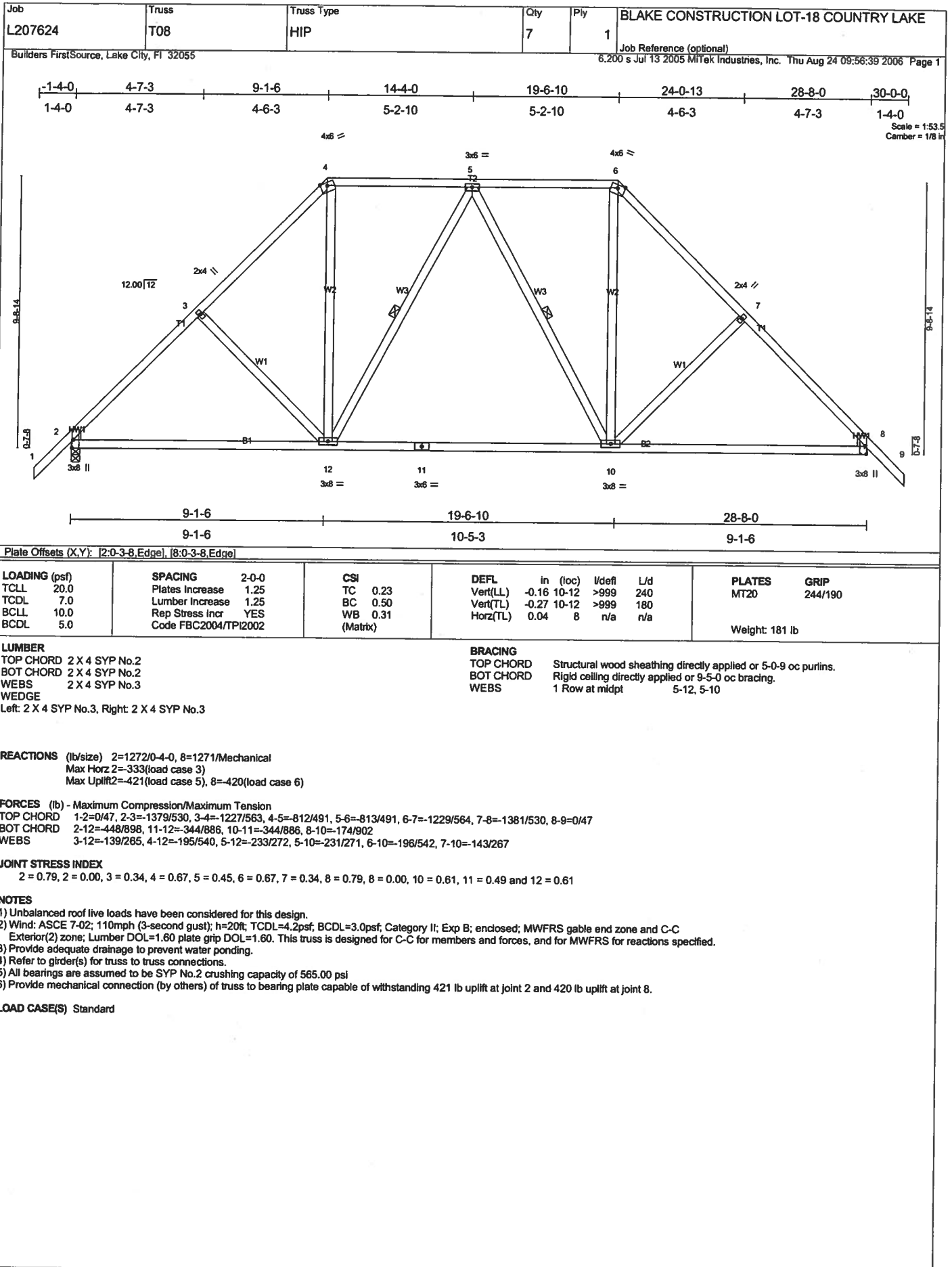
**JOINT STRESS INDEX**  
 2 = 0.77, 2 = 0.00, 3 = 0.34, 4 = 0.56, 5 = 0.58, 6 = 0.31, 7 = 0.43, 8 = 0.34, 9 = 0.21 and 10 = 0.58

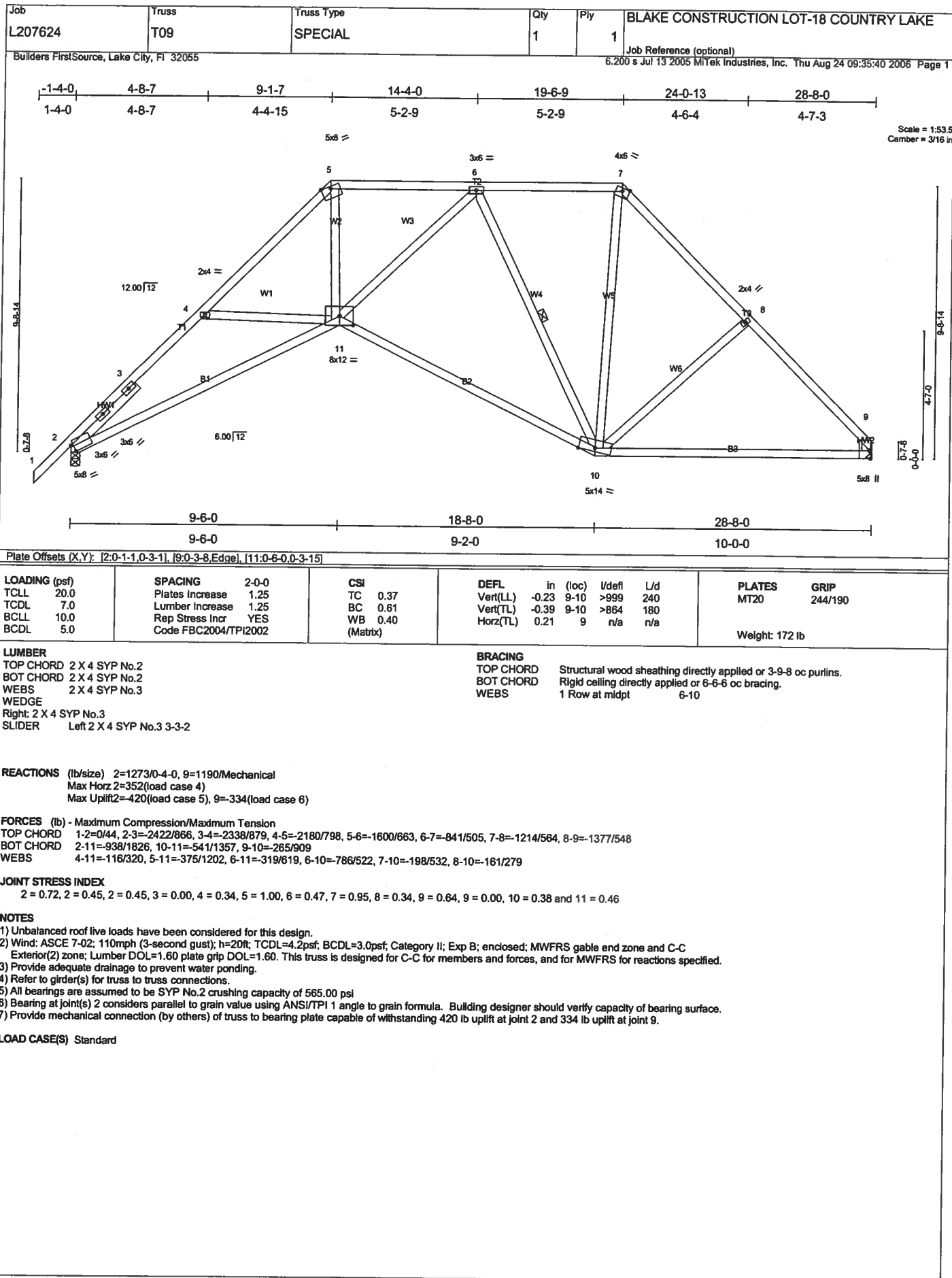
**NOTES**

- 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 7 and 304 lb uplift at joint 2.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

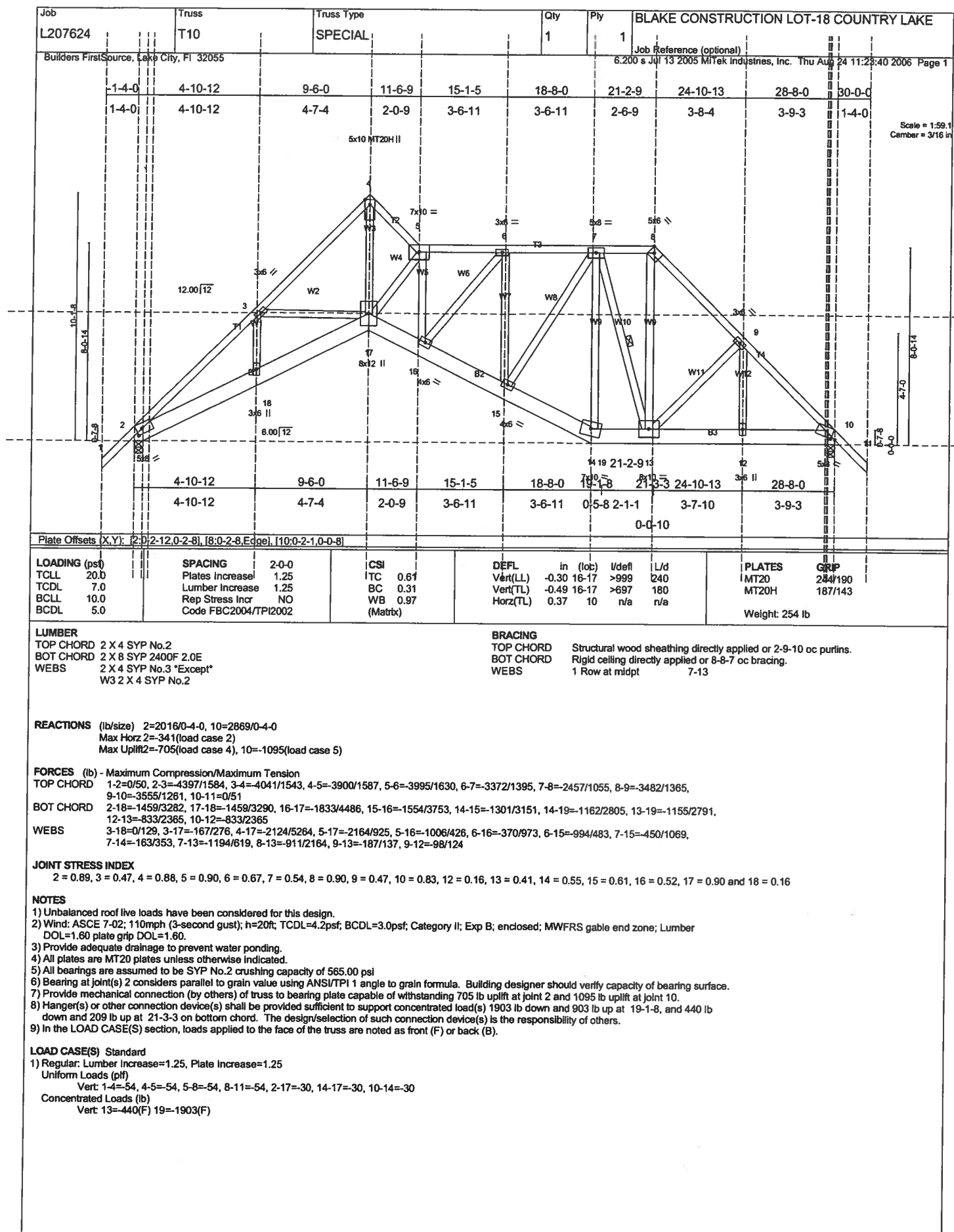


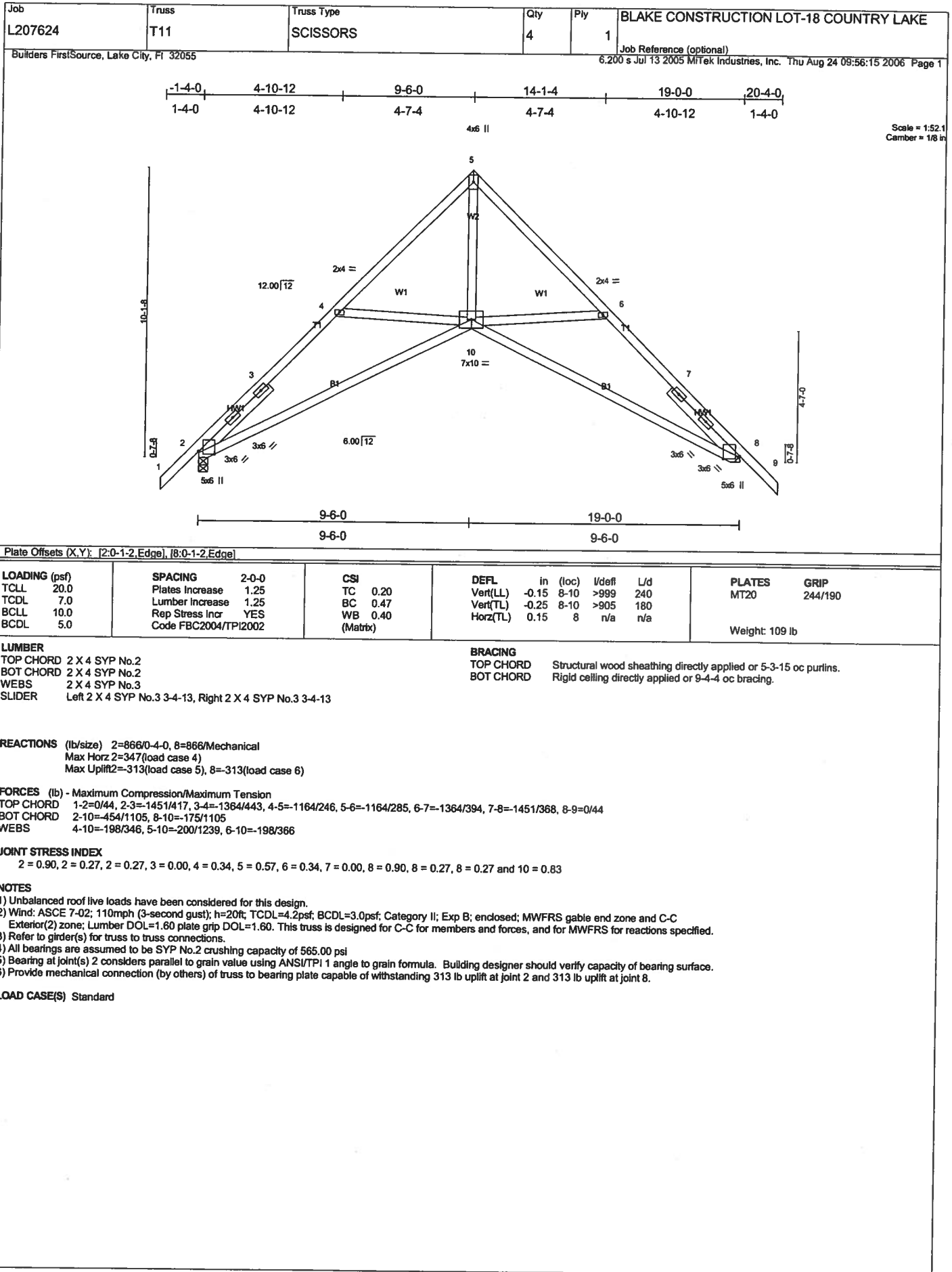




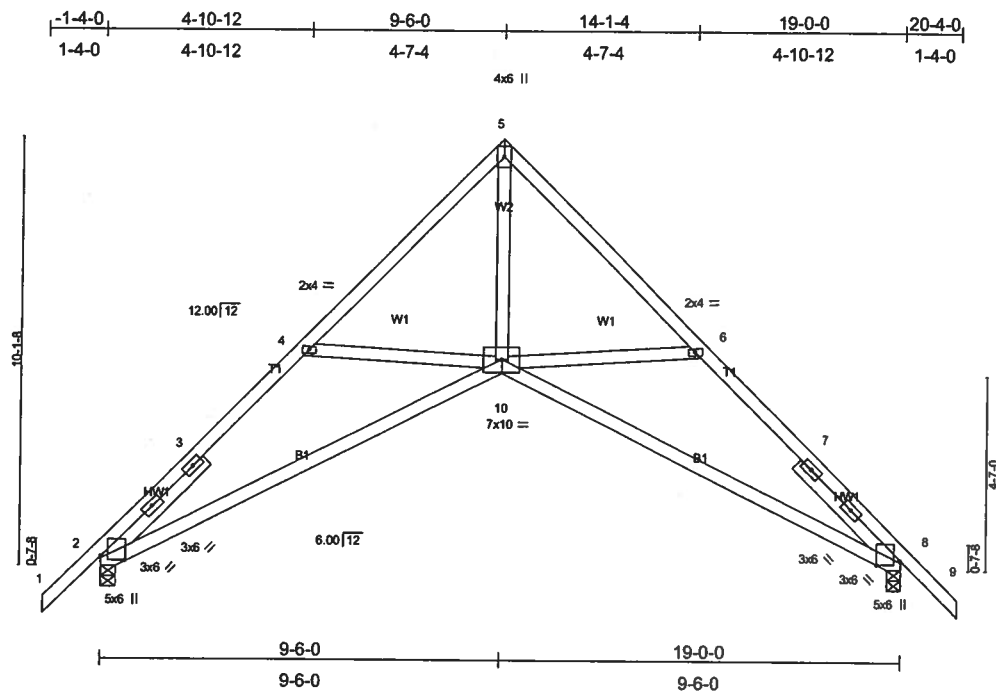
AUGUST 29, 2006 TRUSS DESIGN ENGINEER:  
 THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
 16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549







|                                           |              |                       |                                                                                                        |          |                                        |
|-------------------------------------------|--------------|-----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>T12 | Truss Type<br>SCISSOR | Qty<br>2                                                                                               | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |              |                       | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 09:36:46 2006 Page 1 |          |                                        |



Scale = 1:52.1  
Camber = 1/8 in

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

|                      |                      |            |                              |                |             |
|----------------------|----------------------|------------|------------------------------|----------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                  | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.20    | in (loc) l/def L/d           | MT20           | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.47    | Vert(LL) -0.15 2-10 >999 240 |                |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.40    | Vert(TL) -0.25 2-10 >905 180 |                |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.15 8 n/a n/a      |                |             |
|                      | Code FBC2004/TP12002 |            |                              | Weight: 109 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  
SLIDER Left 2 X 4 SYP No.3 3-4-13, Right 2 X 4 SYP No.3 3-4-13

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-4-4 oc bracing.

#### REACTIONS (lb/size)

2=866/0-4-0, 8=866/0-4-0  
Max Horz 2=-347(load case 3)  
Max Uplift 2=-313(load case 5), 8=-313(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/44, 2-3=-1452/417, 3-4=-1365/443, 4-5=-1164/246, 5-6=-1164/285, 6-7=-1365/394, 7-8=-1452/368, 8-9=0/44  
BOT CHORD 2-10=-454/1106, 8-10=-175/1106  
WEBS 4-10=-199/346, 5-10=-200/1240, 6-10=-199/366

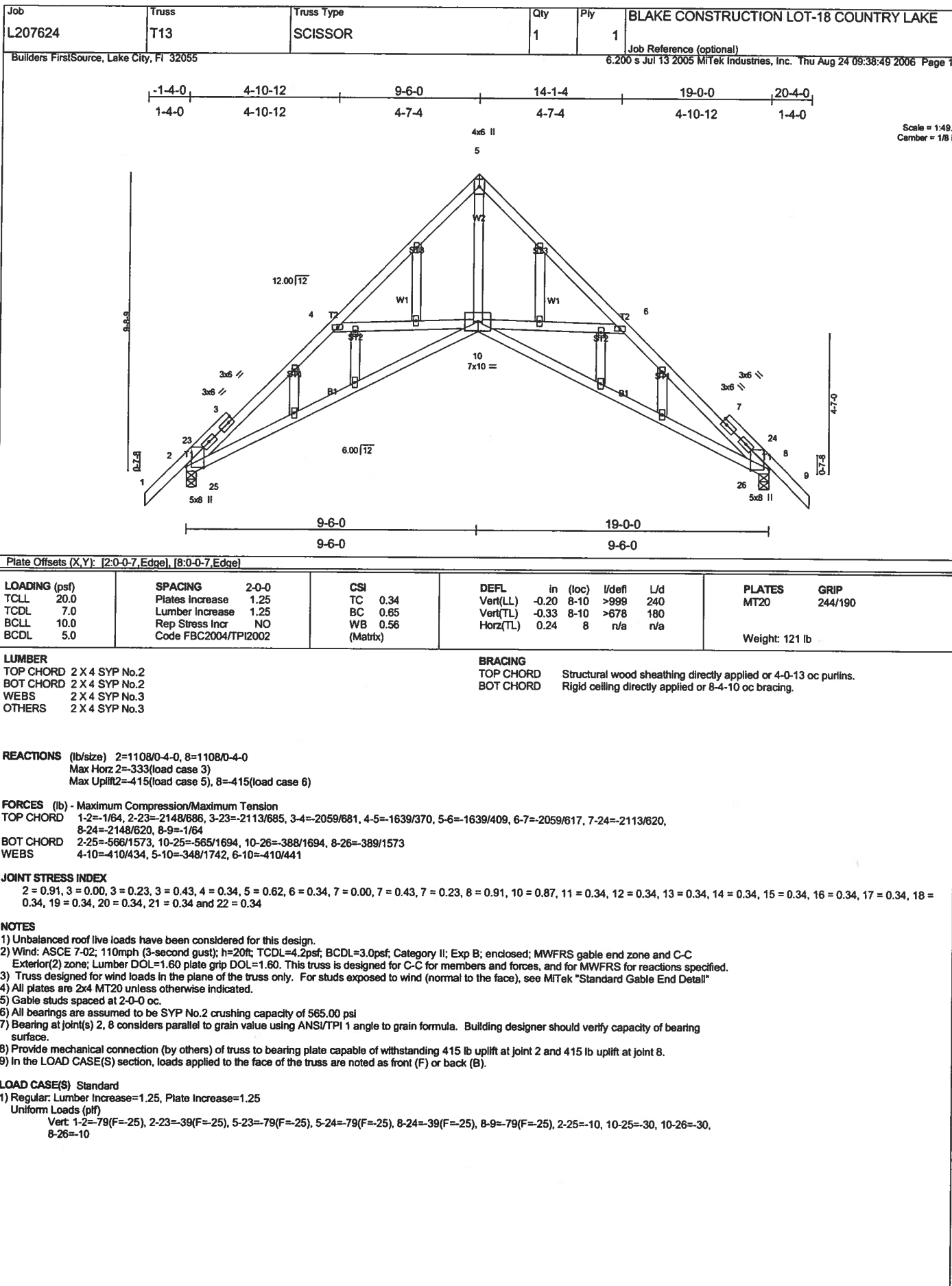
#### JOINT STRESS INDEX

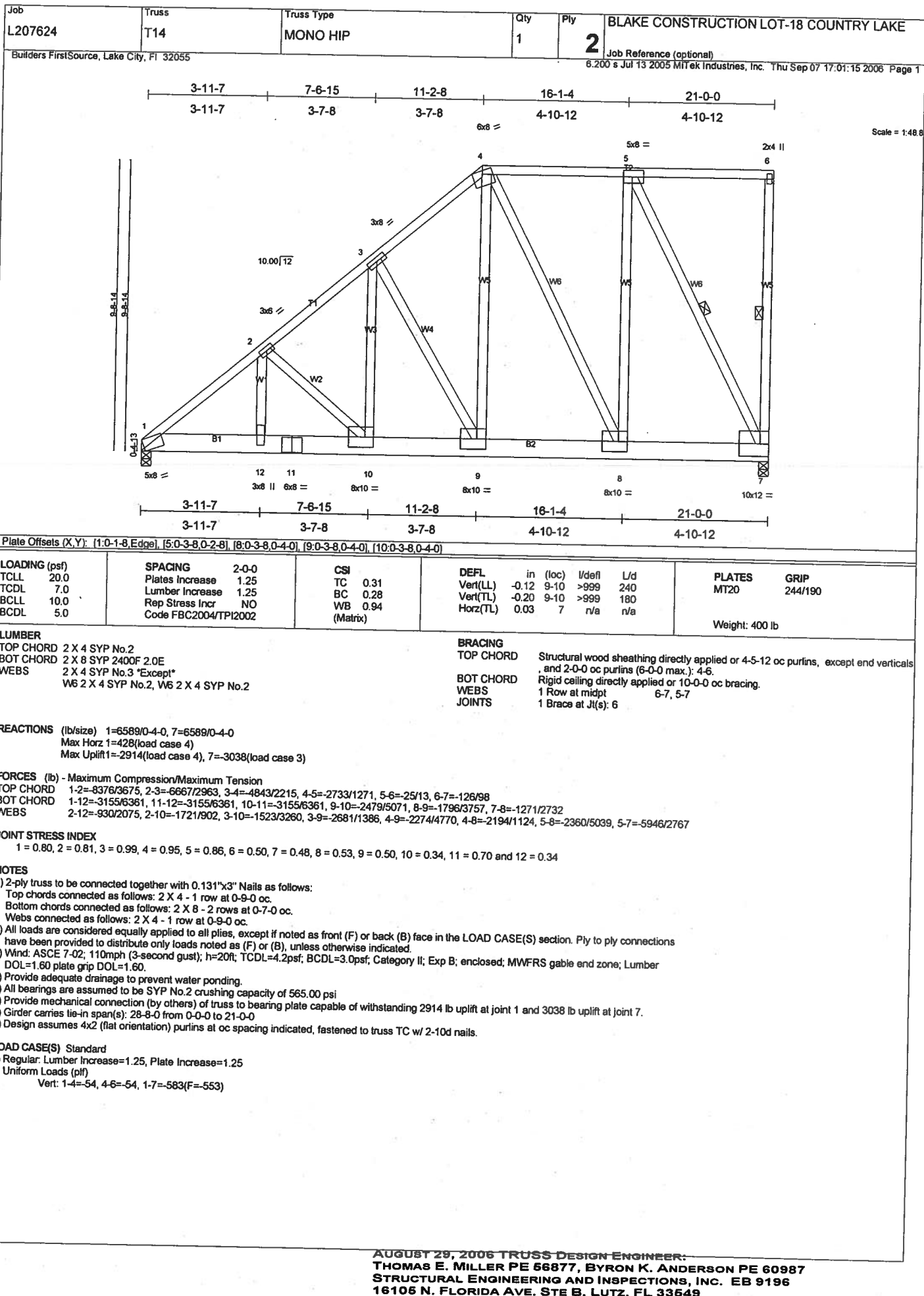
2 = 0.91, 2 = 0.27, 2 = 0.27, 3 = 0.00, 4 = 0.34, 5 = 0.57, 6 = 0.34, 7 = 0.00, 8 = 0.91, 8 = 0.27, 8 = 0.27 and 10 = 0.83

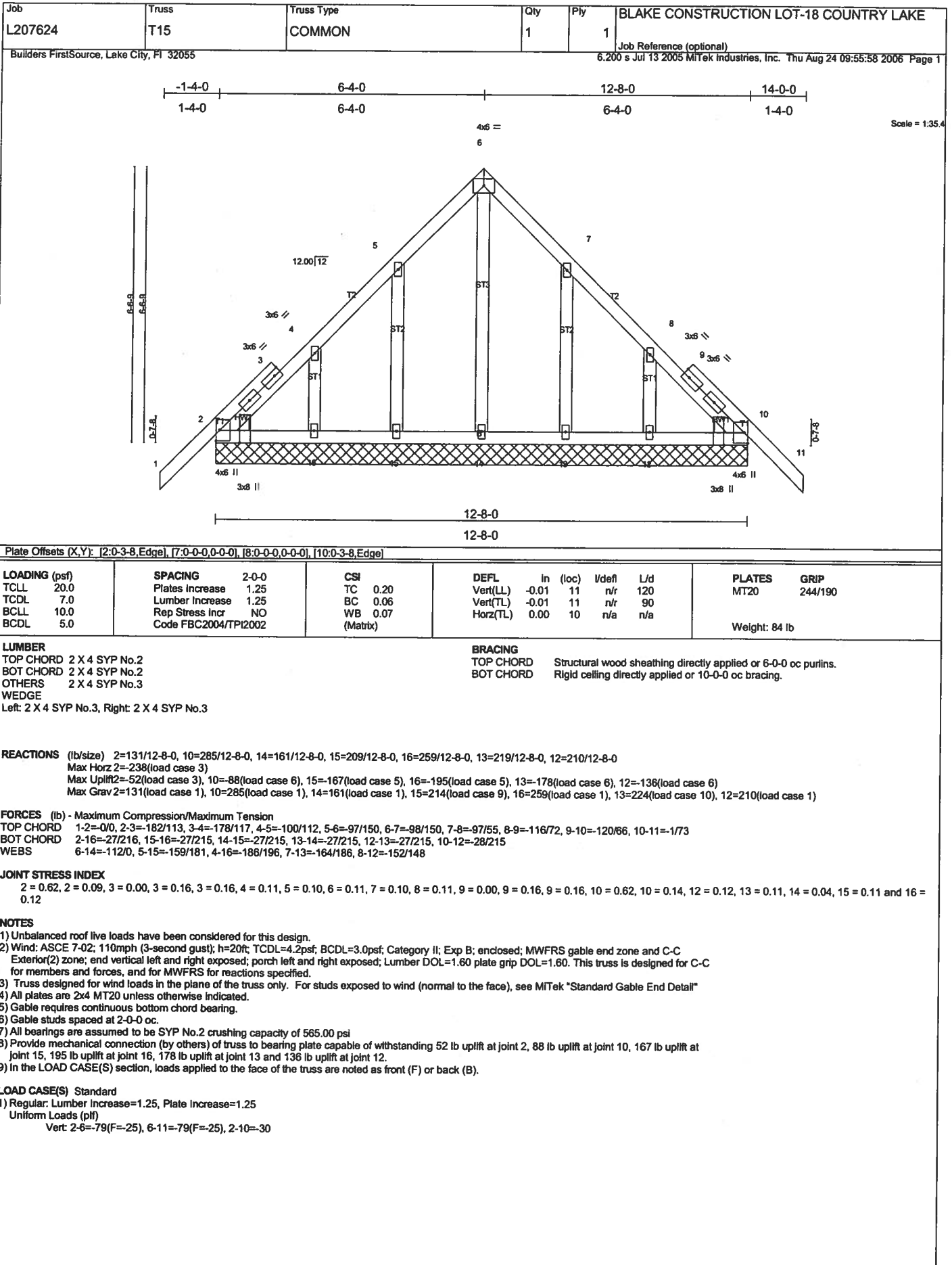
#### NOTES

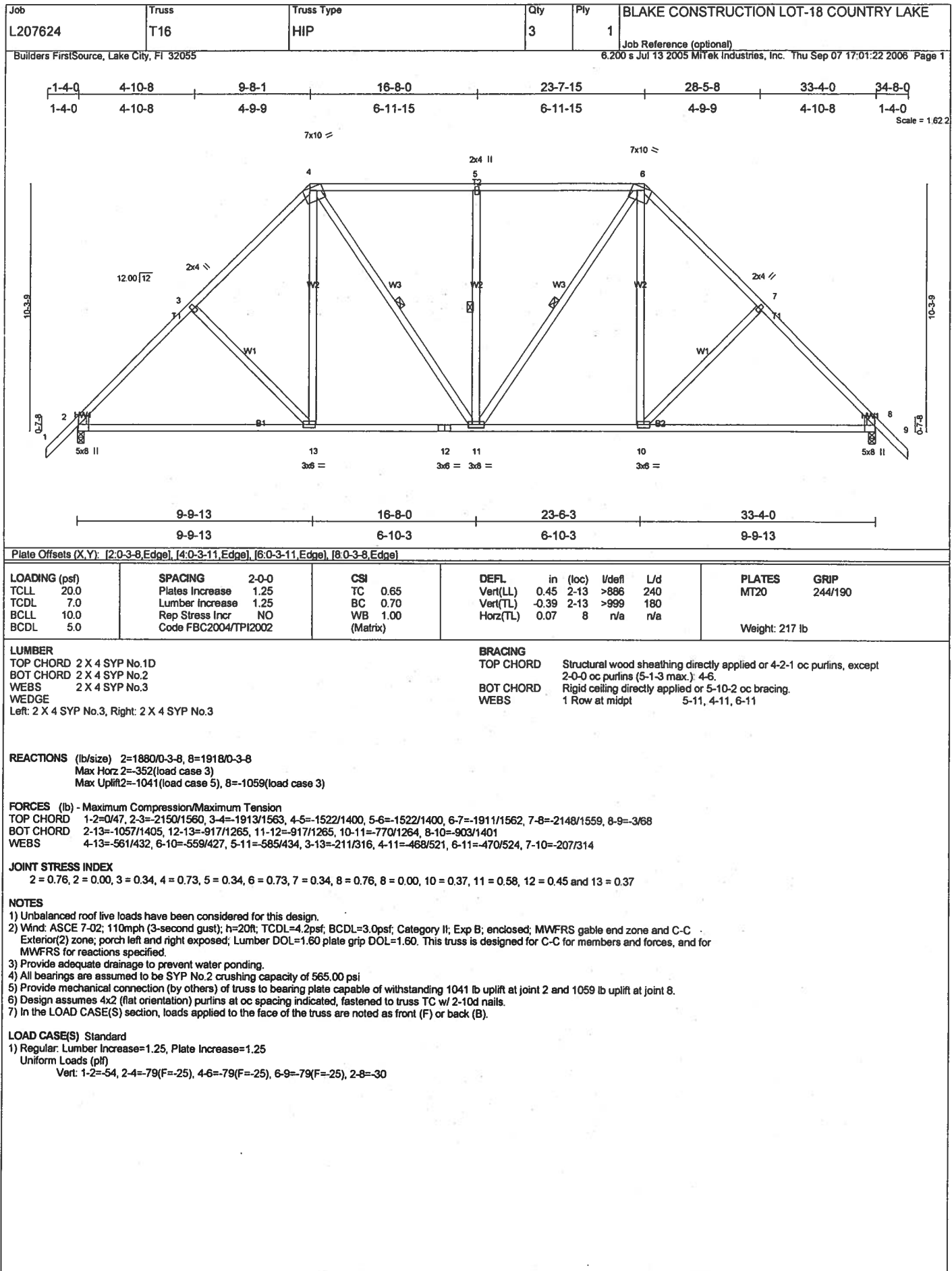
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 2, 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 313 lb uplift at joint 2 and 313 lb uplift at joint 8.

LOAD CASE(S) Standard









**Job** L207624      **Truss Type** T16G      **HIP**      **Qty** 1      **Ply** 1      **BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE**

**Builders FirstSource, Lake City, FL 32055**      **Job Reference (optional)** 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Aug 24 11:30:59 2006 Page 1

| LOADING (psf) | SPACING              | CSI      | DEFL           | in (loc) | I/defl | L/d | PLATES | GRIP    |
|---------------|----------------------|----------|----------------|----------|--------|-----|--------|---------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.72  | Vert(LL) 0.45  | 2-15     | >875   | 240 | MT20   | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.77  | Vert(TL) -0.42 | 2-15     | >945   | 180 |        |         |
| BCLL 10.0     | Rep Stress Incr NO   | WB 0.38  | Horz(TL) 0.08  | 10       | n/a    | n/a |        |         |
| BCDL 5.0      | Code FBC2004/TPI2002 | (Matrix) |                |          |        |     |        |         |

**Weight: 351 lb**

**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied or 3-4-2 oc purtins.  
**BOT CHORD** Rigid ceiling directly applied or 5-7-4 oc bracing.  
**WEBS** 1 Row at midpt 5-15, 6-15, 6-12, 7-12

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"  
 4) Provide adequate drainage to prevent water ponding.  
 5) All plates are 2x4 MT20 unless otherwise indicated.  
 6) Gable studs spaced at 2'-0" o.c.  
 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi  
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1048 lb uplift at joint 2 and 1066 lb uplift at joint 10.  
 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert 1-2=-54, 2-5=-79(F=-25), 5-7=-79(F=-25), 7-11=-79(F=-25), 2-10=-30



|                                           |              |                   |          |          |                                                                                                         |
|-------------------------------------------|--------------|-------------------|----------|----------|---------------------------------------------------------------------------------------------------------|
| Job<br>L207624                            | Truss<br>T17 | Truss Type<br>HIP | Qty<br>1 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE                                                                  |
| Builders FirstSource, Lake City, FL 32055 |              |                   |          |          | Job Reference (optional)<br>6.200 s Jul 13 2005 Mittek Industries, Inc. Thu Aug 24 11:30:45 2006 Page 1 |

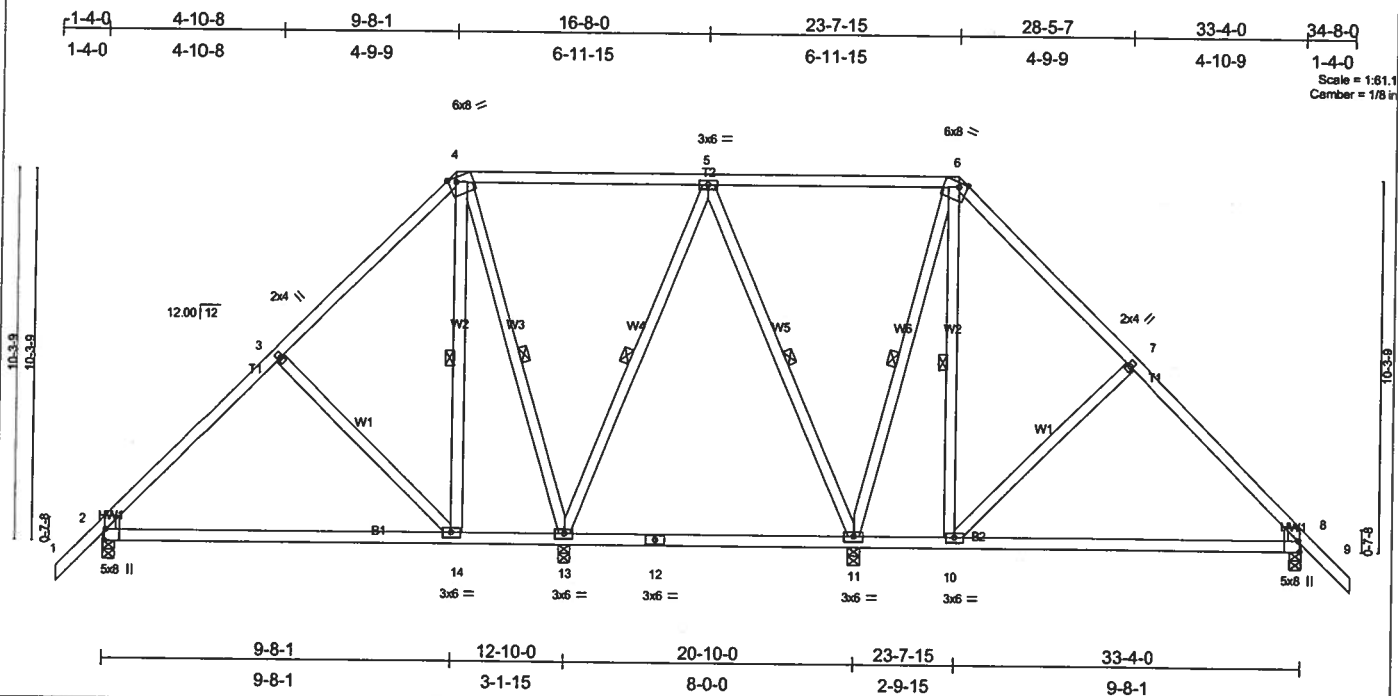


Plate Offsets (X,Y): [2:0-3-8,Edge], [4:0-2-11,Edge], [6:0-2-11,Edge], [8:0-3-8,Edge]

|                      |                      |            |                              |                |             |
|----------------------|----------------------|------------|------------------------------|----------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                  | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.46    | in (loc) l/defl L/d          | MT20           | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.44    | Vert(LL) 0.41 2-14 >370 240  |                |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.29    | Vert(TL) -0.34 2-14 >443 180 |                |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.01 8 n/a n/a      |                |             |
|                      | Code FBC2004/TPI2002 |            |                              | Weight: 229 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  
 WEDGE  
 Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.); 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-14, 4-13, 5-13, 5-11, 6-11, 6-10

**REACTIONS** (lb/size) 2=589/0-4-0, 13=892/0-4-0, 11=880/0-4-0, 8=574/0-4-0  
 Max Horz 2=352(load case 4)  
 Max Uplift 2=388(load case 5), 13=603(load case 4), 11=502(load case 3), 8=425(load case 6)  
 Max Grav 2=597(load case 9), 13=901(load case 9), 11=889(load case 10), 8=583(load case 10)

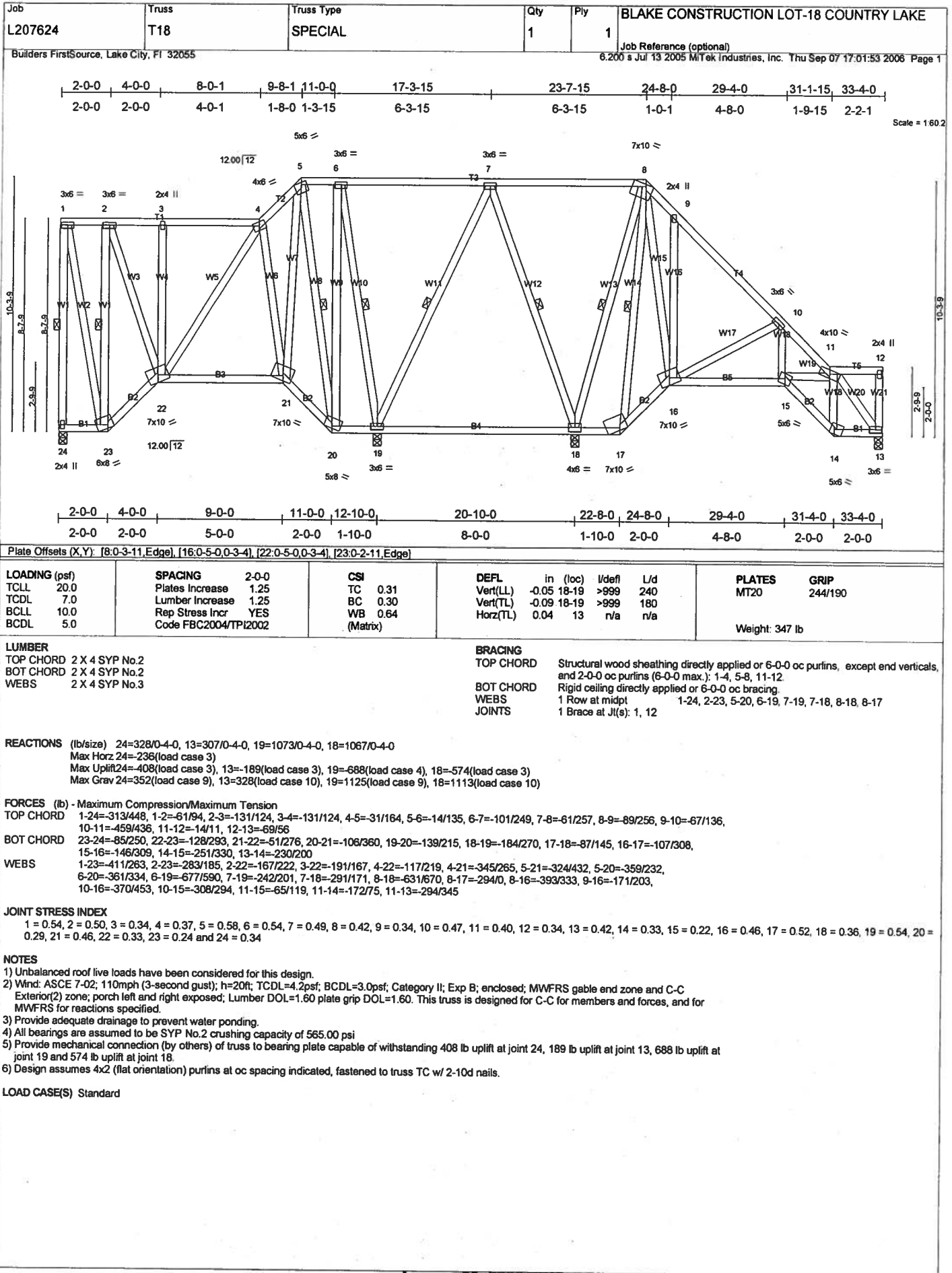
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=444/350, 3-4=284/388, 4-5=0/207, 5-6=0/208, 6-7=265/372, 7-8=426/334, 8-9=0/47  
 BOT CHORD 2-14=336/273, 13-14=194/239, 12-13=110/291, 11-12=110/291, 10-11=98/213, 8-10=65/260  
 WEBS 3-14=194/319, 4-14=575/380, 4-13=567/549, 5-13=249/207, 5-11=232/195, 6-11=574/565, 6-10=584/358, 7-10=194/317

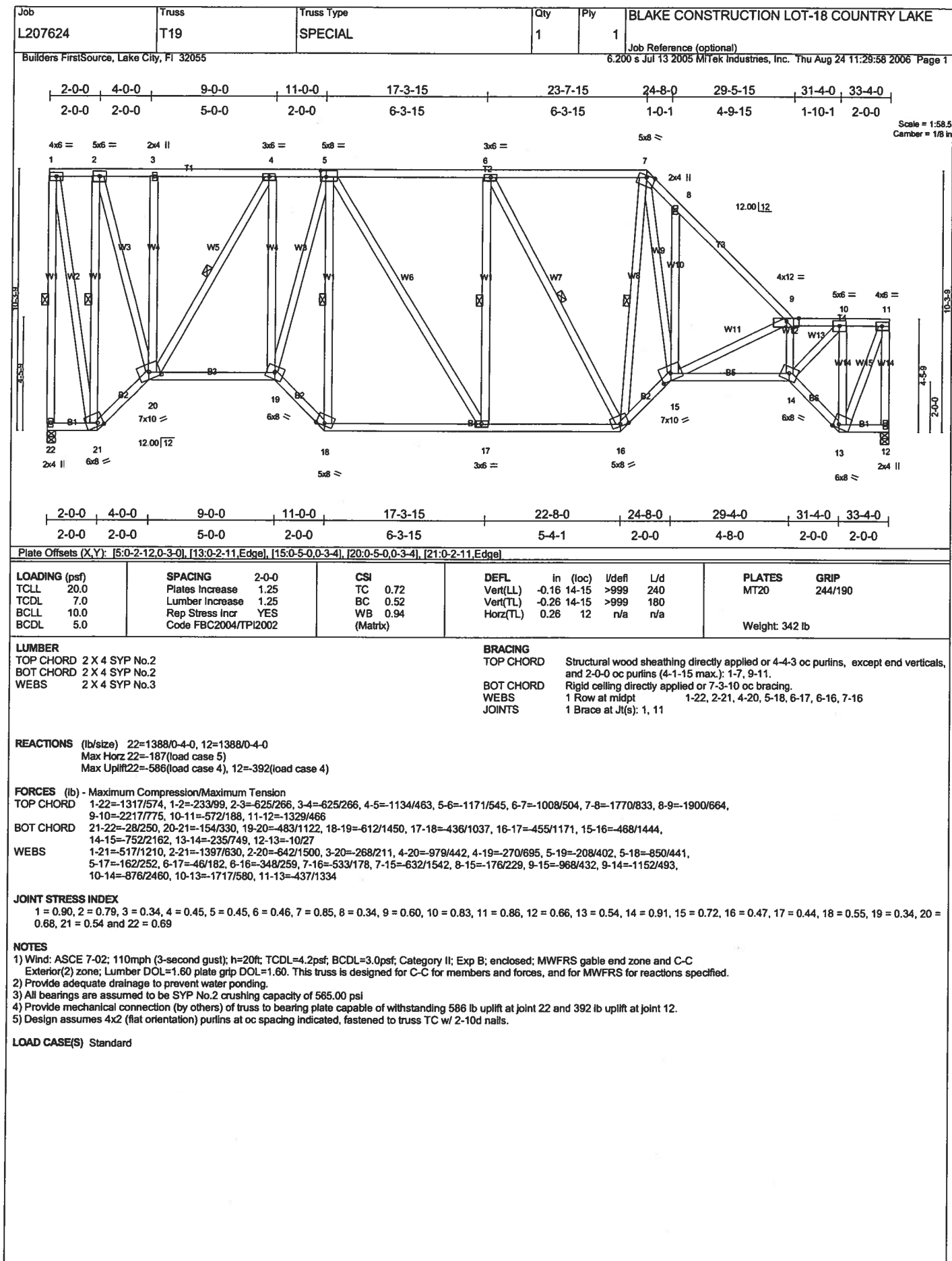
**JOINT STRESS INDEX**  
 2 = 0.59, 2 = 0.00, 3 = 0.34, 4 = 0.49, 5 = 0.49, 6 = 0.50, 7 = 0.34, 8 = 0.59, 8 = 0.00, 10 = 0.37, 11 = 0.52, 12 = 0.32, 13 = 0.51 and 14 = 0.37

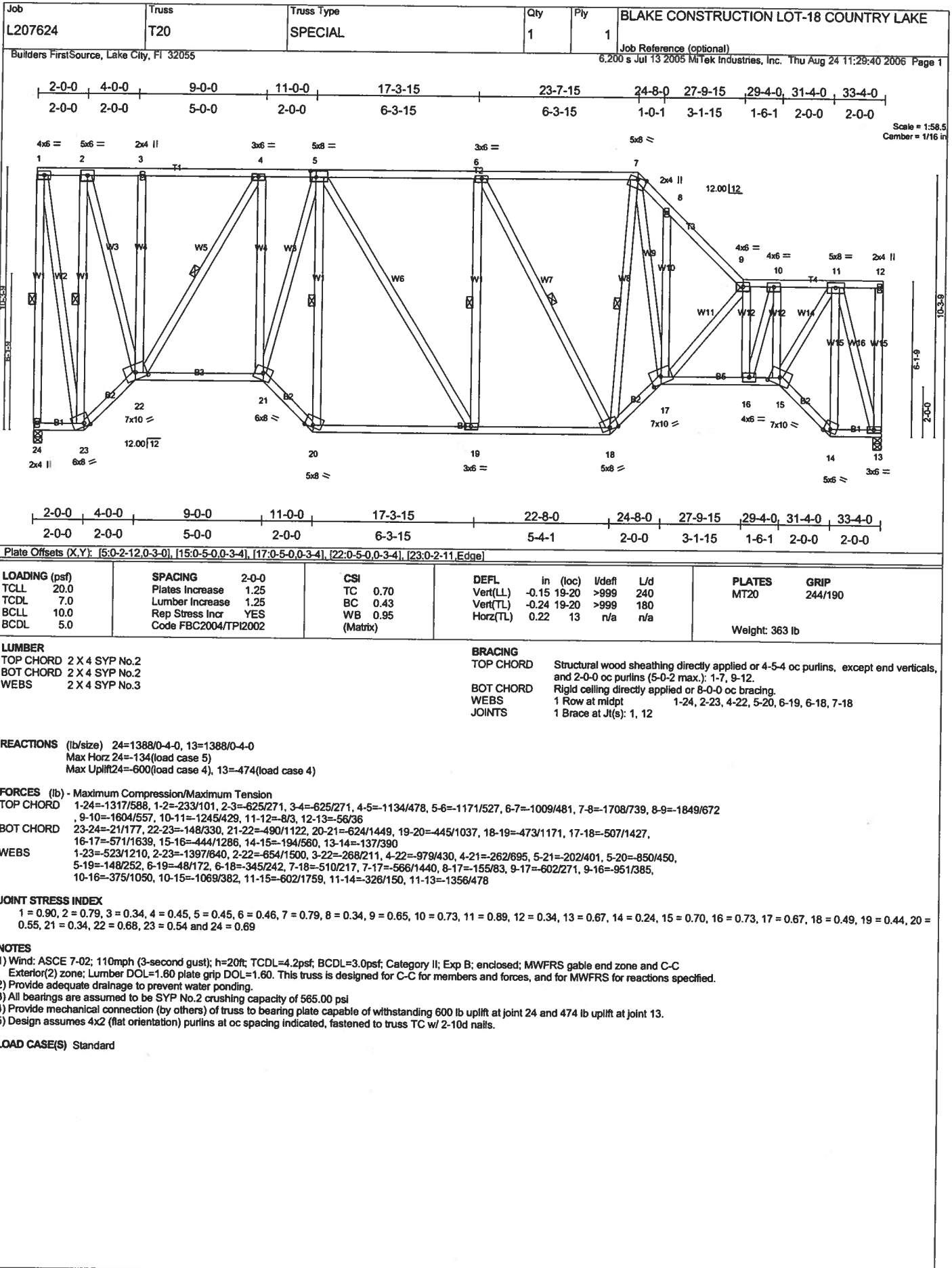
#### NOTES

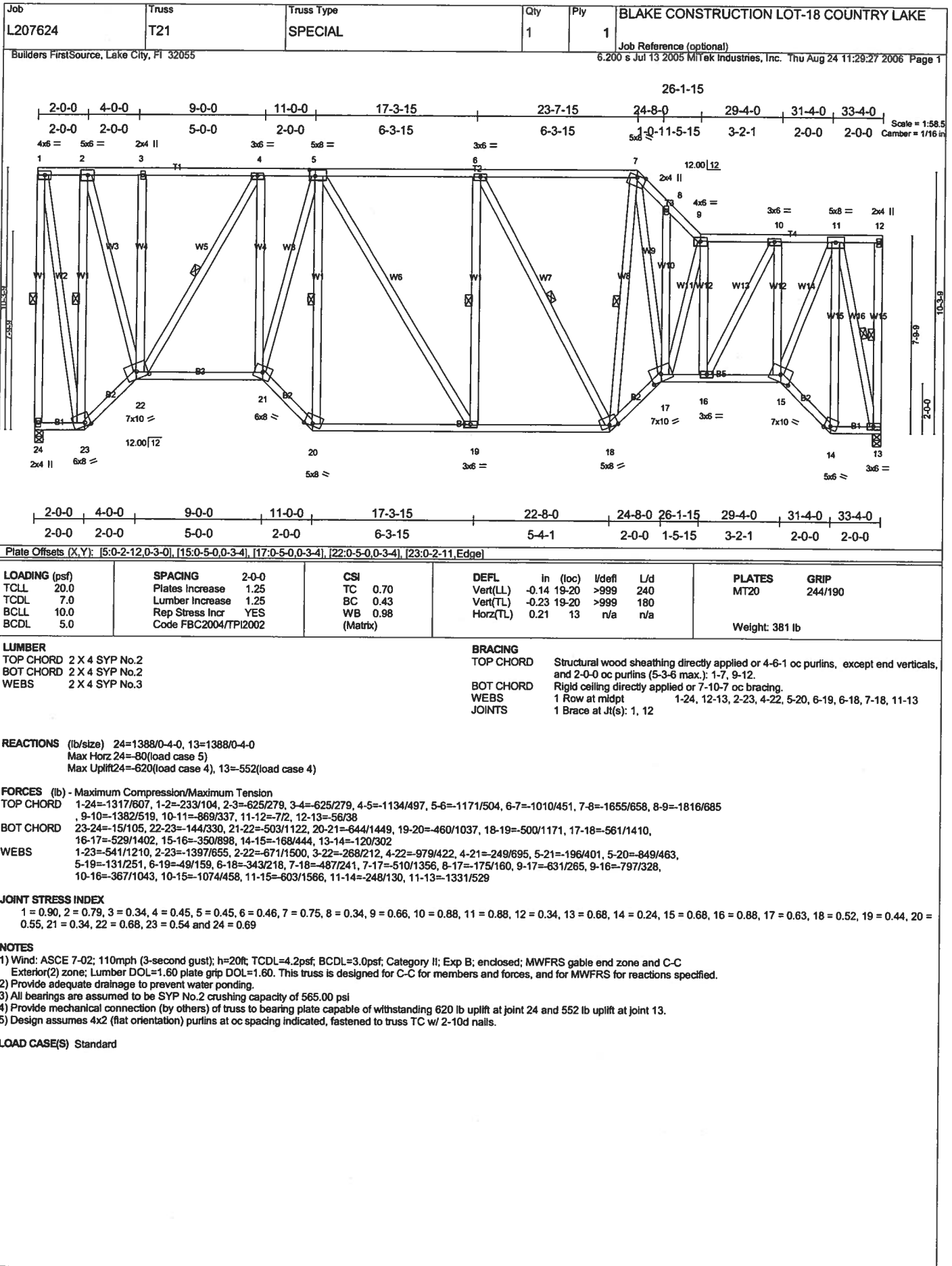
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 2, 603 lb uplift at joint 13, 502 lb uplift at joint 11 and 425 lb uplift at joint 8.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

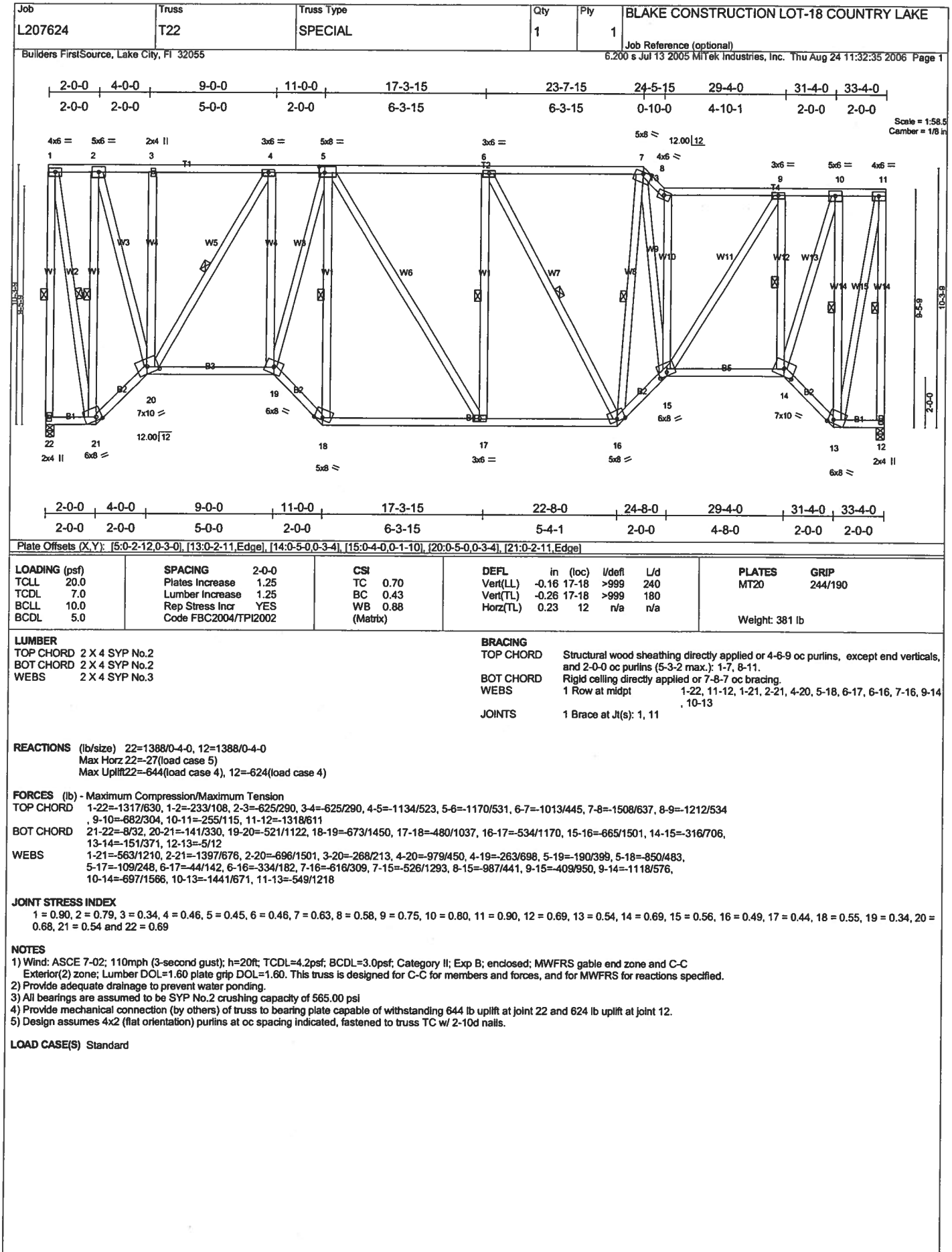
**LOAD CASE(S)** Standard







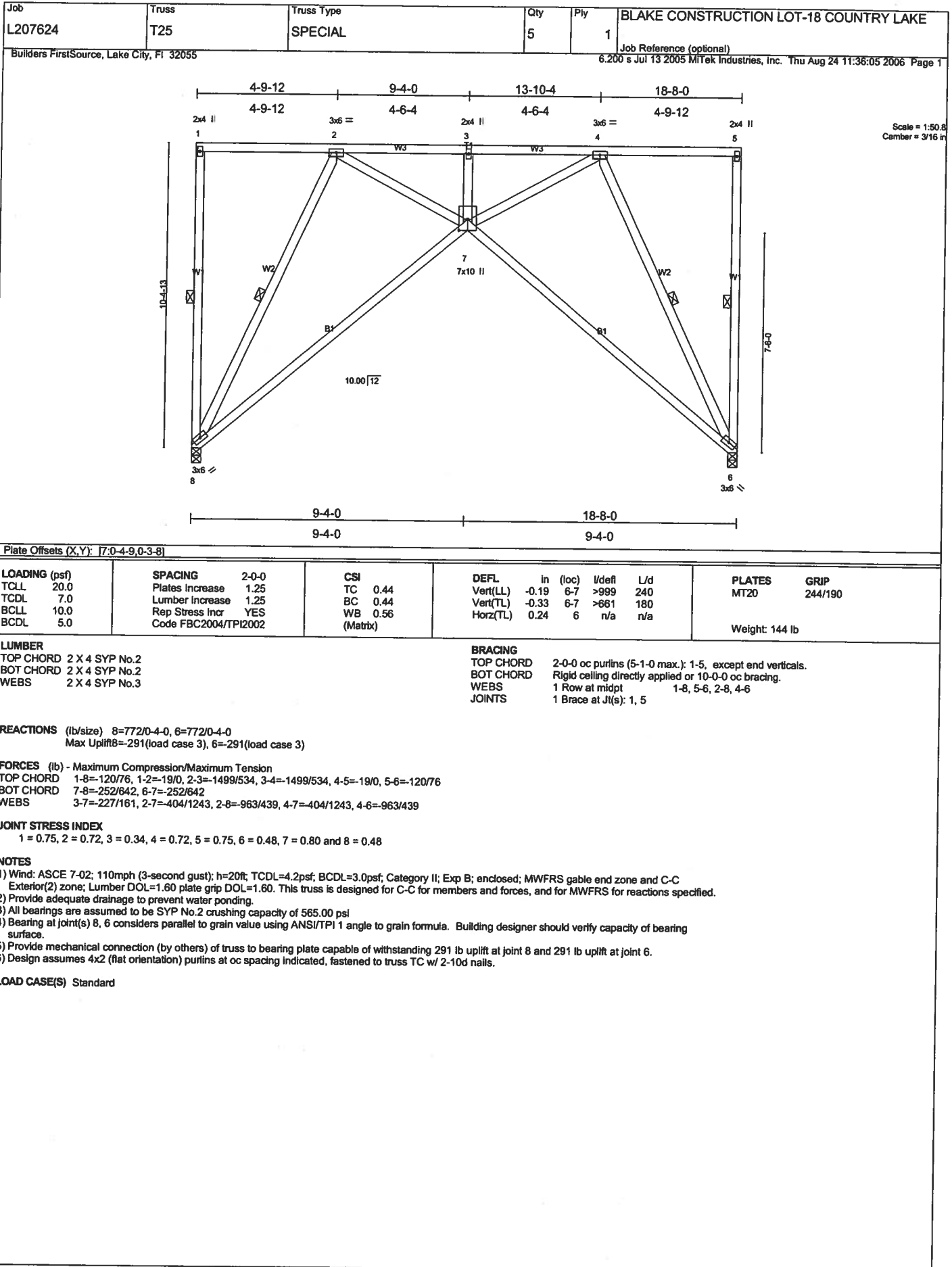




**AUGUST 29, 2006 TRUSS DESIGN ENGINEER:  
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**







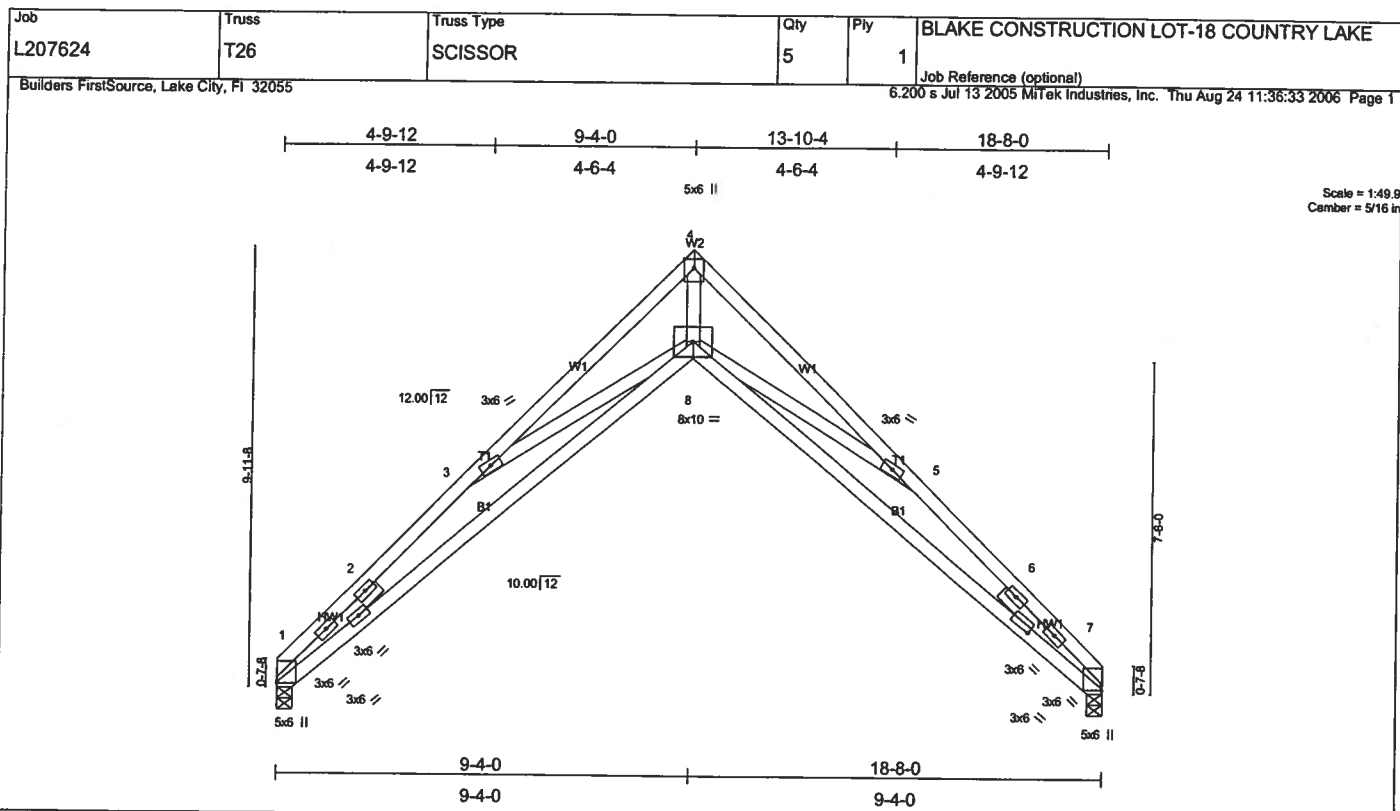


Plate Offsets (X,Y): [7-2-0-7,0-2-8]

| LOADING (psf)  | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES | GRIP    |
|----------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------|
| TCLL 20.0      | Plates Increase      | 1.25  | TC 0.50  | Vert(LL) | -0.39 | 1-8   | >564   | 240 | MT20   | 244/190 |
| TCDL 7.0       | Lumber Increase      | 1.25  | BC 0.68  | Vert(TL) | -0.63 | 1-8   | >348   | 180 |        |         |
| BCLL 10.0      | Rep Stress Incr      | YES   | WB 0.61  | Horz(TL) | 1.09  | 7     | n/a    | n/a |        |         |
| BCDL 5.0       | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |        |         |
| Weight: 106 lb |                      |       |          |          |       |       |        |     |        |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W2 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 3-1-14, Right 2 X 4 SYP No.3 3-1-14

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-3-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 5-10-4 oc bracing.

**REACTIONS**

(lb/size) 1=768/0-4-0, 7=768/0-4-0  
 Max Horz 1=336(load case 4)  
 Max Uplift 1=-230(load case 6), 7=-230(load case 5)

**FORCES (lb) - Maximum Compression/Maximum Tension**

TOP CHORD 1-2=-2787/1020, 2-3=-2709/1034, 3-4=-2664/503, 4-5=-2664/609, 5-6=-2709/751, 6-7=-2787/737  
 BOT CHORD 1-8=-1144/2433, 7-8=-538/2433  
 WEBS 3-8=-132/814, 4-8=-724/3326, 5-8=-405/1000

**JOINT STRESS INDEX**

1 = 0.85, 1 = 0.51, 1 = 0.51, 1 = 0.42, 2 = 0.00, 3 = 0.27, 4 = 0.73, 5 = 0.27, 6 = 0.00, 7 = 0.67, 7 = 0.51, 7 = 0.51, 7 = 0.42 and 8 = 0.83

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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 230 lb uplift at joint 1 and 230 lb uplift at joint 7.

**LOAD CASE(S)** Standard

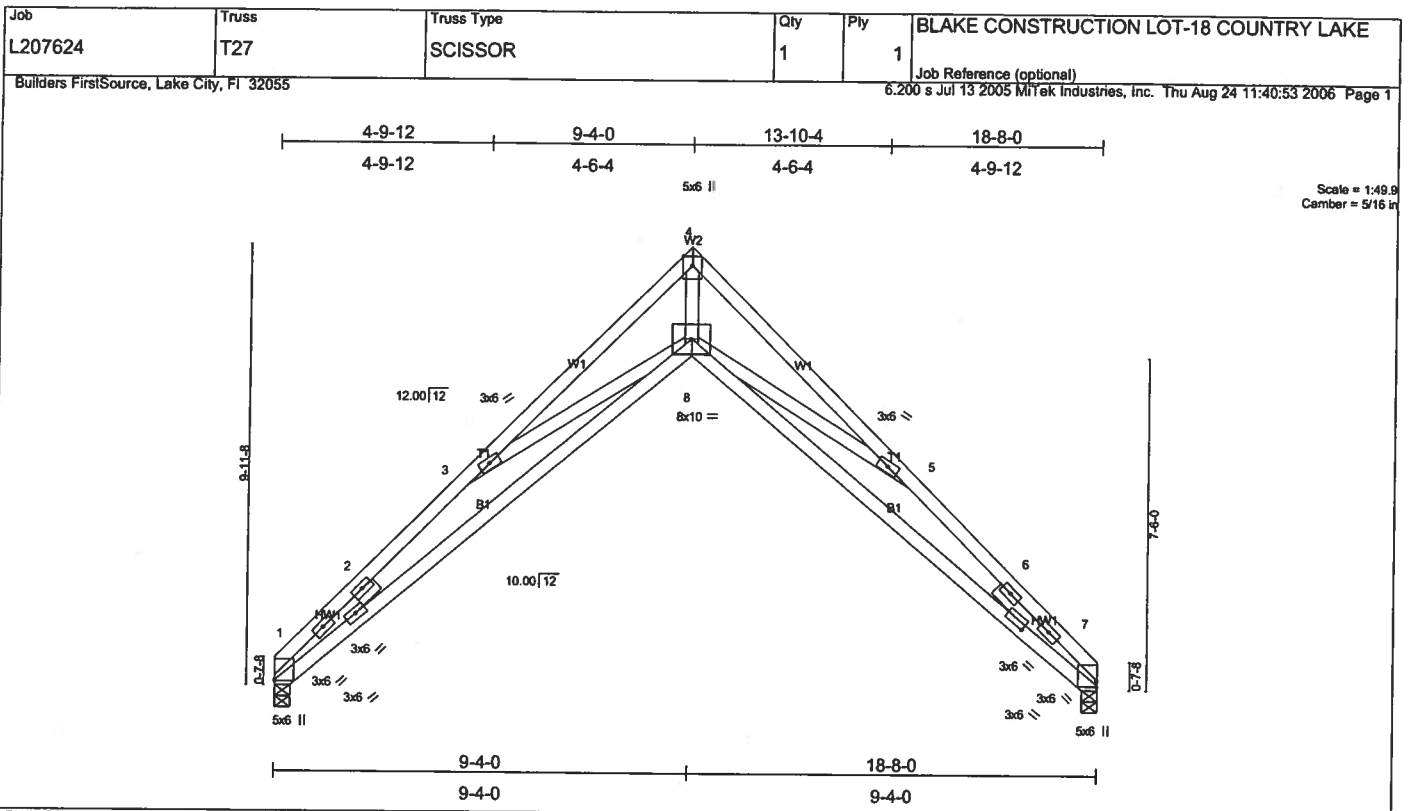


Plate Offsets (X,Y): [7:2-0-7,0-2-8]

| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES         | GRIP    |
|---------------|----------------------|----------|-----------------------------|----------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.50  | in (loc) l/defl L/d         | MT20           | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.68  | Vert(LL) -0.39 1-8 >564 240 |                |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.61  | Vert(TL) -0.63 1-8 >348 180 |                |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) 1.09 7 n/a r/a     |                |         |
|               | Code FBC2004/TP12002 |          |                             |                |         |
|               |                      |          |                             | Weight: 106 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W2 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 3-1-14, Right 2 X 4 SYP No.3 3-1-14

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-3-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 5-10-4 oc bracing.

**REACTIONS**

(lb/size) 1=768/0-4-0, 7=768/0-4-0  
 Max Horz 1=336(load case 4)  
 Max Uplift 1=-230(load case 6), 7=-230(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-2787/1020, 2-3=-2709/1034, 3-4=-2664/503, 4-5=-2664/609, 5-6=-2709/751, 6-7=-2787/737  
 BOT CHORD 1-8=-1144/2433, 7-8=-538/2433  
 WEBS 3-8=-132/814, 4-8=-724/3326, 5-8=-405/1000

**JOINT STRESS INDEX**

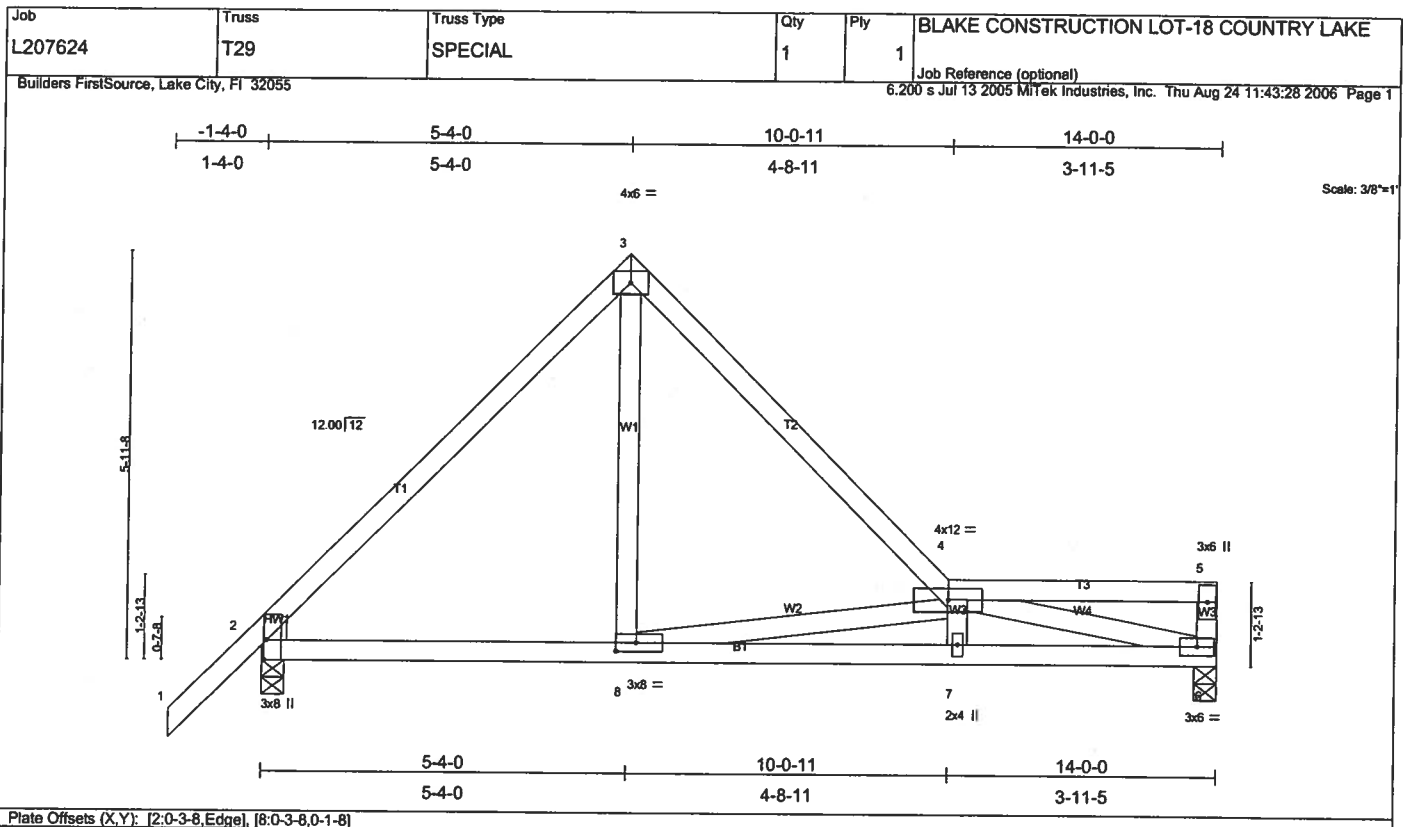
1 = 0.85, 1 = 0.51, 1 = 0.51, 1 = 0.42, 2 = 0.00, 3 = 0.27, 4 = 0.73, 5 = 0.27, 6 = 0.00, 7 = 0.67, 7 = 0.51, 7 = 0.51, 7 = 0.42 and 8 = 0.83

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 1 and 230 lb uplift at joint 7.

**LOAD CASE(S)** Standard





| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES        | GRIP    |
|---------------|----------------------|----------|-----------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.39  | in (loc) l/defl L/d         | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.47  | Vert(LL) -0.10 7-8 >999 240 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.57  | Vert(TL) -0.16 7-8 >999 180 |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.03 6 n/a n/a     |               |         |
|               | Code FBC2004/TPI2002 |          |                             | Weight: 74 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 WEDGE  
 Left: 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 7-8-0 oc bracing.

**REACTIONS** (lb/size) 6=570/0-4-0, 2=660/0-4-0  
 Max Horz 2=217(load case 4)  
 Max Uplift 6=145(load case 5), 2=254(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=634/230, 3-4=569/232, 4-5=232/97, 5-6=131/118  
 BOT CHORD 2-8=87/369, 7-8=665/1641, 6-7=855/1649  
 WEBS 3-8=113/451, 4-8=1296/611, 4-7=0/82, 4-6=1458/587

**JOINT STRESS INDEX**  
 2 = 0.42, 2 = 0.00, 3 = 0.51, 4 = 0.56, 5 = 0.37, 6 = 0.49, 7 = 0.06 and 8 = 0.29

#### 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 6 and 254 lb uplift at joint 2.

**LOAD CASE(S)** Standard

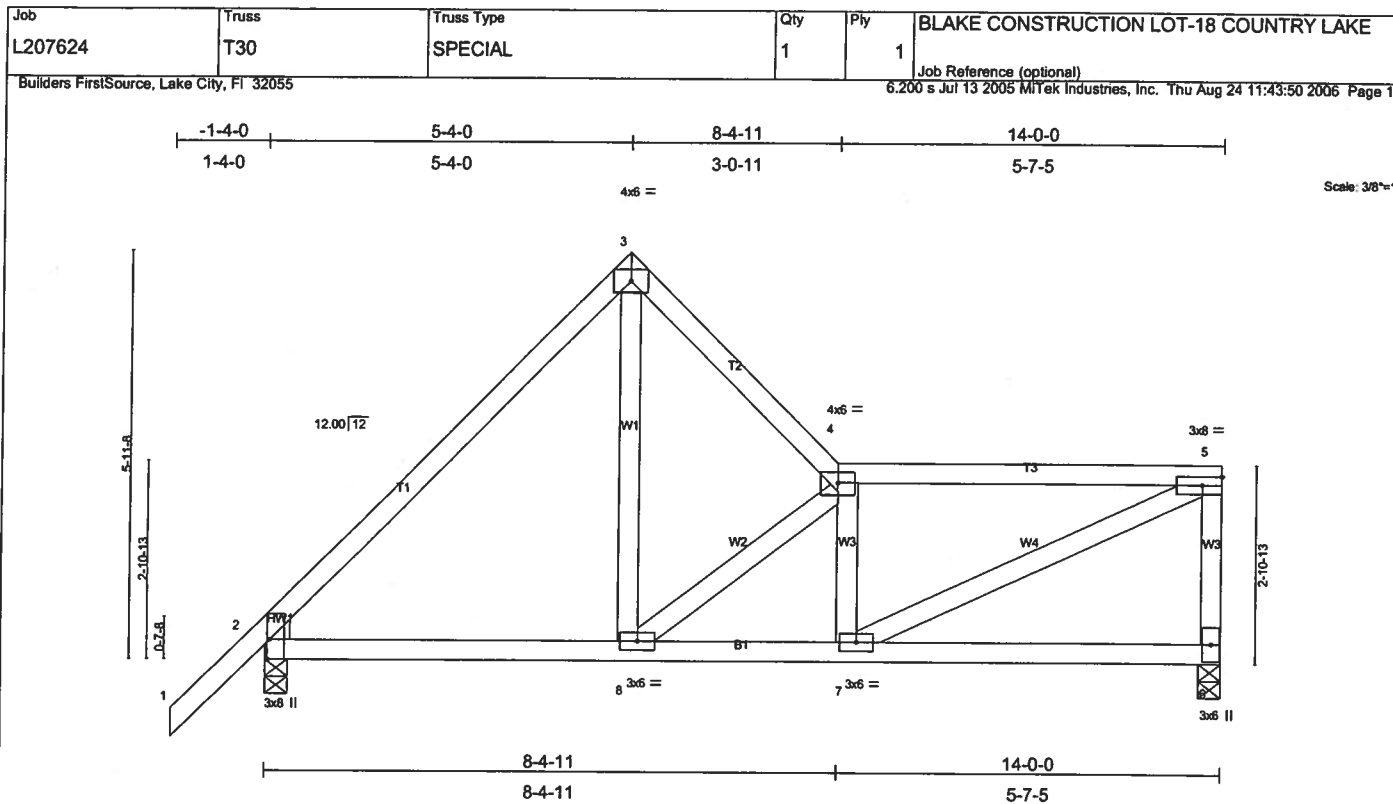


Plate Offsets (X,Y): [2-0-3-8,Edge]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.49  | Vert(LL) | -0.04 | 2-8   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.26  | Vert(TL) | -0.06 | 2-8   | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.24  | Horz(TL) | 0.01  | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2004/TPI2002 |          |          |       |       |        |     |               |         |
|               |                      |          |          |       |       |        |     | Weight: 79 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 WEDGE  
 Left: 2 X 4 SYP No.3

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

**REACTIONS** (lb/size) 6=570/0-4-0, 2=660/0-4-0  
 Max Horz 2=231 (load case 5)  
 Max Uplift 6=200 (load case 4), 2=247 (load case 5)

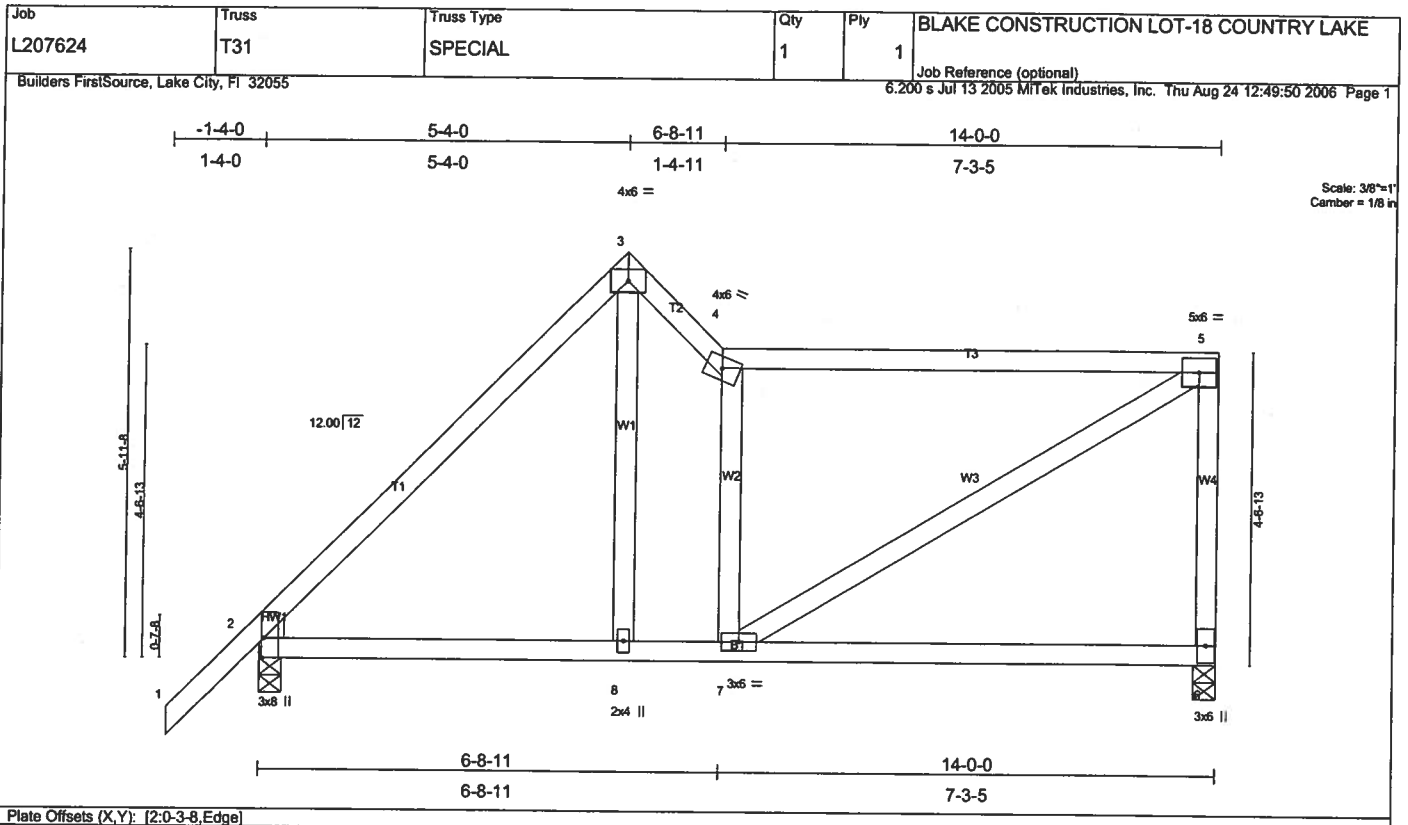
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=620/219, 3-4=547/260, 4-5=744/303, 5-6=479/251  
 BOT CHORD 2-8=126/354, 7-8=314/756, 6-7=45/84  
 WEBS 3-8=164/494, 4-7=221/176, 5-7=295/735, 4-8=526/246

**JOINT STRESS INDEX**  
 2 = 0.43, 2 = 0.00, 3 = 0.39, 4 = 0.51, 5 = 0.56, 6 = 0.28, 7 = 0.42 and 8 = 0.32

**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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 6 and 247 lb uplift at joint 2.

LOAD CASE(S) Standard



| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.46  | Vert(LL) | -0.19 | 6-7   | >883   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.52  | Vert(TL) | -0.30 | 6-7   | >557   | 180 |               |         |
| BCCL 10.0     | Rep Stress Incr      | YES   | WB 0.21  | Horz(TL) | 0.01  | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TP12002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 81 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.1D  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W4 2 X 4 SYP No.1D  
 WEDGE  
 Left: 2 X 4 SYP No.3

**BRACING**

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

**REACTIONS** (lb/size) 6=570/0-4-0, 2=660/0-4-0  
 Max Horz 2=284(load case 5)  
 Max Uplift 6=251(load case 4), 2=234(load case 5)

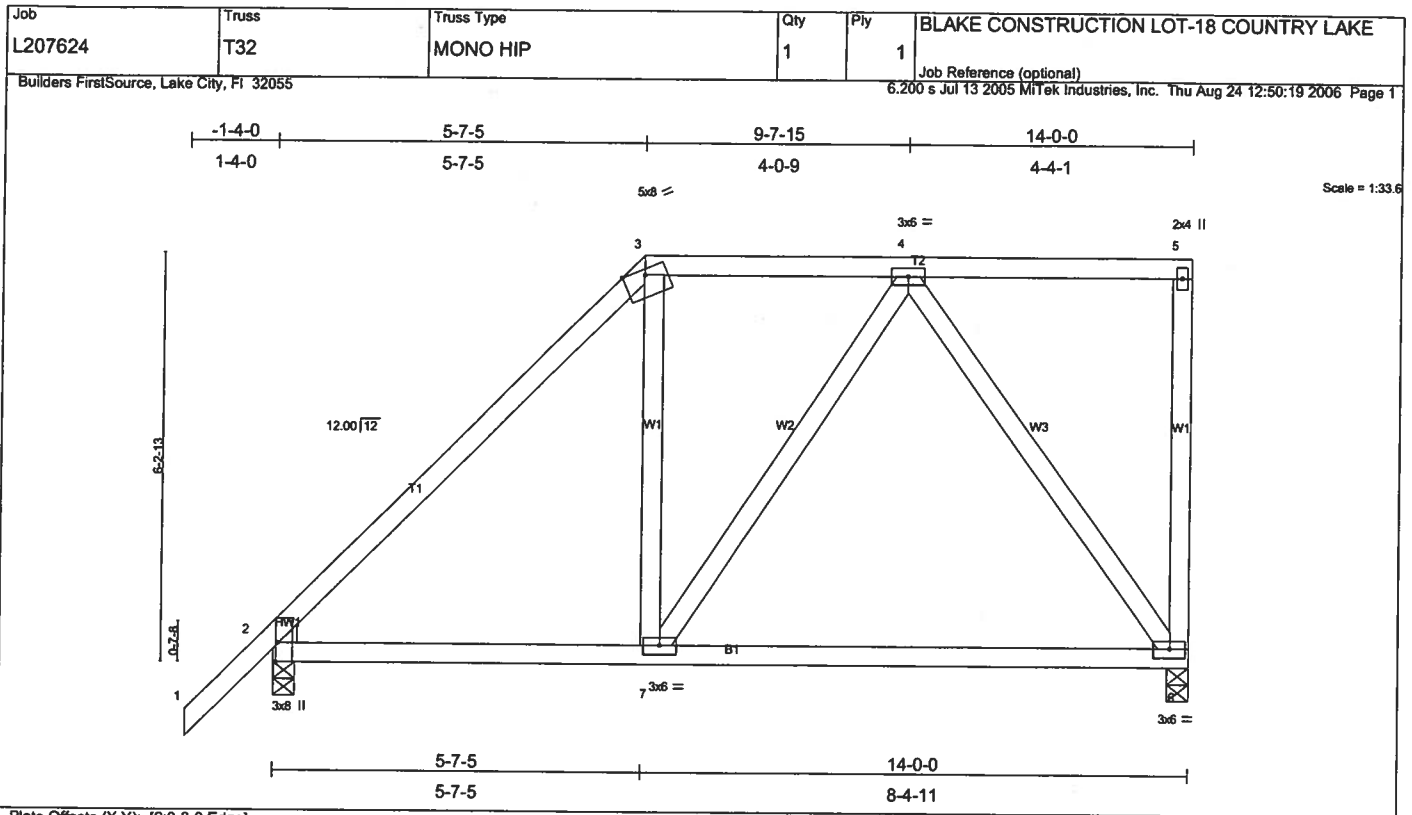
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=-684/226, 3-4=-430/256, 4-5=-404/203, 5-6=-417/265  
 BOT CHORD 2-8=-213/415, 7-8=-213/415, 6-7=-50/117  
 WEBS 3-8=-144/391, 4-7=-336/278, 5-7=-180/338

**JOINT STRESS INDEX**  
 2 = 0.40, 2 = 0.00, 3 = 0.59, 4 = 0.58, 5 = 0.64, 6 = 0.84, 7 = 0.20 and 8 = 0.29

**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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 6 and 234 lb uplift at joint 2.

**LOAD CASE(S)** Standard

**LOADING (psf)**

TCLL 20.0  
TCCL 7.0  
BCCL 10.0  
BCDL 5.0

**SPACING**

2-0-0  
Plates Increase 1.25  
Lumber Increase 1.25  
Rep Stress Incr YES  
Code FBC2004/TPI2002

**CSI**

TC 0.40  
BC 0.37  
WB 0.39  
(Matrix)

**DEFL**

in (loc) l/defl L/d  
Vert(LL) -0.08 6-7 >999 240  
Vert(TL) -0.14 6-7 >999 180  
Horz(TL) 0.01 6 n/a n/a

**PLATES**

MT20 GRIP 244/190

Weight: 86 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  
WEDGE  
Left: 2 X 4 SYP No.3

**BRACING**

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

**REACTIONS**

(lb/size) 6=570/0-4-0, 2=660/0-4-0  
Max Horz 2=342(load case 5)  
Max Uplift 6=228(load case 4), 2=214(load case 5)

**FORCES (lb) - Maximum Compression/Maximum Tension**

TOP CHORD 1-2=0/47, 2-3=-633/159, 3-4=-363/226, 4-5=-29/2, 5-6=-114/87  
BOT CHORD 2-7=-229/359, 6-7=-169/271  
WEBS 3-7=-28/135, 4-7=-131/166, 4-6=-419/290

**JOINT STRESS INDEX**

2 = 0.47, 2 = 0.00, 3 = 0.68, 4 = 0.17, 5 = 0.68, 6 = 0.52 and 7 = 0.13

**NOTES**

- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 6 and 214 lb uplift at joint 2.

LOAD CASE(S) Standard



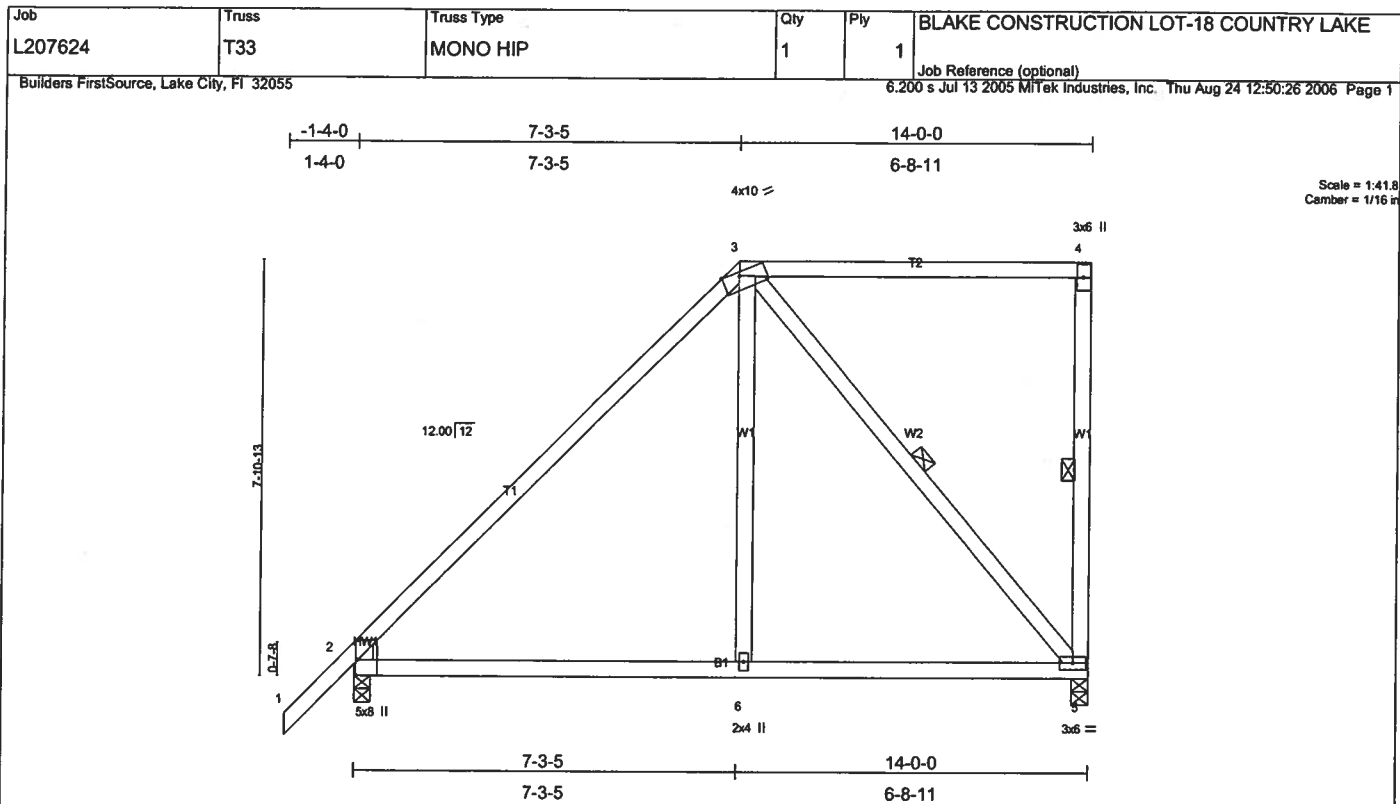


Plate Offsets (X,Y): [2:0-3-8,Edge], [3:0-4-0,Edge]

**LOADING (psf)**  
 TCDL 20.0  
 BCDL 10.0  
 BCDL 5.0

**SPACING** 2-0-0  
 Plates Increase 1.25  
 Lumber Increase 1.25  
 Rep Stress Incr YES  
 Code FBC2004/TPI2002

**CSI**  
 TC 0.48  
 BC 0.38  
 WB 0.21  
 (Matrix)

**DEFL** in (loc) l/defl L/d  
 Vert(LL) 0.11 2-6 >999 240  
 Vert(TL) -0.16 2-6 >999 180  
 Horz(TL) 0.01 5 n/a n/a

**PLATES** GRIP  
 MT20 244/190

Weight: 86 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  
 WEDGE  
 Left: 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-5, 3-5

**REACTIONS** (lb/size) 5=570/0-4-0, 2=660/0-4-0  
 Max Horz 2=419(load case 5)  
 Max Uplift 5=237(load case 5), 2=189(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=577/97, 3-4=-19/18, 4-5=-149/163  
 BOT CHORD 2-6=-226/311, 5-6=-226/316  
 WEBS 3-6=0/252, 3-5=454/340

**JOINT STRESS INDEX**  
 2 = 0.69, 2 = 0.00, 3 = 0.93, 4 = 0.31, 5 = 0.29 and 6 = 0.18

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 5 and 189 lb uplift at joint 2.

LOAD CASE(S) Standard

|                |              |                        |          |          |                                        |
|----------------|--------------|------------------------|----------|----------|----------------------------------------|
| Job<br>L207624 | Truss<br>T34 | Truss Type<br>MONO HIP | Qty<br>3 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
|----------------|--------------|------------------------|----------|----------|----------------------------------------|

Builders FirstSource, Lake City, FL 32055

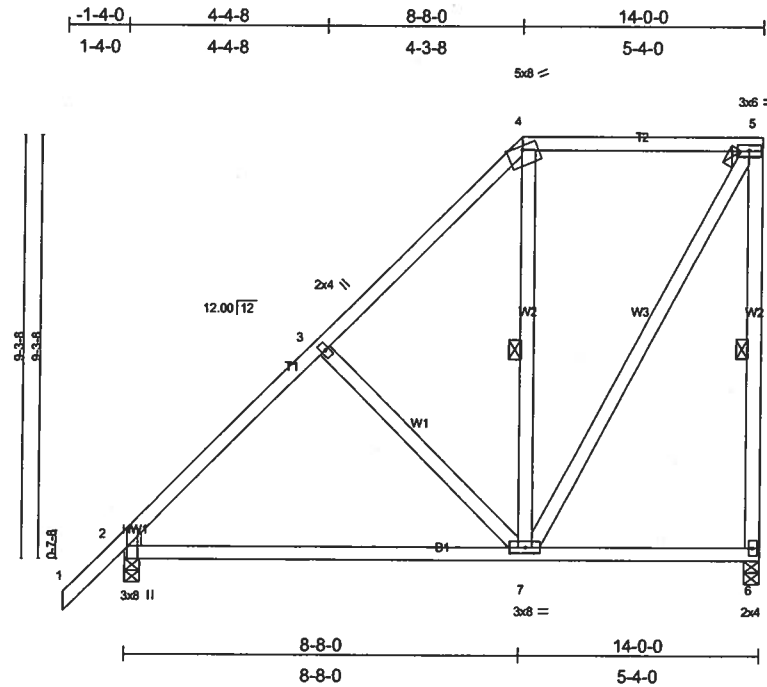
Job Reference (optional)  
6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Aug 24 12:50:45 2006 Page 1Scale: 1/4\"=1'  
Camber = 1/16 in

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

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.23  | Vert(LL) | -0.12 | 2-7   | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.32  | Vert(TL) | -0.21 | 2-7   | >768   | 180 |                |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.59  | Horz(TL) | 0.00  | 6     | n/a    | n/a |                |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |       |       |        |     |                |         |
|               | Code FBC2004/TPI2002 |          |          |       |       |        |     |                |         |
|               |                      |          |          |       |       |        |     | Weight: 100 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  
 WEDGE  
 Left: 2 X 4 SYP No.3

**BRACING**

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

**REACTIONS** (lb/size) 6=570/0-4-0, 2=660/0-4-0  
 Max Horz 2=483(load case 5)  
 Max Uplift6=287(load case 5), 2=159(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=-554/66, 3-4=-411/99, 4-5=-231/159, 5-6=-523/369  
 BOT CHORD 2-7=-337/346, 6-7=-7/9  
 WEBS 3-7=-163/264, 4-7=-41/152, 5-7=-316/453

**JOINT STRESS INDEX**  
 2 = 0.67, 2 = 0.00, 3 = 0.15, 4 = 0.50, 5 = 0.41, 6 = 0.30 and 7 = 0.50

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 6 and 159 lb uplift at joint 2.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

|                                           |              |                        |          |          |                                        |
|-------------------------------------------|--------------|------------------------|----------|----------|----------------------------------------|
| Job<br>L207624                            | Truss<br>T35 | Truss Type<br>MONO HIP | Qty<br>3 | Ply<br>1 | BLAKE CONSTRUCTION LOT-18 COUNTRY LAKE |
| Builders FirstSource, Lake City, FL 32055 |              |                        |          |          | Job Reference (optional)               |

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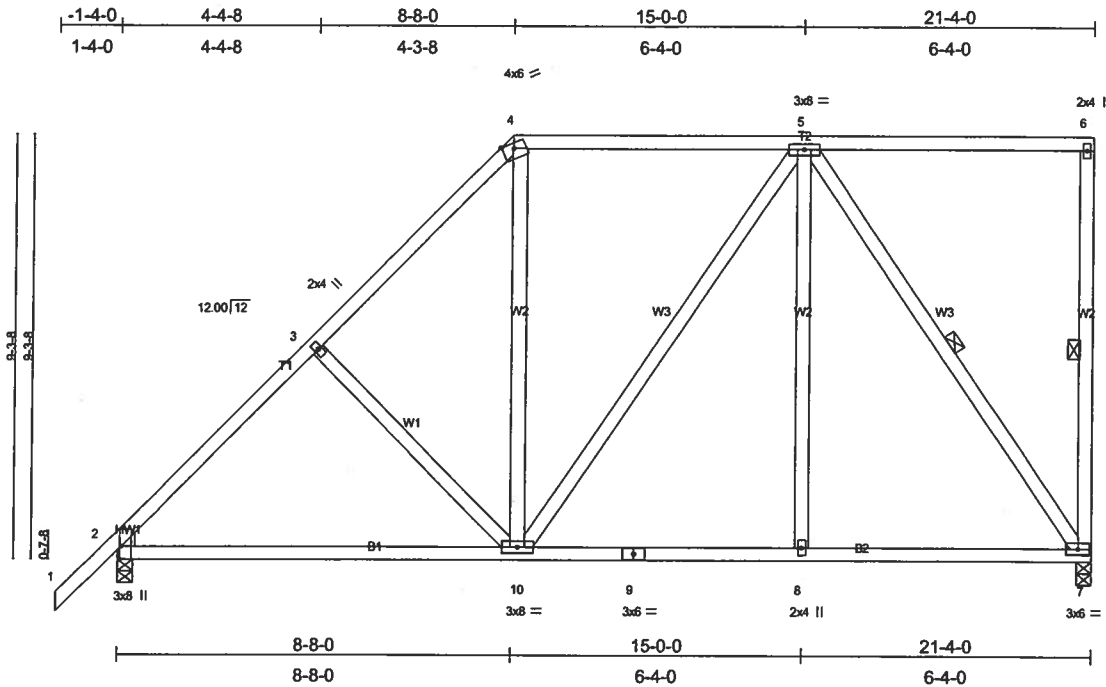
Scale: 1/4"=1'  
Camber = 1/16 in

Plate Offsets (X,Y): [2.0-3-8,Edge]

| LOADING (psf)  | SPACING              | CSI      | DEFL     | in (loc) | I/defl | L/d  | PLATES | GRIP    |
|----------------|----------------------|----------|----------|----------|--------|------|--------|---------|
| TCLL 20.0      | Plates Increase 1.25 | TC 0.30  | Vert(LL) | -0.13    | 2-10   | >999 | MT20   | 244/190 |
| TCDL 7.0       | Lumber Increase 1.25 | BC 0.40  | Vert(TL) | -0.22    | 2-10   | >999 |        |         |
| BCLL 10.0      | Rep Stress Incr YES  | WB 0.43  | Horz(TL) | 0.02     | 7      | n/a  |        |         |
| BCDL 5.0       | Code FBC2004/TP12002 | (Matrix) |          |          |        |      |        |         |
| Weight: 152 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  
 WEDGE  
 Left: 2 X 4 SYP No.3

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

**REACTIONS** (lb/size) 7=880/0-4-0, 2=967/0-4-0  
 Max Horz 2=483(load case 5)  
 Max Uplift 7=349(load case 4), 2=281(load case 5)

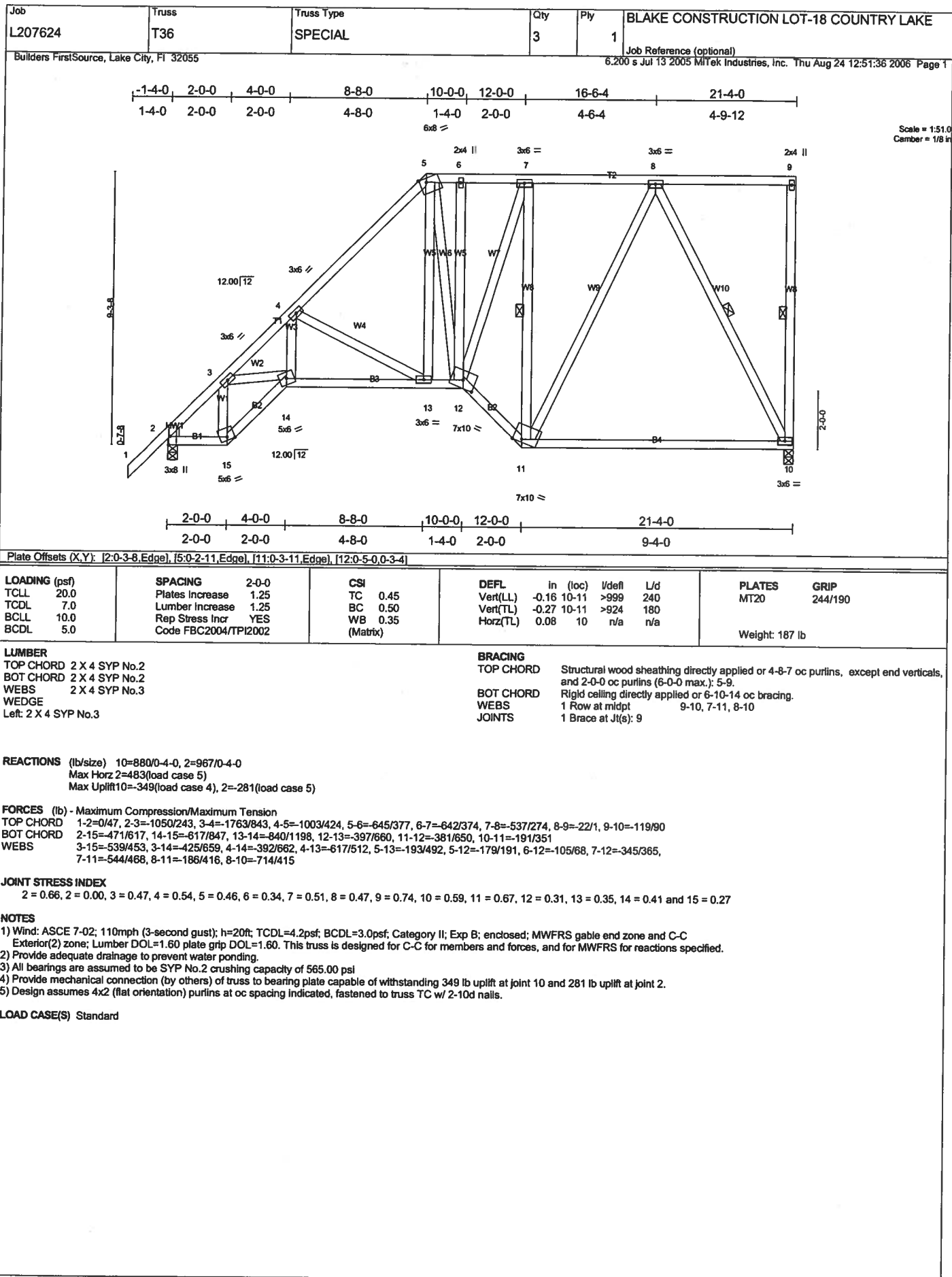
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/47, 2-3=-966/273, 3-4=-822/305, 4-5=-528/304, 5-6=-16/7, 6-7=-146/118  
 BOT CHORD 2-10=-465/621, 9-10=-231/458, 8-9=-231/458, 7-8=-231/458  
 WEBS 3-10=-139/256, 4-10=-8/242, 5-10=-160/122, 5-8=0/173, 5-7=-780/396

**JOINT STRESS INDEX**  
 2 = 0.72, 2 = 0.00, 3 = 0.34, 4 = 0.68, 5 = 0.58, 6 = 0.83, 7 = 0.42, 8 = 0.34, 9 = 0.16 and 10 = 0.58

**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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 7 and 281 lb uplift at joint 2.
- 5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard



Scale = 1:46.2  
Camber = 1/16 in

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1501 lb uplift at joint 10 and 917 lb uplift at joint 2.
- 6) Girder carries tie-in span(s): 3-4-15 from 7-0-0 to 12-0-0; 7-5-4 from 7-0-0 to 12-0-0; 8-8-0 from 12-0-0 to 21-4-0; 8-8-0 from 12-0-0 to 21-4-0
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 778 lb down and 369 lb up at 6-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

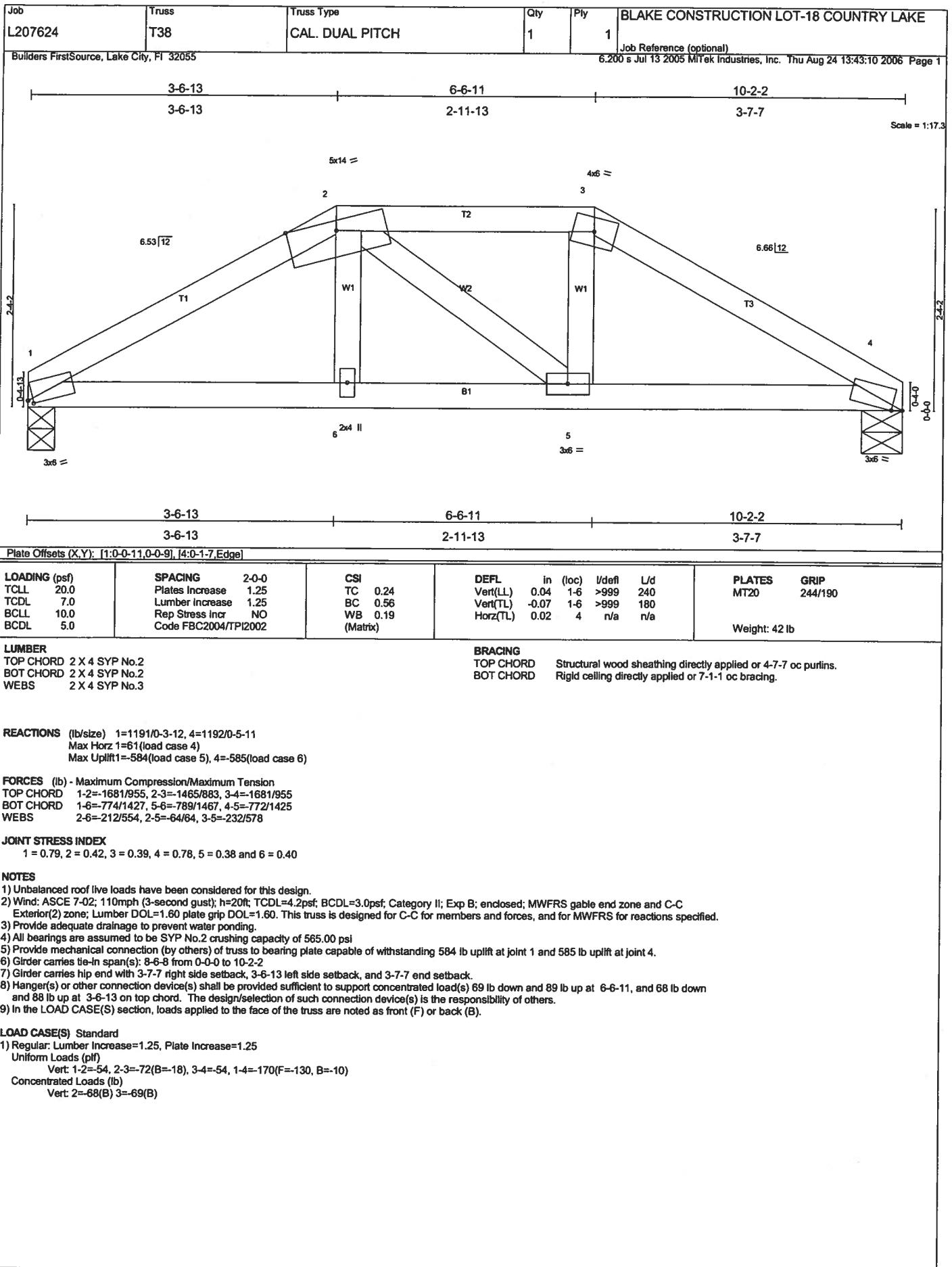
Uniform Loads (plf)

Vert: 1-5=-54, 5-7=-77(F=-23), 7-9=-187(F=-133), 2-16=-30, 15-16=-30, 14-15=-30, 13-14=-137(F=-107), 12-13=-137(F=-107), 10-12=-163(F=-133)

Concentrated Loads (lb)

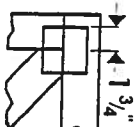
Vert: 14=-778(F)

**AUGUST 29, 2006 TRUSS DESIGN ENGINEER:**  
**THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987**  
**STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196**  
**16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549**

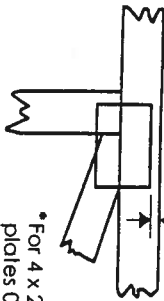


# Symbols

## PLATE LOCATION AND ORIENTATION



\* Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and securely seal.



\* For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



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

\* Plate location details available in Mitek 20/20 software or upon request.

## PLATE SIZE

4 X 4

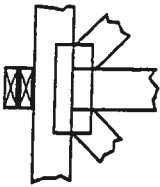
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator Bracing if indicated.

## BEARING



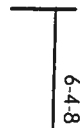
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:  
ANSI/TP11:

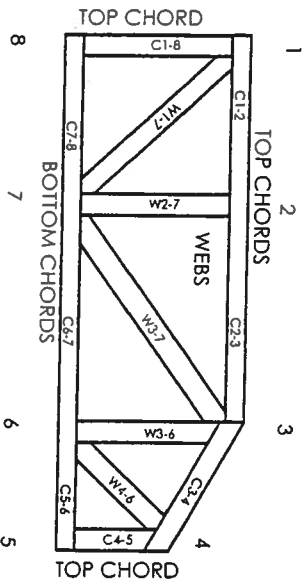
DSB-89:  
BCS11:

National Design Specification for Metal Plate Connected Wood Truss Construction.  
Design Standard for Bracing.  
Building Component Safety Information.  
Guide to Good Practice for Handling.  
Installing & Bracing of Metal Plate  
Connected Wood Trusses.

# Numbering System



6-4-8  
dimensions shown in ft-in-sixteenths



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## CONNECTOR PLATE CODE APPROVALS

|       |                                     |
|-------|-------------------------------------|
| BOCA  | 96-31, 95-43, 96-20-1, 96-67, 84-32 |
| ICBO  | 4922, 5243, 5363, 3907              |
| SBCCI | 9667, 9730, 9604B, 9511, 9432A      |



Mitek Engineering Reference Sheet: MIL-7473

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP11.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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BEARING HEIGHT SCHEDULE

9'0"

10/12,  
12/12  
PITCH  
16"  
O.H.

NOTES:

- 1) REFER TO HD 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL 1003 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' O.C. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SHIPSON HD326 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SHIPSON TR4422 UNLESS OTHERWISE NOTED.
- 8) BEAM/BEAMLINE (MBR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND JOISTS. 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 GANNES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Special Delivery Fee: \_\_\_\_\_

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Burnell

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

Jacksonville

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

Lake City

PHONE: 386-755-6894 FAX: 386-755-7973

Sanford

PHONE: 407-322-0094 FAX: 407-322-5953

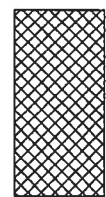
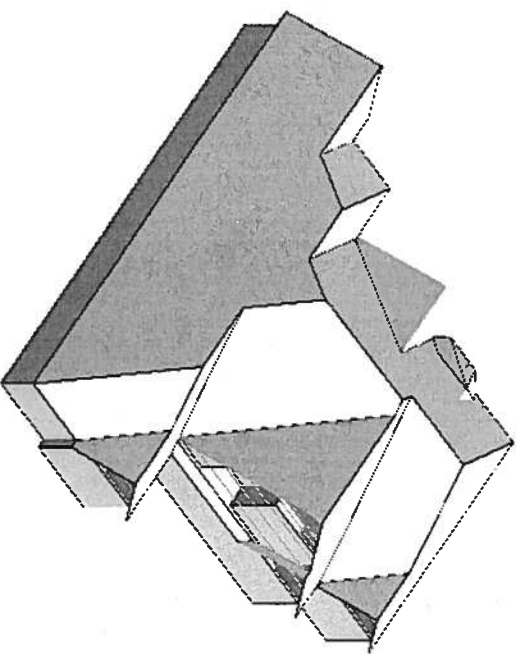
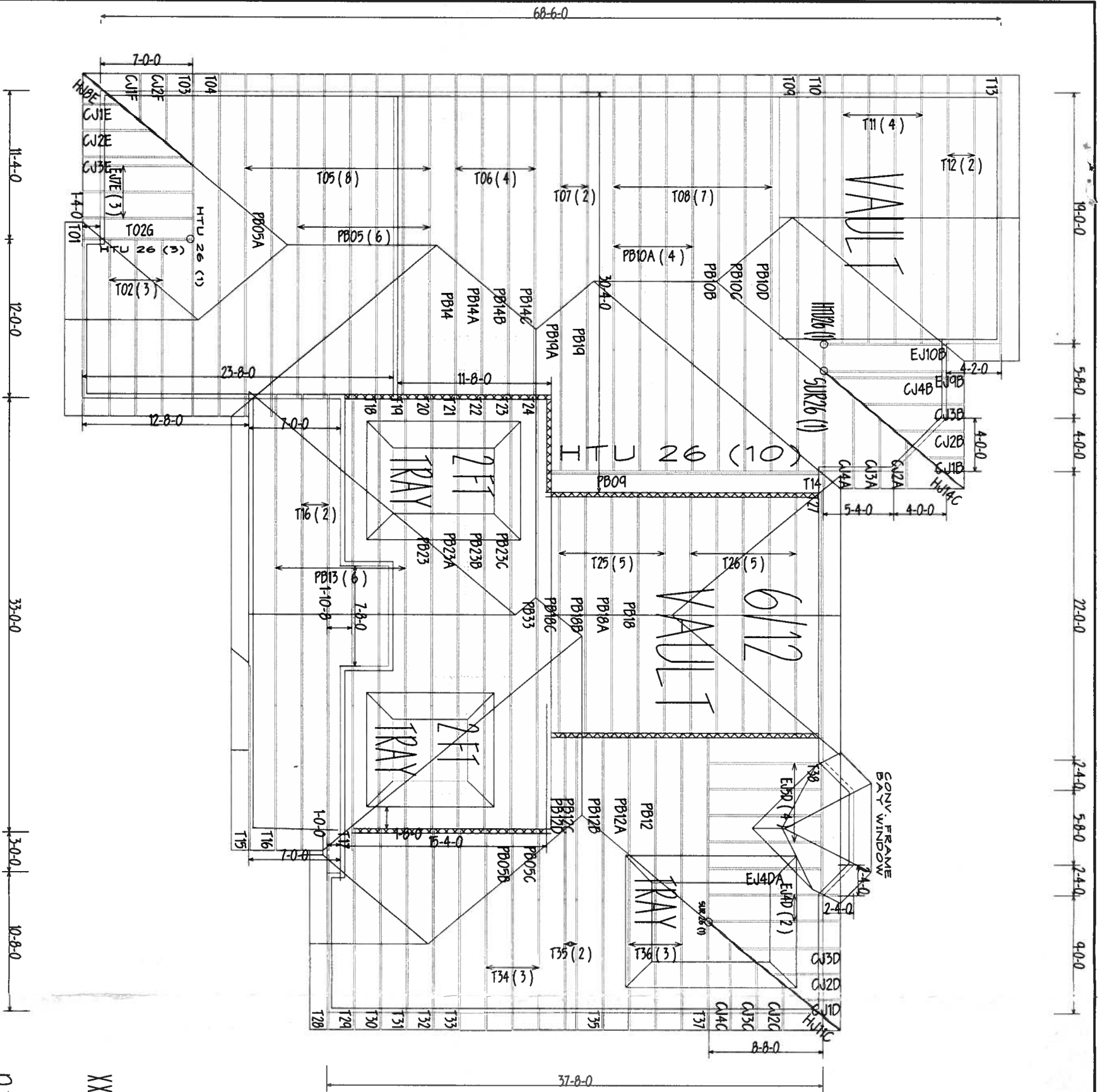
BUILDER: BLAKE CONSTRUCTION

LOT 18 COUNTRY LAKE

ISSUE NOTES: CUSTOMER

DATE: 8/24/06

BY: JOE L201624



9 FT INTERNAL  
LOAD BEARING WALL

XXXXX TRUSSES TO BE VERIFIED AND APPROVED  
BY BLAKE CONSTRUCTION PRIOR TO  
PRODUCTION. XXXXX