

DATE 11/30/2005

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000023916

APPLICANT SUSAN FAIR PHONE 752-1711

ADDRESS 180 NW AMENITY COURT LAKE CITY FL 32055

OWNER CORNERSTONE DEVELOPERS PHONE 752-1711

ADDRESS 146 SW TIMBERLAND COURT LAKE CITY FL 32055

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 90W, TL ON HEATHRIDGE COURT, TR ON TIMBERLAND COURT, 2ND ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 75000.00

HEATED FLOOR AREA 1500.00 TOTAL AREA 1974.00 HEIGHT .00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 18

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

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

PARCEL ID 33-3S-16-02438-196 SUBDIVISION EMERALD COVE

LOT 96 BLOCK PHASE 1 UNIT TOTAL ACRES .50

000000904 CBC054575

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

CULVERT 05-1130-N BK JH Y

Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD

ALTERNATE TERMIT TREATMENT RECEIVED

Check # or Cash 1257

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 \$ 375.00 CERTIFICATION FEE \$ 9.87 SURCHARGE FEE \$ 9.87

MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ .00 WASTE FEE \$

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 494.74

INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

## Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0511-69 Date Received 11-17-05 By 6 Permit # 904 23916  
Application Approved by - Zoning Official BLK Date 21.11.05 Plans Examiner OK JH Date 11-21-05  
Flood Zone X Per PHAT Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Dev.  
Comments - Septic + NOC

Applicants Name CHARIS COX Phone 386-867-0633  
Address 252 NW IVY GREEN LAKE CITY, FL. 32055  
Owners Name Cornerstone Developers, LLC Phone 752.1711  
911 Address 146 SW Timberland CT  
Contractors Name Bryan Zecher Construction Phone 752-8653  
Address PO Box 815 Lake City, FL 32056  
Fee Simple Owner Name & Address Cornerstone Developers, LLC.  
Bonding Co. Name & Address NA  
Architect/Engineer Name & Address MARK DISOWAY PO BOX 868 LAKE CITY, FL 32056  
Mortgage Lenders Name & Address NA  
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
Property ID Number 33-35-16-02438-A6 Estimated Cost of Construction 60,000.00  
Subdivision Name Emerald Cove Lot 96 Block     Unit 96 Phase 1  
Driving Directions Take Hwy 90 W - go two miles past I-75 -  
subdivision is on the left.  
Heathridge, Timberland, 2nd on SEE ATTACHED "A"  
Type of Construction Frame + Brick Number of Existing Dwellings on Property 0  
Total Acreage     Lot Size 5000 sq ft Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive  
Actual Distance of Structure from Property Lines - Front 30' Side 42' Side 30' Rear 100'  
Total Building Height 18'-9" Number of Stories 1 Heated Floor Area 1500 sq ft Roof Pitch 6/12  
PORCHES 44 CARAGE 430 TOTAL 1974

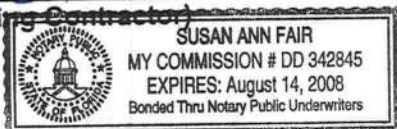
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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) Chris W. Cox

STATE OF FLORIDA  
COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me

this 17 day of Nov 2005.

Personally known ✓ or Produced Identification    

Contractor Signature Chris W. Cox

Contractors License Number CBC054575

Competency Card Number    

NOTARY STAMP/SEAL

Susan Ann Fair

Notary Signature

Called Chris 11.22.05

OCT-21-2005 10:07 FROM: BRYAN ZECHER CONSTRU 386-758-8924

TO: 4974866

P.H



Rock 77-0

PREPARED BY AND RETURN TO:

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

Inst:2005026450 Date:10/24/2005 Time:13:06

Doc Stamp-Deed : 3628.80

DC, P. DeWitt Cason, Columbia County B:1062 P:2214

Property Appraiser's 02438-000  
Identification Number 02421-000

TM File No: 05-652

## WARRANTY DEED

This Warranty Deed, made this 18<sup>th</sup> day of October, 2005, BETWEEN D D P CORPORATION, a Florida corporation, whose post office address is 4158 US Highway 90 West, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantor, and CORNERSTONE DEVELOPERS, LLC, a Florida Limited Liability Company, whose post office address is P.O. Box 815, Lake City, Florida 32056, grantee.

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

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

Lots 65,66,67,68,71,72,73,74,93,94,95,96,97 & 98, Emerald Cove, Phase 1, a subdivision according to the plat thereof recorded in Plat Book 8, Pages 35-36, public records, Columbia County, Florida.

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

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

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

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

Signed, sealed and delivered  
in our presence:

D D P CORPORATION

DeEtte F. Brown  
(Signature of First Witness)

DeEtte F. Brown  
(Typed Name of First Witness)

Karen M. Wright  
(Signature of Second Witness)

Karen M. Wright  
(Typed Name of Second Witness)

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

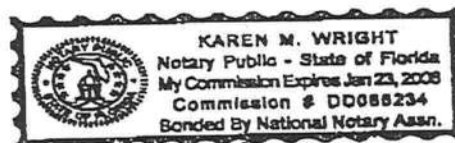
(Corporate Seal)

STATE OF FLORIDA  
COUNTY OF COLUMBIA

[Signature] The foregoing instrument was acknowledged before me this  
day of October, 2005, by O. P. Daughtry, III, President of  
D D P Corporation, a Florida corporation, on behalf of said  
corporation, who is/are personally known to me or who has/have  
produced \_\_\_\_\_ as identification and who did not take  
an oath.

My Commission Expires:

[Signature]  
Notary Public  
Printed, typed, or stamped name:



Inst:2005026450 Date:10/24/2005 Time:13:06  
Doc Stamp-Deed : 3628.80  
DC,P.DeWitt Cason,Columbia County B:1062 P:2215

STATE OF FLORIDA  
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 05-1130-N

----- PART II - SITEPLAN -----

Scale: 1 inch = 50 feet.

See  
attached.

Notes: \_\_\_\_\_

Site Plan submitted by: Rock 7-0

MASTER CONTRACTOR

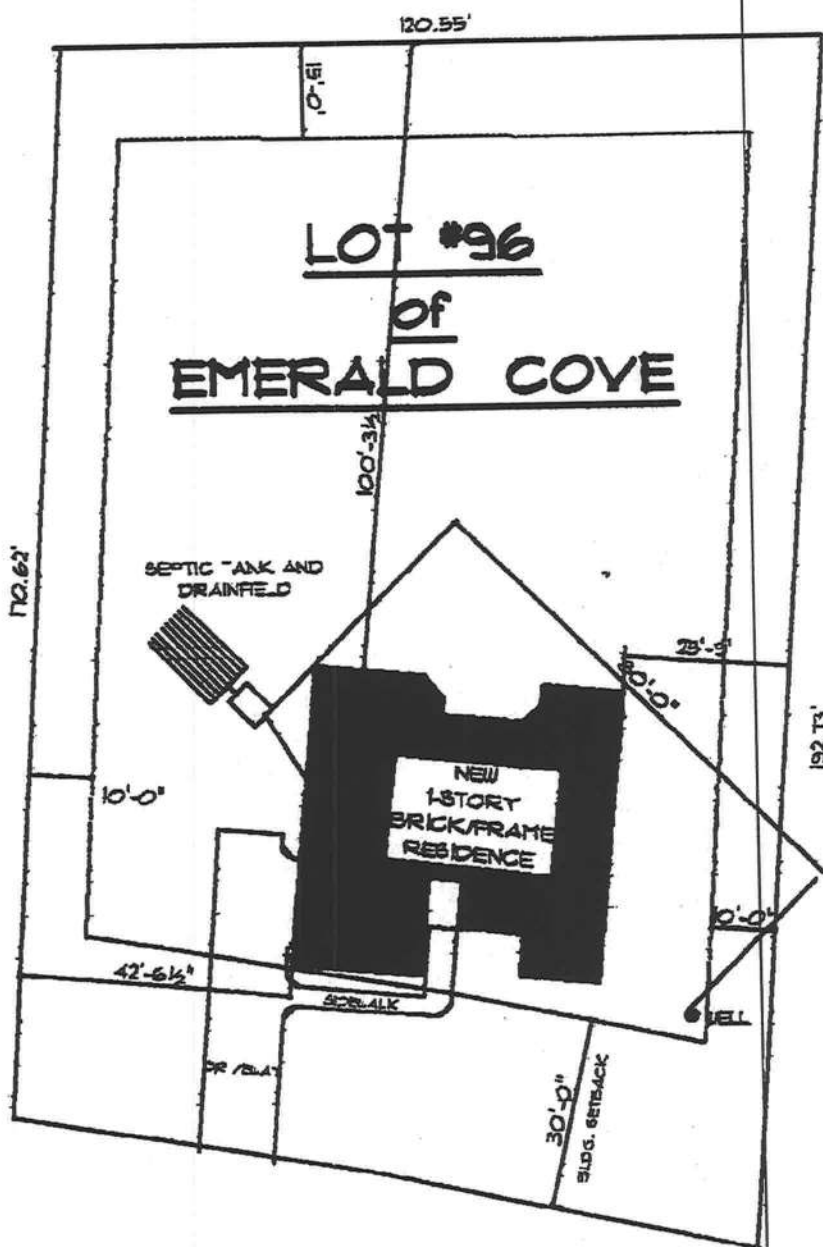
Plan Approved X Not Approved \_\_\_\_\_

Date Oct 24 2005

By Salhi Gaddy - ES1 - CUMBA

County Health Department

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



SW TIMBERLAND COURT

# • SITE PLAN •

SCALE : 1" = 20'-0"

Rock D F O

# HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL  
OWNERS

PHONE (904) 752-1854  
FAX (904) 755-7022  
~~XXXXXXXXXXXXXXXXXXXX~~  
LAKE CITY, FLORIDA 32055  
904 NW Main Blvd.

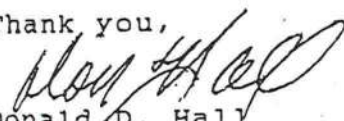
June 12, 2002

## 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

# Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: \_\_\_\_\_

(Address of Treatment or Lot/Block of Treatment)

City

## Florida Pest Control & Chemical Co.

[www.flapest.com](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.)

FLORIDA ENERGY EFFICIENCY CODE  
FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

|               |                                   |                      |                           |
|---------------|-----------------------------------|----------------------|---------------------------|
| Project Name: | TheSamuelModel510318              | Builder:             | Bryan Zecher Construction |
| Address:      | Lot: 96, Sub: Emerald cove, Plat: | Permitting Office:   | Columbia                  |
| City, State:  | Lake City, FL                     | Permit Number:       | 23916                     |
| Owner:        | Model Home                        | Jurisdiction Number: | 221000                    |
| Climate Zone: | North                             |                      |                           |

|                                                                                 |                              |                                        |                   |
|---------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | New                          | 12. Cooling systems                    |                   |
| 2. Single family or multi-family                                                | Single family                | a. Central Unit                        | Cap: 34.0 kBtu/hr |
| 3. Number of units, if multi-family                                             | 1                            |                                        | SEER: 12.00       |
| 4. Number of Bedrooms                                                           | 3                            | b. N/A                                 |                   |
| 5. Is this a worst case?                                                        | Yes                          | c. N/A                                 |                   |
| 6. Conditioned floor area (ft²)                                                 | 1500 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: 34.0 kBtu/hr |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 122.0 ft² |                                        | HSPF: 7.90        |
| b. SHGC:                                                                        |                              | b. N/A                                 |                   |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 122.0 ft²        | c. N/A                                 |                   |
| 8. Floor types                                                                  |                              |                                        |                   |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 196.0(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, Adjacent                                                        | R=13.0, 172.0 ft²            | c. Conservation credits                |                   |
| b. Frame, Wood, Exterior                                                        | R=13.0, 1051.0 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, 1754.0 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: Garage                                               | Sup. R=6.0, 150.0 ft         |                                        |                   |
| b. N/A                                                                          |                              |                                        |                   |

Glass/Floor Area: 0.16

Total as-built points: 23591  
Total base points: 23606

PASS

|                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.<br><b>PREPARED BY:</b> <u>Y3en Gm...</u><br><b>DATE:</b> <u>11-7-09</u><br>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.<br><b>OWNER/AGENT:</b> <u>Chris W. G...</u><br><b>DATE:</b> <u>11-17-05</u> | 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.<br><b>BUILDING OFFICIAL:</b> _____<br><b>DATE:</b> _____<br> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 96, Sub: Emerald cove, Plat: , Lake City, 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                                                            | 1500.0   | 20.04                | 5410.8  | Double, Clear                 | SE                       | 2.0     | 5.5    | 45.0             | 42.75        | 0.77     | 1488.9  |
|                                                                |          |                      |         | Double, Clear                 | S                        | 14.5    | 7.0    | 10.0             | 35.87        | 0.45     | 161.1   |
|                                                                |          |                      |         | Double, Clear                 | SE                       | 12.0    | 5.3    | 45.0             | 42.75        | 0.39     | 759.0   |
|                                                                |          |                      |         | Double, Clear                 | E                        | 8.5     | 7.0    | 10.0             | 42.06        | 0.47     | 196.6   |
|                                                                |          |                      |         | Double, Clear                 | SW                       | 2.0     | 1.5    | 3.0              | 40.16        | 0.44     | 53.0    |
|                                                                |          |                      |         | Double, Clear                 | NW                       | 9.5     | 7.5    | 6.0              | 25.97        | 0.60     | 93.2    |
|                                                                |          |                      |         | Double, Clear                 | NW                       | 2.0     | 5.5    | 30.0             | 25.97        | 0.86     | 666.7   |
|                                                                |          |                      |         | Double, Clear                 | NW                       | 2.0     | 8.0    | 30.0             | 25.97        | 0.93     | 721.1   |
|                                                                |          |                      |         | Double, Clear                 | NE                       | 1.5     | 3.5    | 3.0              | 29.56        | 0.80     | 71.0    |
|                                                                |          |                      |         | Double, Clear                 | SE                       | 1.5     | 5.5    | 30.0             | 42.75        | 0.86     | 1104.3  |
|                                                                |          |                      |         | Double, Clear                 | SW                       | 1.5     | 5.5    | 30.0             | 40.16        | 0.86     | 1039.8  |
|                                                                |          |                      |         | As-Built Total:               |                          |         |        | 242.0            |              | 6354.8   |         |
| WALL TYPES                                                     |          | Area X BSPM = Points |         | Type                          |                          | R-Value |        | Area X SPM       |              | = Points |         |
| Adjacent                                                       | 172.0    | 0.70                 | 120.4   | Frame, Wood, Adjacent         |                          | 13.0    |        | 172.0            | 0.60         |          | 103.2   |
| Exterior                                                       | 1051.0   | 1.70                 | 1786.7  | Frame, Wood, Exterior         |                          | 13.0    |        | 1051.0           | 1.50         |          | 1576.5  |
| Base Total:                                                    |          | 1223.0               |         | As-Built Total:               |                          |         |        | 1223.0           |              | 1679.7   |         |
| DOOR TYPES                                                     |          | Area X BSPM = Points |         | Type                          |                          |         |        | Area X SPM       |              | = Points |         |
| Adjacent                                                       | 20.0     | 2.40                 | 48.0    | Exterior Insulated            |                          |         |        | 20.0             | 4.10         |          | 82.0    |
| Exterior                                                       | 40.0     | 6.10                 | 244.0   | Exterior Insulated            |                          |         |        | 20.0             | 4.10         |          | 82.0    |
|                                                                |          |                      |         | Adjacent Insulated            |                          |         |        | 20.0             | 1.60         |          | 32.0    |
| Base Total:                                                    |          | 60.0                 |         | As-Built Total:               |                          |         |        | 60.0             |              | 196.0    |         |
| CEILING TYPES                                                  |          | Area X BSPM = Points |         | Type                          |                          | R-Value |        | Area X SPM X SCM |              | = Points |         |
| Under Attic                                                    | 1500.0   | 1.73                 | 2595.0  | Under Attic                   |                          | 30.0    |        | 1754.0           | 1.73 X 1.00  |          | 3034.4  |
| Base Total:                                                    |          | 1500.0               |         | As-Built Total:               |                          |         |        | 1754.0           |              | 3034.4   |         |
| FLOOR TYPES                                                    |          | Area X BSPM = Points |         | Type                          |                          | R-Value |        | Area X SPM       |              | = Points |         |
| Slab                                                           | 196.0(p) | -37.0                | -7252.0 | Slab-On-Grade Edge Insulation |                          | 0.0     |        | 196.0(p)         | -41.20       |          | -8075.2 |
| Raised                                                         | 0.0      | 0.00                 | 0.0     |                               |                          |         |        |                  |              |          |         |
| Base Total:                                                    |          | -7252.0              |         | As-Built Total:               |                          |         |        | 196.0            |              | -8075.2  |         |

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 96, Sub: Emerald cove, Plat: , Lake City, FL,

PERMIT #:

| BASE                                                        |  |  |  | AS-BUILT                                                                                                                                                                              |  |  |  |
|-------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| INFILTRATION Area X BSPM = Points                           |  |  |  | Area X SPM = Points                                                                                                                                                                   |  |  |  |
| 1500.0 10.21 15315.0                                        |  |  |  | 1500.0 10.21 15315.0                                                                                                                                                                  |  |  |  |
| Summer Base Points: 18267.9                                 |  |  |  | Summer As-Built Points: 18504.7                                                                                                                                                       |  |  |  |
| Total Summer X System = Cooling<br>Points Multiplier Points |  |  |  | Total X Cap X Duct X System X Credit = Cooling<br>Component Ratio Multiplier Multiplier Multiplier Points<br>(System - Points) (DM x DSM x AHU)                                       |  |  |  |
| 18267.9 0.4266 7793.1                                       |  |  |  | (sys 1: Central Unit 34000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)<br>18505 1.00 (1.09 x 1.147 x 1.00) 0.284 1.000 6580.0<br>18504.7 1.00 1.250 0.284 1.000 6580.0 |  |  |  |

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 96, Sub: Emerald cove, Plat: , Lake City, FL,PERMIT #:

| BASE                                                           |          |       |        | AS-BUILT                                                  |    |      |          |              |        |      |        |
|----------------------------------------------------------------|----------|-------|--------|-----------------------------------------------------------|----|------|----------|--------------|--------|------|--------|
| GLASS TYPES<br>.18 X Conditioned X BWPM = Points<br>Floor Area |          |       |        | Type/SC Overhang<br>Ornt Len Hgt Area X WPM X WOF = Point |    |      |          |              |        |      |        |
| .18                                                            | 1500.0   | 12.74 | 3439.8 | Double, Clear                                             | SE | 2.0  | 5.5      | 45.0         | 14.71  | 1.21 | 798.3  |
|                                                                |          |       |        | Double, Clear                                             | S  | 14.5 | 7.0      | 10.0         | 13.30  | 3.52 | 468.1  |
|                                                                |          |       |        | Double, Clear                                             | SE | 12.0 | 5.3      | 45.0         | 14.71  | 2.54 | 1682.8 |
|                                                                |          |       |        | Double, Clear                                             | E  | 8.5  | 7.0      | 10.0         | 18.79  | 1.34 | 252.1  |
|                                                                |          |       |        | Double, Clear                                             | SW | 2.0  | 1.5      | 3.0          | 16.74  | 1.76 | 88.2   |
|                                                                |          |       |        | Double, Clear                                             | NW | 9.5  | 7.5      | 6.0          | 24.30  | 1.03 | 149.9  |
|                                                                |          |       |        | Double, Clear                                             | NW | 2.0  | 5.5      | 30.0         | 24.30  | 1.01 | 734.7  |
|                                                                |          |       |        | Double, Clear                                             | NW | 2.0  | 8.0      | 30.0         | 24.30  | 1.00 | 731.2  |
|                                                                |          |       |        | Double, Clear                                             | NE | 1.5  | 3.5      | 3.0          | 23.57  | 1.02 | 72.1   |
|                                                                |          |       |        | Double, Clear                                             | SE | 1.5  | 5.5      | 30.0         | 14.71  | 1.11 | 491.5  |
|                                                                |          |       |        | Double, Clear                                             | SW | 1.5  | 5.5      | 30.0         | 16.74  | 1.07 | 538.4  |
|                                                                |          |       |        | As-Built Total:                                           |    |      |          | 242.0 6007.3 |        |      |        |
| WALL TYPES Area X BWPM = Points                                |          |       |        | Type R-Value Area X WPM = Points                          |    |      |          |              |        |      |        |
| Adjacent                                                       | 172.0    | 3.60  | 619.2  | Frame, Wood, Adjacent                                     |    | 13.0 | 172.0    | 3.30         | 567.6  |      |        |
| Exterior                                                       | 1051.0   | 3.70  | 3888.7 | Frame, Wood, Exterior                                     |    | 13.0 | 1051.0   | 3.40         | 3573.4 |      |        |
| Base Total: 1223.0 4507.9                                      |          |       |        | As-Built Total: 1223.0 4141.0                             |    |      |          |              |        |      |        |
| DOOR TYPES Area X BWPM = Points                                |          |       |        | Type Area X WPM = Points                                  |    |      |          |              |        |      |        |
| Adjacent                                                       | 20.0     | 11.50 | 230.0  | Exterior Insulated                                        |    |      | 20.0     | 8.40         | 168.0  |      |        |
| Exterior                                                       | 40.0     | 12.30 | 492.0  | Exterior Insulated                                        |    |      | 20.0     | 8.40         | 168.0  |      |        |
|                                                                |          |       |        | Adjacent Insulated                                        |    |      | 20.0     | 8.00         | 160.0  |      |        |
| Base Total: 60.0 722.0                                         |          |       |        | As-Built Total: 60.0 496.0                                |    |      |          |              |        |      |        |
| CEILING TYPESArea X BWPM = Points                              |          |       |        | Type R-Value Area X WPM X WCM = Points                    |    |      |          |              |        |      |        |
| Under Attic                                                    | 1500.0   | 2.05  | 3075.0 | Under Attic                                               |    | 30.0 | 1754.0   | 2.05 X 1.00  | 3595.7 |      |        |
| Base Total: 1500.0 3075.0                                      |          |       |        | As-Built Total: 1754.0 3595.7                             |    |      |          |              |        |      |        |
| FLOOR TYPES Area X BWPM = Points                               |          |       |        | Type R-Value Area X WPM = Points                          |    |      |          |              |        |      |        |
| Slab                                                           | 196.0(p) | 8.9   | 1744.4 | Slab-On-Grade Edge Insulation                             |    | 0.0  | 196.0(p) | 18.80        | 3684.8 |      |        |
| Raised                                                         | 0.0      | 0.00  | 0.0    |                                                           |    |      |          |              |        |      |        |
| Base Total: 1744.4                                             |          |       |        | As-Built Total: 196.0 3684.8                              |    |      |          |              |        |      |        |

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 96, Sub: Emerald cove, Plat: , Lake City, FL,PERMIT #:

| BASE                              |   |                   |                  | AS-BUILT                                                                                                                                 |   |                            |                                                                            |
|-----------------------------------|---|-------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------|----------------------------------------------------------------------------|
| INFILTRATION Area X BWPM = Points |   |                   |                  | Area X WPM = Points                                                                                                                      |   |                            |                                                                            |
| 1500.0 -0.59 -885.0               |   |                   |                  | 1500.0 -0.59 -885.0                                                                                                                      |   |                            |                                                                            |
| Winter Base Points: 12604.1       |   |                   |                  | Winter As-Built Points: 17039.8                                                                                                          |   |                            |                                                                            |
| Total Winter Points               | X | System Multiplier | = Heating Points | Total Component (System - Points)                                                                                                        | X | Cap Ratio (DM x DSM x AHU) | X Duct Multiplier X System Multiplier X Credit Multiplier = Heating Points |
| 12604.1                           |   | 0.6274            | 7907.8           | (sys 1: Electric Heat Pump 34000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 17039.8 1.000 (1.069 x 1.169 x 1.00) 0.432 1.000 9191.5 |   | 1.00 1.250 0.432 1.000     | 17039.8 1.00 1.250 0.432 1.000 9191.5                                      |

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 96, Sub: Emerald cove, Plat: , Lake City, FL,

PERMIT #:

| BASE               |   |            |   |        | AS-BUILT        |      |                    |   |              |                           |
|--------------------|---|------------|---|--------|-----------------|------|--------------------|---|--------------|---------------------------|
| WATER HEATING      |   |            |   |        |                 |      |                    |   |              |                           |
| Number of Bedrooms | X | Multiplier | = | Total  | Tank Volume     | EF   | Number of Bedrooms | X | Tank X Ratio | Credit = Total Multiplier |
| 3                  |   | 2635.00    |   | 7905.0 | 40.0            | 0.93 | 3                  |   | 1.00         | 2606.67                   |
|                    |   |            |   |        | As-Built Total: |      |                    |   |              | 7820.0                    |

| CODE COMPLIANCE STATUS |   |                |                |                |   |                |                |
|------------------------|---|----------------|----------------|----------------|---|----------------|----------------|
| BASE                   |   |                |                | AS-BUILT       |   |                |                |
| Cooling Points         | + | Heating Points | = Total Points | Cooling Points | + | Heating Points | = Total Points |
| 7793                   |   | 7908           | 7905           | 23606          |   | 6580           | 9191           |
|                        |   |                |                |                |   | 7820           | 23591          |

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 96, Sub: Emerald cove, Plat: , Lake City, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

| COMPONENTS                    | SECTION         | REQUIREMENTS FOR EACH PRACTICE                                                                                                                                                                                                                                                                                                                                                                                            | CHECK |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Exterior Windows & Doors      | 606.1.ABC.1.1   | Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.                                                                                                                                                                                                                                                                                                                                                               |       |
| Exterior & Adjacent Walls     | 606.1.ABC.1.2.1 | Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor.<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.<br>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\* = 82.8**

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

Model Home, Lot: 96, Sub: Emerald cove, Plat: , Lake City, FL,

|                                                                                 |                                          |                                        |                   |
|---------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | New                                      | 12. Cooling systems                    |                   |
| 2. Single family or multi-family                                                | Single family                            | a. Central Unit                        | Cap: 34.0 kBtu/hr |
| 3. Number of units, if multi-family                                             | 1                                        |                                        | SEER: 12.00       |
| 4. Number of Bedrooms                                                           | 3                                        | b. N/A                                 |                   |
| 5. Is this a worst case?                                                        | Yes                                      | c. N/A                                 |                   |
| 6. Conditioned floor area (ft <sup>2</sup> )                                    | 1500 ft <sup>2</sup>                     |                                        |                   |
| 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: 34.0 kBtu/hr |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 122.0 ft <sup>2</sup> |                                        | HSPF: 7.90        |
| b. SHGC:                                                                        |                                          | b. N/A                                 |                   |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 122.0 ft <sup>2</sup>        | c. N/A                                 |                   |
| 8. Floor types                                                                  |                                          | 14. Hot water systems                  |                   |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 196.0(p) ft                       | a. Electric Resistance                 | Cap: 40.0 gallons |
| b. N/A                                                                          |                                          |                                        | EF: 0.93          |
| c. N/A                                                                          |                                          | b. N/A                                 |                   |
| 9. Wall types                                                                   |                                          | c. Conservation credits                |                   |
| a. Frame, Wood, Adjacent                                                        | R=13.0, 172.0 ft <sup>2</sup>            | (HR-Heat recovery, Solar               |                   |
| b. Frame, Wood, Exterior                                                        | R=13.0, 1051.0 ft <sup>2</sup>           | DHP-Dedicated heat pump)               |                   |
| c. N/A                                                                          |                                          | 15. HVAC credits                       |                   |
| d. N/A                                                                          |                                          | (CF-Ceiling fan, CV-Cross ventilation, |                   |
| e. N/A                                                                          |                                          | HF-Whole house fan,                    |                   |
| 10. Ceiling types                                                               |                                          | PT-Programmable Thermostat,            |                   |
| a. Under Attic                                                                  | R=30.0, 1754.0 ft <sup>2</sup>           | MZ-C-Multizone cooling,                |                   |
| b. N/A                                                                          |                                          | MZ-H-Multizone heating)                |                   |
| c. N/A                                                                          |                                          |                                        |                   |
| 11. Ducts                                                                       |                                          |                                        |                   |
| a. Sup: Unc. Ret: Unc. AH: Garage                                               | Sup. R=6.0, 150.0 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: Chen W. Cy Date: 11-17-05

Address of New Home: 146 SW TIMBERLAND CT. City/FL Zip: LAKE CITY, FL



*\*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: FLRCSB v4.0)

# BUILDING INPUT SUMMARY REPORT

|          |                                         |                               |                        |                |                               |           |         |           |                    |             |                     |                       |                      |                   |               |
|----------|-----------------------------------------|-------------------------------|------------------------|----------------|-------------------------------|-----------|---------|-----------|--------------------|-------------|---------------------|-----------------------|----------------------|-------------------|---------------|
| PROJECT  | Title: TheSamuelModel510318             |                               | Family Type: Single    |                | Address Type: Lot Information |           |         |           |                    |             |                     |                       |                      |                   |               |
|          | Owner: Model Home                       |                               | New/Existing: New      |                | Lot #: 96                     |           |         |           |                    |             |                     |                       |                      |                   |               |
|          | # of Units: 1                           |                               | Bedrooms: 3            |                | Subdivision: Emerald cove     |           |         |           |                    |             |                     |                       |                      |                   |               |
|          | Builder Name: Bryan Zecher Construction |                               | Conditioned Area: 1500 |                | Platbook: (blank)             |           |         |           |                    |             |                     |                       |                      |                   |               |
|          | Climate: North                          |                               | Total Stories: 1       |                | Street: N/A                   |           |         |           |                    |             |                     |                       |                      |                   |               |
|          | Permit Office: (blank)                  |                               | Worst Case: Yes        |                | County: (blank)               |           |         |           |                    |             |                     |                       |                      |                   |               |
|          | Jurisdiction #: (blank)                 |                               | Rotate Angle: (blank)  |                | City, St, Zip: Lake City, FL, |           |         |           |                    |             |                     |                       |                      |                   |               |
| FLOORS   | #                                       | Floor Type                    | R-Val                  | Area/Perimeter | Units                         | DOORS     | #       | Door Type | Orientation        | Area        | Units               |                       |                      |                   |               |
|          | 1                                       | Slab-On-Grade Edge Insulation | 0.0                    | 196.0(p) ft    | 1                             |           | 1       | Insulated | Exterior           | 10.0 ft²    | 2                   |                       |                      |                   |               |
| CEILINGS | #                                       | Ceiling Type                  | R-Val                  | Area           | Base Area                     | Units     | COOLING | #         | System Type        | Efficiency  | Capacity            |                       |                      |                   |               |
|          | 1                                       | Under Attic                   | 30.0                   | 1754.0 ft²     | 1500.0 ft²                    | 1         |         | 1         | Central Unit       | SEER: 12.00 | 34.0 kBtu/hr        |                       |                      |                   |               |
| WALLS    | #                                       | Wall Type                     | Location               | R-Val          | Area                          | Units     | HEATING | #         | System Type        | Efficiency  | Capacity            |                       |                      |                   |               |
|          | 1                                       | Frame - Wood                  | Adjacent               | 13.0           | 172.0 ft²                     | 1         |         | 1         | Electric Heat Pump | COP: 7.90   | 34.0 kBtu/hr        |                       |                      |                   |               |
| WINDOWS  | #                                       | Panes                         | Tint                   | Ornt           | Area                          | OH Length | OH Hght | Units     | DUCTS              | #           | Supply Location     | Return Location       | Air Handler Location | Supply R-Val      | Supply Length |
|          | 1                                       | Double                        | Clear                  | N              | 15.0 ft²                      | 2.0 ft    | 5.5 ft  | 3         |                    | 1           | Uncond.             | Uncond.               | Garage               | 6.0               | 150.0 ft      |
|          | 2                                       | Double                        | Clear                  | NE             | 10.0 ft²                      | 14.5 ft   | 7.0 ft  | 1         | WATER              | #           | System Type         | EF                    | Cap.                 | Conservation Type | Con. EF       |
|          | 3                                       | Double                        | Clear                  | N              | 15.0 ft²                      | 12.0 ft   | 5.3 ft  | 3         |                    | 1           | Electric Resistance | 0.93                  | 40.0                 | None              | 0.00          |
|          | 4                                       | Double                        | Clear                  | NW             | 10.0 ft²                      | 8.5 ft    | 7.0 ft  | 1         | REFR.              | #           | Use Default?        | Annual Operating Cost | Electric Rate        |                   |               |
|          | 5                                       | Double                        | Clear                  | E              | 3.0 ft²                       | 2.0 ft    | 1.5 ft  | 1         |                    | 1           | Yes                 | N/A                   | N/A                  |                   |               |
|          | 6                                       | Double                        | Clear                  | S              | 6.0 ft²                       | 9.5 ft    | 7.5 ft  | 1         |                    |             |                     |                       |                      |                   |               |
|          | 7                                       | Double                        | Clear                  | S              | 15.0 ft²                      | 2.0 ft    | 5.5 ft  | 2         |                    |             |                     |                       |                      |                   |               |
|          | 8                                       | Double                        | Clear                  | S              | 15.0 ft²                      | 2.0 ft    | 8.0 ft  | 2         |                    |             |                     |                       |                      |                   |               |
|          | 9                                       | Double                        | Clear                  | W              | 3.0 ft²                       | 1.5 ft    | 3.5 ft  | 1         |                    |             |                     |                       |                      |                   |               |
|          | 10                                      | Double                        | Clear                  | N              | 15.0 ft²                      | 1.5 ft    | 5.5 ft  | 2         |                    |             |                     |                       |                      |                   |               |
| 11       | Double                                  | Clear                         | E                      | 15.0 ft²       | 1.5 ft                        | 5.5 ft    | 2       |           |                    |             |                     |                       |                      |                   |               |

**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000000904**

DATE 11/30/2005 PARCEL ID # 33-3S-16-02438-196  
APPLICANT SUSAN FAIR PHONE 752-1711  
ADDRESS 180 NW AMENITY COURT LAKE CITY FL 32055  
OWNER CORNERSTONE DEVELOPERS PHONE 752-1711  
ADDRESS 146 SW TIMBERLAND COURT LAKE CITY FL 32055  
CONTRACTOR BRYAN ZECHER PHONE 752-8653  
LOCATION OF PROPERTY 90W, TL ON HEATHRIDGE COURT, TR ON TIMBERLAND, 2ND ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT EMERALD COVE 96 1

SIGNATURE *Susan Fair*

**INSTALLATION REQUIREMENTS**



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

INSTALLATION NOTE: Turnouts will be required as follows:

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_

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

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

**Amount Paid 25.00**





Dwg.#1103051102

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

**License Information**

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

Special Qualifications

Effective Date

Bldg Code Core Course Credit

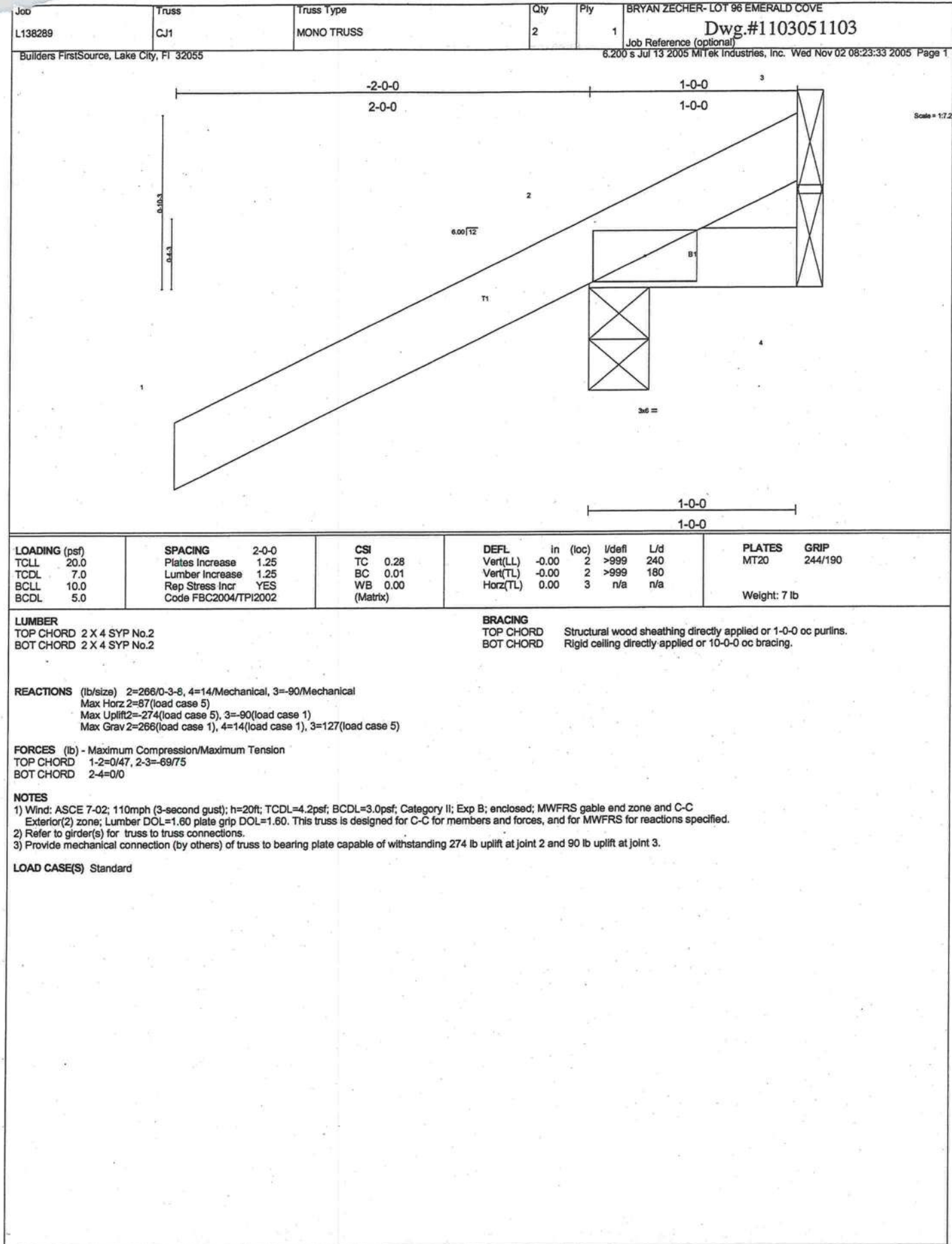
Qualified Business License  
Required

04/13/2004

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NOVEMBER 03, 2005 TRUSS DESIGN ENGINEER:  
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
STRUCTURAL ENGINEERING INC (NATIONAL) PE 9119  
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

10/11/2004

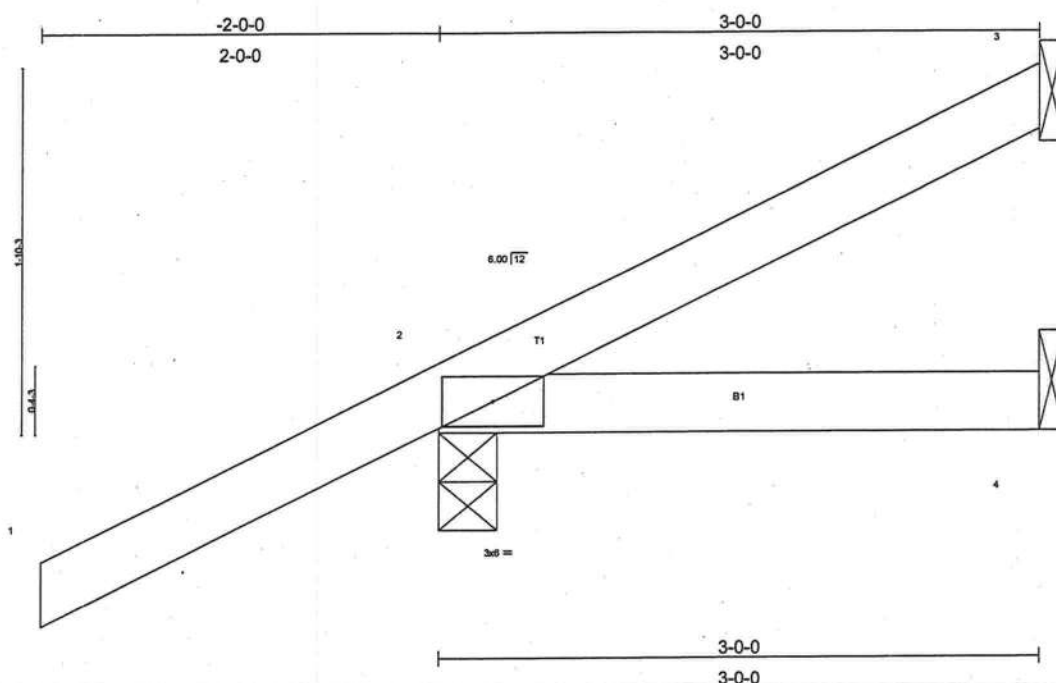


NOVEMBER 03,2005 TRUSS DESIGN ENGINEER:  
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987  
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

|         |       |            |     |     |                                             |
|---------|-------|------------|-----|-----|---------------------------------------------|
| JOB     | Truss | Truss Type | Qty | Ply | BRYAN ZECHER- LOT 96 EMERALD COVE           |
| L138289 | CJ3   | MONO TRUSS | 2   | 1   | Dwg.#1103051104<br>Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

6.200 s Jul 13 2005 Miltek Industries, Inc. Wed Nov 02 08:23:33 2005 Page 1



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

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

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

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

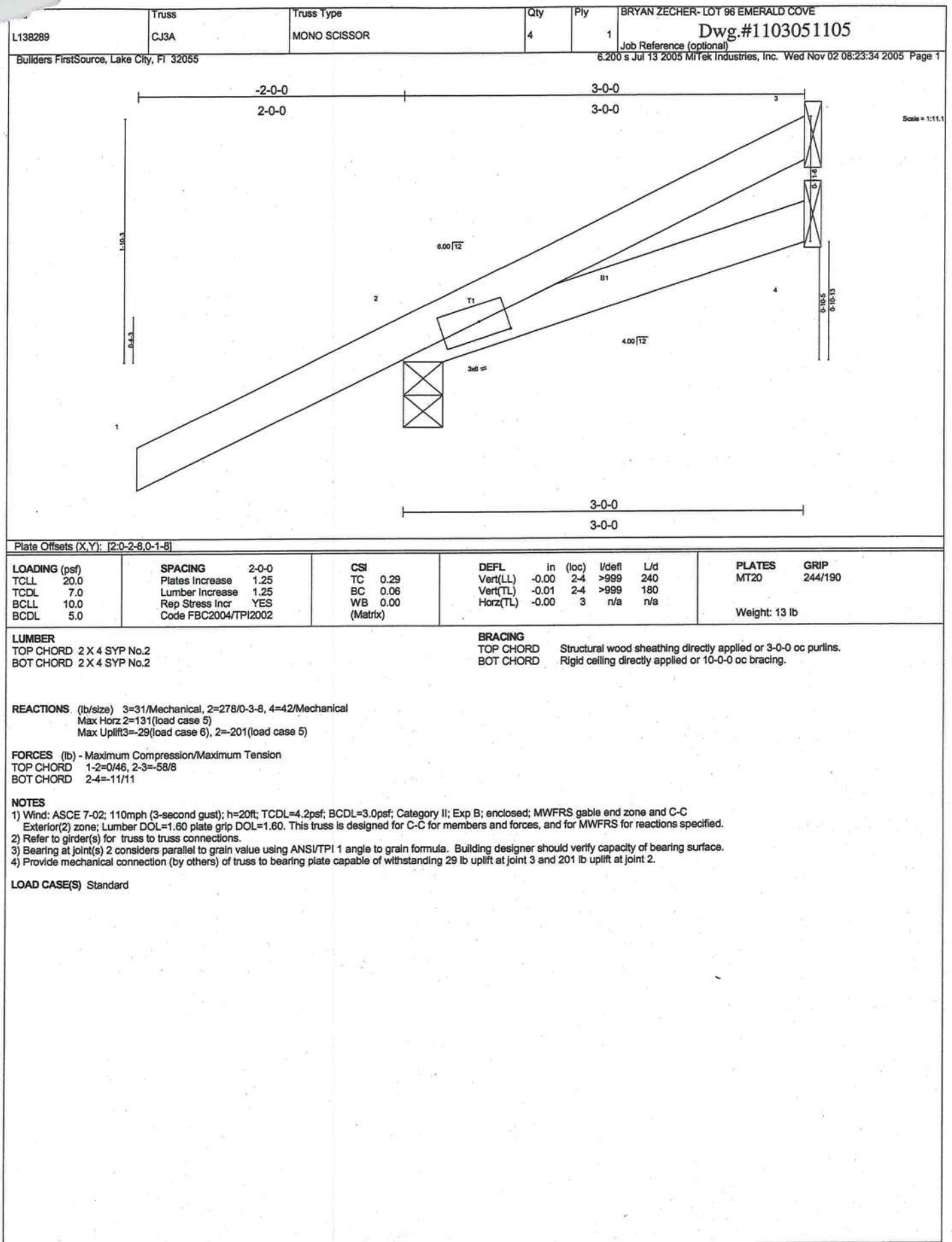
FORCES (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/47, 2-3=-57/7  
BOT CHORD 2-4=0/0

**NOTES**

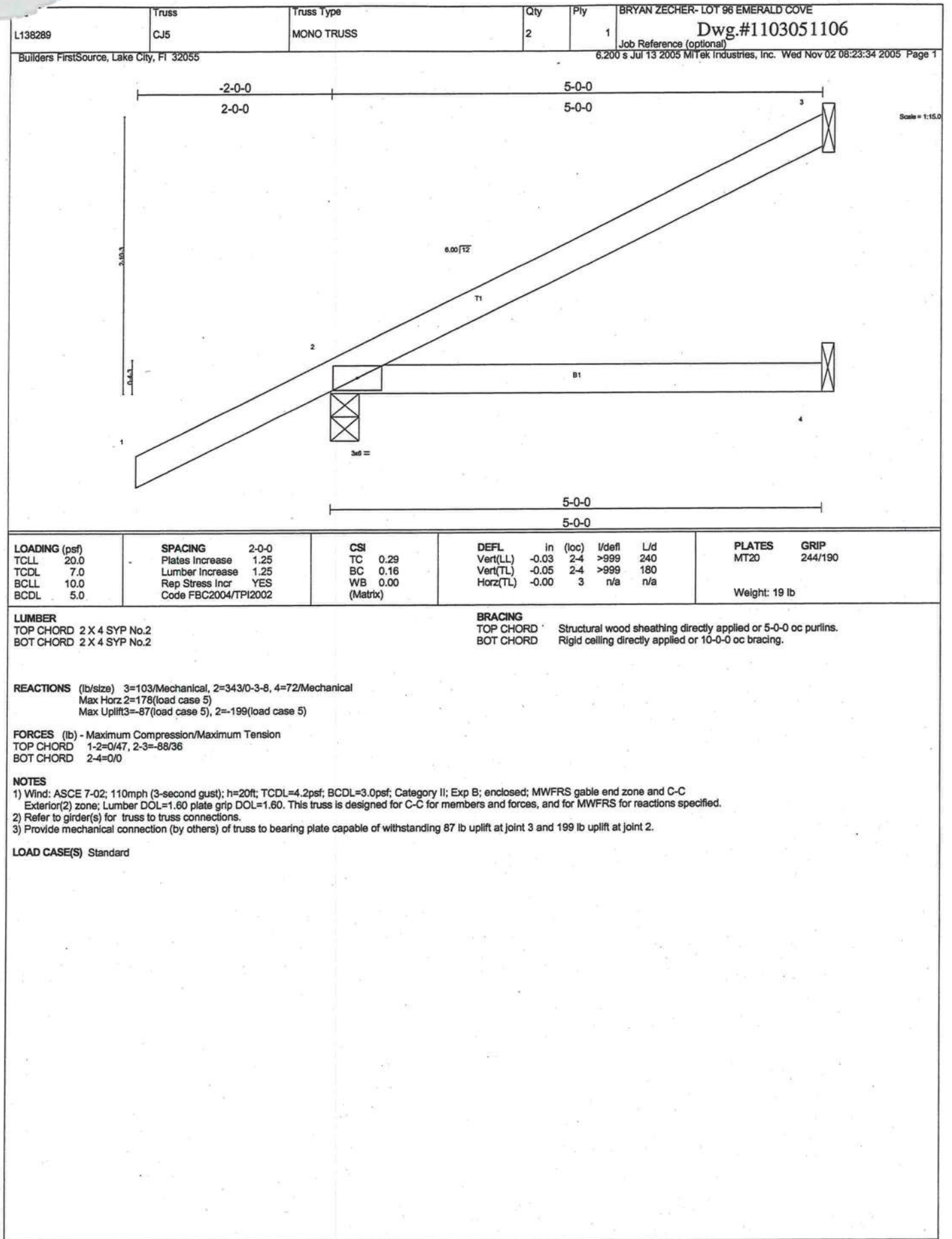
- 1) Wind: ASCE 7-02; 110mph (3-second gust);  $h=20ft$ ;  $TCDL=4.2psf$ ;  $BCDL=3.0psf$ ; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber  $DOL=1.60$  plate grip  $DOL=1.60$ . This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.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

LOAD CASE(S) Standard

**NOVEMBER 03, 2005 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**



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Builders FirstSource, Lake City, FL 32055 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Nov 02 08:23:35 2005 Page 1



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

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

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

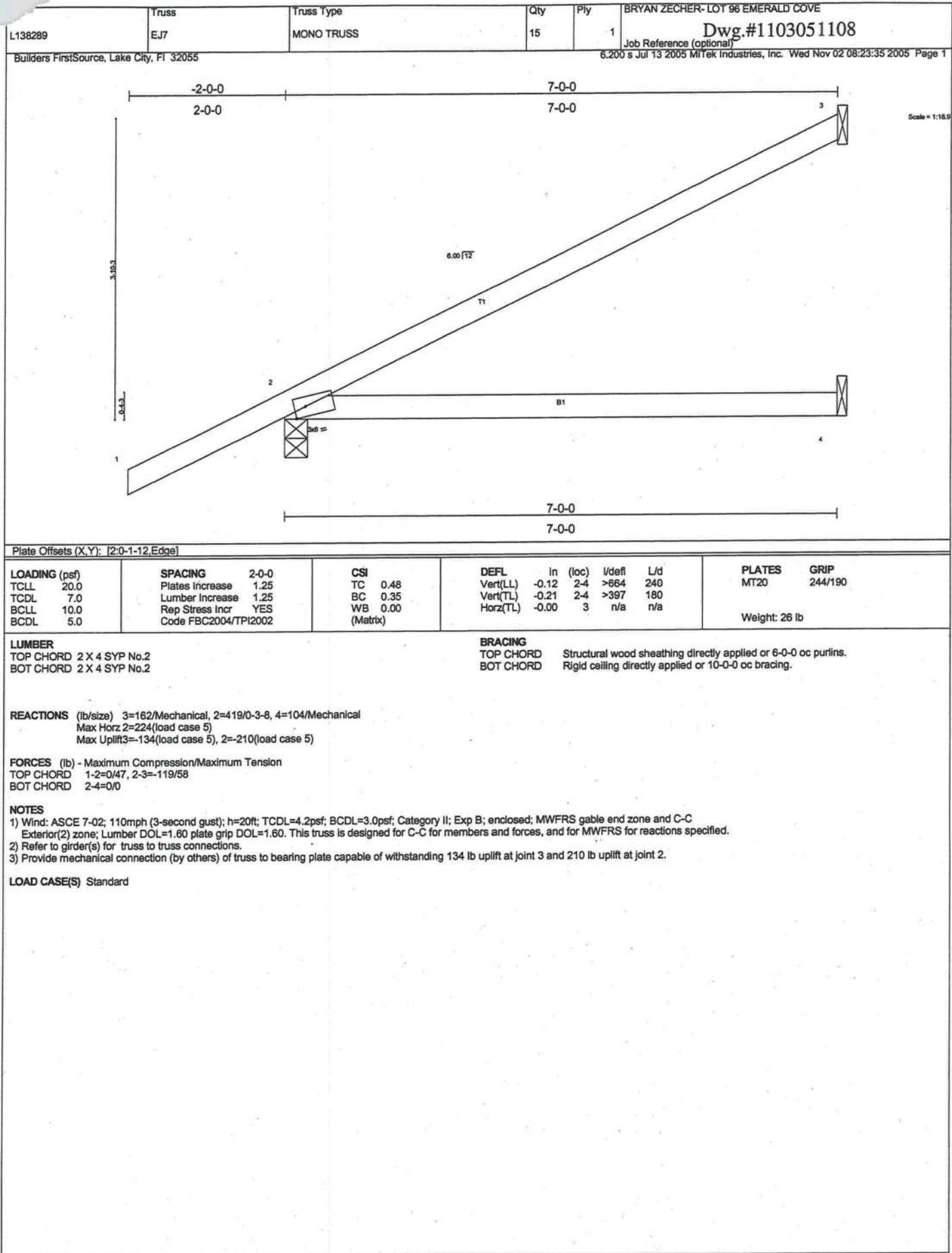
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf, BCDF=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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

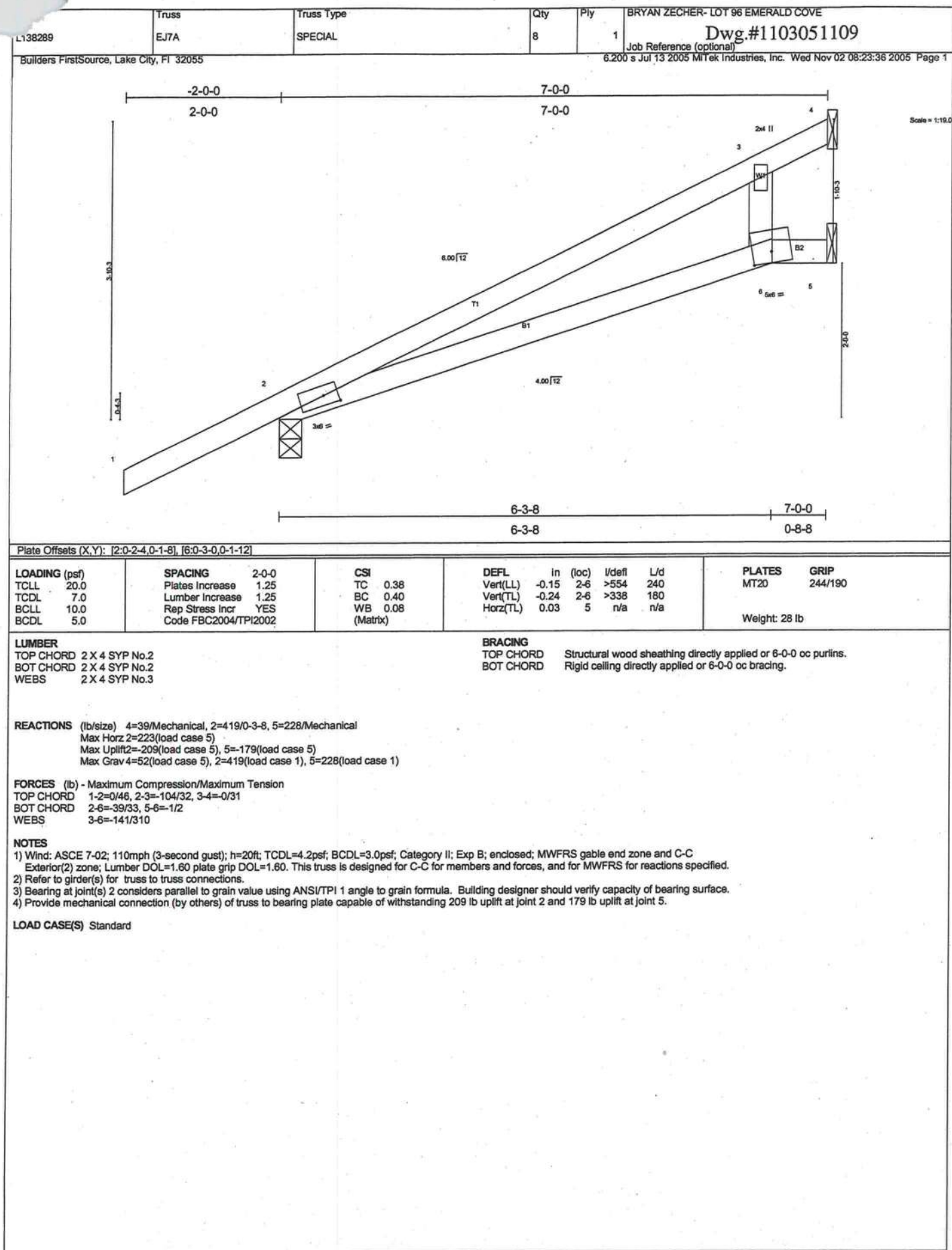
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 3 and 198 lb uplift at joint 2.

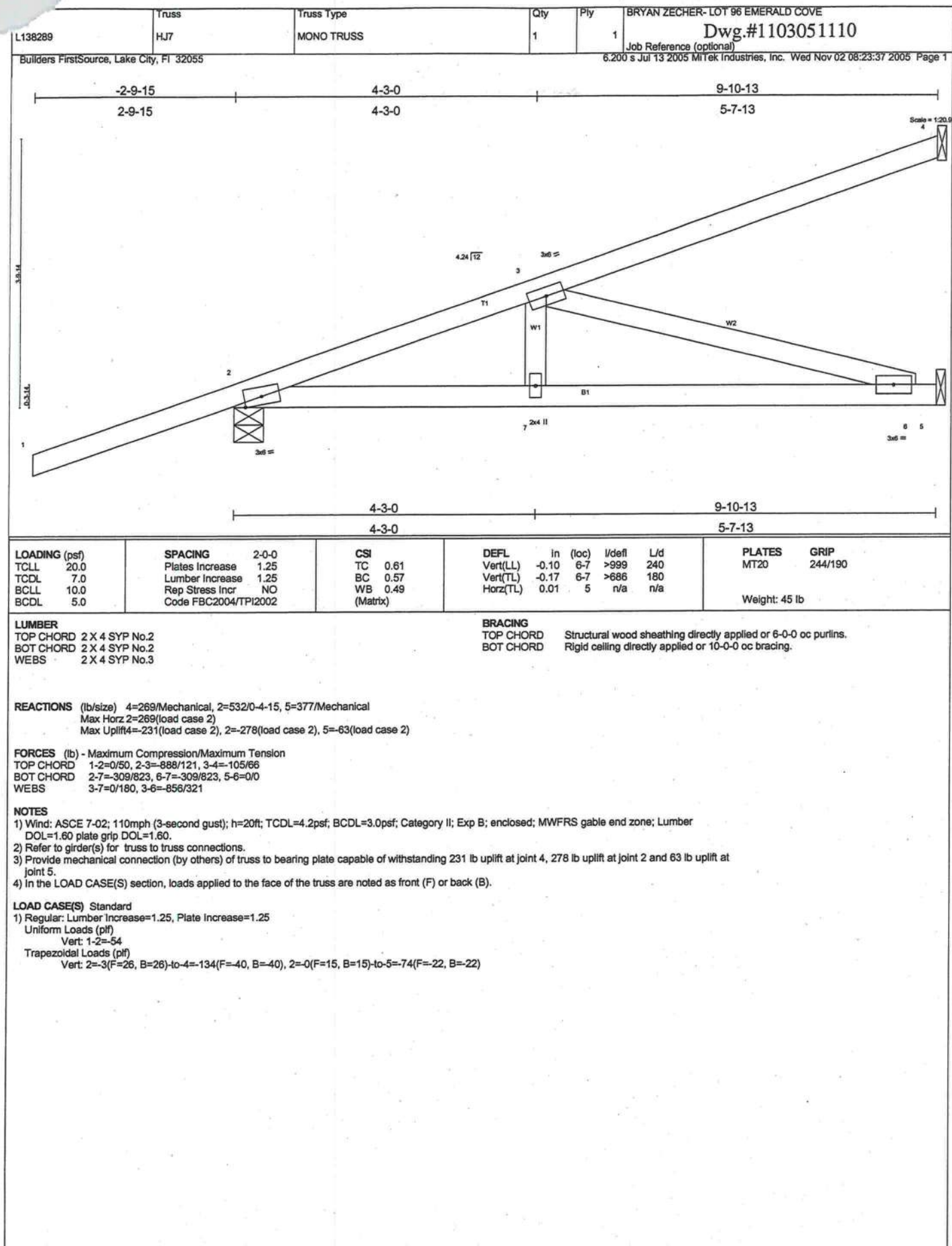
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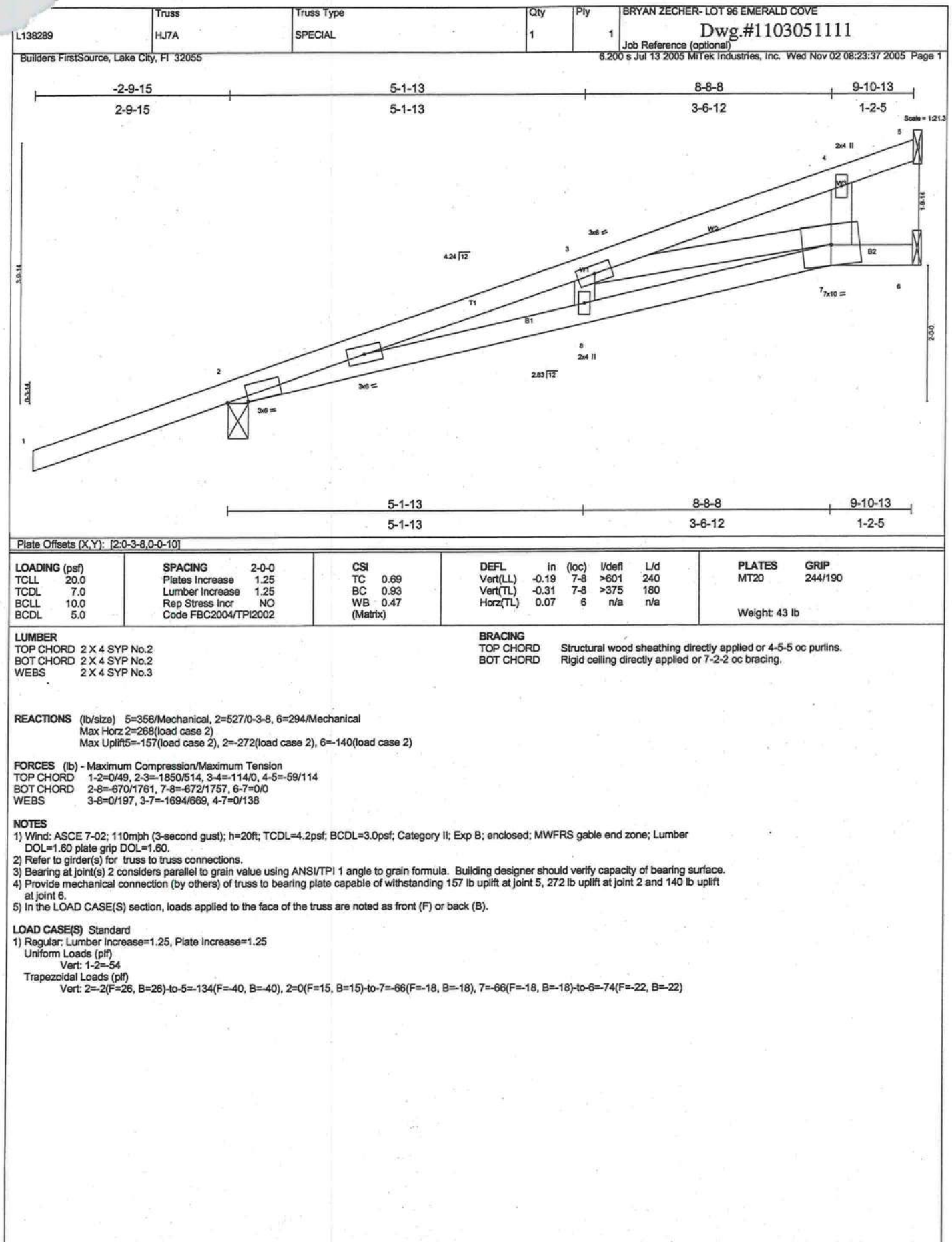
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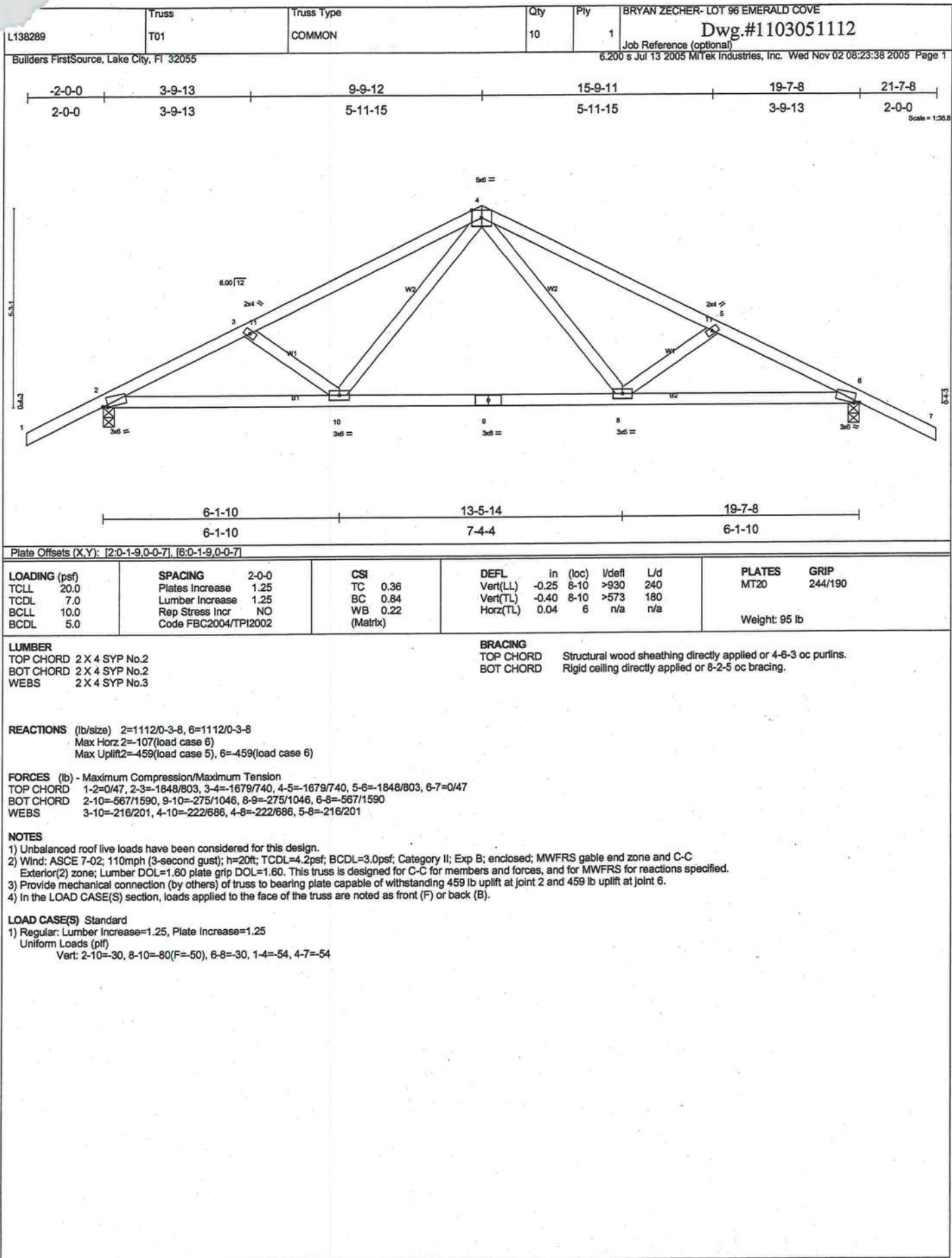
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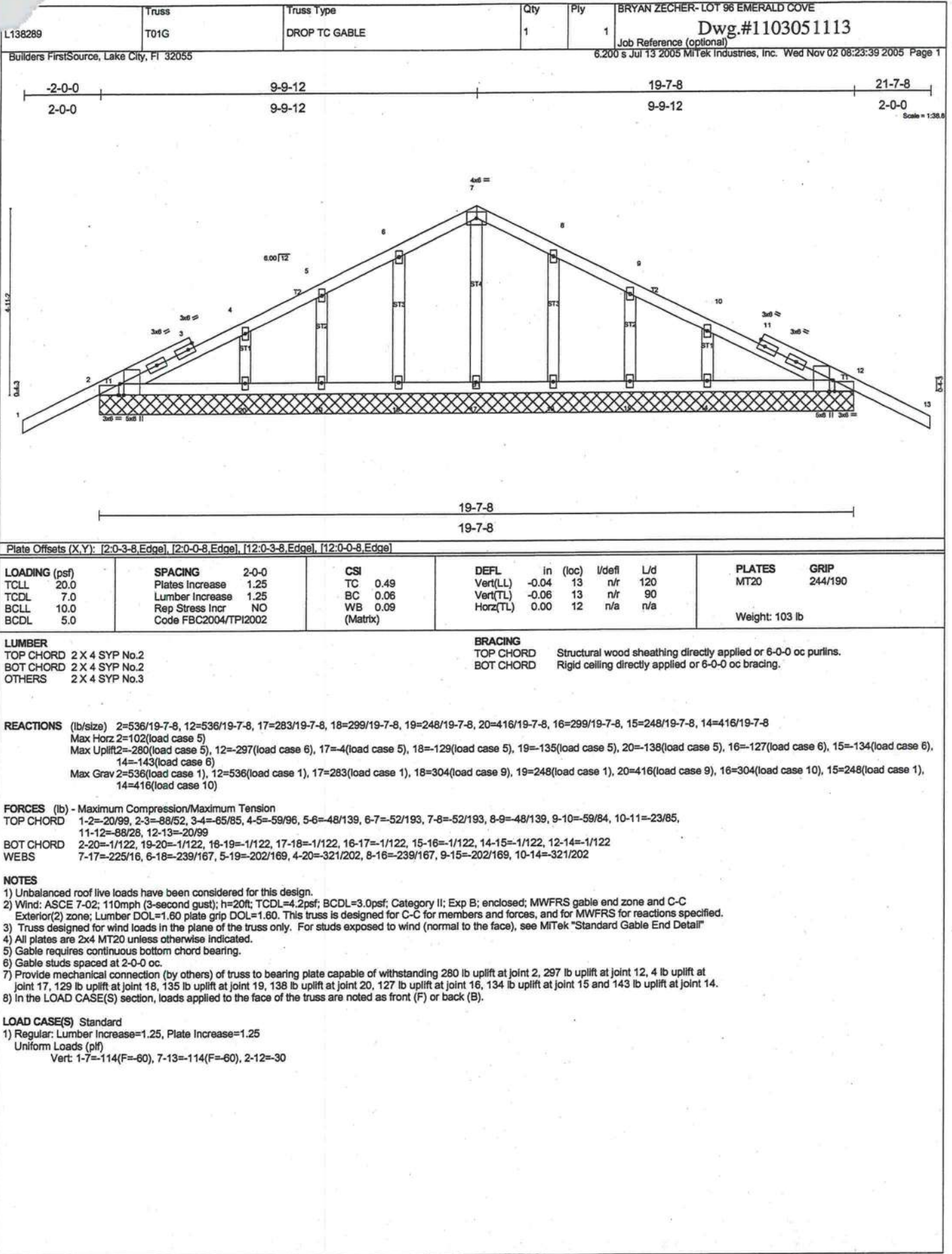
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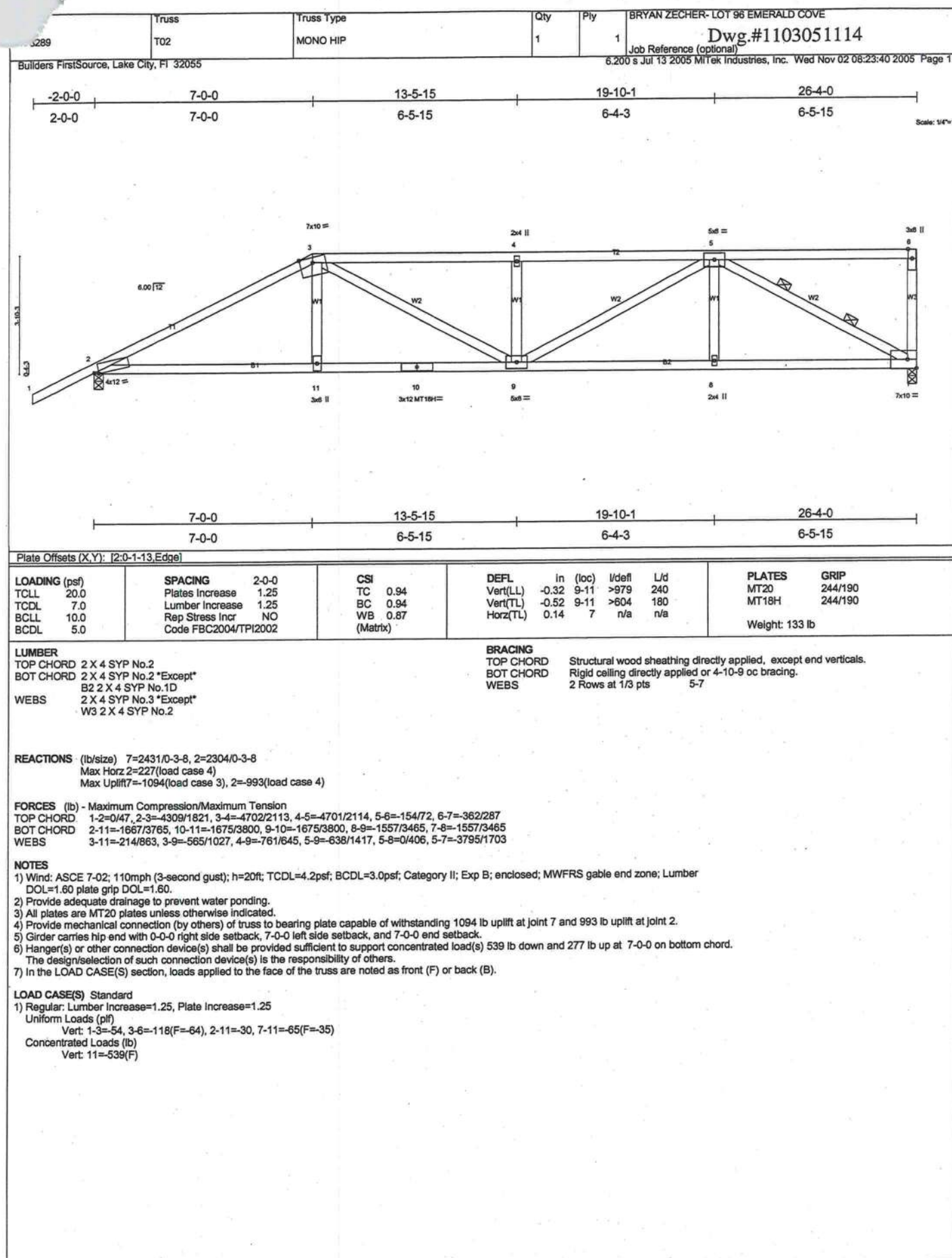


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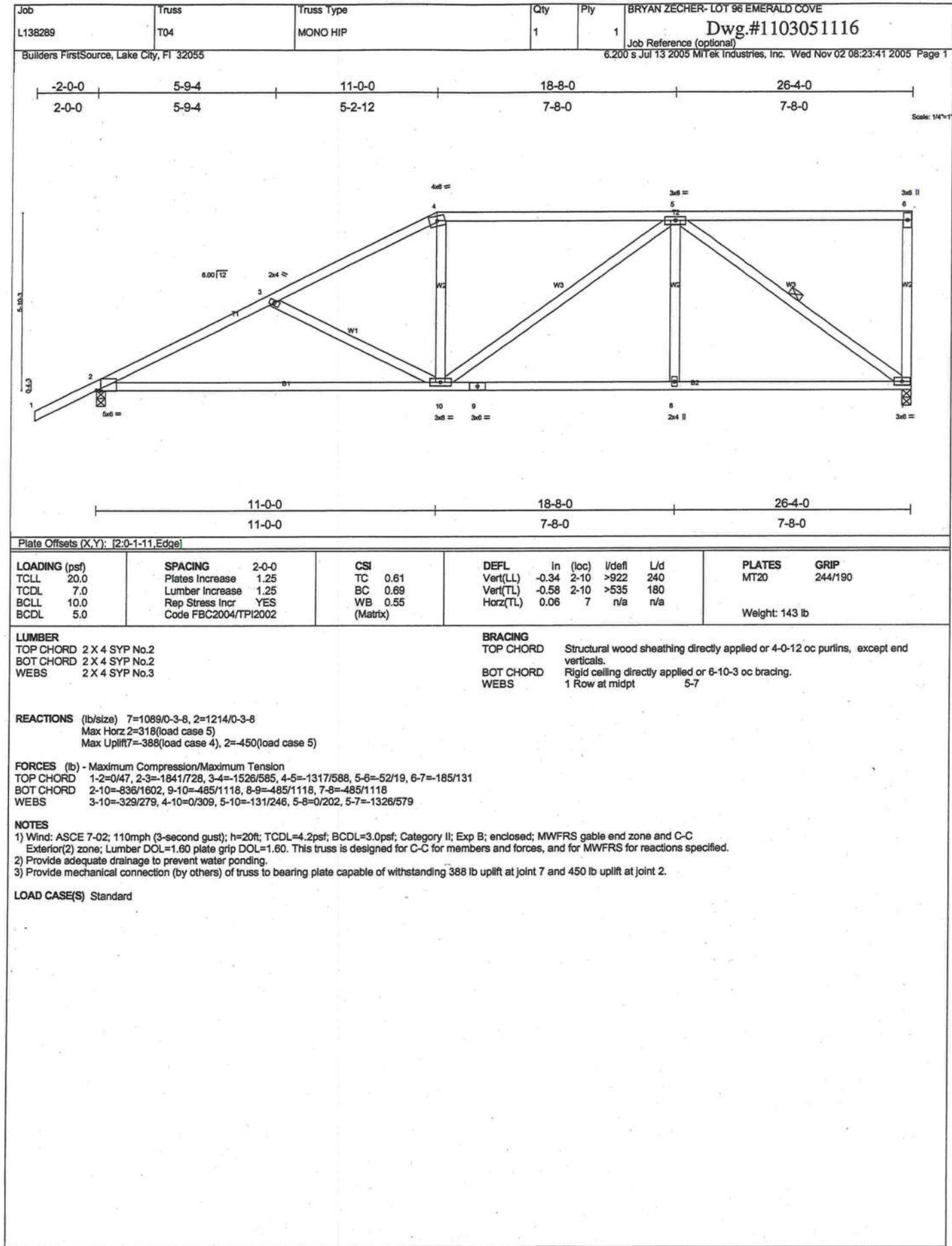
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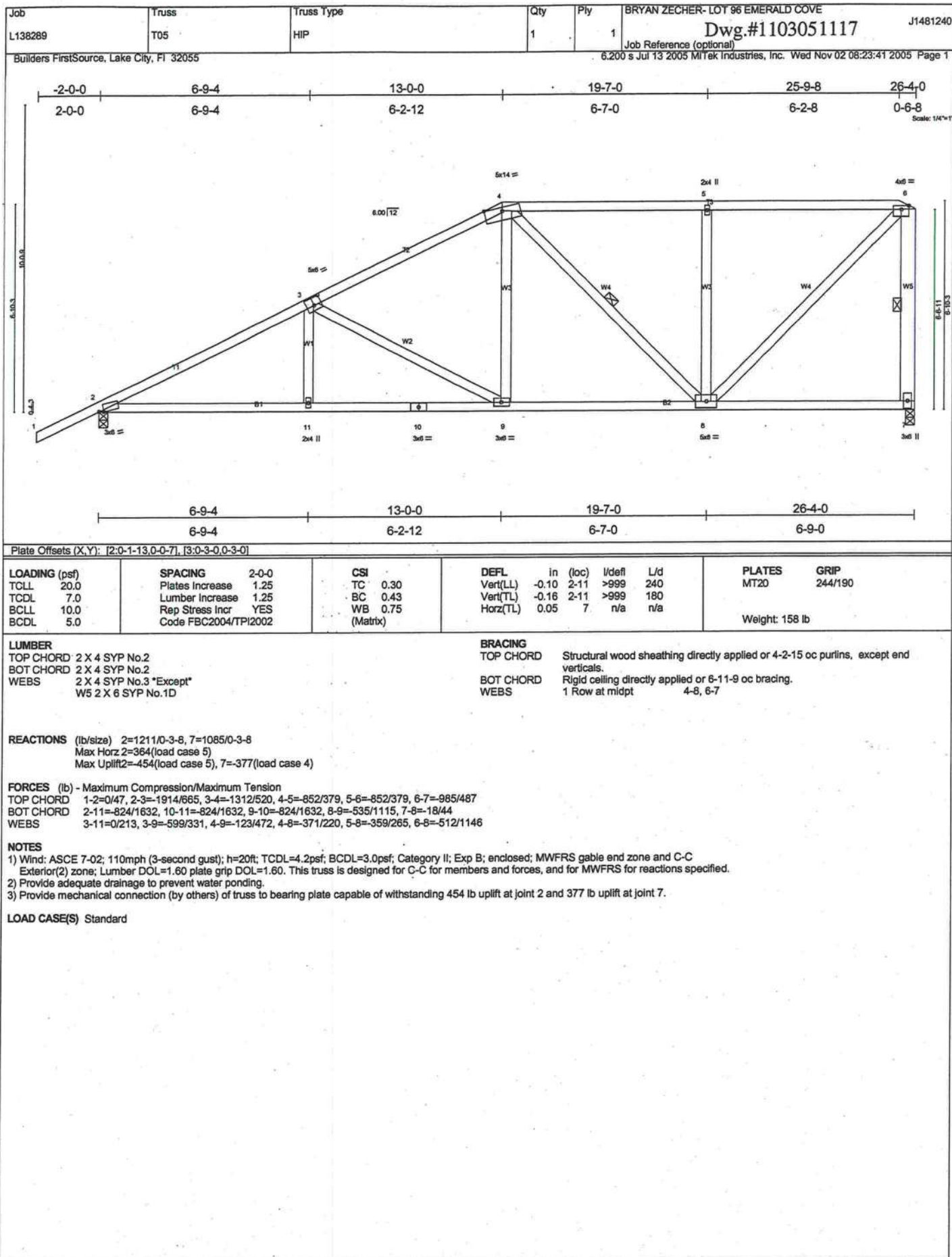




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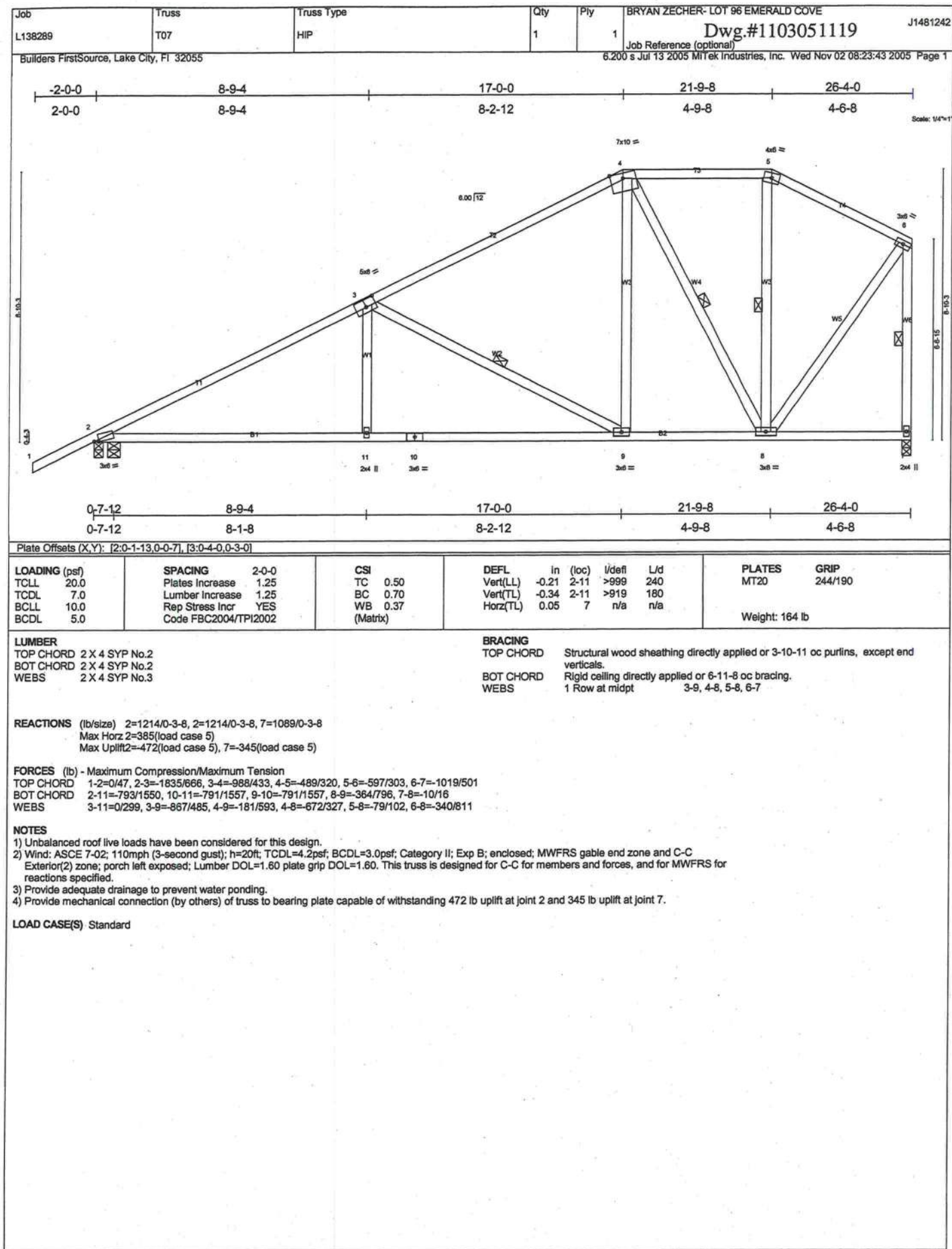




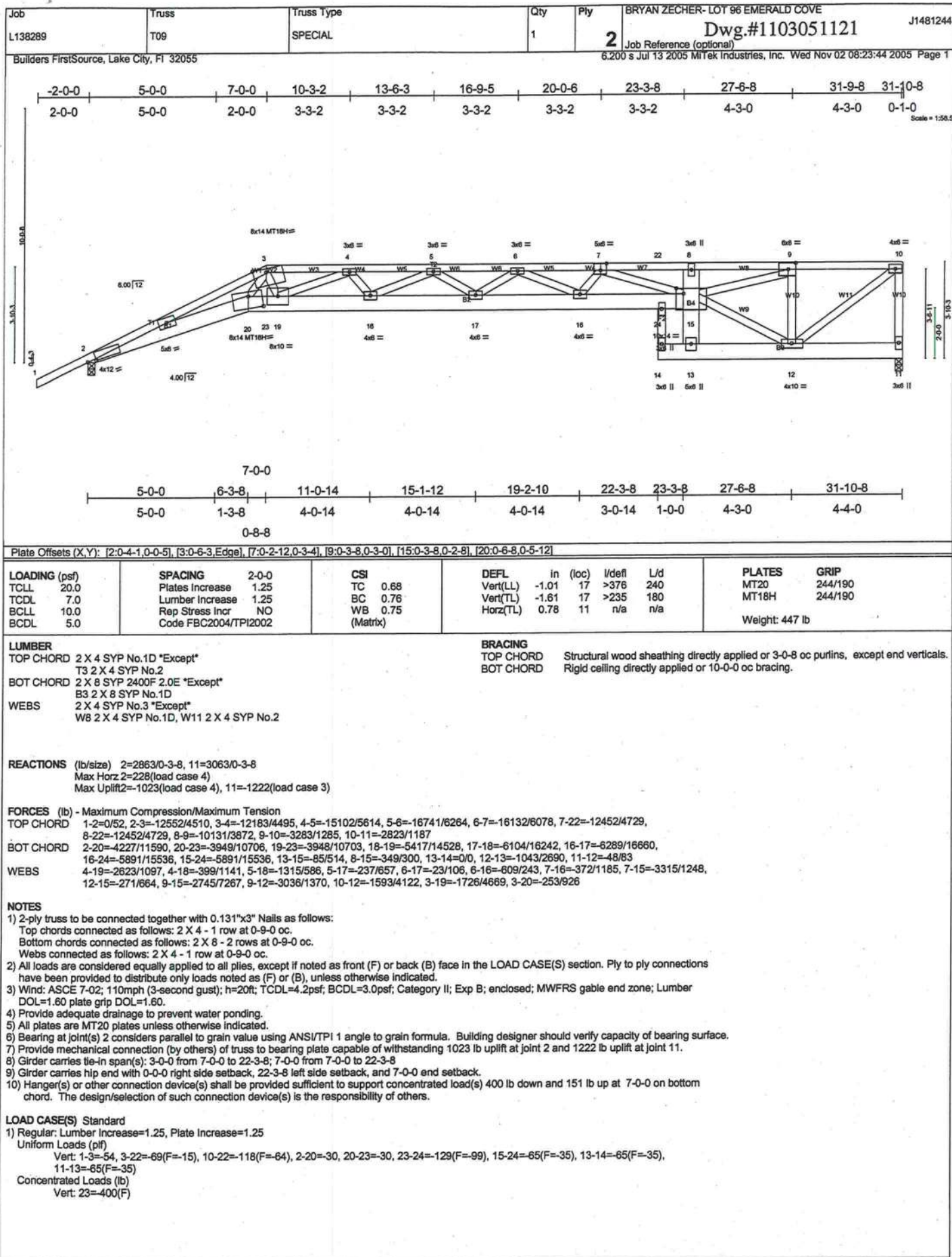


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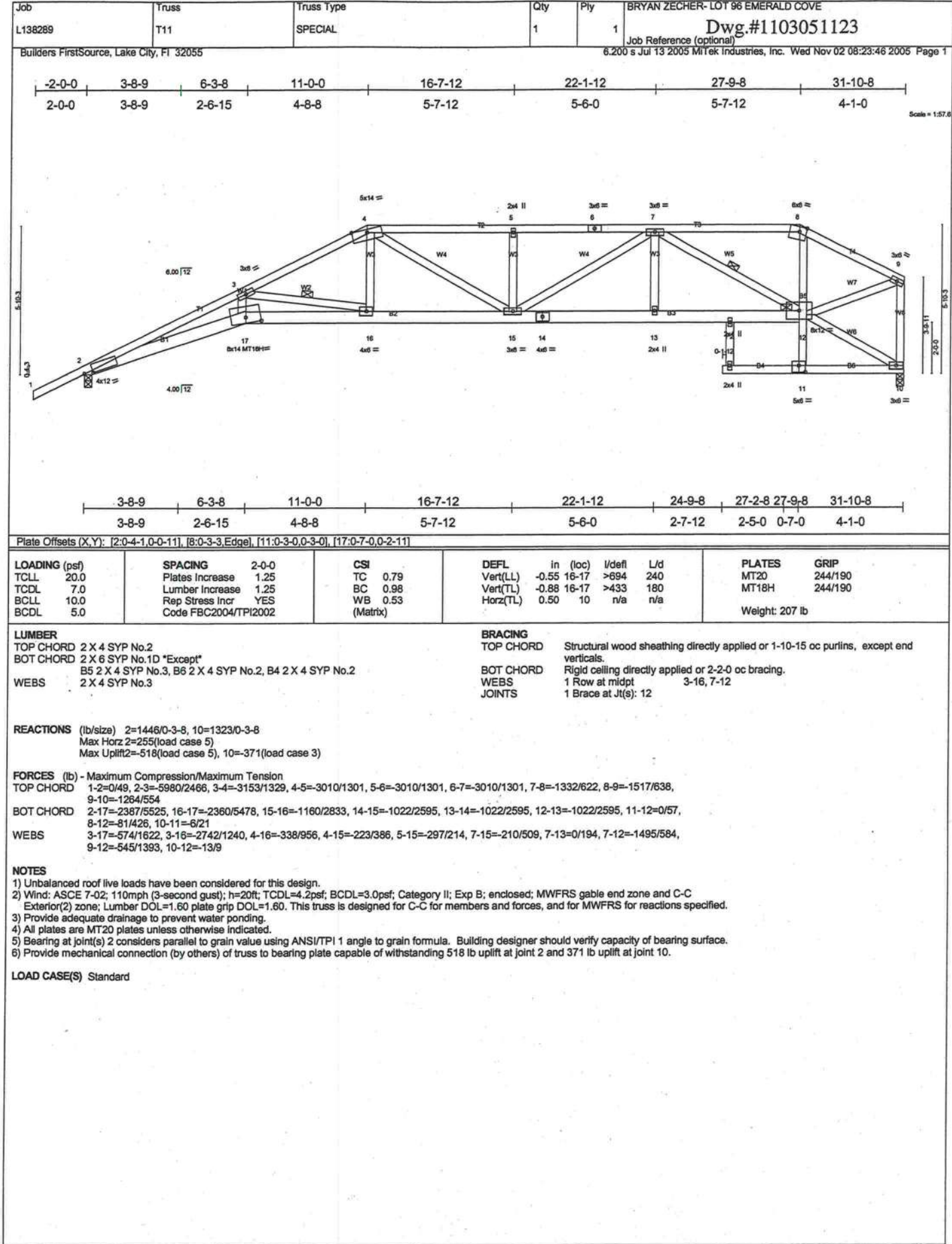




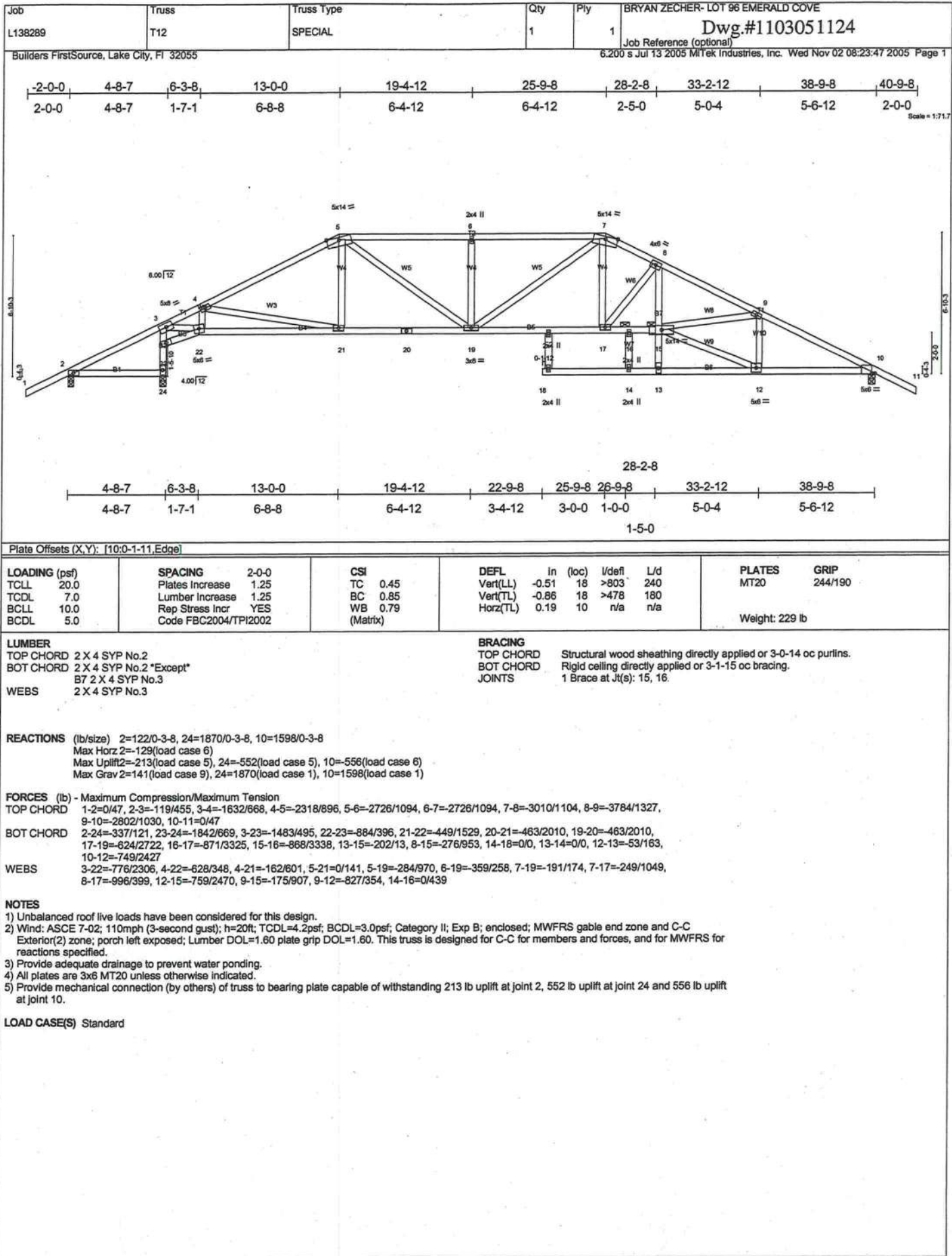








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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196  
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549



Job

L138289

Truss

T13

Truss Type

SPECIAL

Qty

1

Ply

1

BRYAN ZECHER- LOT 96 EMERALD COVE

Dwg.#1103051125

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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-2-0-0

2-0-0

6-3-8

6-3-8

10-7-12

4-4-4

15-0-0

4-4-4

19-4-12

4-4-12

23-9-8

4-4-12

28-2-8

4-5-0

33-2-12

5-0-4

38-9-8

5-6-12

40-9-8

2-0-0

Scale = 1:71.7

Truss diagram showing a gabled roof structure. Members are labeled W1 through W9. Dimensions for plate offsets (X,Y) are provided: [8:0-3-5-0-0-11], [10:0-3-8,0-1-8].

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

Weight: 231 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2 \*Except\*

WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-11 oc purlins.

BOT CHORD Rigid ceiling directly applied or 4-0-13 oc bracing.

JOINTS 1 Brace at Jt(s): 13, 14

REACTIONS (lb/size) 2=323/0-3-8, 22=1723/0-3-8, 8=1544/0-3-8

Max Horz 2=143(load case 6)

Max Uplift 2=282(load case 5), 22=557(load case 5), 8=563(load case 6)

Max Grav 2=332(load case 9), 22=1723(load case 1), 8=1544(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=50/262, 3-4=1761/734, 4-5=1974/858, 5-6=2423/951, 6-7=3642/1276, 7-8=2683/1005, 8-9=0/47

BOT CHORD 2-22=31/0, 21-22=1633/604, 3-21=1547/608, 20-21=148/86, 19-20=355/1686, 18-19=354/1690, 17-18=354/1690, 15-17=455/2172, 14-15=835/3215, 13-14=830/3234, 11-13=135/28, 6-13=234/1075, 12-16=0/0, 11-12=0/0, 10-11=68/99, 8-10=727/2322

WEBS 3-20=163/1473, 4-20=329/102, 4-19=0/148, 4-17=78/539, 5-17=401/107, 5-15=226/926, 6-15=1297/469, 10-13=719/2426, 7-13=122/885, 7-10=815/337, 12-14=0/377

NOTES

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

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

3) Provide adequate drainage to prevent water ponding.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 2, 557 lb uplift at joint 22 and 563 lb uplift at joint 8.

LOAD CASE(S) Standard

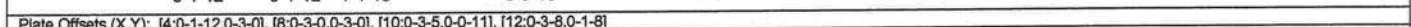
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LOAD CASE(S) Standard

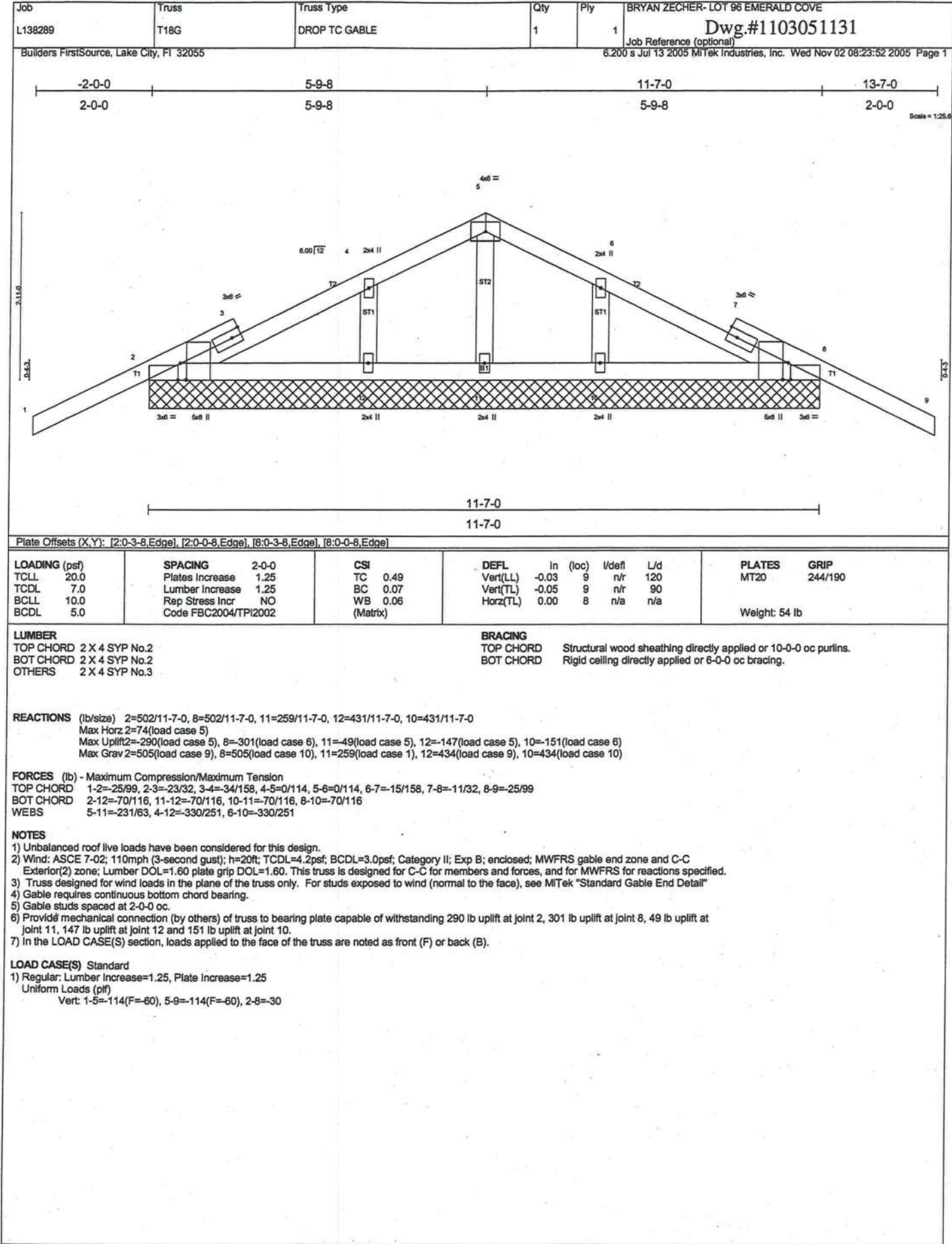
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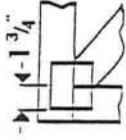




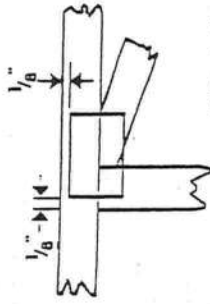


## Symbols

### PLATE LOCATION AND ORIENTATION



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



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



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

### PLATE SIZE

4 x 4

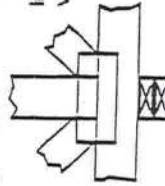
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING



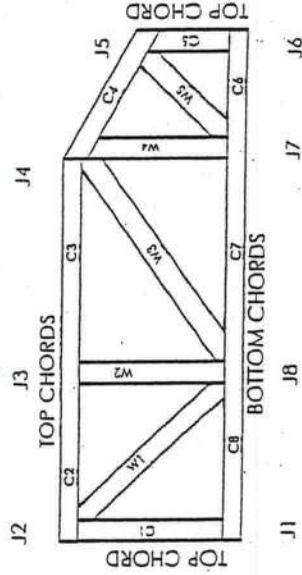
Indicates location of required continuous lateral bracing.

### BEARING



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

## Numbering System

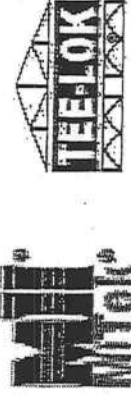


JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

### CONNECTOR PLATE CODE APPROVALS

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



MITek Engineering Reference Sheet: MII-7473

## General Safety Notes

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

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

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# Residential System Sizing Calculation

## Summary

Model Home

Project Title:  
TheSamuelModel

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

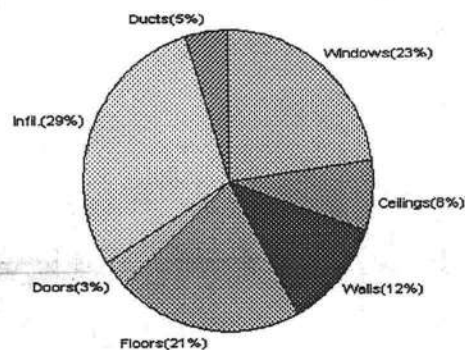
11/7/2005

|                                                                                    |                   |                                       |                   |
|------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)      |                   |                                       |                   |
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.) |                   |                                       |                   |
| Winter design temperature                                                          | 31 F              | Summer design temperature             | 93 F              |
| Winter setpoint                                                                    | 70 F              | Summer setpoint                       | 75 F              |
| Winter temperature difference                                                      | 39 F              | Summer temperature difference         | 18 F              |
| <b>Total heating load calculation</b>                                              | <b>29793 Btuh</b> | <b>Total cooling load calculation</b> | <b>28117 Btuh</b> |
| Submitted heating capacity                                                         | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)                                                         | 114.1 34000       | Sensible (SHR = 0.75)                 | 123.5 25500       |
| Heat Pump + Auxiliary(0.0kW)                                                       | 114.1 34000       | Latent                                | 113.9 8500        |
|                                                                                    |                   | Total (Electric Heat Pump)            | 120.9 34000       |

## WINTER CALCULATIONS

Winter Heating Load (for 1500 sqft)

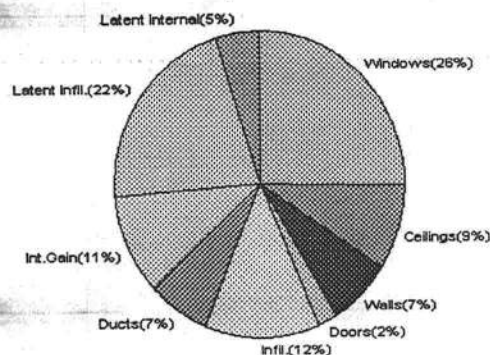
| Load component         |           | Load              |
|------------------------|-----------|-------------------|
| Window total           | 242 sqft  | 6849 Btuh         |
| Wall total             | 1223 sqft | 3533 Btuh         |
| Door total             | 60 sqft   | 921 Btuh          |
| Ceiling total          | 1754 sqft | 2280 Btuh         |
| Floor total            | 196 ft    | 6194 Btuh         |
| Infiltration           | 200 cfm   | 8597 Btuh         |
| <b>Subtotal</b>        |           | <b>28374 Btuh</b> |
| Duct loss              |           | 1419 Btuh         |
| <b>TOTAL HEAT LOSS</b> |           | <b>29793 Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 1500 sqft)

| Load component             |           | Load              |
|----------------------------|-----------|-------------------|
| Window total               | 242 sqft  | 7199 Btuh         |
| Wall total                 | 1223 sqft | 2008 Btuh         |
| Door total                 | 60 sqft   | 608 Btuh          |
| Ceiling total              | 1754 sqft | 2491 Btuh         |
| Floor total                |           | 0 Btuh            |
| Infiltration               | 175 cfm   | 3472 Btuh         |
| Internal gain              |           | 3000 Btuh         |
| <b>Subtotal(sensible)</b>  |           | <b>18778 Btuh</b> |
| Duct gain                  |           | 1878 Btuh         |
| <b>Total sensible gain</b> |           | <b>20656 Btuh</b> |
| Latent gain(infiltration)  |           | 6081 Btuh         |
| Latent gain(internal)      |           | 1380 Btuh         |
| <b>Total latent gain</b>   |           | <b>7461 Btuh</b>  |
| <b>TOTAL HEAT GAIN</b>     |           | <b>28117 Btuh</b> |



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: *Ben L. L. L.*

DATE: *11-7-05*

# System Sizing Calculations - Winter

## Residential Load - Component Details

Model Home

Lake City, FL

Project Title:  
TheSamuelModel

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

11/7/2005

| Window             | Panes/SHGC/Frame/U       | Orientation | Area X          | HTM= | Load      |
|--------------------|--------------------------|-------------|-----------------|------|-----------|
| 1                  | 2, Clear, Metal, DEF     | N           | 45.0            | 28.3 | 1274 Btuh |
| 2                  | 2, Clear, Metal, DEF     | NE          | 10.0            | 28.3 | 283 Btuh  |
| 3                  | 2, Clear, Metal, DEF     | N           | 45.0            | 28.3 | 1274 Btuh |
| 4                  | 2, Clear, Metal, DEF     | NW          | 10.0            | 28.3 | 283 Btuh  |
| 5                  | 2, Clear, Metal, DEF     | E           | 3.0             | 28.3 | 85 Btuh   |
| 6                  | 2, Clear, Metal, DEF     | S           | 6.0             | 28.3 | 170 Btuh  |
| 7                  | 2, Clear, Metal, DEF     | S           | 30.0            | 28.3 | 849 Btuh  |
| 8                  | 2, Clear, Metal, DEF     | S           | 30.0            | 28.3 | 849 Btuh  |
| 9                  | 2, Clear, Metal, DEF     | W           | 3.0             | 28.3 | 85 Btuh   |
| 10                 | 2, Clear, Metal, DEF     | N           | 30.0            | 28.3 | 849 Btuh  |
| 11                 | 2, Clear, Metal, DEF     | E           | 30.0            | 28.3 | 849 Btuh  |
| Window Total       |                          |             | 242             |      | 6849 Btuh |
| Walls              | Type                     | R-Value     | Area X          | HTM= | Load      |
| 1                  | Frame - Adjacent         | 13.0        | 172             | 1.6  | 275 Btuh  |
| 2                  | Frame - Exterior         | 13.0        | 1051            | 3.1  | 3258 Btuh |
| Wall Total         |                          |             | 1223            |      | 3533 Btuh |
| Doors              | Type                     |             | Area X          | HTM= | Load      |
| 1                  | Insulated - Exter        |             | 20              | 18.3 | 367 Btuh  |
| 2                  | Insulated - Exter        |             | 20              | 18.3 | 367 Btuh  |
| 3                  | Insulated - Adjac        |             | 20              | 9.4  | 188 Btuh  |
| Door Total         |                          |             | 60              |      | 921 Btuh  |
| Ceilings           | Type                     | R-Value     | Area X          | HTM= | Load      |
| 1                  | Under Attic              | 30.0        | 1754            | 1.3  | 2280 Btuh |
| Ceiling Total      |                          |             | 1754            |      | 2280 Btuh |
| Floors             | Type                     | R-Value     | Size X          | HTM= | Load      |
| 1                  | Slab-On-Grade Edge Insul | 0           | 196.0 ft(p)     | 31.6 | 6194 Btuh |
| Floor Total        |                          |             | 196             |      | 6194 Btuh |
| Infiltration       | Type                     | ACH X       | Building Volume | CFM= | Load      |
|                    | Natural                  | 0.80        | 15000(sqft)     | 200  | 8597 Btuh |
|                    | Mechanical               |             |                 | 0    | 0 Btuh    |
| Infiltration Total |                          |             |                 | 200  | 8597 Btuh |

|                    |                                          |            |
|--------------------|------------------------------------------|------------|
| Totals for Heating | Subtotal                                 | 28374 Btuh |
|                    | Duct Loss(using duct multiplier of 0.05) | 1419 Btuh  |
|                    | Total Btuh Loss                          | 29793 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Model Home

Project Title:  
TheSamuelModel

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

11/7/2005

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 )

# System Sizing Calculations - Summer

## Residential Load - Component Details

Model Home

Project Title:  
TheSamuelModel

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

11/7/2005

| Window             | Type                          | Overhang |               | Window Area(sqft) |           |          | HTM       |           | Load |           |
|--------------------|-------------------------------|----------|---------------|-------------------|-----------|----------|-----------|-----------|------|-----------|
|                    | Panes/SHGC/U/InSh/ExSh Ornt   | Len      | Hgt           | Gross             | Shaded    | Unshaded | Shaded    | Unshaded  |      |           |
| 1                  | 2, Clear, DEF, N, N           | N        | 2             | 5.5               | 45.0      | 0.0      | 45.0      | 22        | 22   | 990 Btuh  |
| 2                  | 2, Clear, DEF, N, N           | NE       | 14.5          | 7                 | 10.0      | 0.0      | 10.0      | 22        | 50   | 500 Btuh  |
| 3                  | 2, Clear, DEF, N, N           | N        | 12            | 5.25              | 45.0      | 0.0      | 45.0      | 22        | 22   | 990 Btuh  |
| 4                  | 2, Clear, DEF, N, N           | NW       | 8.5           | 7                 | 10.0      | 0.0      | 10.0      | 22        | 50   | 500 Btuh  |
| 5                  | 2, Clear, DEF, N, N           | E        | 2             | 1.5               | 3.0       | 3.0      | 0.0       | 22        | 72   | 66 Btuh   |
| 6                  | 2, Clear, DEF, N, N           | S        | 9.5           | 7.5               | 6.0       | 6.0      | 0.0       | 22        | 37   | 132 Btuh  |
| 7                  | 2, Clear, DEF, N, N           | S        | 2             | 5.5               | 30.0      | 30.0     | 0.0       | 22        | 37   | 660 Btuh  |
| 8                  | 2, Clear, DEF, N, N           | S        | 2             | 8                 | 30.0      | 30.0     | 0.0       | 22        | 37   | 660 Btuh  |
| 9                  | 2, Clear, DEF, N, N           | W        | 1.5           | 3.5               | 3.0       | 0.0      | 3.0       | 22        | 72   | 216 Btuh  |
| 10                 | 2, Clear, DEF, N, N           | N        | 1.5           | 5.5               | 30.0      | 0.0      | 30.0      | 22        | 22   | 660 Btuh  |
| 11                 | 2, Clear, DEF, N, N           | E        | 1.5           | 5.5               | 30.0      | 6.7      | 23.3      | 22        | 72   | 1825 Btuh |
| Window Total       |                               |          |               |                   | 242       |          |           |           |      | 7199 Btuh |
| Walls              | Type                          | R-Value  |               | Area              |           | HTM      |           | Load      |      |           |
| 1                  | Frame - Adjacent              | 13.0     |               | 172.0             |           | 1.0      |           | 179 Btuh  |      |           |
| 2                  | Frame - Exterior              | 13.0     |               | 1051.0            |           | 1.7      |           | 1829 Btuh |      |           |
| Wall Total         |                               |          |               | 1223.0            |           |          |           | 2008 Btuh |      |           |
| Doors              | Type                          |          |               | Area              |           | HTM      |           | Load      |      |           |
| 1                  | Insulated - Exter             |          |               | 20.0              |           | 10.1     |           | 203 Btuh  |      |           |
| 2                  | Insulated - Exter             |          |               | 20.0              |           | 10.1     |           | 203 Btuh  |      |           |
| 3                  | Insulated - Adjac             |          |               | 20.0              |           | 10.1     |           | 203 Btuh  |      |           |
| Door Total         |                               |          |               | 60.0              |           |          |           | 608 Btuh  |      |           |
| Ceilings           | Type/Color                    | R-Value  |               | Area              |           | HTM      |           | Load      |      |           |
| 1                  | Under Attic/Dark              | 30.0     |               | 1754.0            |           | 1.4      |           | 2491 Btuh |      |           |
| Ceiling Total      |                               |          |               | 1754.0            |           |          |           | 2491 Btuh |      |           |
| Floors             | Type                          | R-Value  |               | Size              |           | HTM      |           | Load      |      |           |
| 1                  | Slab-On-Grade Edge Insulation | 0.0      |               | 196.0 ft(p)       |           | 0.0      |           | 0 Btuh    |      |           |
| Floor Total        |                               |          |               | 196.0             |           |          |           | 0 Btuh    |      |           |
| Infiltration       | Type                          | ACH      |               | Volume            |           | CFM=     |           | Load      |      |           |
|                    | Natural                       | 0.70     |               | 15000             |           | 175.4    |           | 3472 Btuh |      |           |
|                    | Mechanical                    |          |               |                   |           | 0        |           | 0 Btuh    |      |           |
| Infiltration Total |                               |          |               |                   |           | 175      |           | 3472 Btuh |      |           |
| Internal gain      | Occupants                     |          | Btuh/occupant |                   | Appliance |          | Load      |           |      |           |
|                    | 6                             |          | X 300 +       |                   | 1200      |          | 3000 Btuh |           |      |           |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Model Home

Lake City, FL

Project Title:  
TheSamuelModel

Class 3 Rating  
Registration No. 0  
Climate: North

11/7/2005

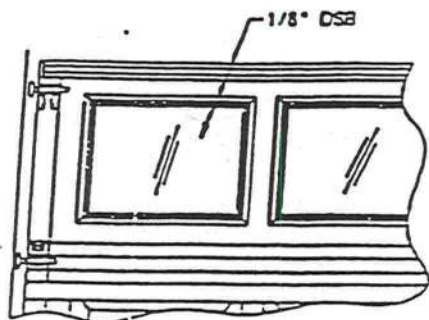
|                    |                                                           |                   |
|--------------------|-----------------------------------------------------------|-------------------|
| Totals for Cooling | Subtotal                                                  | 18778 Btuh        |
|                    | Duct gain(using duct multiplier of 0.10)                  | 1878 Btuh         |
|                    | Total sensible gain                                       | 20656 Btuh        |
|                    | Latent infiltration gain (for 51 gr. humidity difference) | 6081 Btuh         |
|                    | Latent occupant gain (6 people @ 230 Btuh per person)     | 1380 Btuh         |
|                    | Latent other gain                                         | 0 Btuh            |
|                    | <b>TOTAL GAIN</b>                                         | <b>28117 Btuh</b> |

Key: Window types (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/Daperies(B) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(Ornt - compass orientation)

2.

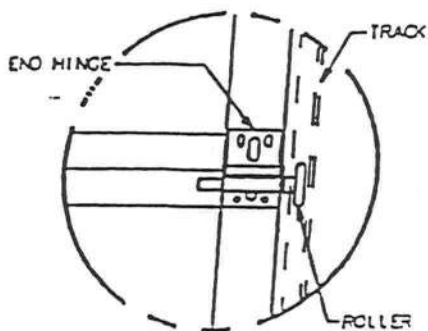
## GARAGE DOORS

| REVISIONS |                  |         |    |
|-----------|------------------|---------|----|
| LETTER    | DESCRIPTION      | DATE    | BY |
| A         | REV PER EN 10130 | 3/06/98 | CL |
| B         | REV PER EN 10141 | 3/13/98 | CL |
| C         | REV PER EN 10132 | 3/13/98 | CL |



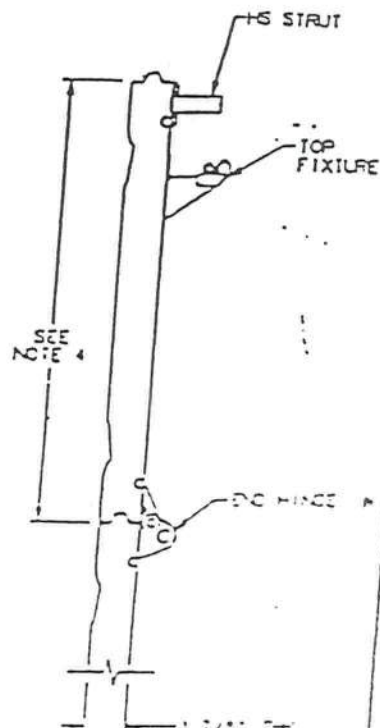
### OPTIONAL WINDOW DETAIL

SCALE: 3/32

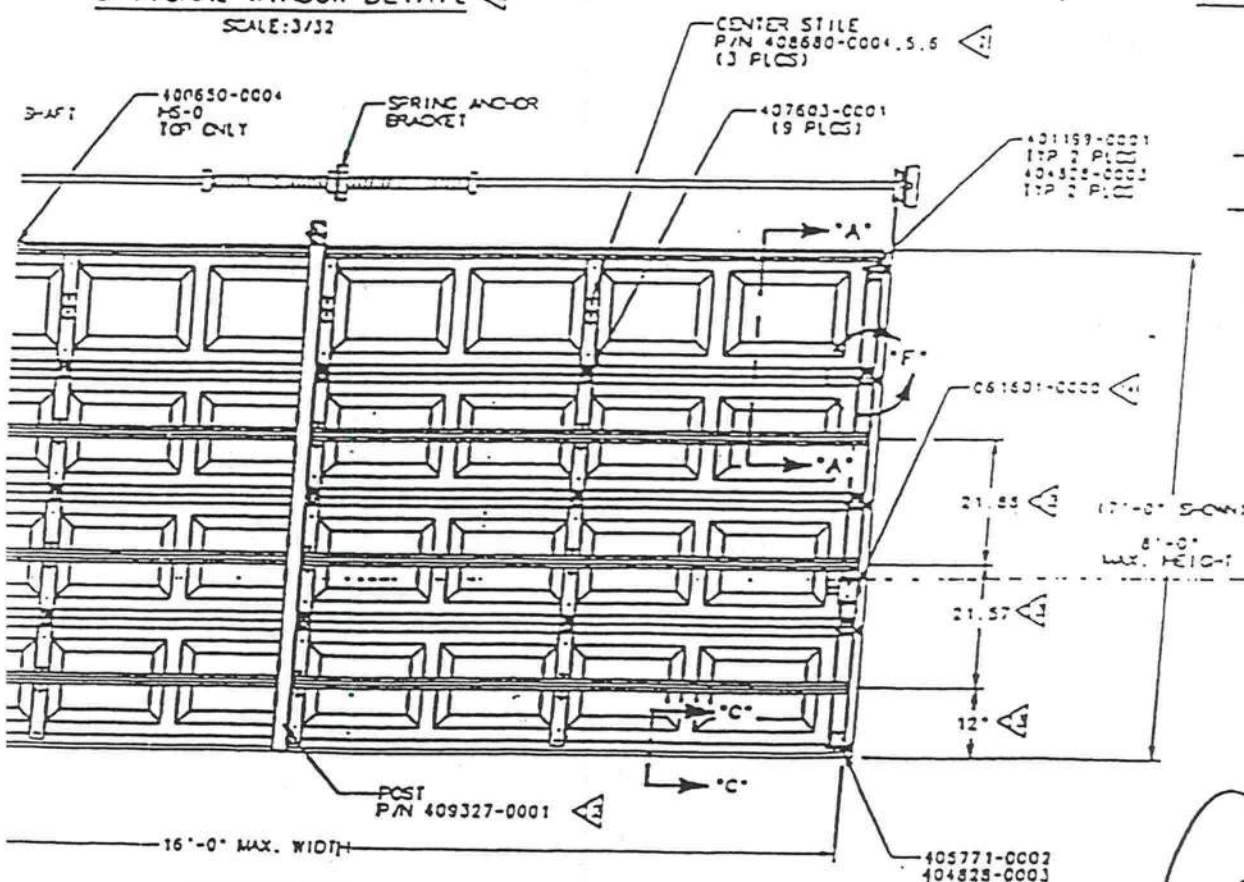


DETAIL "F"

SCALE: 1/4  
(16" WIDE)



SECTION A-A



DESIGN LOAD  
25 PSF =  
TEST LOAD  
37.5 PSF =

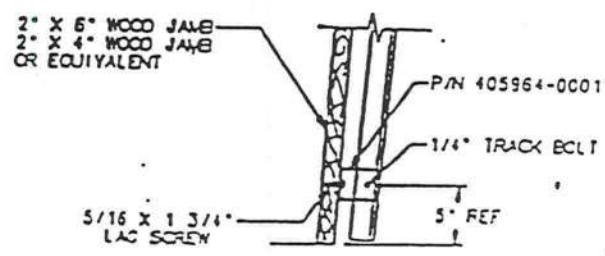
SCALE: 1/16"=1'  
INTERIOR ELEVATION

THE SHARING OF ECONOMIC INFORMATION ON THIS SHEET IS THE PROPERTY OF SHANGHAI ECONOMIC COMMISSION ON ITS SUBSTANCE AND IS LOANED TO CONFIDENCE FOR DISCUSSION AND WORKING AGREEMENT PURPOSES ONLY, AND MAY NOT BE REPRODUCED OR USED TO REPRODUCE ANYTHING ELSEWHERE WITHOUT THE WRITTEN PERMISSION OF SHANGHAI ECONOMIC COMMISSION WHICH MAY RECALL THIS SHEET AT ANY TIME.

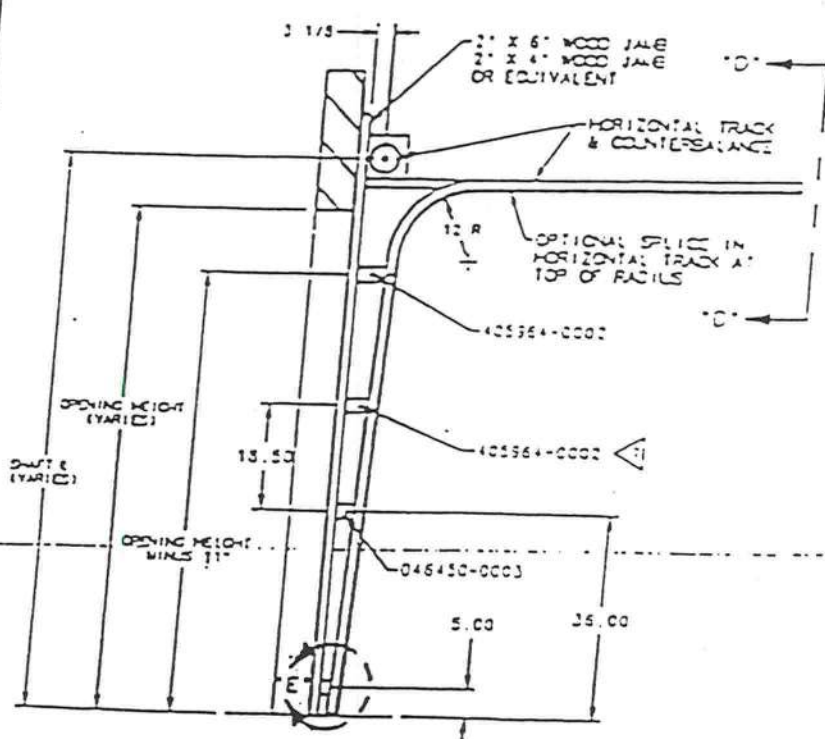
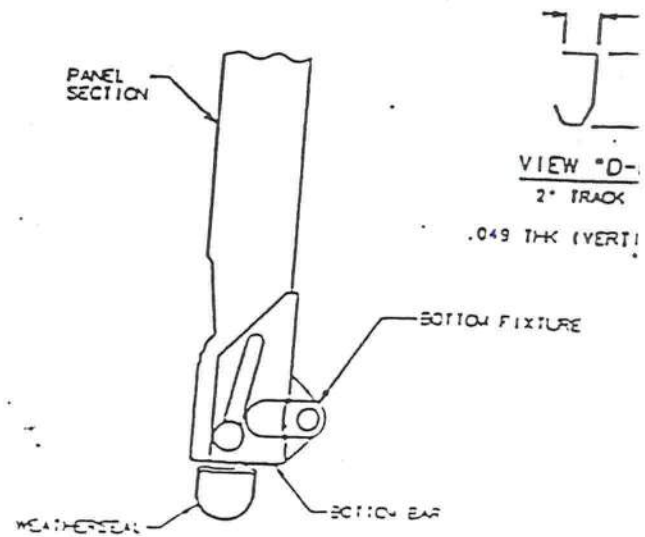
|                                                                                                                                                                                                   |  |                                                                                                                                  |  |                                                                          |  |                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|
| UACB 88-01112 PC11110<br>SEARCHED <input type="checkbox"/> INDEXED <input type="checkbox"/><br>SERIALIZED <input type="checkbox"/> FILED <input type="checkbox"/><br>MAR 1 1988<br>FBI - NEW YORK |  | <br>DIVISION: N/A<br>OFFICE: N/A<br>DATE: N/A |  | NAME: M. TOLNIS<br>DATE: 01/13/98<br>OFFICE: DAVID FAX<br>DATE: 02/19/98 |  | PRINTING TITLE: SERIES 250 & 180<br>RESI STL DR-16-Q MAX<br>WIDTH-WINDLOAD<br>PRINTING NUMBER: D-409335 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|

- NOTES:
1. TESTED IN ACCORDANCE WITH STANDARD BUILDING CODE, CHAPTER 17, TO A POSITIVE AND NEGATIVE 37.5 PSF.
  2. DASH NUMBERS REPRESENT VARIOUS SECTION HEIGHTS.
  3. FOUR SECTION 7" HIGH DOOR SHOWN. 8" HIGH DOORS HAVE FIVE SECTIONS.
  4. SECTION HEIGHT OF 20.312, 19.00 & 16.75 ARE AVAILABLE AND MAY BE USED IN COMBINATION TO ACHIEVE VARIOUS HEIGHT DOORS.
  5. DASHMENT PATTERN OF 14.50 X 20.375 SHOWN. ALTERNATE PATTERNS OF 12.50 X 43.375 AND 12.50 X 20.375 MAY BE USED.
  6. TORSION SPRINGS SHOWN. EXTENSION SPRINGS AVAILABLE.
  7. USE THIS BRACKET, REF. P/N 405964-0002, ON 8" HIGH DOORS ONLY.
  8. WINDOW MAY BE INSTALLED IN THE TOP SECTION OR THE SECTION IMMEDIATELY BELOW THE TOP SECTION.

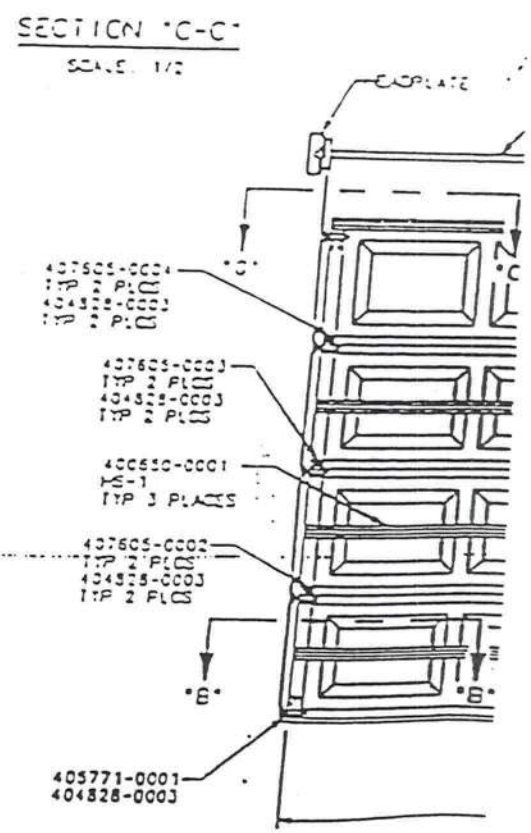
9. THE STRUT PLACEMENT ON DX CONSISTENT WITH THE DOOR SECTIONS ARE TO BE PLACED
10. THE STRUT PLACEMENT DIMEN REDUCED BY THE DIFFERENCE
11. SCREW P/N 605911-0001 IS
12. POST TO BE INSTALLED ONLY
13. STRUT PLACEMENTS CAN VARY
14. QUANTITY FOR LOOKS CAN BE



DETAIL "E"  
SCALE: 1/3



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



SERIES 280 THRU 289 ARE EQUIVALENT CONSTRUCTION 25GA STEEL  
 SERIES 180 ARE SAME CONSTRUCTION AS SERIES 280 ONLY 24GA STEEL  
 AND END CAPS  
 DOOR TESTED WAS 251 SERIES.

| DOOR WIDTH | CENTER STILE | END STILE | ROLLER SHUTT<br>BRACKET | STRUTS/SECT. | ROLLER     | VERTICAL TRACK<br>CASE | JAMB LOAD<br>(# PER FT.-HT.) | HARDWARE |
|------------|--------------|-----------|-------------------------|--------------|------------|------------------------|------------------------------|----------|
| 16"        | 3            | SINGLE    |                         | MS1<br>MS0   | 2" X 7/16" | .049"                  | 100                          | STD.     |

WINDOWS



AAMA/NWDA 101/1.S.2-97  
TEST REPORT SUMMARY

Rendered to:

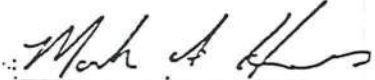
MI HOME PRODUCTS, INC.

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

| Title of Test            | Results                  |
|--------------------------|--------------------------|
| Rating                   | H-R40 52 x 72            |
| Overall Design Pressure  | +45.0 psf<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                 |

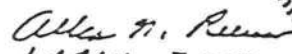
Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.



Mark A. Hess, Technician

MAH:nlb

  
1 APRIL 2002





Architectural Testing

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

Rendered to

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

Report No: 01-41134.01

Test Date: 03/07/02

Report Date: 03/26/02

Expiration Date: 03/07/06

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

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

**Test Specimen Description**

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

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

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

Allen T. Reum  
1 APRIL 2002





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 H. Reeves*  
1 APRIL 2002





**Test Specimen Description: (Continued)**

**Drainage:** Sloped sill

**Reinforcement:** No reinforcement was utilized.

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

**Test Results:**

The results are tabulated as follows:

| <u>Paragraph</u> | <u>Title of Test - Test Method</u>                                                                                                                                                      | <u>Results</u>           | <u>Allowed</u>              |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|
| 2.2.1.6.1        | Operating Force                                                                                                                                                                         | 11 lbs                   | 30 lbs max                  |
|                  | Air Infiltration (ASTM E 283-91)<br>@ 1.57 psf (25 mph)                                                                                                                                 | 0.13 cfm/ft <sup>2</sup> | 0.3 cfm/ft <sup>2</sup> max |
|                  | Water Resistance (ASTM E 547-C0)<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)

| <u>Paragraph</u> | <u>Title of Test - Test Method</u>                              | <u>Results</u> | <u>Allowed</u> |
|------------------|-----------------------------------------------------------------|----------------|----------------|
| 2.2.1.6.2        | Deglazing Test (ASTM E 987)<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





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

For ARCHITECTURAL TESTING, INC:

Mark A. Hess  
Technician

MAH:njb  
01-41134.01

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



# Anthony POWER HEADER®

## GARAGE HEADER 84 26F<sub>b</sub> - 1.9E

ENGINEERED WOOD SECTION PROPERTIES AND LOAD CAPACITIES  
ALLOWABLE DESIGN STRESSES (PSI):

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

| Span (ft)       | 2    | 4     | 6     | 8     | 10    | 12    | 14    |
|-----------------|------|-------|-------|-------|-------|-------|-------|
| Weight (lb/ft)  | 7.7  | 9.0   | 10.4  | 11.7  | 12.9  | 14.2  | 15.5  |
| Flexure (lb-ft) | 326  | 514   | 789   | 1115  | 1521  | 2014  | 2604  |
| Shear (lb)      | 8865 | 12015 | 15996 | 20145 | 24772 | 29877 | 35460 |
| Moisture (lb)   | 3908 | 4550  | 5250  | 5892  | 6533  | 7175  | 7817  |

### NOTES:

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

### GARAGE HEADER COMPARISONS

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

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

POWER HEADER® is a trademark of  
**Anthony Forest Products Company**  
Post Office Box 1877 • El Dorado, Arkansas 71731  
Internet address: <http://www.anthonyforest.com>  
e-mail: [info@anthonyforest.com](mailto:info@anthonyforest.com)  
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FAX (904) 685-8160

26F<sub>b</sub> - 1.9E

# Anthony POWER HEADER®

## 3-1/2" WIDTH GARAGE HEADER PLF CAPACITY

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

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

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

### NOTES:

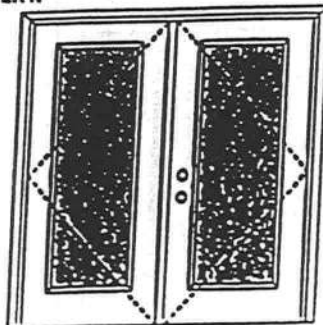
1. Values shown are the maximum uniform loads in pounds per lineal foot (PLF) that can be applied to the header. Header weight has been subtracted from the allowable total load.
2. Tables are based on simple span uniform load conditions using a design span equal to the center-to-center of bearing. Non-shaded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

### GARAGE HEADER SIZING USING PLF TABLES:

To size a garage header supporting roof only, determine the total load & live load in pounds per lineal foot (PLF). Check the appropriate PLF table for a header supporting roof loads only (125% Non-Snow vs. 113% Snow) and select a member with a total load and live load capacity which meets or exceeds the design load for the rough opening size. For a garage header supporting roof, wall, and floor framing, determine the total load and live load in pounds per lineal foot (PLF). Select a header size from the roof, wall, and floor table (100% load duration) which has a total load and live load capacity equal to or greater than the design load for the appropriate rough opening.

## WOOD-EDGE STEEL DOORS

### APPROVED ARRANGEMENT:



Test Data Review Certificate #JG25447A  
and COP/Test Report Vandalism Mitig.  
#JG25447A-001 provides additional  
information - available from the IIS-WH  
website ([www.iiswh.com](http://www.iiswh.com)), the  
Masonite website ([www.masonite.com](http://www.masonite.com))  
or the Masonite technical center.

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

**Double Door**  
Maximum unit size = 6'0" x 6'8"

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

Exceeds 100 mph Special Hurricane Design 4.1113

**Large Missile Impact Resistance**  
**Hurricane protective system (shutters) is REQUIRED**

Actual design pressure and impact resistance requirements for a specific building project are determined by local building codes and the size of each building project. See the code requirements.

### MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MAC002-02 and  
MAD-WL-MAC041-02.

### MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MAD-WL-MAC002-02

### APPROVED DOOR STYLES:

#### 1/4 GLASS:



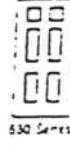
100 Series



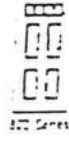
122, 123 Series



126 Series



530 Series



532 Series

#### 1/2 GLASS:



105 Series\*



106, 160 Series\*



129 Series\*



200 Series\*



12, 21, 23, 24, 24 R/L  
Series\*



107 Series\*



108 Series

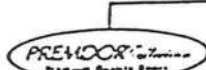


304 Series

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

**Johnson**  
**EntrySystems**

June 17, 2002  
Our continuing progress of product development makes specifications subject to change without notice.



Exclusively from  
**Masonite**  
Masonite International Corporation

XX

Glazed Inswing Unit

COP-WL-JH4142-02

## WOOD-EDGE STEEL DOORS

### APPROVED DOOR STYLES:

#### 3/4 GLASS:



404 Series



410 Series



450 Series

#### FULL GLASS:



109 Series



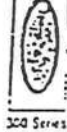
114, 120, 122 Series



152 Series



149 Series



300 Series

### CERTIFIED TEST REPORTS:

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

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16253

Unit Tested in Accordance with Miami-Dade ECCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum threshold.

### PRODUCT COMPLIANCE LABELING:

TESTED IN  
ACCORDANCE WITH  
MIAMI-DADE ECCO PA202  
COMPANY NAME  
CITY, STATE

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

*Kurt L Balthaz*

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



Test Data Review Certificate #3025447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website ([www.itswh.com](http://www.itswh.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite Technical Center.

2

**Johnson**  
EntrySystems

June 17, 2002

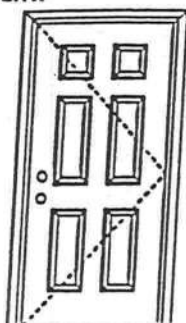
Our continuing program of product development meets the demands of safety and security. We are committed to providing the highest quality products.



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Masonite International Corporation

## WOOD-EDGE STEEL DOORS

### APPROVED ARRANGEMENT:



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



Test Data Review Certificate #3026-447A and COP/Test Report Validation Matrix #3026-447A-001 provides additional information - available from the ITS/WH website ([www.itswh.com](http://www.itswh.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Single Door**  
Maximum unit size = 3'0" x 6'8"

**Design Pressure**  
+66.0/-66.0

Limited water unless special threshold design is used

**Large Missile Impact Resistance**

**Hurricane protective system (shutters) is NOT REQUIRED.**

Actual design pressure and impact resistance requirements for a specific building design and geographic location is determined by ASCE 7-05 and state or local building codes which the region requires.

### MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see M.D.-WL-MAC001-00

### MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see M.D.-WL-MAC001-00

### APPROVED DOOR STYLES:



Plain



Arch Top 3-panel



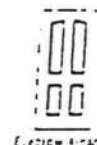
3-panel



5-panel



New England 4-panel



Eye-brow 4-panel



8-panel



9-panel



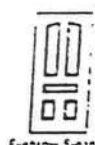
15-panel



5-panel



5-panel with scroll



Eye-brow 5-panel



Eye-brow 8-panel with scroll

**Johnson**  
**EntrySystems**

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



**X**  
Opaque Inswing Unit

COP-WL-JH4101-02

## WOOD-EDGE STEEL DOORS

### CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

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

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

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

### PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH  
MIAMI-DADE BCCO  
PA201, PA202 & PA203  
  
COMPANY NAME  
CITY STATE

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

*Kurt L Balthaz*

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



Test Data Review Certificate #3026447A  
and COP/Rest Report Vandalism Matrix  
#3026447A-001 provides additional  
information - available from the ITS/WH  
website ([www.itswh.com](http://www.itswh.com)), the  
Masonite website ([www.masonite.com](http://www.masonite.com))  
or the Masonite Technical Center.

2

**Johnson**  
EntrySystems

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



SHINGLES



March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami - Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:

ASTM D3462

PA 100 (110 mph uplift and wind driven rain resistance)

PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

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

Modified Profile, Prestique High Definition, Prestique 10, or Prestique 10 -

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226 04

Prestique 1 3/8 or Prestique 1" -

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226 05

Prestique Plus or Prestique Gallery Collection\* -

PA 100 = 4 nails

PA 107 = 4 nails

MD NOA# = 01-1226 03

Capstone®

PA 100 = 4 Nails

PA 107 = 4 Nails

MD NOA# = 01-0523 01

\* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty

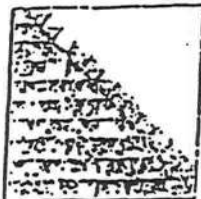
If there are any questions please contact:

Mike Reed - Technical Manager  
(205) 342-0287

or Daniel DeJarnette - QA Engineer  
(205) 342-0298



ROOFING PRODUCTS SPECIFICATIONS - TUSCALOOSA, AL



PRESTIQUE®  
HIGH DEFINITION®



RAISED PROFILE®

|                   |            |
|-------------------|------------|
| Product Size      | 121" x 36" |
| Weight            | 51"        |
| Deck Surface      | 16         |
| Shingle Surface   | 162" x 36" |
| Shingle Thickness | 31"        |

Shingle surface is a high definition, multi-layered texture that provides a unique, three-dimensional appearance. The shingle is designed to provide a long, lasting life and is resistant to weathering, staining, and fading.

|                   |            |
|-------------------|------------|
| Product Size      | 121" x 36" |
| Weight            | 51"        |
| Deck Surface      | 16         |
| Shingle Surface   | 162" x 36" |
| Shingle Thickness | 31"        |

Shingle surface is a raised profile, multi-layered texture that provides a unique, three-dimensional appearance. The shingle is designed to provide a long, lasting life and is resistant to weathering, staining, and fading.

|                   |            |
|-------------------|------------|
| Product Size      | 121" x 36" |
| Weight            | 51"        |
| Deck Surface      | 16         |
| Shingle Surface   | 162" x 36" |
| Shingle Thickness | 31"        |

Shingle surface is a high definition, multi-layered texture that provides a unique, three-dimensional appearance. The shingle is designed to provide a long, lasting life and is resistant to weathering, staining, and fading.

IMP AND RIDGE SHINGLES

Shingle surface is a high definition, multi-layered texture that provides a unique, three-dimensional appearance. The shingle is designed to provide a long, lasting life and is resistant to weathering, staining, and fading.

|                   |            |
|-------------------|------------|
| Product Size      | 121" x 36" |
| Weight            | 51"        |
| Deck Surface      | 16         |
| Shingle Surface   | 162" x 36" |
| Shingle Thickness | 31"        |

Shingle surface is a high definition, multi-layered texture that provides a unique, three-dimensional appearance. The shingle is designed to provide a long, lasting life and is resistant to weathering, staining, and fading.

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SOUTHEAST &  
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CORPORATE HEADQUARTERS:  
800.354.7732

PLANT LOCATION:  
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# COLUMBIA COUNTY BUILDING DEPARTMENT

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

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

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

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

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

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

WA

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

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

ORIGINAL in file 25915



# Cal-Tech Testing, Inc.

- Engineering
  - Geotechnical
  - Environmental
- LABORATORIES

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

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

January 30, 2006

Cornerstone Developers, LLC  
180 NW Amenity Court  
Lake City, Florida 32055

Attention: Chris Cox

Reference: Proposed Residences  
Emerald Cove, Lots 93, 94, 95, 96 and 97  
Columbia County, Florida  
Cal-Tech Project No. 06-069

Dear Mr. Cox,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lots 93, 94, 95, 96 and 97 of Emerald Cove in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed at each lot and to provide recommendations for selecting finished floor elevations.

Based upon the U. S. Coast and Geodetic Survey marker "BP19" located near the intersection of U. S. 90 and Brown Road, the Friar and Associates survey marker located in the centerline of the street in front of lot 95 has an elevation of approximately 115.75 feet. Based upon this elevation, centerline elevations and proposed finished floor elevations for each proposed residence are provided in the following table. In every case the proposed finished floor elevation is below the adjacent centerline elevation.

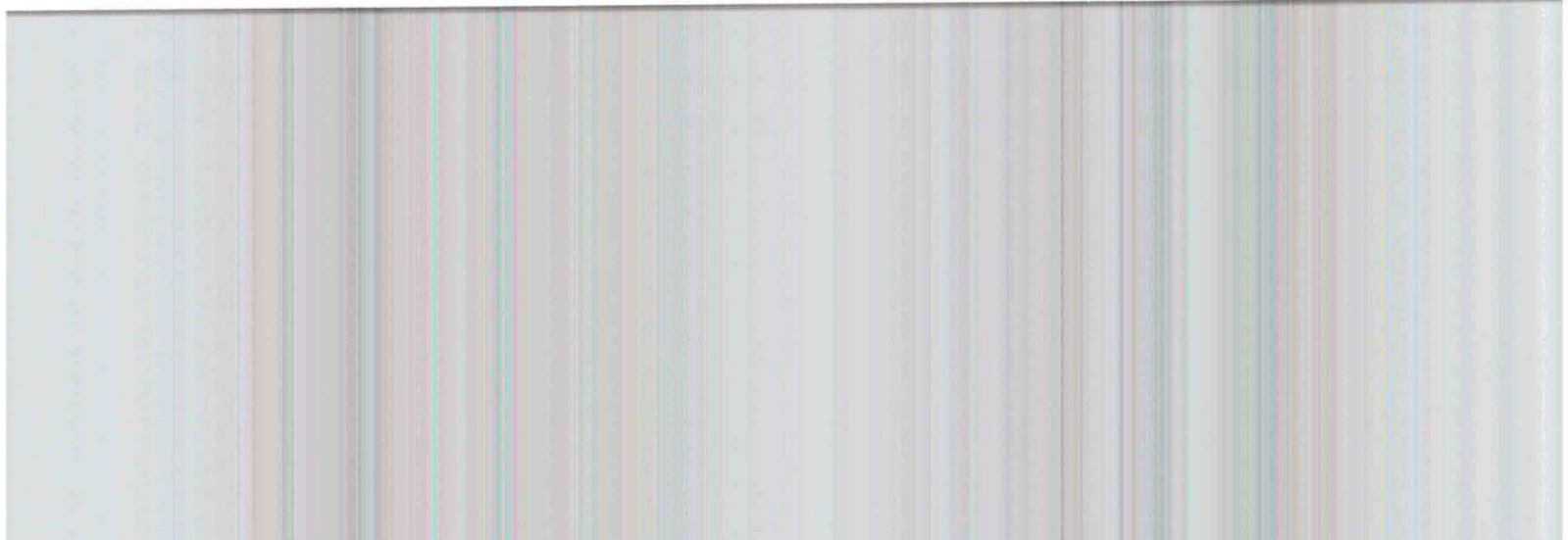
| Lot Number | Centerline Elevation (ft) | Proposed Floor Elevation (ft) |
|------------|---------------------------|-------------------------------|
| 93         | 113.78                    | 112.70                        |
| 94         | 115.28                    | 113.94                        |
| 95         | 115.75                    | 114.99                        |
| 96         | 114.41                    | 114.25                        |
| 97         | 112.24                    | 112.10                        |

(23915)  
(23911)  
(23916)

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

Based upon the FEMA flood map for Columbia County, the drainage basin in which the proposed home sites are located is not a flood area; therefore, flooding of the proposed homes should not be expected if floors are constructed at the proposed

"Excellence in Engineering & Geoscience"



elevations. If for some reason however flooding did occur within this drainage basin, flooding to an elevation of 112 feet would produce flood depths on the order of 25 feet within portions of the basin. Flooding to this depth is highly unlikely.

It should be noted a relatively large, topographically isolated flood area is located approximately one-half mile south southeast of the building sites. The flood elevation for this area has not been determined by FEMA; however, based upon the area delineated by the flood map, this flood elevation is estimated to be about 112.0 feet. Although the basins are not connected, we recommend the flood elevation of 112 feet for the adjacent basin be used as a reference for the drainage basin being considered. Further, we recommend the finished floor for each new residence be located at an elevation at least 1 foot higher than the flood elevation in the adjacent basin or at or above elevation 113.0 feet.

Elevating the floor of the residence to 12 inches above the adjacent roadway should not be required for any of the five lots being considered; however, we recommend lots 93 and 97 be filled and/or additional blocks be used such that the finished floor elevations of these two residences be at least 113.0 feet.

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

Respectfully submitted,  
Cal-Tech Testing, Inc.



Linda Creamer  
President / CEO



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

1/30/06  
52612

Prepared by and after  
recording return to:

William L. Joel  
Stoneburner Berry & Simmons, P.A.  
841 Prudential Drive, Suite 1400  
Jacksonville, FL 32207

Permit No. \_\_\_\_\_  
Tax Folio No. \_\_\_\_\_

NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF COLUMBIA

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

1. Description of property (legal description and address, if available):

See Exhibit "A" attached hereto.

2. General description of improvements: Construction of residential dwellings

3. Owner Information:

(a) Name and Address: Cornerstone Developers, LLC a Florida limited  
liability company  
180 NW Amenity Court  
Lake City, Florida 32025

(b) Owner's interest in the site of the improvements (if other than fee simple title holder):

(c) Name and Address of fee simple title holder (if other than owner):

4. Contractor:

Name and Address: Bryan Zecher Construction Inc.  
465 NW Orange Street  
Lake City, FL 32055

(b) Phone No. 386-752-8653 Fax No. \_\_\_\_\_ (Optional, if service by fax is acceptable)

5. Surety on any payment bond: N/A

(a) Name and Address:

(b) Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_ (Optional, if service by fax is acceptable)

Inst: 2006006015 Date: 03/13/2006 Time: 09:12  
J. P. DeWitt Cason, Columbia County B: 1076 P: 2481

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

By Starr Feagle  
Deputy Clerk

Date 3-13-06



(c) Amount of bond \$ \_\_\_\_\_

6. Lender making loan for the construction of the improvements:

(a) Name and Address: First Horizon Home Loan Corporation  
1051 Deerwood Park Boulevard  
Building 200, Suite 115  
Jacksonville, FL 32256  
Attn: James J. O'Connor, Jr.

(b) Phone No. 904-998-5300 Fax No. \_\_\_\_\_ (Optional, if service by fax is acceptable)

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

(a) Name and Address: Cornerstone Developers, LLC a Florida limited liability company  
180 NW Amenity Court  
Lake City, Florida 32025

(b) Phone No. (386) 752-1711 Fax No. \_\_\_\_\_ (Optional, if service by fax is acceptable)

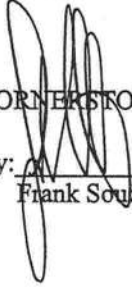
8. In addition to himself, Owner designates the following person to receive a copy of the lienor's notice as provided in Section 713.13(1)(b), Florida Statute:

(a) Name and Address: James J. O'Connor, Jr.  
First Horizon Home Loan Corporation  
1051 Deerwood Park Boulevard  
Building 200, Suite 115  
Jacksonville, FL 32256

(b) Phone No. 904-998-5300 Fax No. \_\_\_\_\_ (Optional, if service by fax is acceptable)

9. Expiration date of notice of commencement (the expiration date is one (1) year from the date of recording unless a different date is specified):

CORNERSTONE DEVELOPERS, LLC

By:   
Frank Soucinek, its sole Manager

(SEAL)

(OWNER)

Sworn to and Subscribed before me this 8th  
day of March, 2006, by Frank Soucinek, the  
Manager of Cornerstone Developers, LLC. He  
is personally known or has produced \_\_\_\_\_  
\_\_\_\_\_ as identification.

\_\_\_\_\_  
Notary Public, State and County of Illinois

Print Name:

My Commission Expires:

My Commission No.:



(NOTARIAL SEAL)

**POST A CERTIFIED COPY OF THE RECORDED NOTICE ON CONSTRUCTION SITE**

Inst:2006006015 Date:03/13/2006 Time:09:12

\_\_\_\_\_  
DC, P. DeWitt Cason, Columbia County B:1076 P:2483

EXHIBIT A

Lot 96, Emerald Cove, Phase 1, according to the map or plat thereof as recorded in Plat Book 8, Page(s) 35 and 36, Public Records of Columbia County, Florida.

Inst:2006006015 Date:03/13/2006 Time:09:12  
\_\_\_\_\_DC,P.DeWitt Cason,Columbia County B:1076 P:2484

**CHRYSTIAN MICHAEL**  
**OF**

# OCCUPANCY

**COLUMBIA COUNTY, FLORIDA**

## Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 33-3S-16-02438-196

Building permit No. 000023916

Use Classification SFD, UTILITY

Fire: 23.68

Permit Holder BRYAN ZECHER

Waste: 49.00

Owner of Building CORNERSTONE DEVELOPERS

Total: 72.68

Location: 146 SW TIMBERLAND CRT, LAKE CITY, FL 32055



Date: 06/28/2006

*for Harry Davis*

Building Inspector

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

# Notice of Treatment

11911

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

Address: BAVARIA

City LC Phone 752 1703

Site Location: Subdivision EMERALD COVE

Lot # 46 Block#  Permit # 23916

Address 146 SW Timber Lane CT

## Product used

## Active Ingredient

## % Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☒ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

## Type treatment:

☐ Soil

☒ Wood

## Area Treated

## Square feet

## Linear feet

## Gallons Applied

Dwelling 2088 694 4.5

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

5.11.06 0800 F254

Date

Time

Print Technician's Name

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

\_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©

BEARING HEIGHT SCHEDULE

8'

2' 0"/H  
6/12

NOTES:

- 1) REFER TO HQ 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 DECEDED OR REFER TO DETAIL VIDS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' 0" MAXIMUM SPACING UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING UNLESS OTHERWISE NOTED.
- 6) 5/42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HUSO UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.
- 8) BEAM/RAIL/INTEL (RHS) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

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

Requested Shanty Date: \_\_\_\_\_

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



PHONE: 904-437-3343 FAX: 904-437-3344

Jack-sonville

PHONE: 904-772-6100 FAX: 904-772-1873

Lake City

PHONE: 904-755-6894 FAX: 904-755-7923

Sanford

PHONE: 407-322-0099 FAX: 407-322-9953

BRYAN ZECHER

LOT 96 EMERALD COVE

THE SAMUEL

DATE: 11-1-05

BY: JRD

PROJECT: L138289

