

APPLICANT JOHN D. HARRINGTONPHONE 386 462-1509

ADDRESS 12523 NW US HIGHWAY 441 ALACHUA FL 32615

OWNER MICHAEL SWAYZEPHONE 352 494-8209

ADDRESS 152 SW ATLAS DRIVE FT. WHITE FL 32038

CONTRACTOR JOHN D. HARRINGTONPHONE 386 462-1509

LOCATION OF PROPERTY 47S, TL ON 27, TR ON CR 138, TR ON BOBCAT RD, TL ON 152ND AVE, 2ND LOT ON LEFT

TYPE DEVELOPMENT SFDESTIMATED COST OF CONSTRUCTION 140,000

HEATED FLOOR AREA 1676TOTAL AREA 2170HEIGHT 14STORIES 1

FOUNDATION CONCWALLS FRAMEDROOF PITCH 6/12FLOOR SLAB

LAND USE & ZONING A-3MAX. HEIGHT _____

Minimum Set Back Requirments: STREET-FRONT 30REAR 25SIDE 25

NO. EX.D.U. 0FLOOD ZONE XOUTDEVELOPMENT PERMIT NO. _____

PARCEL ID 19-7S-17-10024-085SUBDIVISION SASSAFRAS ACRES

LOT 85BLOCK _____PHASE _____UNIT _____TOTAL ACRES 1.68

EXISTING CGC038861
Culvert Permit No. Culvert Waiver Contractor's License Number A JD Harrington
EXISTING 07-194 BK JH
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE. MH MUST BE REMOVED WITHIN 45 DAYS OF CO BEING ISSUED.

ONE FOOT ABOVE THE ROAD

Check # or Cash 1031

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ Foundation _____ Monolithic _____
date/app. by date/app. by date/app. by

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

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

Electrical rough-in _____ Heat & Air Duct _____ Peri. beam (Lintel) _____
date/app. by date/app. by date/app. by

Permanent power _____ C.O. Final _____ Culvert _____
date/app. by date/app. by date/app. by

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

Reconnection _____ Pump pole _____ Utility Pole _____
date/app. by date/app. by date/app. by

M/H Pole _____ Travel Trailer _____ Re-roof _____
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 420.00 CERTIFICATION FEE \$ 21.70 SURCHARGE FEE \$ 21.70

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

FLOOD ZONE DEVELOPMENT FEE \$ 25.00 CULVERT FEE \$ _____ TOTAL FEE 538.40

INSPECTORS OFFICE Gate 18 dch CLERKS OFFICE CH

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

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

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

For Office Use Only Application # 0702-56 Date Received 2/20 By JW Permit # 25610
 Application Approved by - Zoning Official BLK Date 27.02.07 Plans Examiner OKJTH Date 2-23-07
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments * Existing with must be a survey within 45 days of CO being issued
☒ NOC ☐ EH ☐ Deed or PA ☐ Site Plan Section 23.1 ☐ NA State Road Info ☐ Parent Parcel # N/A Development Permit

Name Authorized Person Signing Permit John D Harrington Fax 386-462-1509
 Address 12523 NW U.S. Hwy 441 Alachua FL 32615 Phone 386-462-5323
 Owners Name Michael Swayze Phone 352-494-8209
 911 Address 152 SW Atlas Dr Ft. White FL 32038
 Contractors Name John D Harrington Phone 352-316-5320
 Address 12523 NW U.S Hwy 441 Alachua FL 32615
 Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Wayland Engineering 8200 SW 16th PL Gainesville FL 32607
 Mortgage Lenders Name & Address Countrywide Home Loans Inc 6400 Legacy Dr Plano TX 750

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number R10024-085 19-75-17 Estimated Cost of Construction 140,000
 Subdivision Name Sassafras Acres Lot 85 Block _____ Unit _____ Phase _____
 Driving Directions Hwy 42 to Ft. White turn (L) on Hwy 22 go to CR 138 turn (R) on Bobcat Rd - go to 152nd Ave turn (L) - 2nd lot on left.

Type of Construction Residential - STD
 Total Acreage 1.68 Lot Size _____ Number of Existing Dwellings on Property 1*
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 30' Side 45' Side 85' Rear 70'
 Total Building Height 14' Number of Stories 1 Heated Floor Area 1676 Roof Pitch 6-12
 TOTAL 2,170

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 Authorized Person by Notarized Letter _____ Contractor Signature _____
 STATE OF FLORIDA _____ Contractors License Number CC038861
 COUNTY OF COLUMBIA _____ Competency Card Number _____

Notary Public, State of Florida _____
 Commission # DD6078 Expires NOV. 14, 2010
 BONDED THROUGH BONDING CO., INC.
 I am (personally known / produced identification) _____
 is 20 day of Feb 2000
 Notary Signature _____
 (Revised Sept. 2006)

1031

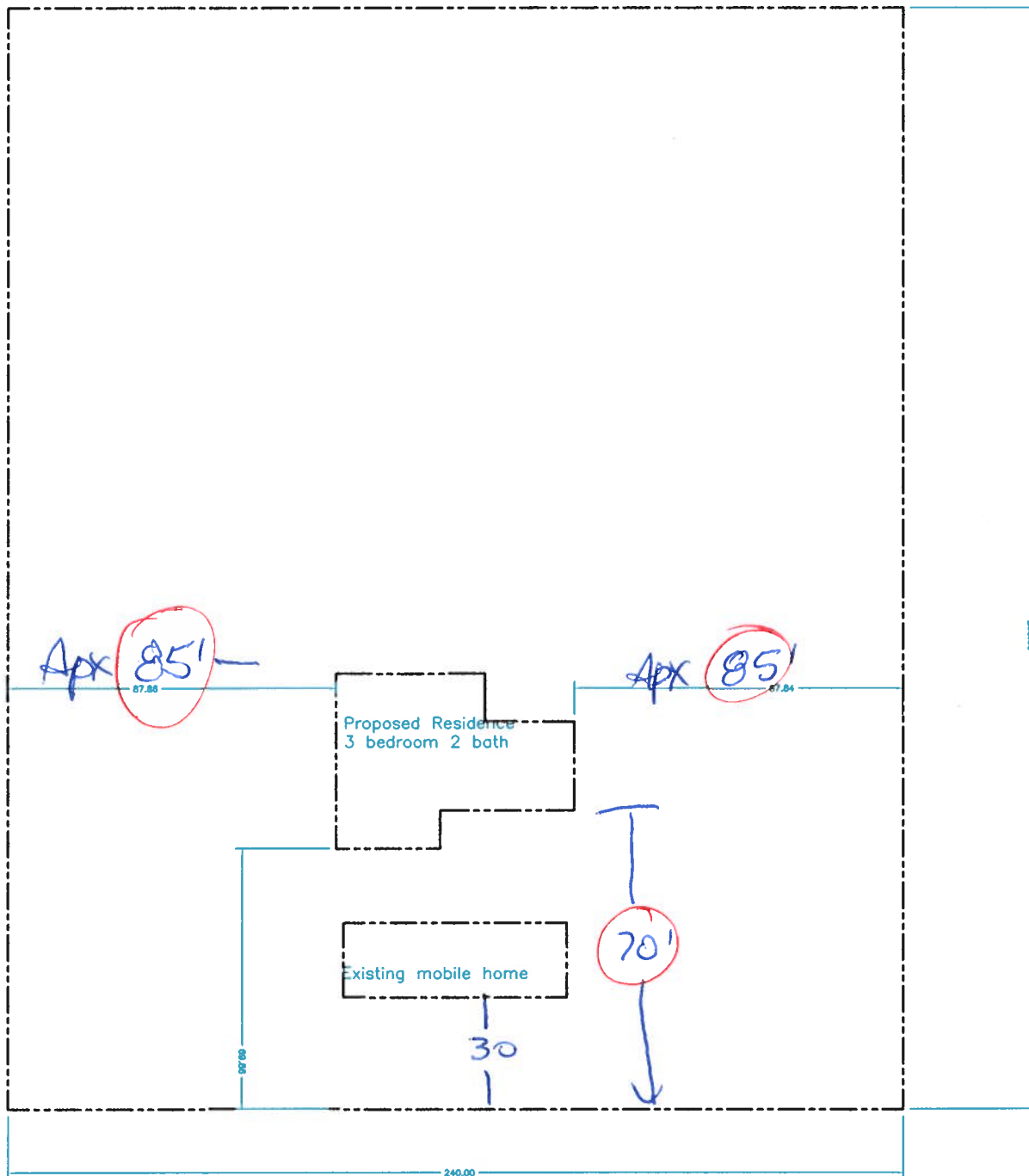
- JW - Left Messages 7.27.07

@ CAM112M01	CamaUSA Appraisal System	Columbia County
2/20/2007 17:02	Legal Description Maintenance	24176 Land 002 *
Year T Property	Sel	AG 000
2007 R 19-7S-17-10024-085		8521 Bldg 001 *
152 ATLAS DR SW FT WHITE		150 Xfea 001 *
HX SWAYZE HEATHER HETHERINGTON		32847 TOTAL B*

1	LOT 85 SASSAFRAS ACRES S/D.	JOINS 10024-084. ORB 468-468,,	2
3	643-753A, 813-1604, 909-2071,,		4
5			6
7			8
9			10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt 10/25/2000 TERRY


F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More



152nd Ave. (SW Atlas Dr.)



SCALE: NTS

 HOMES BY HOUSE CRAFT, L.L.C. 12525 HWY. 441 - Houston, TX 77066 Phone: (281) 468-4529/FAX: (281) 468-1009		SWAYZE	
Block:	GULF	Type:	SITE PLAN
Location:	COULMBA CO	Drawn By:	JDK
Designer:	JDK	Checked By:	JDK
Scale:	NTS	Date:	2/20/07

G

0702-56

H

R16R
R17E

114

ZONE X

19

ZONE X

ZONE AE



CSX

20

27

138

ZONE X

30

ZONE X

ZONE AE

CSX

44

ZONE X

Record & Return to:
Title Resources of Gainesville
2135-C NW 40th Terrace
Gainesville, FL 32605

After Recording Return To:
COUNTRYWIDE HOME LOANS, INC.
MS SV-79 DOCUMENT PROCESSING
P.O. Box 10423
Van Nuys, CA 91410-0423

This document was prepared by:
JENNIFER WILSON
COUNTRYWIDE HOME LOANS, INC.

6400 LEGACY DR
PLANO, TX 75024



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: Sonnie Row
Deputy Clerk
Date: 02-01-2007

Inst: 2007002523 Date: 02/01/2007 Time: 11:32
P DC, P. DeWitt Cason, Columbia County B: 1109 P: 1530

[Space Above This Line For Recording Data]

SWAYZE
[Escrow/Closing #]

140953340
[Loan #]

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF ALACHUA

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

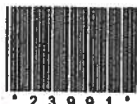
1. Description of property: (legal description of property, and street address if available)
SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

Parcel ID Number: tbd

2. General description of improvement: SINGLE FAMILY DWELLING

3. Owner information:

- a. Name and address: MICHAEL AND HEATHER SWAYZE
152 SW Atlas Drive, Fort White, FL 32038
- b. Interest in property: FEES SIMPLE
- c. Name and address of fee simple titleholder (if other than owner): _____



Inst:2007002523 Date:02/01/2007 Time:11:32

DC,P.DeWitt Cason,Columbia County B:1109 P:1531

LOAN #: 140953340

4. Contractor:
- a. Name and address: House Craft Homes, LLC
12523 NW US HWY 441, ALACHUA, FL 32615
- b. Phone number: (386) 462-5323
- c. Fax number (optional, if service by fax is acceptable): (386) 462-1509
5. Surety:
- a. Name and address: _____
- b. Amount of bond: \$ _____
- c. Phone number: _____
- d. Fax number (optional, if service by fax is acceptable): _____
6. Lender:
- a. Name and address: COUNTRYWIDE HOME LOANS, INC.
6400 Legacy Drive PTX-137 Plano, TX 75024
- b. Phone number: (800) 729-4073
- c. Fax number (optional, if service by fax is acceptable): (800) 219-6562
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided in section 713.13(1)(a)7., Florida Statutes:
- a. Name and address: _____
- b. Phone number: _____
- c. Fax number (optional, if service by fax is acceptable): _____
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lender's Notice as provided in Section 713.13(1)(b), Florida Statutes:
- a. Name and address: _____
- b. Phone number: _____
- c. Fax number (optional, if service by fax is acceptable): _____
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified) _____

Owner's Address: MICHAEL SWAYZE
152 SW Atlas Drive
Fort White, FL 32038

HEATHER SWAYZE

Prepared by: JENNIFER WILSON

COUNTRYWIDE HOME LOANS, INC.

Branch #: 0000484
6400 LEGACY DR
PLANO, TX 75024
Phone: (800) 556-6086
Br Fax No.: (888) 898-1547

DATE: 01/29/2007
CASE #:
DOC ID #: 140953340
BORROWER: MICHAEL SWAYZE
PROPERTY ADDRESS: 152 SW ATLAS DRIVE
FORT WHITE, FL 32038

LEGAL DESCRIPTION EXHIBIT A

Lot 85, SASSAFRAS ACRES, a Subdivision as per plat recorded in Plat Book 4, Page(s) 8 and 8A of the Public Records of Columbia County, Florida.

Parcel Identification Number: R10024-085

ms HS

Inst:2007002523 Date:02/01/2007 Time:11:32
DC,P.Dewitt Cason,Columbia County B:1109 P:1533

FHAW/CONV
Legal Description Exhibit A
2C404-XX (04/03)(d)



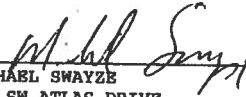
* 2 3 9 9 1 *




* 1 4 0 9 5 3 3 4 0 0 0 0 0 2 D 5 3 7 *

Inst:2007002523 Date:02/01/2007 Time:11:32
DC,P.Dewitt Cason,Columbia County B:1109 P:1532

LOAN #: 140953340


MICHAEL SWAYZE (Seal)
152 SW ATLAS DRIVE - Borrower
FORT WHITE, FL 32038


HEATHER SWAYZE (Seal)
152 SW ATLAS DRIVE - Borrower
FORT WHITE, FL 32038

(Seal)
- Borrower

(Seal)
- Borrower

STATE OF FLORIDA,

ALACHUA

County as:

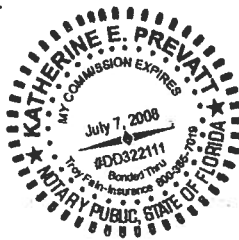
The foregoing instrument was acknowledged before me this
MICHAEL SWAYZE AND HEATHER SWAYZE


January 29, 2007

by

who is personally known to me or who has produced
as identification.

DRIVER'S LICENSE(S)





Notary Public

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: **SWAYZE RESIDENCE**
Address: **152 SW Atlas Dr**
City, State: **Ft. White, FL 32038-**
Owner: **Michael & Heather Swayze**
Climate Zone: **North**

Builder: **Homes by House Craft**
Permitting Office: **Colunga**
Permit Number: **25610**
Jurisdiction Number: **221000**

1. New construction or existing New ☐
2. Single family or multi-family Single family ☐
3. Number of units, if multi-family 1 ☐
4. Number of Bedrooms 3 ☐
5. Is this a worst case? Yes ☐
6. Conditioned floor area (ft²) 1676 ft² ☐
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor: Description Area

(or Single or Double DEFAULT) 7a. (Dble Default) 92.0 ft² ☐
 - b. SHGC:

(or Clear or Tint DEFAULT) 7b. (Clear) 92.0 ft² ☐
8. Floor types
 - a. Stem Wall R=0.0, 1676.0ft² ☐
 - b. N/A ☐
 - c. N/A ☐
9. Wall types
 - a. Concrete, Int Insul, Exterior R=6.0, 1195.0 ft² ☐
 - b. Frame, Wood, Adjacent R=6.0, 258.0 ft² ☐
 - c. N/A ☐
 - d. N/A ☐
 - e. N/A ☐
10. Ceiling types
 - a. Under Attic R=30.0, 1676.0 ft² ☐
 - b. Under Attic R=30.0, 96.0 ft² ☐
 - c. N/A ☐
11. Ducts
 - a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6.0, 115.0 ft ☐
 - b. N/A ☐

12. Cooling systems
 - a. Central Unit Cap: 35.0 kBtu/hr ☐
SEER: 13.00 ☐
 - b. N/A ☐
 - c. N/A ☐
13. Heating systems
 - a. Electric Heat Pump Cap: 35.0 kBtu/hr ☐
HSPF: 7.70 ☐
 - b. N/A ☐
 - c. N/A ☐
14. Hot water systems
 - a. Electric Resistance Cap: 40.0 gallons ☐
EF: 0.92 ☐
 - b. N/A ☐
 - c. Conservation credits
(HR-Heat recovery, Solar
DHP-Dedicated heat pump) ☐
15. HVAC credits CF, ☐

(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating)

Glass/Floor Area: 0.08

Total as-built points: 24373

Total base points: 26277

PASS

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

PREPARED BY: JD Harnett
DATE: 2-19-07

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

OWNER/AGENT: JD Harnett
DATE: 2-19-07

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

BUILDING OFFICIAL: _____
DATE: _____



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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.4

The higher the score, the more efficient the home.

Michael & Heather Swayze, 152 SW Atlas Dr, Ft. White, FL, 32038-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 35.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1676 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 92.0 ft ²		HSPF: 7.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 92.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Stem Wall	R=0.0, 1676.0ft ²	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Concrete, Int Insul, Exterior	R=6.0, 1195.0 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=6.0, 258.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	CF,
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, 1676.0 ft ²	MZ-C-Multizone cooling,	
b. Under Attic	R=30.0, 96.0 ft ²	MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 115.0 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: JO Harnett

Date: 2-14-07

Address of New Home: 152 SW Atlas Dr

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

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 152 SW Atlas Dr, Ft. White, FL, 32038-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

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

ADDRESS: 152 SW Atlas Dr, Ft. White, FL, 32038-

PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit = Total Multiplier
3		2635.00	7905.0	40.0	0.92	3		1.00	2635.00	1.00 7905.0
				As-Built Total: 7905.0						

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Cooling	+	Heating	=
Points		Points		Points	Total	Points		Points	Total
9399		8973		7905	26277	5605		10863	7905 24373

PASS

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 152 SW Atlas Dr, Ft. White, FL, 32038-

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 14302.1				Winter As-Built Points: 19628.4									
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
14302.1		0.6274	8973.2	(sys 1: Electric Heat Pump 35000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 19628.4 1.000 (1.069 x 1.169 x 1.00) 0.443 1.000 10862.8									
14302.1		0.6274	8973.2	19628.4	1.00	1.250	0.443	1.000					10862.8

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 152 SW Atlas Dr, Ft. White, FL, 32038-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X WPM X WOF = Point				
.18	1676.0	12.74	3843.4	Double, Clear	E	2.0	5.7	34.0	18.79	1.07	681.6
				Double, Clear	E	2.0	5.7	25.0	18.79	1.07	501.2
				Double, Clear	W	2.0	5.7	50.0	20.73	1.05	1085.6
				Double, Clear	N	2.0	5.7	25.0	24.58	1.01	617.7
				As-Built Total:				134.0	2886.1		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	258.0	3.60	928.8	Concrete, Int Insul, Exterior	6.0		1195.0	5.15	6154.2		
Exterior	1195.0	3.70	4421.5	Frame, Wood, Adjacent	6.0		258.0	5.26	1356.3		
Base Total:		1453.0	5350.3	As-Built Total:				1453.0	7510.6		
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	22.0	11.50	253.0	Exterior Insulated			22.0	8.40	184.8		
Exterior	65.0	12.30	799.5	Exterior Insulated			43.0	8.40	361.2		
				Adjacent Insulated			22.0	8.00	176.0		
Base Total:		87.0	1052.5	As-Built Total:				87.0	722.0		
CEILING TYPESArea X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1676.0	2.05	3435.8	Under Attic	30.0		1676.0	2.05 X 1.00	3435.8		
				Under Attic	30.0		96.0	2.05 X 1.00	196.8		
Base Total:		1676.0	3435.8	As-Built Total:				1772.0	3632.6		
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	Stem Wall	0.0		1676.0	3.50	5866.0		
Raised	1676.0	0.96	1609.0								
Base Total:			1609.0	As-Built Total:				1676.0	5866.0		
INFILTRATION Area X BWPM = Points						Area X WPM = Points					
	1676.0	-0.59	-988.8					1676.0	-0.59	-988.8	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 152 SW Atlas Dr, Ft. White, FL, 32038-

PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 22031.3			Summer As-Built Points: 17975.8					
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
22031.3	0.4266	9398.5	(sys 1: Central Unit 35000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 17976 1.00 (1.09 x 1.147 x 1.00) 0.263 0.950 5605.3 17975.8 1.00 1.250 0.263 0.950 5605.3					

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 152 SW Atlas Dr, Ft. White, FL, 32038-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X SPM X SOF = Points				
.18	1676.0	20.04	6045.7	Double, Clear	E	2.0	5.7	34.0	42.06	0.83	1190.5
				Double, Clear	E	2.0	5.7	25.0	42.06	0.83	875.4
				Double, Clear	W	2.0	5.7	50.0	38.52	0.83	1606.5
				Double, Clear	N	2.0	5.7	25.0	19.20	0.89	427.7
				As-Built Total:			134.0			4100.1	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	258.0	0.70	180.6	Concrete, Int Insul, Exterior	6.0		1195.0	0.85		1015.8	
Exterior	1195.0	1.70	2031.5	Frame, Wood, Adjacent	6.0		258.0	1.00		258.0	
Base Total:		1453.0	2212.1	As-Built Total:		1453.0		1273.8			
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	22.0	2.40	52.8	Exterior Insulated	22.0 4.10 90.2						
Exterior	65.0	6.10	396.5	Exterior Insulated	43.0 4.10 176.3						
				Adjacent Insulated	22.0 1.60 35.2						
Base Total:		87.0	449.3	As-Built Total:		87.0 301.7					
CEILING TYPES Area X BSPM = Points				Type	R-Value	Area X SPM X SCM = Points					
Under Attic	1676.0	1.73	2899.5	Under Attic	30.0	1676.0	1.73 X 1.00 2899.5				
				Under Attic	30.0	96.0	1.73 X 1.00 166.1				
Base Total:		1676.0	2899.5	As-Built Total:		1772.0 3065.6					
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM = Points					
Slab	0.0(p)	0.0	0.0	Stern Wall	0.0	1676.0	-4.70 -7877.2				
Raised	1676.0	-3.99	-6687.2								
Base Total:		-6687.2		As-Built Total:		1676.0 -7877.2					
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1676.0	10.21	17112.0	1676.0 10.21 17112.0							

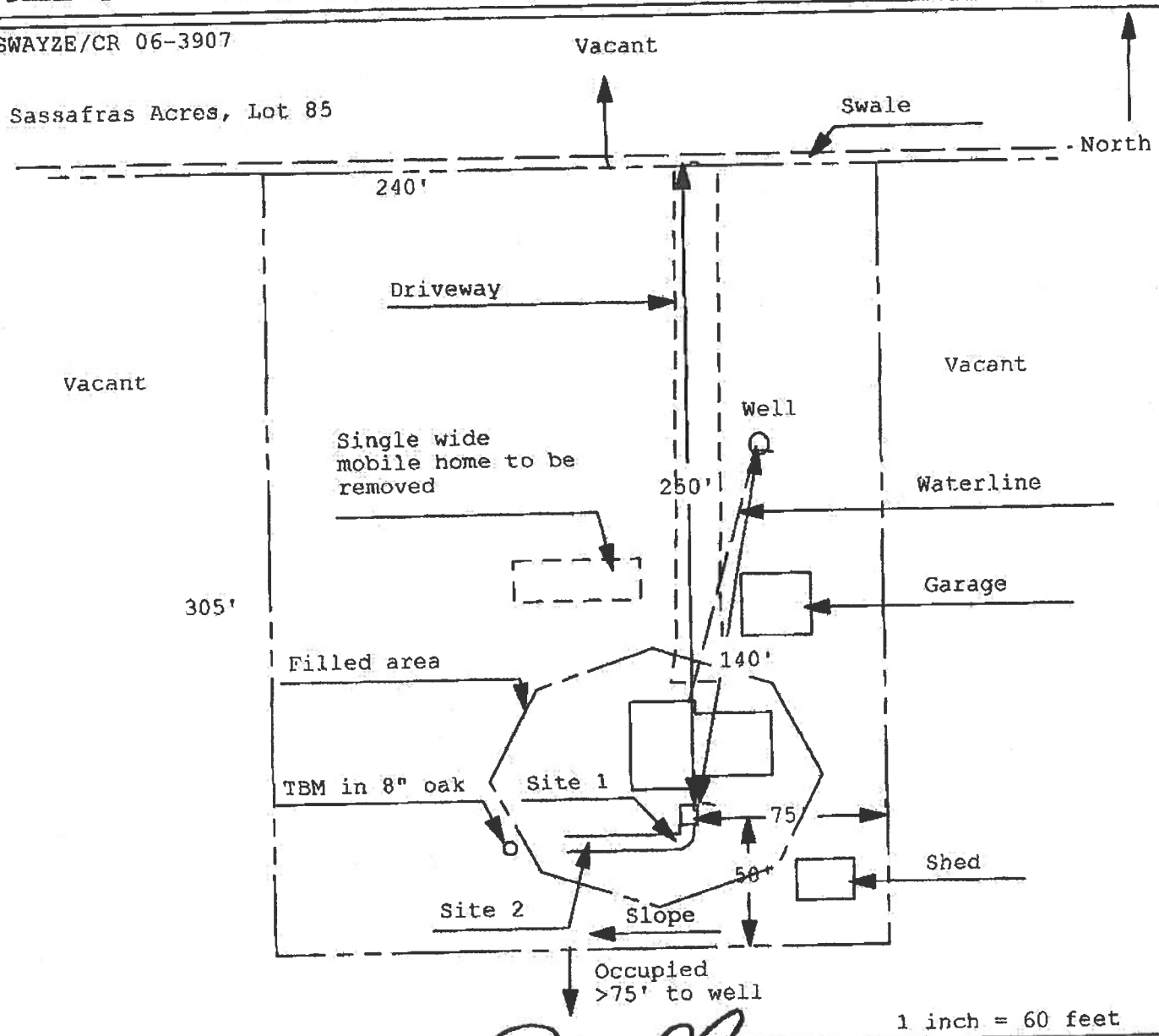
07-194

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

Permit Application Number: 12-SG-112450

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SWAYZE/CR 06-3907



Site Plan Submitted By Paul L. Lapp Date 3/5/07
Plan Approved X Not Approved _____ Date _____
By Salbe Thaddy ESU 3.12.07 CPHU
Notes: _____
Columbia CHD

STRUCTURAL CALCULATIONS

FOR
SWAYZE RESIDENCE
LOCATION

w s e

WAYLAND

STRUCTURAL ENGINEERING

8200 SW 16th Place Gainesville, FL 32607

Phone/Fax 352-331-0727

FL COA #8236

Project Number
07026

February 12, 2007

Prepared For:
HOMES BY HOUSECRAFT, LLC
12523 NW US Highway 441
Alachua, FL 32615

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FILE COPY

GREGORY S. WAYLAND, PE
FL PE #54396



2/12/07

Raised seal at right indicates an original copy of this document by WSE.
Any copy without this seal was unlawfully obtained and user of document is
subject to prosecution.

WAYLAND STRUCTURAL ENGINEERING		Date: 2/12/2007
Gregory S. Wayland, PE	FL PE #54396	By: GSW
8200 SW 16th Place Gainesville, FL 32607	FL COA #8236	Page: 1
Project Name: SWAYZE RESIDENCE		For: Homes by Housecraft, LLC
WSE Project Number: 07026		12523 NW US Hwy 441
Project Location:		Alachua, Florida 32615

STRUCTURAL SPECIFICATION

A. GENERAL

- This STRUCTURAL SPECIFICATION shall be considered part of the contract documents for this project and shall be attached to the drawings prepared by: **HOMES BY HOUSECRAFT, LLC** Date: _____
- Roof truss layout, uplift loads and gravity loads relied upon for design of supporting walls, lintels, headers, footings, etc. prepared by: **BUILDERS FIRST SOURCE** Date: 2/6/2007
- Information and materials specified in this STRUCTURAL SPECIFICATION shall take precedence over that shown on the drawings.
- Signing and sealing this document and/or the construction drawings by Wayland Structural Engineering certifies only the structural systems for this building, and is not a certification of the site plan, architectural, electrical, mechanical, plumbing or other systems that may be shown on the same drawing. WSE is not responsible for changes made to this document by others without written consent.
- It is assumed that this building site is not located within a 100 year floodplain and is not designed for hydrostatic or moving water loads.

B. GOVERNING CODE

FLORIDA BUILDING CODE, 2006 SUPPLEMENT

C. DESIGN LOADS

1. Dead Loads (Section 1606)			4. Wind Loads (Section 1609)		
Roof Top Chord	10	psf	Enclosure Classification	Enclosed	
Roof Bottom Chord	10	psf	Basic Wind Speed (3 sec. gust)	110	mph
Floor	10	psf	Wind Importance Factor, Iw	1.0	
2. Live Loads (Section 1607)			Exposure Category	B	
Floor Live Load	40	psf	Internal Pressure Coefficients:	+0.18, -0.18	
Balconies	60	psf	Design Wind Pressures for Doors and Windows:		
Attics w/o storage	10	psf			
Attics w storage	20	psf			
3. Roof Live Loads (Section 1607.11.2)					
12:12 pitch	12	psf	Opening Area (sf)	Inward Pressure (psf)	Outward Pressure (psf)
10:12 pitch	14	psf	0-10	21.8	-29.1
8:12 pitch	16	psf	11-20	20.8	-27.2
6:12 pitch	18	psf	21-50	19.5	-24.6
Flat to 4:12 pitch	20	psf	51-100	18.5	-22.6

D. EARTHWORK

- General:**
 - OWNER/CONTRACTOR CAUTION:** A geotechnical or soil investigation has not been performed for this site. It is recommended that the Owner or Contractor employ the services of a geotechnical engineer to perform soil borings and provide recommendations for preparation of the soils specific to this building site, and confirm the soil type assumed in this specification. WSE has no knowledge of the on-site soils and therefore accepts no responsibility for their bearing capacity or performance.
 - Bearing soil is therefore presumed to be sandy soil with no organics, peat, clay, expansive clays, or boulders.
 - It is assumed that seasonal high groundwater table is well below footing bearing elevation.
 - The allowable soil bearing pressure is assumed to be 2,000 pounds per square foot.
 - If the Contractor or Building Inspector encounters organics, clays, silts, boulders or high groundwater levels during foundation excavation, engineer of record and/or geotechnical engineer shall be contacted and/or employed to assess conditions first hand and give direction for additional corrective work or modifications to the design that may need to be performed.
- Site Preparation:**
 - Strip all trees, grasses, topsoil and other organics from building footprint. Use root rake or similar equipment to remove roots.
 - Proofcompact existing grade with loaded dump truck or compactor to densify existing soils and identify soft or loose soils.
 - If soft soils are encountered during proofcompaction, overcut unsuitable material and replace with well graded sand. (See 1e. above)
- Excavation:**
 - Excavations are to be performed in accordance with current OSHA standards. Contractor is responsible for excavation safety.
 - Compact all excavation bottoms to firm unyielding condition. See B.6.c. for compaction requirement.
- Footing Bearing:**
 - All foundations are to bear on undisturbed sandy soil or compacted fill as described herein.
 - Bottom of footings are to extend at least 12 inches below grade.
- Ground/Surface Water Control:**
 - Excavation and backfill operations are to be maintained in a dry condition.
 - Slope or crown building subgrades to promote run-off and prevent ponding.
 - Surface and infiltrating water are to be removed by grading and pumping from sumps if required.
- Backfill and Compaction:**
 - Use only clean, well graded sand with no more than 10% passing #200 sieve for fill and backfill within building footprint.
 - Mechanically compact all backfill within building footprint in maximum 12" loose lifts to firm unyielding consistency.
 - Suggest compact to 95% of maximum dry density per Modified Proctor Test, ASTM D-1557.
- Pest Control:**
 - Treat all slab subgrades for termites in accordance with the Florida Building Code and local ordinances.
- Exterior Grading:**
 - Exterior grade is to be kept at least 6 inches below wood siding and/or foam insulation.
 - Slope exterior grade away from building to promote drainage.

WAYLAND STRUCTURAL ENGINEERING		Date: 2/12/2007
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8200 SW 16th Place Gainesville, FL 32607		Page: 2
FL PE #54396 Ph/Fax 352-331-0727		
Project Name: SWAYZE RESIDENCE		For: Homes by Housecraft, LLC
WSE Project Number: 07026		12523 NW US Hwy 441
Project Location: 0		Alachua, Florida 32615

STRUCTURAL SPECIFICATION (Continued)

E. CONCRETE

1. General: Comply with Florida Building Code, 2006 Supplement, Chapter 19, and ACI 301-99 Specifications for Structural Concrete.
2. Concrete:
 - a. Cement: ASTM C150, Type I Portland cement
 - b. Aggregate: ASTM C33, maximum aggregate size = 1 inch
 - c. Water/cement ratio: 0.50 maximum
 - d. Slump: 4 inches +/- 1 inch.
 - e. Air entraining: ASTM C 260, concrete is to be air entrained for mild exposure, 3 - 6%.

COMPRESSIVE STRENGTH, (psi) min. at 28 days	
Member	Strength
Footings, slabs-on-grade	2,500

3. Reinforcing: ASTM A615, Grade 40.

LAPS, BENDS, HOOKS			
Bar Size	Lap Length	Bend Diameter	Hook Length
#3	15"	2 1/4"	6"
#4	20"	3"	8"
#5	25"	3 3/4"	10"
#6	30"	4 1/2"	12"

BAR COVER	
Condition	Minimum Cover
Cast against and exposed to earth	3"
Exposed to earth or weather	1 1/2"
Not exposed to weather or earth	
Slabs, walls, joists	3/4"
Beams, columns (stirrups, ties)	1 1/2"

4. Footings:

BEARING WALL FOOTINGS			
Type	Width	Depth	Reinforcing
Stem wall	20"	10"	(3) #5

Corner bars: Provide 90 degree bend at all footing corners.

5. Slabs-On-Grade:

- a. Thickness: 4 in.
- b. Vapor retarder: 6 mil polyethylene, lap edges 6 inches.
- c. Reinforcing: Welded Wire Reinforcing (WWR): ASTM A185, 6x6-W1.4xW1.4 (6x6-10/10) sheets, lap edges minimum 10 inches, support on chairs @ 3'-0" o.c. each way.
WWR need not be installed on chairs if used in conjunction with fiber reinforcement.
(Optional) Fibrous Reinforcing: ASTM C 1116, Fibermesh "Stealth" or "Inforce e3" polypropylene fibers by SI Concrete Systems or equivalent. Add to concrete mix at rate of 1.5 lb/cy.
- d. Protection: Cure all slabs for 7 days using sprayed-on curing compound or continuous water sprinkling.
- e. Slab joints: As concrete slabs cure and dry out, they will shrink causing cracks to form in surface of slab.
Slab reinforcement is placed in slab to help limit width of cracks that do form. All slabs left exposed should be saw-cut in roughly 10'-0" squares.

F. MASONRY

1. General: Comply with the Florida Building Code, 2006 Supplement, Chapter 21 and ACI 530.1-02 Specifications for Masonry Structures.
2. Masonry: ASTM C90, Type 1, two core, normal weight units, 1,900 psi net area compressive strength.
3. Mortar: ASTM C270, Type M or S.
4. Grout: ASTM C476, fine or coarse grout, minimum 3,000 psi compressive strength at 28 days, 8-9 inch slump.
5. Joint Reinf.: (Optional) ASTM A951, truss type, hot-dip galvanized per ASTM A153, class B, 9 gauge wires spaced 16" o.c. vertically.
6. Reinforcing: ASTM A615, Grade 40. Provide clean-out at base of wall for pours over 5 feet high, lap bars 48 bar diameters.
 - a. Vertical: Provide #5 bars @ 7'-0" o.c. and at all corners and ends of walls.
Provide one vertical #5 bar in first cell at all window and door jambs. Provide (2) #5 at garage door jambs.
Provide (4) #5 vertical bars in all masonry columns.
 - b. Horizontal: Provide one #5 bar continuous in bond beam at top of wall.
 - c. Hooks: Provide standard 90 degree hook into footing at bottom and into bond beam at top of wall.
 - d. Corners: Provide 90 degree bend corner bars at all wall corners and intersections.
 - e. Lintels: Provide precast/pre-reinforced U-shaped concrete lintels over all openings sized for span and loading.

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Project Name: SWAYZE RESIDENCE		Page: 3
WSE Project Number: 07026	For: Homes by Housecraft, LLC	
Project Location: 0	12523 NW US Hwy 441	
	Alachua, Florida 32615	

STRUCTURAL SPECIFICATION (Continued)

G. WOOD FRAMING

1. **General:** Comply with the Florida Building Code, 2006 Supplement, Chapter 23.
2. **Trusses:**
 - a. Wayland Structural Engineering is not responsible for design and detailing or installation of engineered wood roof trusses.
 - b. Truss engineering drawings to be signed and sealed by Professional Engineer registered in State of Florida.
 - c. Truss manufacturer to Engineer trusses to support dead, live and wind loads per Florida Building Code, 2004 or ASCE 7-02.
 - d. Engineer trusses to comply with ANSI/TPI 1 "National Design Standard for Metal Plate Connected Wood Truss Construction."
 - e. Comply with TPI HIB "Commentary and Recommendations for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses."
 - f. Comply with TPI DSB "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses."
 - g. Truss spacing = 2'-0" o.c. maximum.
3. **Fascia Board:** No. 2, Spruce-Pine-Fir (SPF).
4. **Sheathing:**
 - a. **Roof Sheathing:** 15/32" thick, Oriented Strand Board (OSB), Sheathing Grade, Exposure 1.
Fasten with 8d common nails @ 6" o.c at panel edges, 12" o.c. along intermediate supports.
Lay panels perpendicular to supports, stagger joints one-half panel length. Provide "H" panel clips between panel supports.
Nail panel edges to fascia board.
 - b. **Wall Sheathing:** 15/32" thick, Oriented Strand Board (OSB), Sheathing Grade, Exposure 1.
Fasten with 8d nails @ 6" o.c at panel edges, 12" o.c. along intermediate supports.
Install panels vertically. Nail top edge to top plate. Provide solid blocking at all panel edges.
5. **Fasteners:**
 - a. **Nails:** Comply with Florida Building Code, 2006 Supplement, Table 2304.9.1, "Fastening Schedule."
 - b. **Epoxy:** Simpson "SET" or Hilti "HIT HY150" Epoxy Adhesive. Follow manufacturer's installation instructions exactly.
 - c. **Bolts:** ASTM A307, hot-dip galvanized, see plan for size and quantity.
 - d. **Uplift Anchors & Ties:** Simpson Strong-Tie.
 - e. **Corrosion Protection:** All fasteners exposed to weather or in contact with preservative treated wood shall be hot-dip galvanized to G185. For Simpson connectors, provide "Z-Max" coating.

H. WINDOWS, DOORS, SKYLIGHTS

1. **Design:** Wayland Structural Engineering is not responsible for the design, construction, or attachment of windows, doors or skylights.
The building envelope is designed assuming a fully enclosed condition, therefore windows, doors and skylights must be designed to support the same wind pressures that walls and roofs are designed for.
2. **Certification:** Window, door and skylight manufacturer shall submit certification indicating that window or door units can adequately support design wind pressures for the specified wind zone as shown in section C.4. above.
3. **Fastenings:** Window, door and skylight manufacturer is to provide fastening information for attachment to supporting construction.

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Project Name: SWAYZE RESIDENCE		Page: 4
WSE Project Number: 07026		For: Homes by Housecraft
Project Location:		12523 NW US Highway 441 Alachua, Florida 32615

A. UPLIFT CHECKS

1. BOND BEAM CHECK (upward bending)

Vertical bar spacing $s = 7.00$ ft
 Gross uniform uplift load $ug = -237$ plf (worst case from truss engineering)
 Bond beam weight $wd = 42$ plf (one course high x 8 inches wide)
 Calculated net uniform uplift load $un = -195$ plf

	Calc'd	Supplied	
Maximum net shear (kips)	U = 0.68	2.16	OK
Maximum net moment (kip-in)	M = 14.3	25.5	OK

*** USE ONE COURSE HIGH x 8 INCH WIDE MASONRY BOND BEAM WITH (1) #5 CONTINUOUS TOP**

2. VERTICAL BAR CHECK (upward tension)

Allowable reinforcing tension $F_s = 20,000$ psi
 Stress increase for wind $C_w = 1.33$

	* Calc'd Uplift (kips)	Vertical Reinforcing		** Supplied Uplift (kips)	
		Quantity	Size (#)		
For typical common trusses,	1.365	1	5	8.161	OK
For girder trusses, T01	0.921	1	5	8.161	OK
T13	1.063	1	5	8.161	OK
T16	2.647	1	5	8.161	OK
T19	2.008	1	5	8.161	OK

* uplift values taken from truss engineering.

** includes stress increase for wind.

USE (1) #5 VERTICAL BAR @ 7'-0" O.C. MAX, (2) #5 AT GARAGE JAMB.

3A. WALL + FOOTING + SOIL WEIGHT CHECK (uplift at common trusses)

Wall height	hw = 9.33 ft	Resisting Weight	
Wall thickness	tw = 8 in	Supplied	
Wall unit weight	ww = 52 psf		
Bond beam height	hbb = 8 in	Bond beam	58
Bond beam unit weight	wbb = 130 psf	Wall	450
Footing thickness	tf = 10 in	Footing	208
Footing width	bf = 20 in	Soil (inside)	67
Footing depth below slab	df1 = 26 in	Soil (outside)	33
Footing depth below grade	df2 = 18 in	Wr =	817 plf
Soil unit weight	ws = 100 psf		

Safety Factor Against Uplift $SF = 1.00$
 Gross uniform uplift load $ug = 237$ plf
 Required Resisting Weight, $Wr = SF \cdot ug = 237$ plf **OK**

USE MINIMUM 8" THICK MASONRY WALL WITH 10"X20" FOOTING WITH (3) #5 BARS CONTINUOUS.

3B. WALL + FOOTING + SOIL WEIGHT CHECK (uplift at girder truss bearing points and columns)

Girder Truss or Column	Downward Load (lb)	Uplift Load (lb)	Adjacent Uplift Load (plf)	*Required Uplift Load (lb)	**Resisting Weight (lb)	Rqd Footing ***Weight (lb)	Rqd Concrete Volume (cf)	Footing Thickness (in)	Min. Square Footing (ft)
T01	2,066	921	216	2,433	6,533	-4100	-26	10	0.0
T13	2,445	1,063	237	2,722	6,533	-3811	-24	10	0.0
T16 left	5,946	2,264	245	3,979	6,533	-2554	-16	10	0.0
T16 right	7,194	2,647	245	4,362	6,533	-2171	-13	10	0.0
T17	1,862	844	205	2,279	6,533	-4254	-27	10	0.0
T19 left	4,190	1,693	205	3,128	6,533	-3405	-21	10	0.0
T19 right	5,450	2,008	205	3,443	6,533	-3090	-19	10	0.0

** Resisting weight equals weight of wall, footing, soil for 4 feet each side of load point.

*** Required footing weight equals weight required in addition to 16" x 20" footing.

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Project Name: SWAYZE RESIDENCE			For: Homes by Housecraft
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B. LINTELS

1. TYPICAL LINTELS (with uniform load only)

	Unit Load (psf)	Trib. Width (ft)	Uniform Load (kips/ft)	Load Factor	Factored Uniform Load (kips/ft)
Roof Dead Load	15	16.00	0.240	1.40	0.336
Wall Dead Load	87	1.33	0.116	1.40	0.162
Roof Live Load	16	16.00	0.256	1.70	0.435
Roof Attic Load	10	16.00	0.160	1.70	0.272
		w =	0.772	wu =	1.205

*Uplift Load 0.253 1.60 0.405 (*from truss engineering)

Lintel Span	L =	4.67	6.33					ft
Unfactored Reaction	R =	1.80	2.44					kips
Unfactored Net Uplift Reaction	Unet =	0.43	0.58					kips
Factored Uplift Moment	Munet =	0.50	0.92					kip-ft
Factored Shear	Vu =	2.81	3.81					kips
Factored Design Shear	Vud =	1.41	2.41					kips
Factored Moment	Mu =	3.29	6.04					kip-ft
Select Lintel		TYPE A FILLED/ W 1 COURSE MASONRY	TYPE B FILLED/ W 1 COURSE MASONRY					

4. 16'-0" GARAGE LINTEL (with no girder truss bearing)

	Unit Load (psf)	Trib. Width (ft)	Uniform Load (kips/ft)	Load Factor	Factored Uniform Load (kips/ft)
Roof Dead Load	15	5.00	0.075	1.40	0.105
Wall Dead Load	87	1.33	0.116	1.40	0.162
Roof Live Load	16	5.00	0.080	1.70	0.136
Roof Attic Load	10	5.00	0.050	1.70	0.085
		w =	0.321	wu =	0.488

*Uplift Load 0.102 1.60 0.163 (*from truss engineering)

Lintel Span	L =	16.00	ft
Unfactored Reaction	R =	2.57	kips
Unfactored Net Uplift Reaction	Unet =	0.26	kips
Factored Uplift Moment	Munet =	1.04	kip-ft
Factored Shear	Vu =	3.90	kips
Factored Design Shear	Vud =	3.33	kips
Factored Moment	Mu =	15.62	kip-ft

***USE TYPE E FILLED W/ ONE COURSE MASONRY**

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Project Name: SWAYZE RESIDENCE		Page: 6
WSE Project Number: 07026	For: Homes by Housecraft	
Project Location: 0	12523 NW US Highway 441	
	Alachua, Florida 32615	

C. HORIZONTAL FORCES ON WALLS & TRUSSES

1. TYPICAL WALL

Wall height	9.33	ft	
Wind pressure	22.6	psf	(Zone 5)
Uniform lateral load	105	plf	(Top & Bottom of Wall)
Lateral force on Truss	211	lb/truss	(Based on 2 ft. spacing, perpendicular to wall)

WAYLAND STRUCTURAL ENGINEERING		Date: 2/12/2007
Gregory S. Wayland, PE 8200 SW 16th Place Gainesville, FL 32607		By: GSW
FL PE #54396 Ph/Fax 352-331-0727		Page: 7
Project Name: SWAYZE RESIDENCE		For: Homes by Housecraft
WSE Project Number: 07026		12523 NW US Highway 441
Project Location: 0		Alachua, Florida 32615

D. LATERAL ANALYSIS

1. Building Data

Building Length L = 64.00 ft
 Building Width B = 46.50 ft
 Eave Height he = 8.00 ft
 Peak ht above eave hp = 7.00 ft
 Roof Slope 6 /12

2. Edge Zone

a = 0.10*B = 4.65 ft
 a = 0.40*h = 3.20 ft
 a = 0.04*B = 1.86 ft
 a = 3.00 ft
 a = 3.20 ft

3. End Zone

z = 2*a = 6.40 ft

4. LONGITUDINAL DIRECTION

Exposure Category
 Adjustment Coefficient
 MWFRS Wind Pressures:

Wall Interior Zone 12.7 psf
 Wall End Zone 19.2 psf
 Roof Interior Zone -5.9 psf
 Roof End Zone -10.0 psf

Wall Shear Force:

Interior 1.71 kips
 End 0.98 kips
 Total 2.70 kips

Roof Shear Force:

Interior -1.01 kips
 End -0.20 kips
 Total -1.22 kips
 Use 0.00 kips

Total Shear Force:

V = 2.70 kips

Roof Diaphragm Check:

Diaphragm shear v = 21 plf
 Allowable shear v = 240 plf
 check OK

Roof Truss Lateral Load: (perpendicular to truss)

Load per truss v = 42 lb/truss

Shear Wall Check:

Shear wall length d = 12.67 ft
 Shear wall height h = 9.33 ft
 Shear wall effective thickness be = 2.50 in
 Masonry strength fm = 1500 psi
 Actual Shear V = 1.35 kips
 Overturning moment M = 12.57 kip-ft
 Actual shear stress fv = 3.5 psi
 check OK

Allowable shear stress

M/V*d

M/V*d >= 1.0

Allowable shear stress

0.74
 NO
 Fv1 = 42.13 psi
 Fv2 = 46.86 psi
 Fv = 42.13 psi

5. TRANSVERSE DIRECTION

MWFRS Wind Pressures:

Wall Interior Zone 17.7 psf
 Wall End Zone 26.6 psf
 Roof Interior Zone -3.9 psf
 Roof End Zone -7.0 psf

Wall Shear Force:

Interior 3.62 kips
 End 1.36 kips
 Total 4.99 kips

Roof Shear Force:

Interior -1.02 kips
 End -0.14 kips
 Total -1.16 kips
 Use 0.00 kips

Total Shear Force:

V = 4.99 kips

Roof Diaphragm Check:

Diaphragm shear v = 54 plf
 Allowable shear v = 240 plf
 check OK

Roof Truss Lateral Load: (perpendicular to truss)

Load per truss v = 107 lb/truss

USE 15/32" OSB SHEATHING GRADE W/ 8d NAILS @ 6" O.C. EDGE, 12" O.C. FIELD

Shear Wall Check:

Shear wall length d = 7.33 ft
 Shear wall height h = 9.33 ft
 Shear wall effective thickness be = 2.50 in
 Masonry strength fm = 1500 psi
 Actual Shear V = 2.49 kips
 Overturning moment M = 23.26 kip-ft
 Actual shear stress fv = 11.3 psi
 check OK

Allowable shear stress

M/V*d

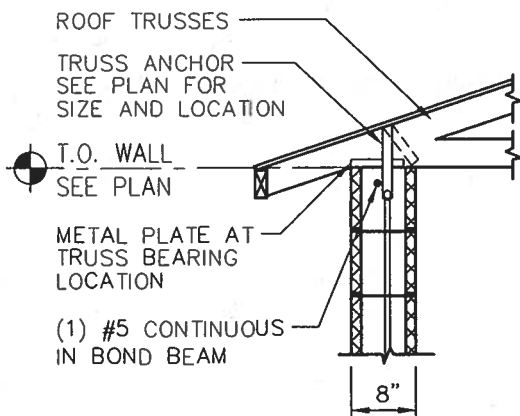
M/V*d >= 1.0

Allowable shear stress

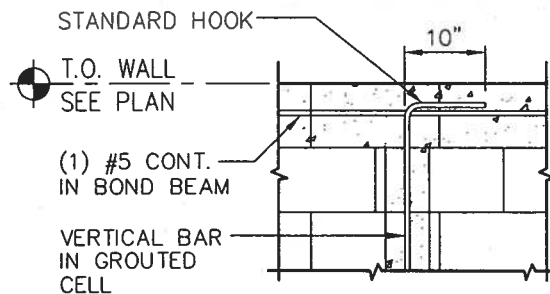
1.27
 YES
 Fv1 = 38.73 psi
 Fv2 = 35.00 psi
 Fv = 35.00 psi

USE 8" CMU W/ TYPE S MORTAR, FACE SHELL BEDDING, GROUT ONLY AT REINFORCED CELLS.

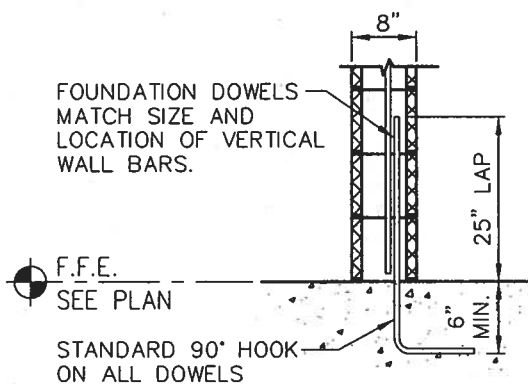
ANCHOR ALLOWABLE LOAD TABLE					
Simpson Anchor	Upward Loads		Lateral Loads		Downward Loads
	(133)	(160)	F1	F2	
META16	1450	1450	335	635	
HETA16	1805	1810	335	730	
MGT	3965	3965			



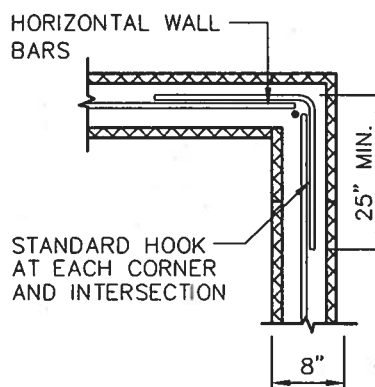
1 EXTERIOR TRUSS BEARING
1/2" = 1'-0"



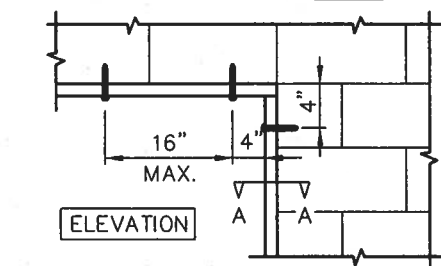
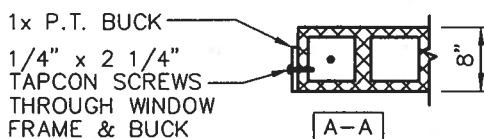
2 HOOK TO BOND BEAM
1/2" = 1'-0"



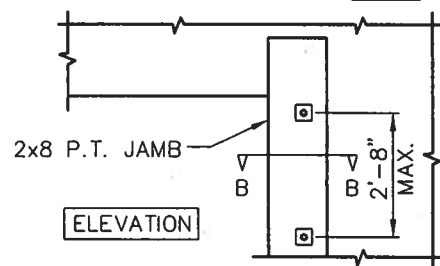
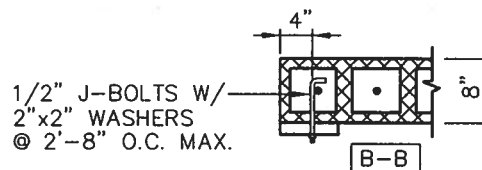
3 WALL BASE
1/2" = 1'-0"



4 WALL CORNER REINFORCING
1/2" = 1'-0"



5 DOOR/WINDOW BUCK
1/2" = 1'-0"



6 GARAGE DOOR BUCK
1/2" = 1'-0"

w s e

WAYLAND
STRUCTURAL ENGINEERING

Gregory S. Wayland, PE 8200 SW 16th Place
Gainesville, FL 32607
Florida PE #54396 Phone (352) 331-0727
COA #8236 Fax (352) 331-0727

DWG. NAME: TYPICAL CMU WALL DETAILS

SCALE: VARIES

PROJECT NAME:
SWAYZE RESIDENCE

PROJECT NO: 07026

DWG. NO.

DRAWN BY: GSW

DATE: 2/12/2007

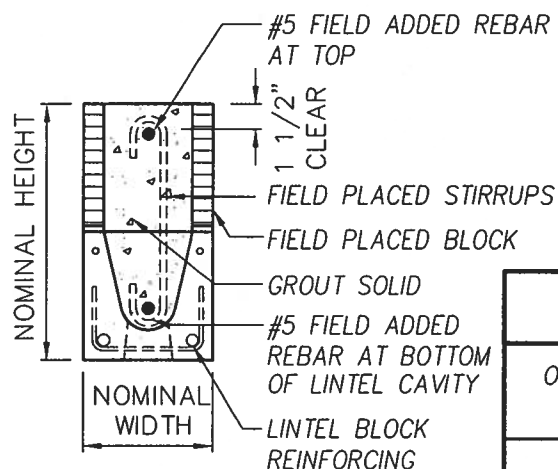
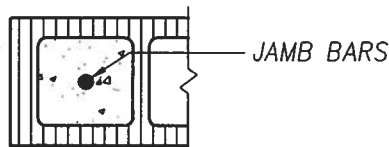
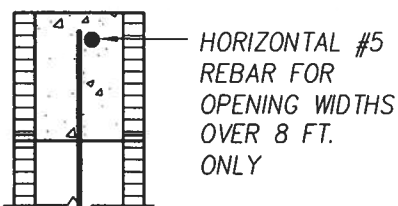
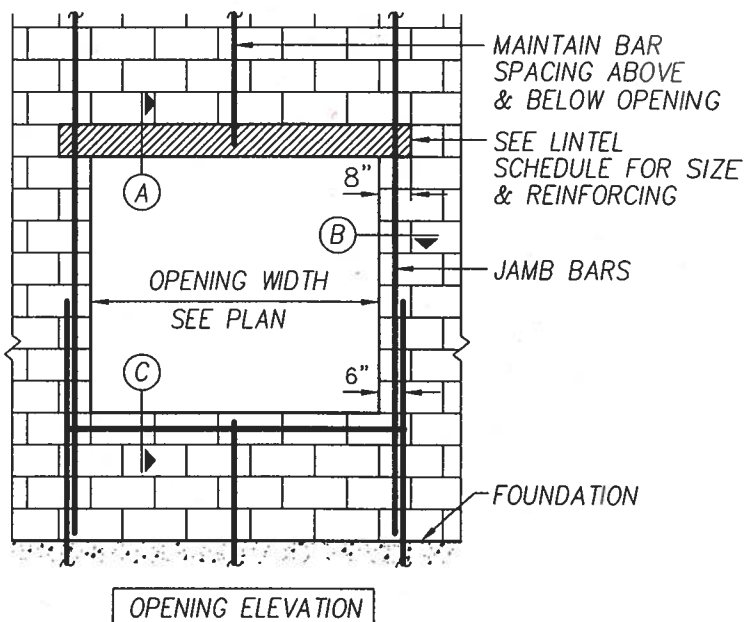
CMU1

LINTEL DESIGNATION

F = FILLED WITH GROUT/ U = UNFILLED

QUANTITY OF #5 FIELD ADDED REBAR AT BOTTOM OF LINTEL CAVITY

8F16-1B/1T

NOMINAL HEIGHT
NOMINAL WIDTHQUANTITY OF #5
FIELD ADDED REBAR
AT TOPHEAD
SECTION AJAMB
SECTION BSILL
SECTION C

LINTEL SCHEDULE

LINTEL SCHEDULE					
OPENING WIDTH	LINTEL DESIGNATION	STIRRUPS	JAMB BARS	LOADS (PLF)	
				GRAVITY	UPLIFT
8" WIDE PRECAST U-LINTEL					
UP TO 5'-2"	8F16-1B/1T	NONE	(1) #5	4360	2093
5'-3" THRU 6'-10"	8F16-1B/1T	NONE	(1) #5	2661	1634
6'-11" THRU 9'-10"	8F16-1B/1T	NONE	(1) #5	1533	914
9'-11" THRU 13'-4"	8F16-1B/1T	NONE	(1) #5	1002	559
8" WIDE PRECAST RECESSED U-LINTEL					
UP TO 5'-2"	8RF6-1B/1T	NONE	(1) #5	4242	1900
5'-3" THRU 9'-0"	8RF14-1B/1T	NONE	(1) #5	1568	931
8" WIDE PRESTRESSED U-LINTEL					
13'-5" THRU 18'-8"	8F16-1B/1T	#3@8"	(2) #5	750	347
OR	8F20-1B/1T	NONE	(2) #5	1037	446
18'-9" THRU 23'-4"	8F24-1B/1T	#3@8"	(2) #5	884	416
OR	8F28-1B/1T	NONE	(2) #5	1092	491

1. PRECAST U-BLOCK BY CAST-CRETE OR EQUAL.
2. BEAR ALL LINTELS MINIMUM 8 INCHES EACH END.
3. FILL LINTELS WITH 3,000 PSI GROUT.

w s e

WAYLAND
STRUCTURAL ENGINEERING

Gregory S. Wayland, PE 8200 SW 16th Place
Gainesville, FL 32607
Florida PE #54396 Phone (352) 331-0727
COA #8236 Fax (352) 331-0727

DWG. NAME: TYPICAL CMU WALL DETAILS

SCALE: VARIES

PROJECT NAME:
SWAYZE RESIDENCE

PROJECT NO: 07026

DWG NO.

DRAWN BY: GSW

DATE: 2/12/2007

CMU2

TRUSS LAYOUT

[illegible]

LATERAL TOE-NAIL DETAIL

STATOENAIL

MITek Industries, Chesterfield, MO Page 1 of 1

NOTES:

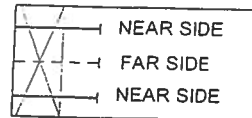
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

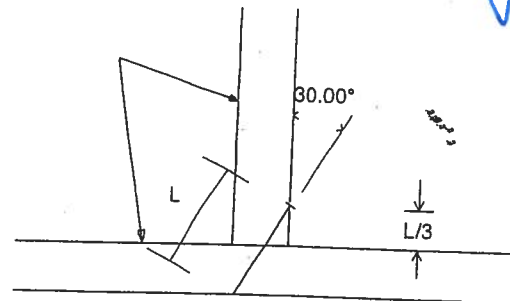
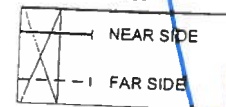
	DIAM.	SYP
3.5" LONG	.131	83.3
	.135	89.6
	.162	118.3
3.25" LONG	.128	80.5
	.131	83.3
	.148	102.1
3.0" LONG	.120	70.5
	.128	80.5
	.131	83.3
	.148	102.1

SQUARE CUT

SIDE VIEW
(2x4, 2x6)
3 NAILS



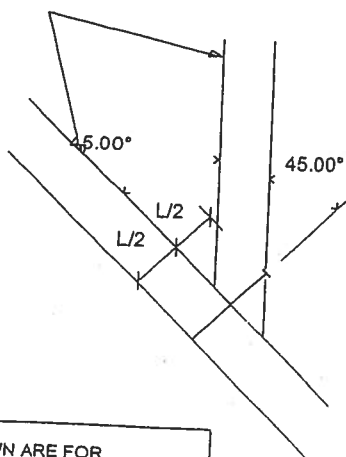
SIDE VIEW
(2x3)
2 NAILS



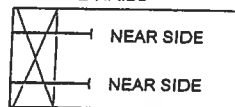
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

45 DEGREE ANGLE BEVEL CUT

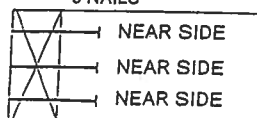
This detail may only be applied to Pre-engineered truss drawings signed and sealed by Structural Engineering and Inspections Inc.



SIDE VIEW
(2x3, 2x4)
2 NAILS



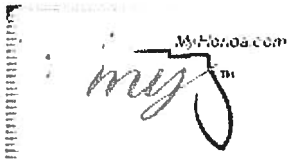
SIDE VIEW
(2x6)
3 NAILS



VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any particular building design is the responsibility of the building designer.

FEB 07 2007



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Term Glossary

Online Help

Licensee Details**Licensee Information**

Name: **HARRINGTON, JOHN D (Primary Name)**
HOMES BY HOUSE CRAFT, L.L.C. (DBA Name)
Main Address: **24113 NW OLD BELLAMY RD**
HIGH SPRINGS Florida 32643
County: **ALACHUA**

License Mailing:

LicenseLocation: **24113 NW OLD BELLAMY RD**
HIGH SPRINGS FL 32643
County: **ALACHUA**

License Information

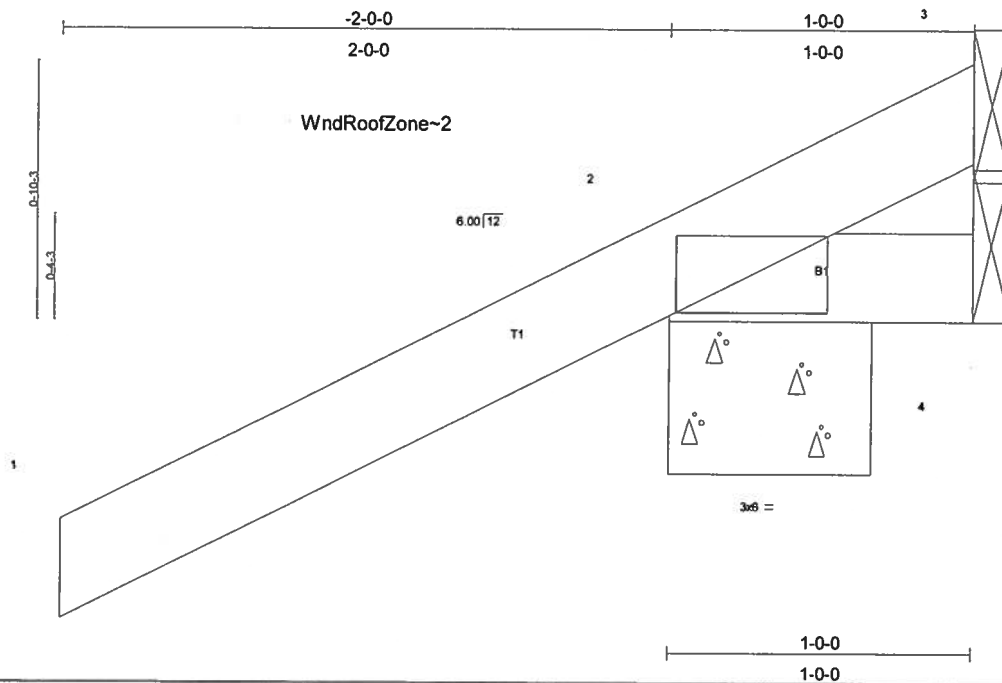
License Type: **Certified General Contractor**
Rank: **Cert General**
License Number: **CGC038861**
Status: **Current,Active**
Licensure Date: **12/05/1986**
Expires: **08/31/2008**

Special Qualifications Qualification Effective**Bldg Code Core Course Credit****Qualified Business License Required 02/20/2004**[View Related License Information](#)[View License Complaint](#)[Terms of Use](#) | [Privacy Statement](#)

Job	Truss	Truss Type	Qty	Ply	HOMES BY HOUSE CRAFT
L225956	CJ1	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 06 16:17:12 2007 Page 1



Scale = 1:7.2

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.28	Vert(LL) -0.00 2	>999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.01	Vert(TL) -0.00 2	>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: 7 lb

LUMBER

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

BRACING

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

REACTIONS (lb/size) 2=275/0-8-0, 4=14/Mechanical, 3=-100/Mechanical
Max Horz 2=87(load case 5)

Max Horz 2=87(load case 5)

Max Uplift2=-286(load case 5), 3=-100(load case 1)

Max Grav 2=275(load case 1), 4=14(load case 1), 3=138(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-75/85

BOT CHORD 2-4=0/0

NOTES

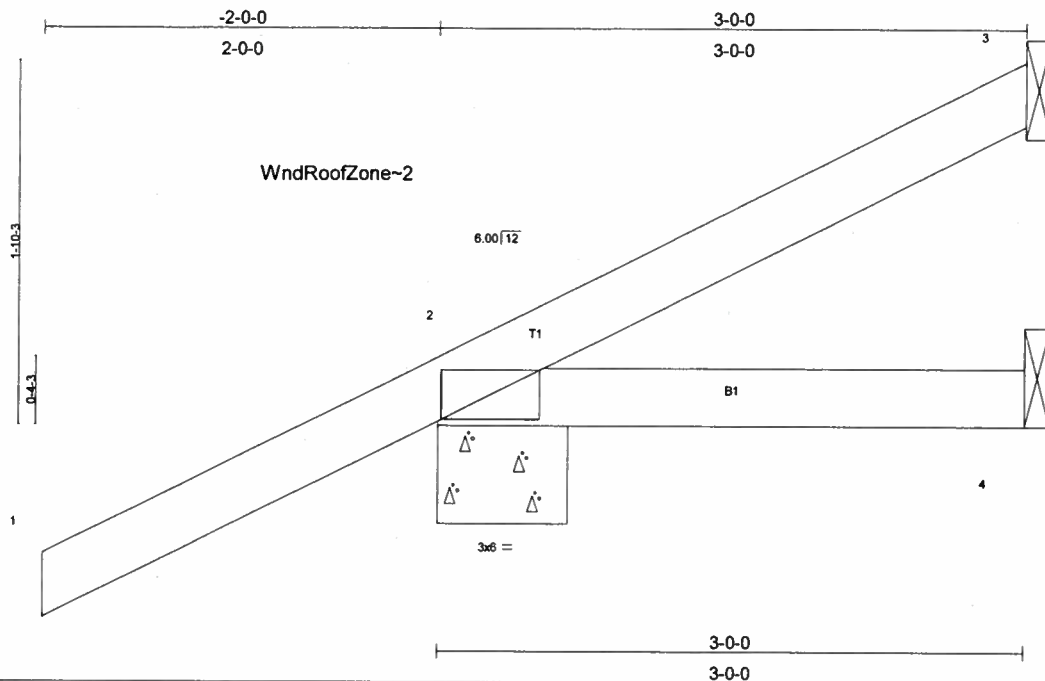
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2 and 100 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L225956	Truss CJ3	Truss Type JACK	Qty 12	Ply 1	HOMES BY HOUSE CRAFT
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 06 16:17:15 2007 Page 1		



LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.05	Vert(LL) -0.00 2-4 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Vert(TL) -0.00 2-4 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
Weight: 13 lb					

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

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

REACTIONS (lb/size) 3=14/Mechanical, 2=292/0-8-0, 4=39/Mechanical
Max Horz 2=132(load case 5)
Max Uplift 3=-22(load case 6), 2=-222(load case 5)
Max Grav 3=18(load case 3), 2=292(load case 1), 4=39(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=63/8
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 22 lb uplift at joint 3 and 222 lb uplift at joint 2.

LOAD CASE(S) Standard

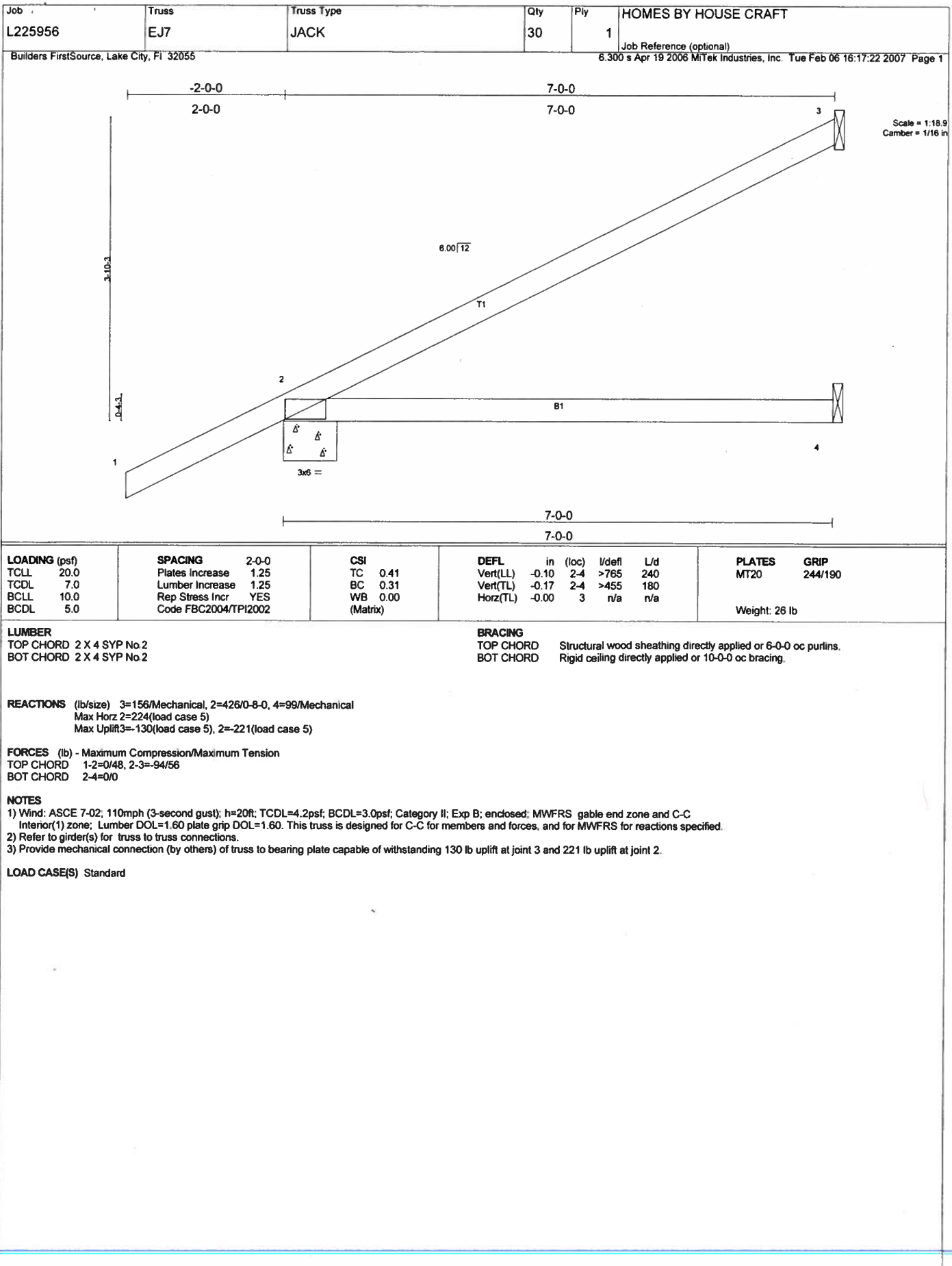
Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 06 16:17:19 2007 Page 1



Weight: 19 lb

**FEBRUARY 07, 2007 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 , L225956	Truss HJ9	Truss Type MONO TRUSS	Qty 6	Ply 1	HOMES BY HOUSE CRAFT
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.300 s Apr 19 2006 Mitek Industries, Inc. Tue Feb 06 16:17:26 2007 Page 1		

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.61	Vert(LL) -0.10	6-7 >999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.57	Vert(TL) -0.17	6-7 >681	180		
BCLL 10.0	Rep Stress Incr NO	WB 0.45	Horz(TL) 0.01	5 n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)					
						Weight: 45 lb	

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

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

REACTIONS (lb/size) 4=269/Mechanical, 2=533/1-0-1, 5=373/Mechanical
Max Horz 2=265(load case 2)
Max Uplift4=-231(load case 2), 2=-274(load case 2), 5=-59(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=0/45, 2-8=0/45, 2-3=-873/105, 3-4=-105/66
BOT CHORD 2-7=294/805, 6-7=294/805, 5-6=0/0
WEBS 3-7=0/180, 3-6=-837/306

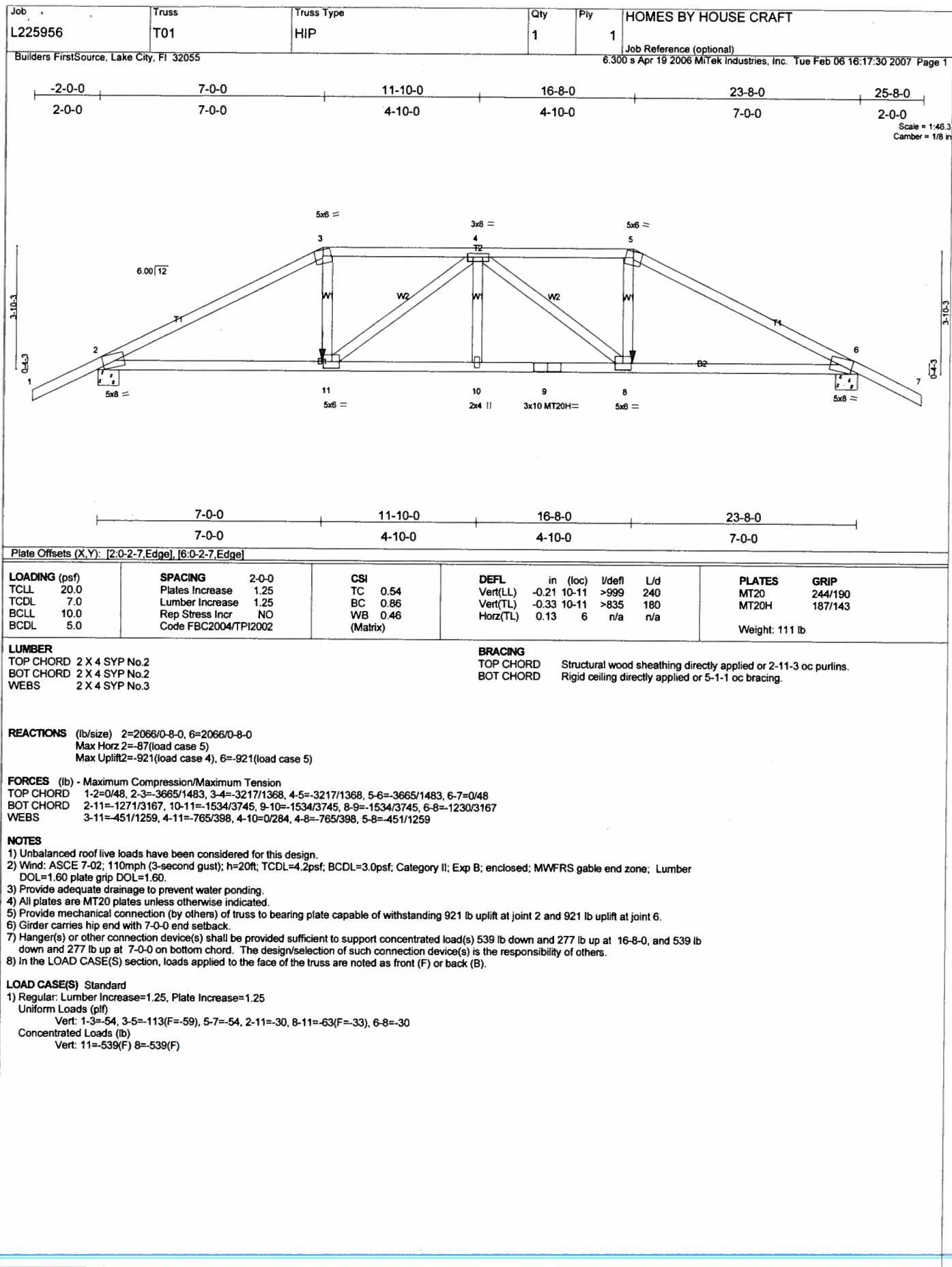
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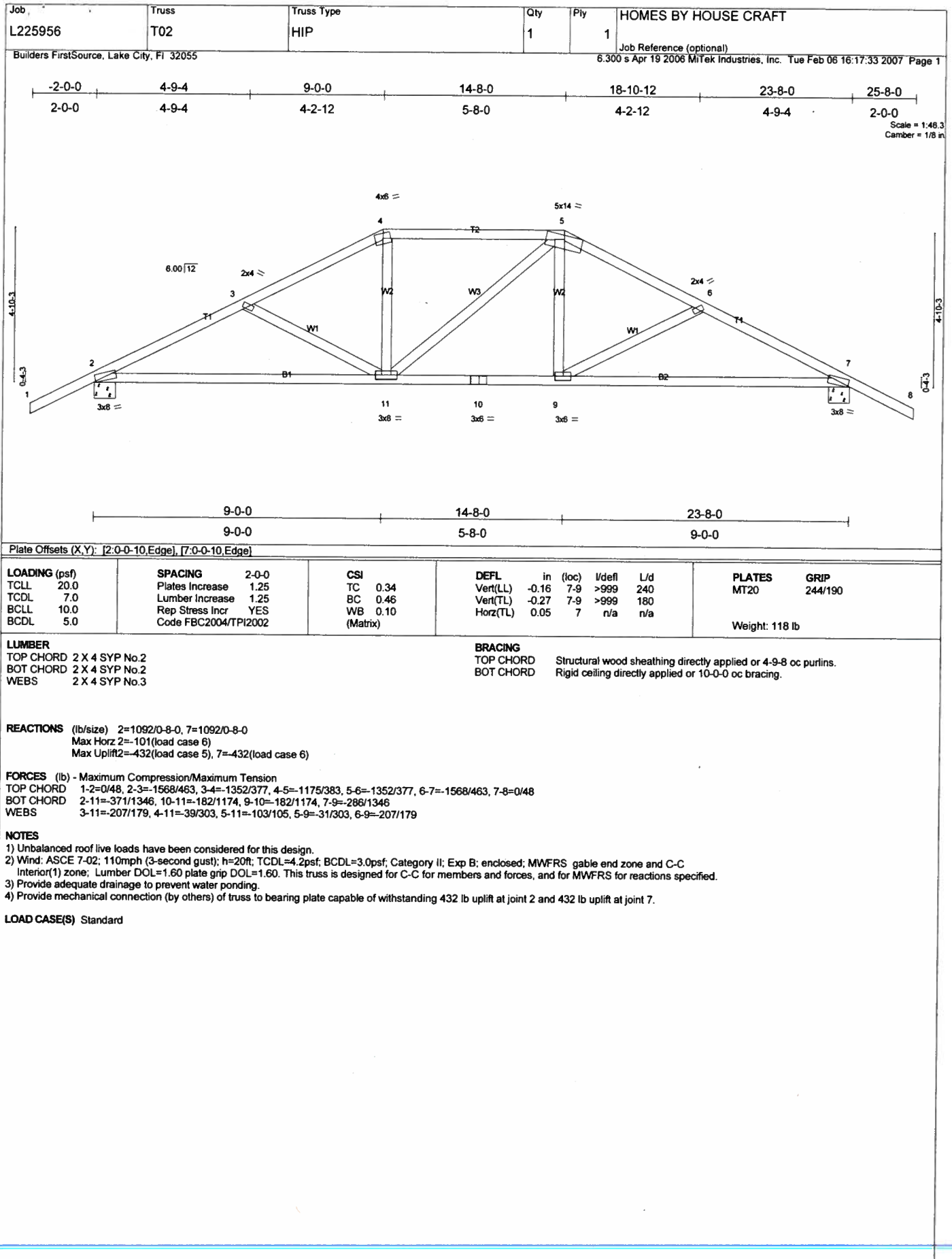
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCFL=4.2psf; BCLF=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 274 lb uplift at joint 2 and 59 lb uplift at joint 5.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

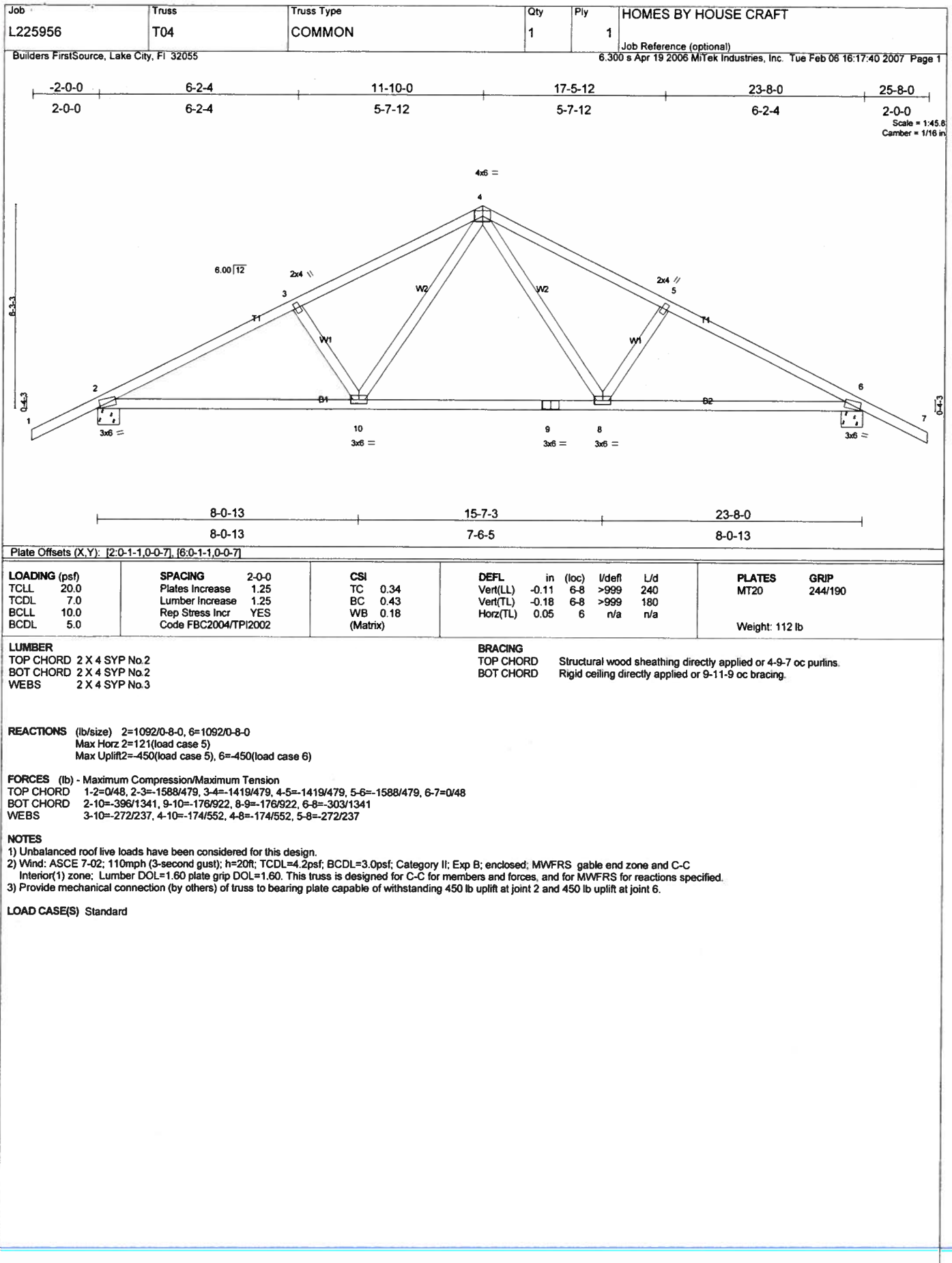
LOAD CASE(S) Standard

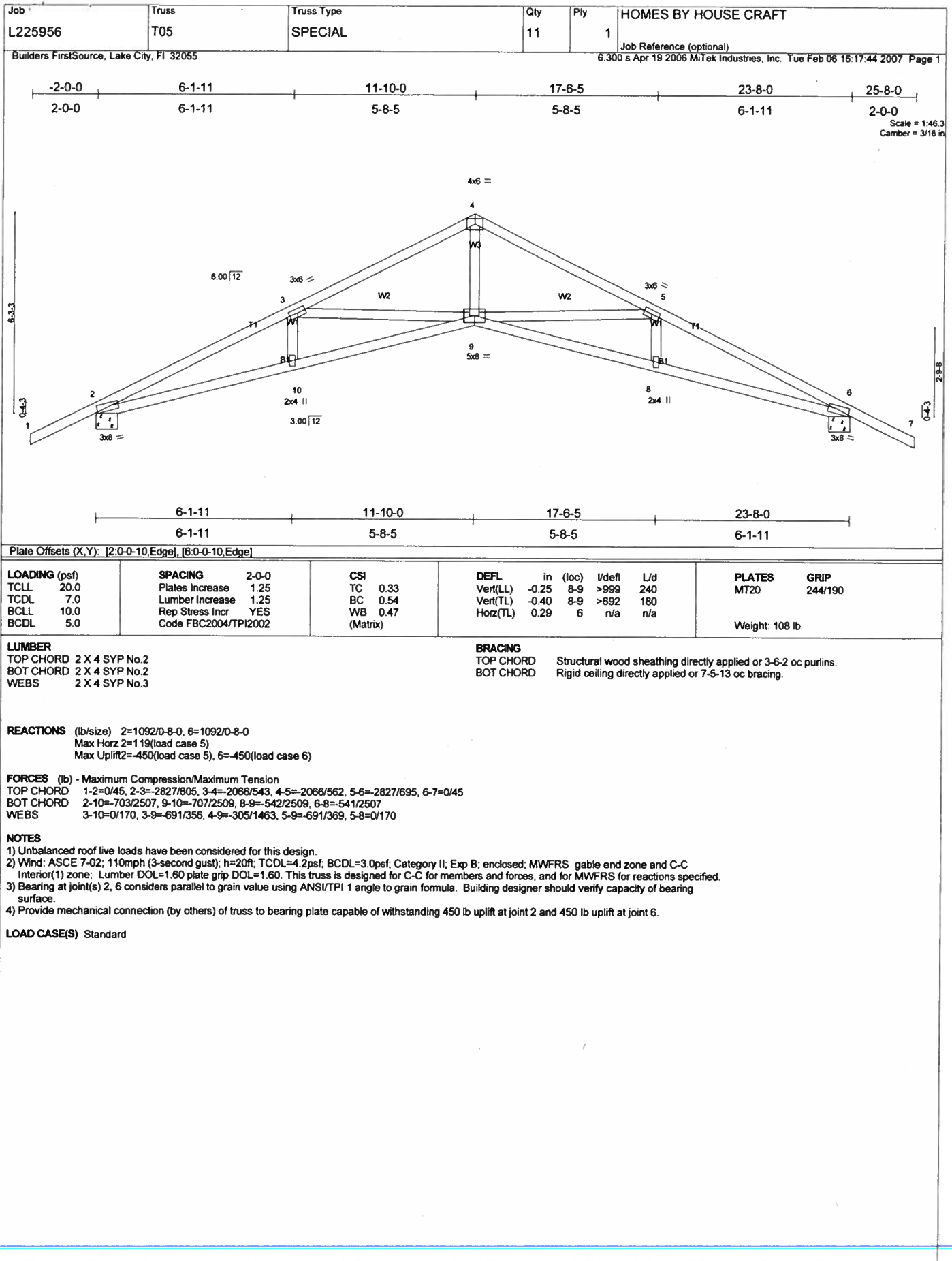
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=54
Trapezoidal Loads (plf)
Vert: 8=0(F=27, B=27)-to 4=134(F=40, B=40), 2=3(F=14, B=14)-to 5=74(F=22, B=22)

**FEBRUARY 07, 2007 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 L225956	Truss T06	Truss Type SPECIAL	Qty 1	Ply 1	HOMES BY HOUSE CRAFT
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 06 16:17:47 2007 Page 1		

6-0-12 11-10-0 17-7-4 23-8-0
6-0-12 5-9-4 5-9-4 6-0-12

Scale = 1/40'9
Camber = 1/8 in

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

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 1.00	Vert(LL) -0.22 7-8 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.88	Vert(TL) -0.36 7-8 >774 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.76	Horz(TL) 0.10 6 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			
				Weight: 126 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-9 oc bracing.
WEBS 1 Row at midpt 1-10, 2-10, 4-6

REACTIONS (lb/size) 10=2045/Mechanical, 6=2045/Mechanical
Max Uplift 10=-918(load case 2), 6=-918(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-325/249, 1-2=-151/44, 2-3=-3053/1300, 3-4=-3051/1301, 4-5=-150/45, 5-6=-324/249
BOT CHORD 9-10=-1221/2615, 8-9=-1221/2615, 7-8=-1575/3398, 6-7=-1222/2613
WEBS 2-10=-2874/1374, 2-8=-166/921, 3-8=-470/374, 3-7=-472/374, 4-7=-166/920, 4-6=-2874/1373

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 918 lb uplift at joint 10 and 918 lb uplift at joint 6.
5) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 7-0-0 end setback.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-112(F=-58), 6-10=-63(F=-33)

Job L225956	Truss T07	Truss Type SPECIAL	Qty 1	Ply 1	HOMES BY HOUSE CRAFT
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
6.300 s Apr 19 2006 MiTek Industries, Inc.			Tue Feb 06 16:17:51 2007 Page 1		

Scale = 1/40.9
Camber = 1/16 in

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.94	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.40	Vert(LL) -0.11 6-7 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.70	Vert(TL) -0.18 6-7 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.03 5 n/a n/a		
				Weight: 134 lb	

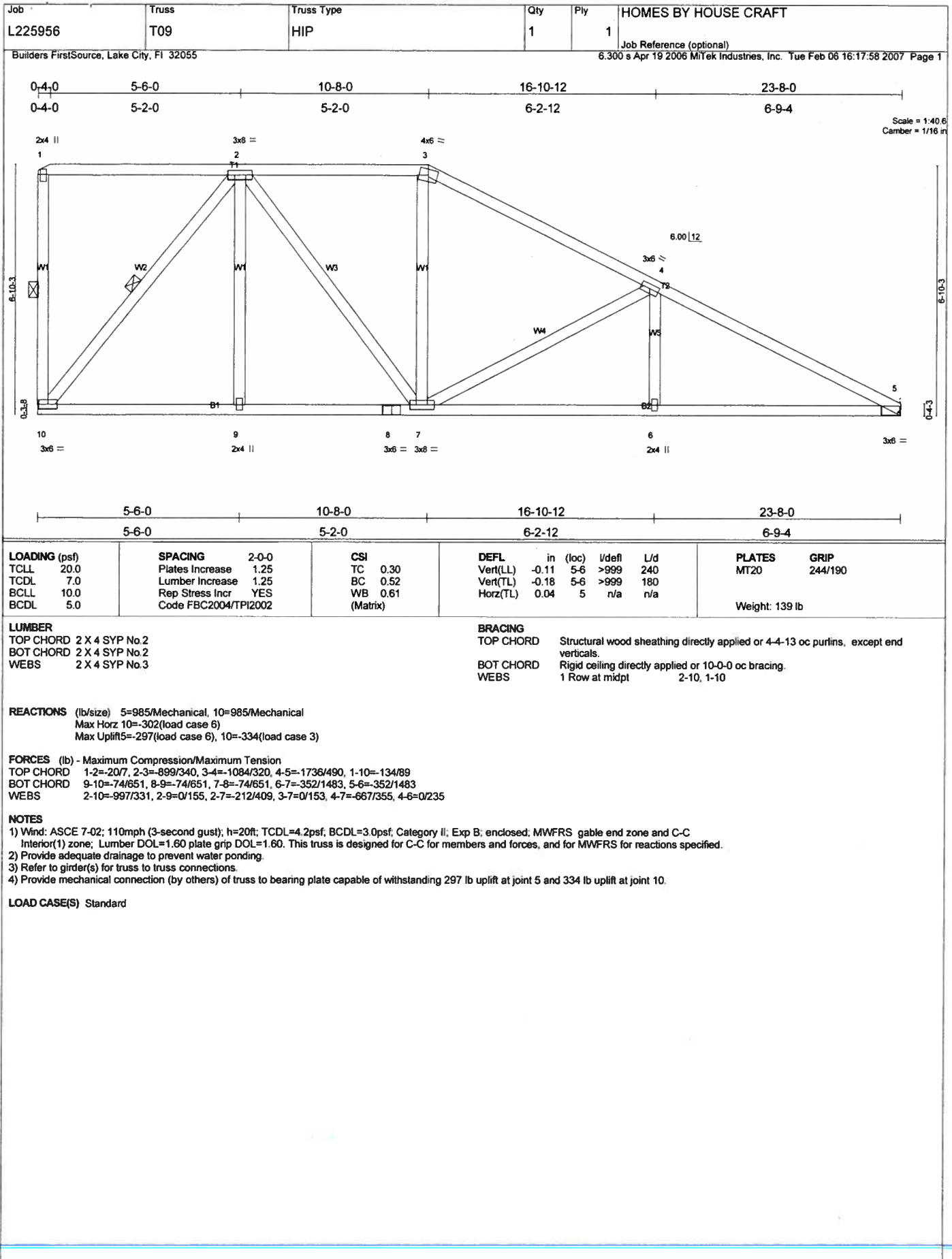
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 3-7, 3-5

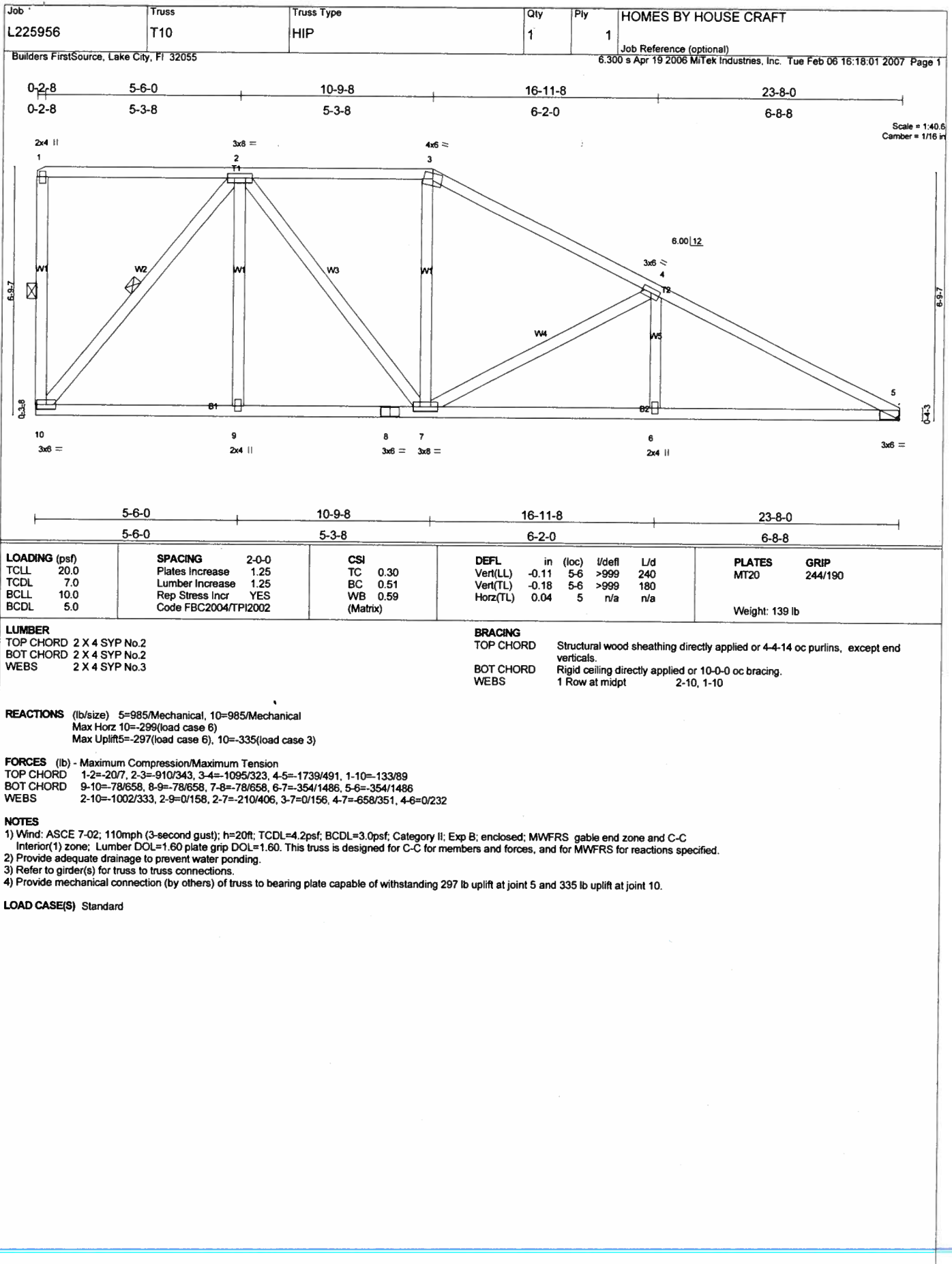
REACTIONS (lb/size) 9=982/Mechanical, 5=982/Mechanical
Max Uplift=371 (load case 3), 5=371 (load case 3)

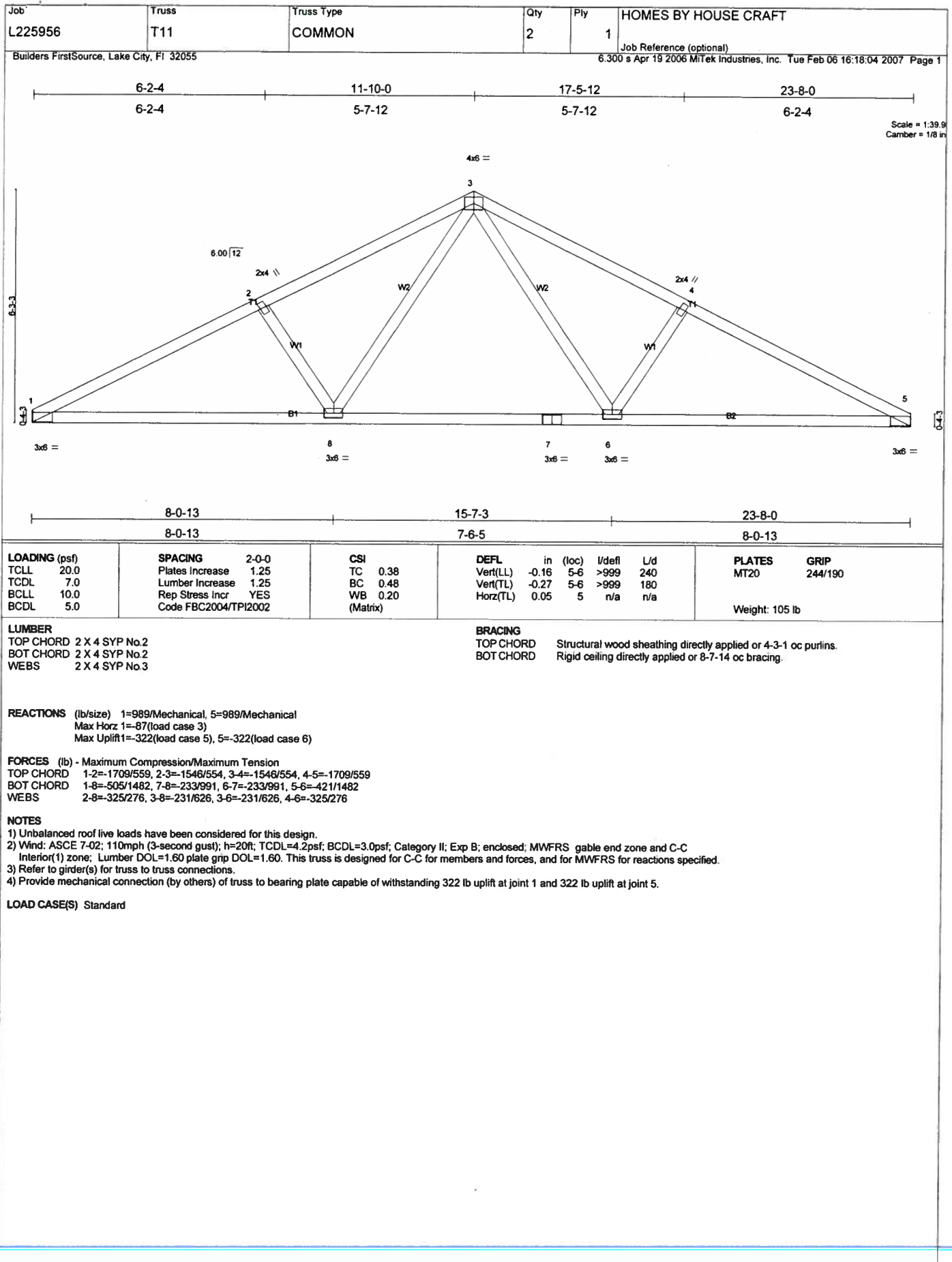
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-866/387, 1-2=-1213/458, 2-3=-1213/458, 3-4=-73/27, 4-5=-199/135
BOT CHORD 8-9=-28/73, 7-8=-28/73, 6-7=-458/1213, 5-6=-458/1213
WEBS 1-7=-498/1320, 2-7=-431/305, 3-7=-1/1, 3-6=0/235, 3-5=-1321/499

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 Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 371 lb uplift at joint 9 and 371 lb uplift at joint 5.

LOAD CASE(S) Standard







Job L225956	Truss T12	Truss Type SPECIAL	Qty 4	Ply 1	HOMES BY HOUSE CRAFT
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Feb 06 16:18:08 2007 Page 1

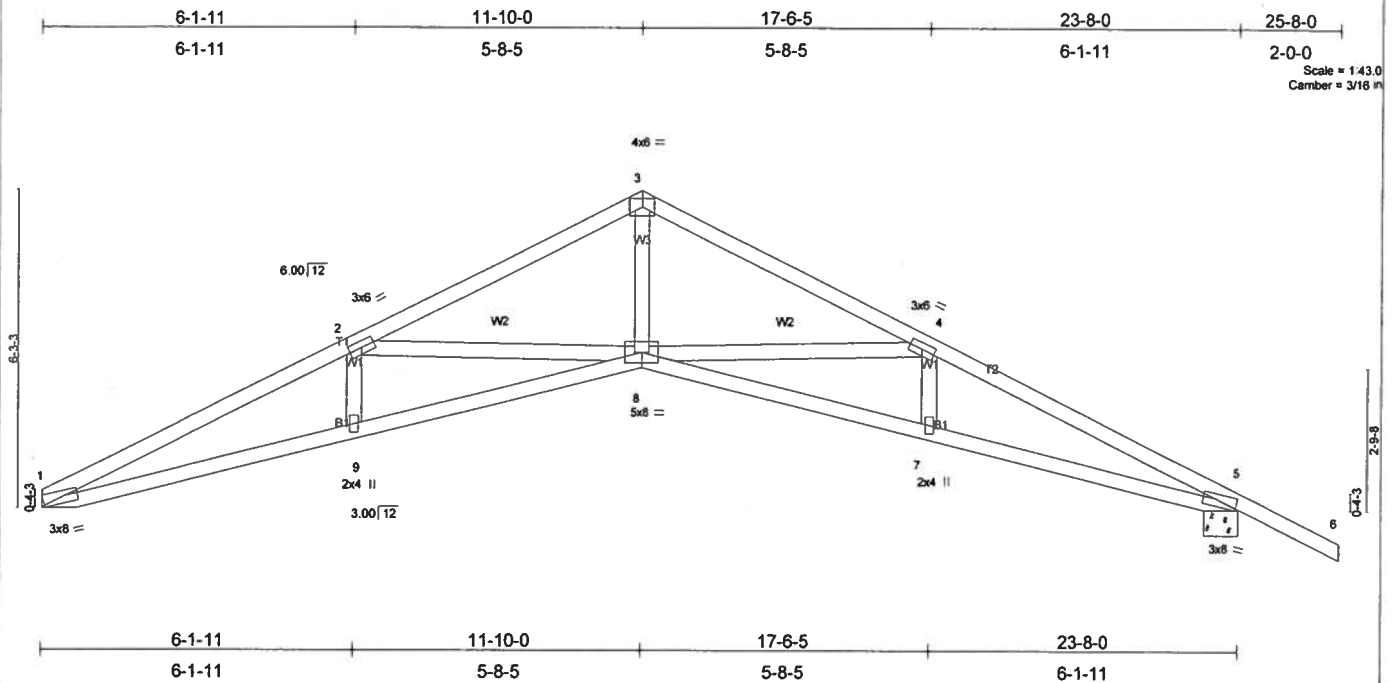


Plate Offsets (X,Y): [1:0-0-10,Edge], [5:0-0-10,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.27	7-8	>999	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.71	Vert(TL)	-0.43	7-8	>653		
BCLL 10.0	Lumber Increase 1.25	WB 0.49	Horz(TL)	0.31	5	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 104 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing.

REACTIONS (lb/size) 1=971/Mechanical, 5=1110/0-8-0

Max Horz 1=-139(load case 6)

Max Uplift 1=-316(load case 5), 5=-455(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-3037/953, 2-3=-2136/589, 3-4=-2134/605, 4-5=-2895/736, 5-6=0/45

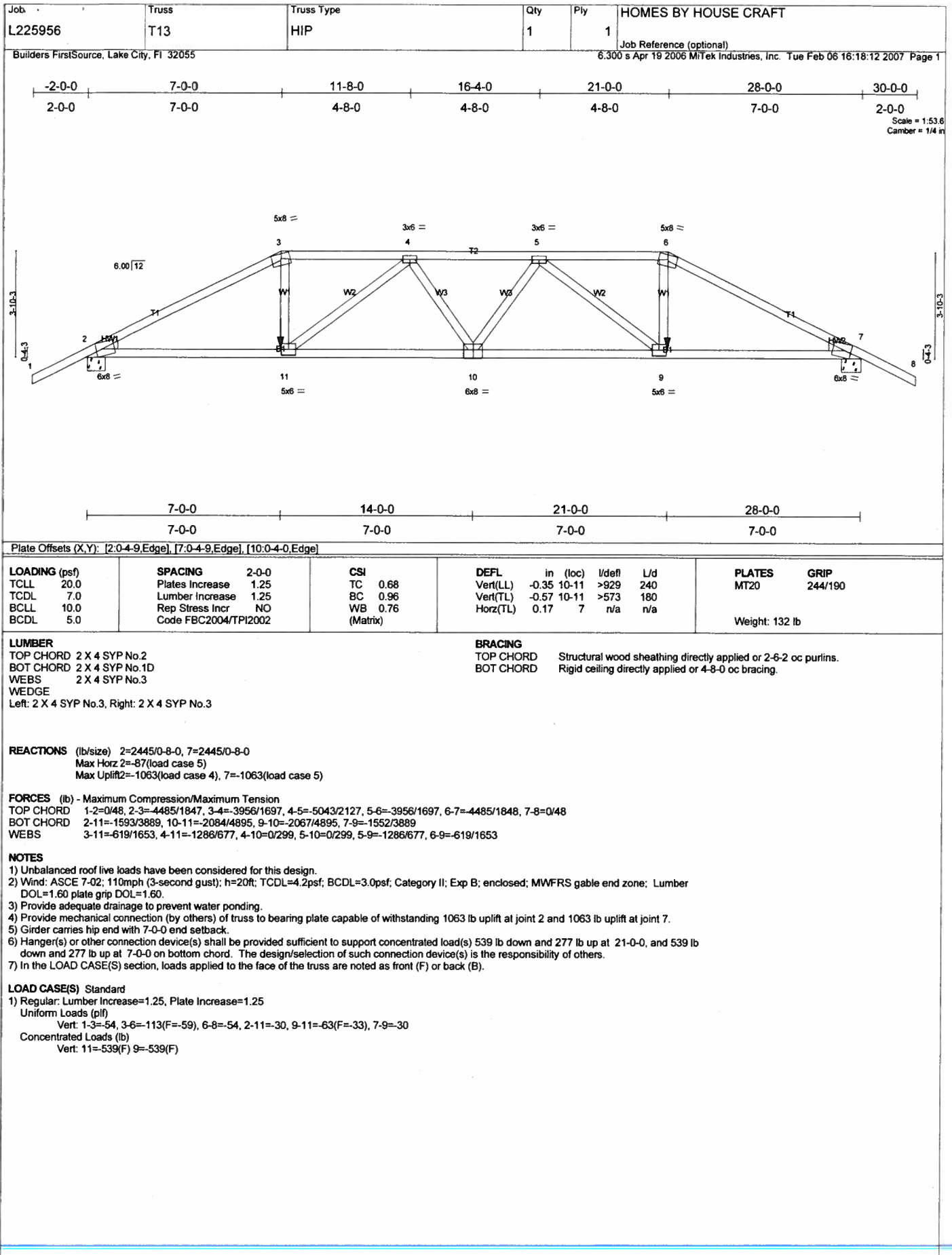
BOT CHORD 1-9=-856/2722, 8-9=-853/2717, 7-8=-583/2570, 5-7=-582/2568

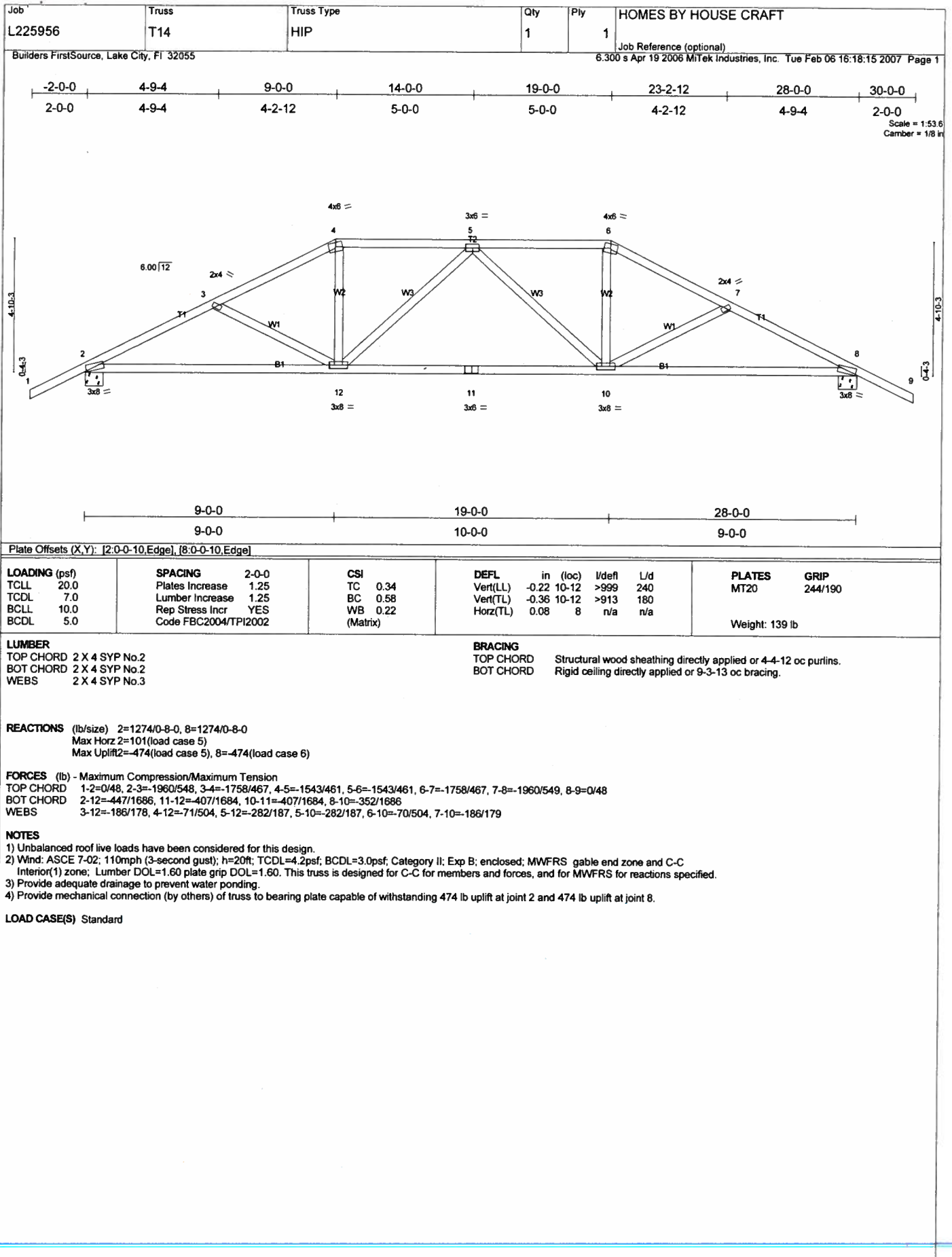
WEBS 2-9=0/192, 2-8=-827/461, 3-8=-351/1531, 4-8=-690/369, 4-7=0/172

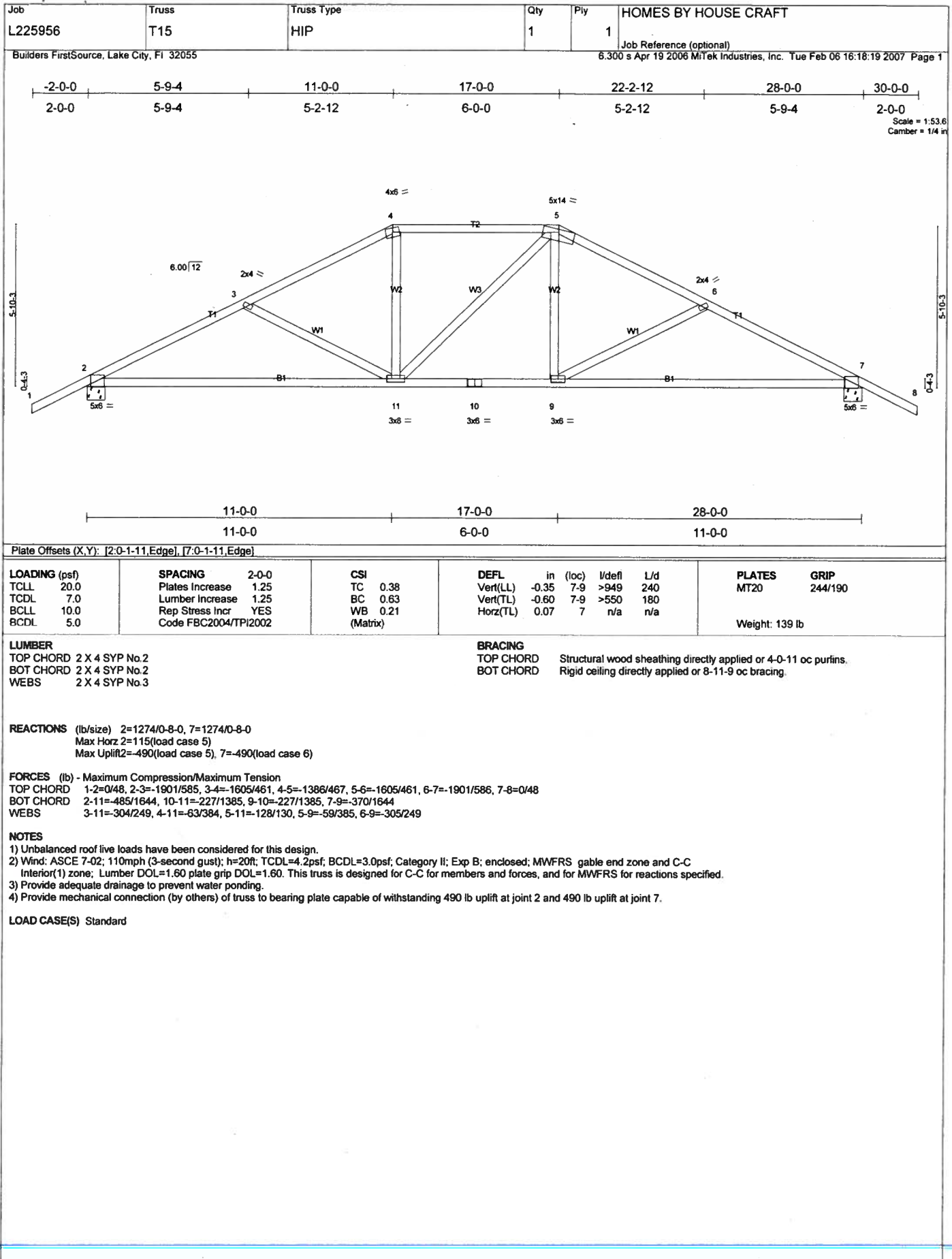
NOTES

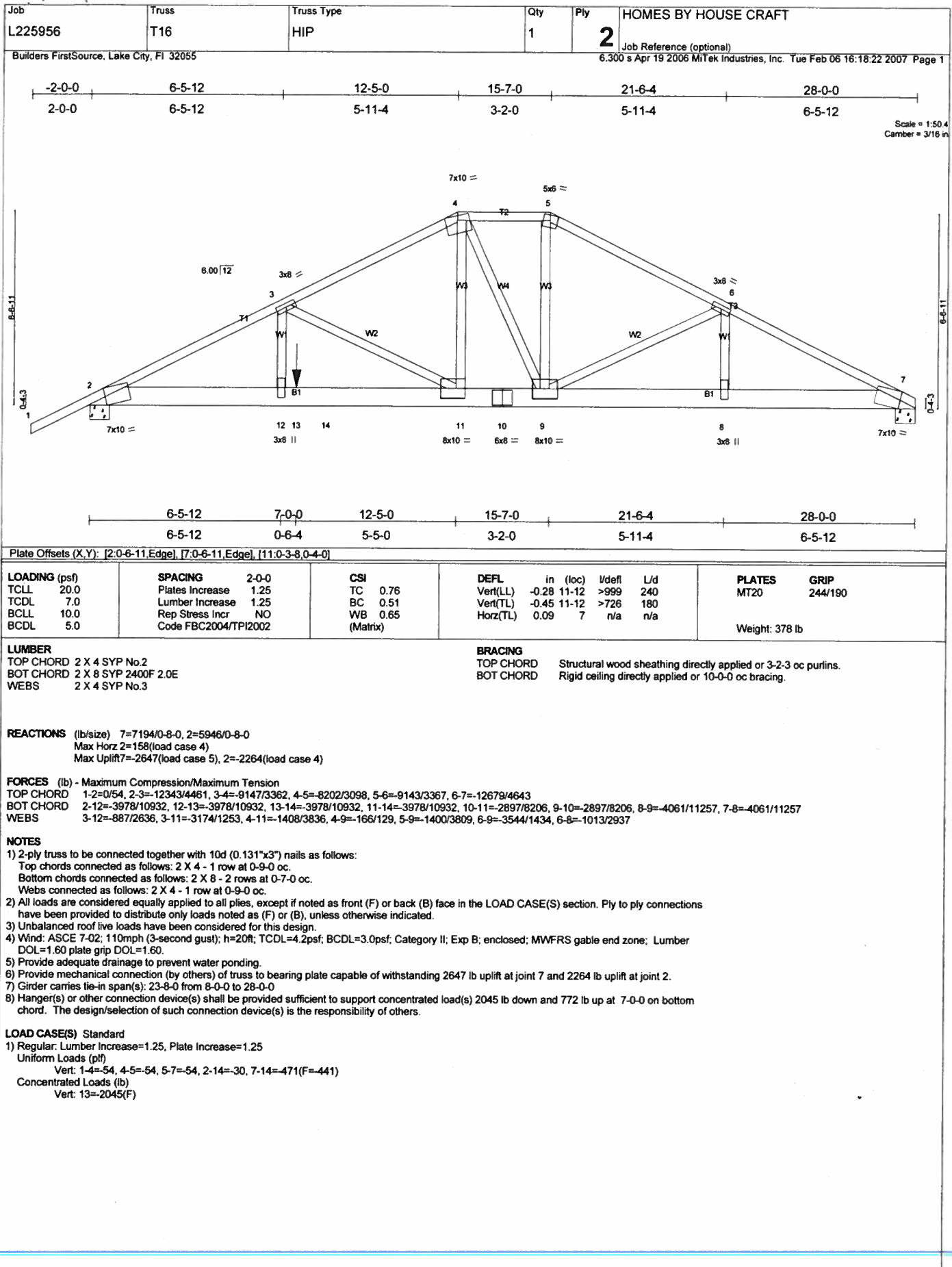
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 1 and 455 lb uplift at joint 5.

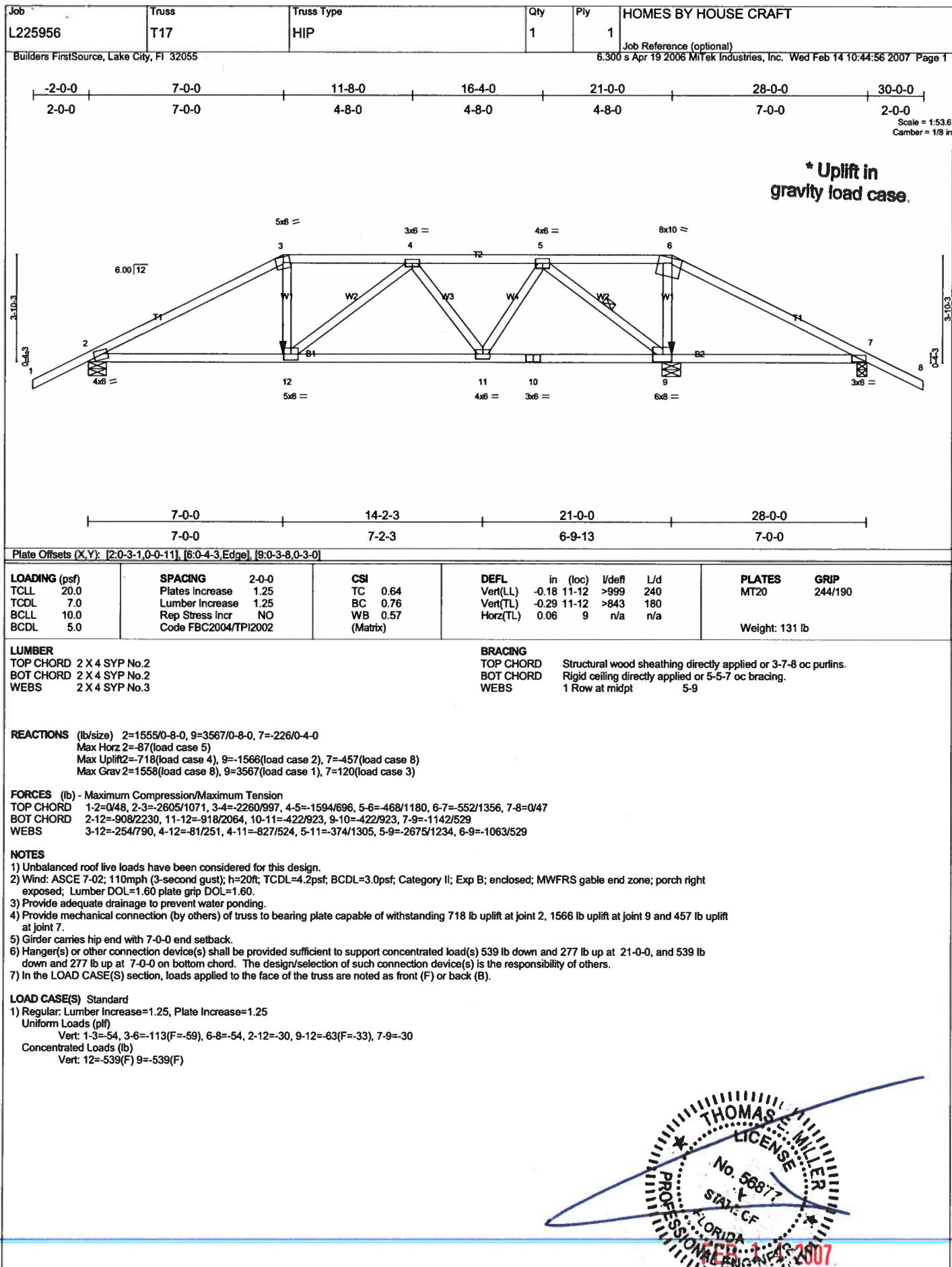
LOAD CASE(S) Standard



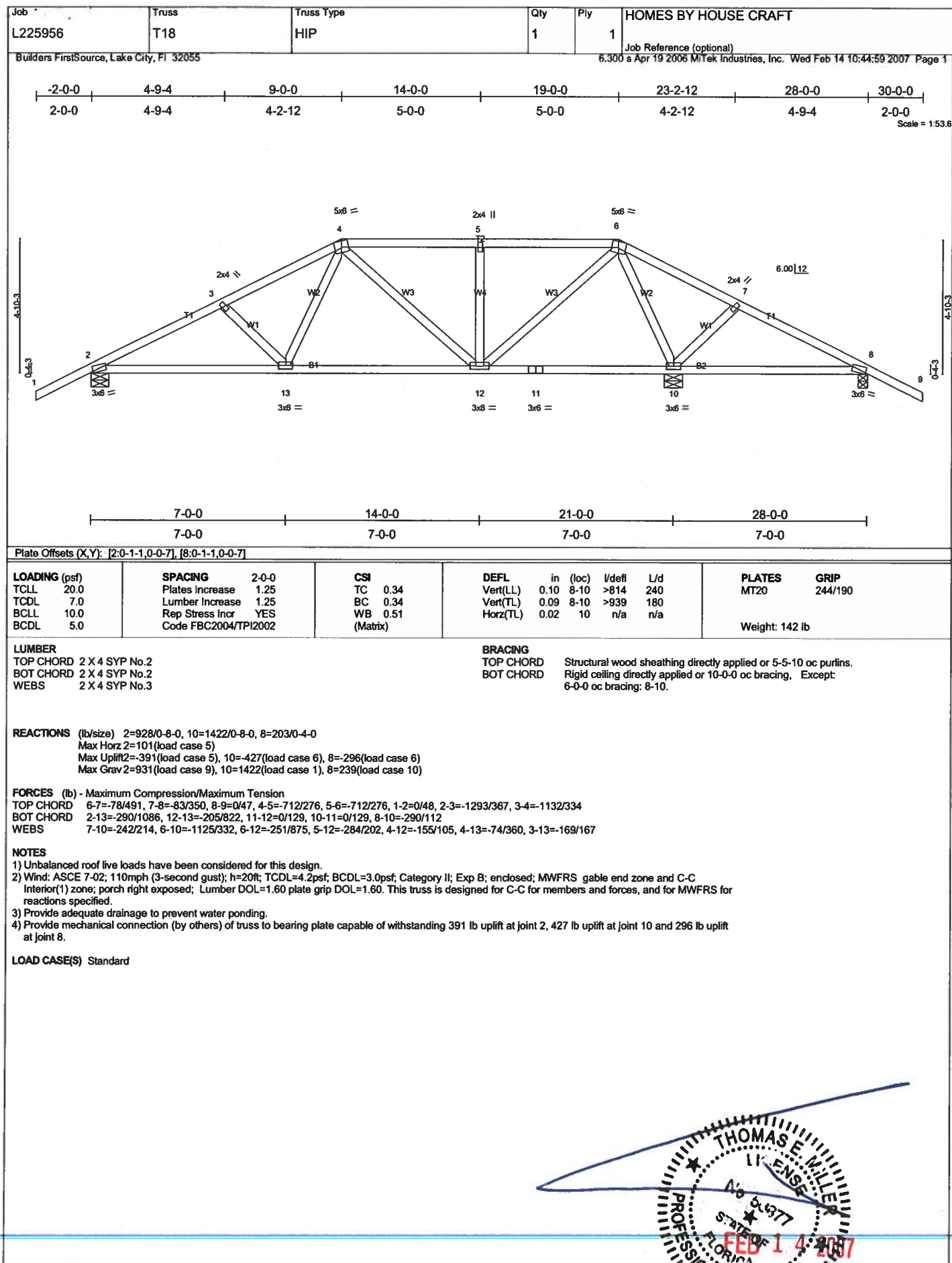




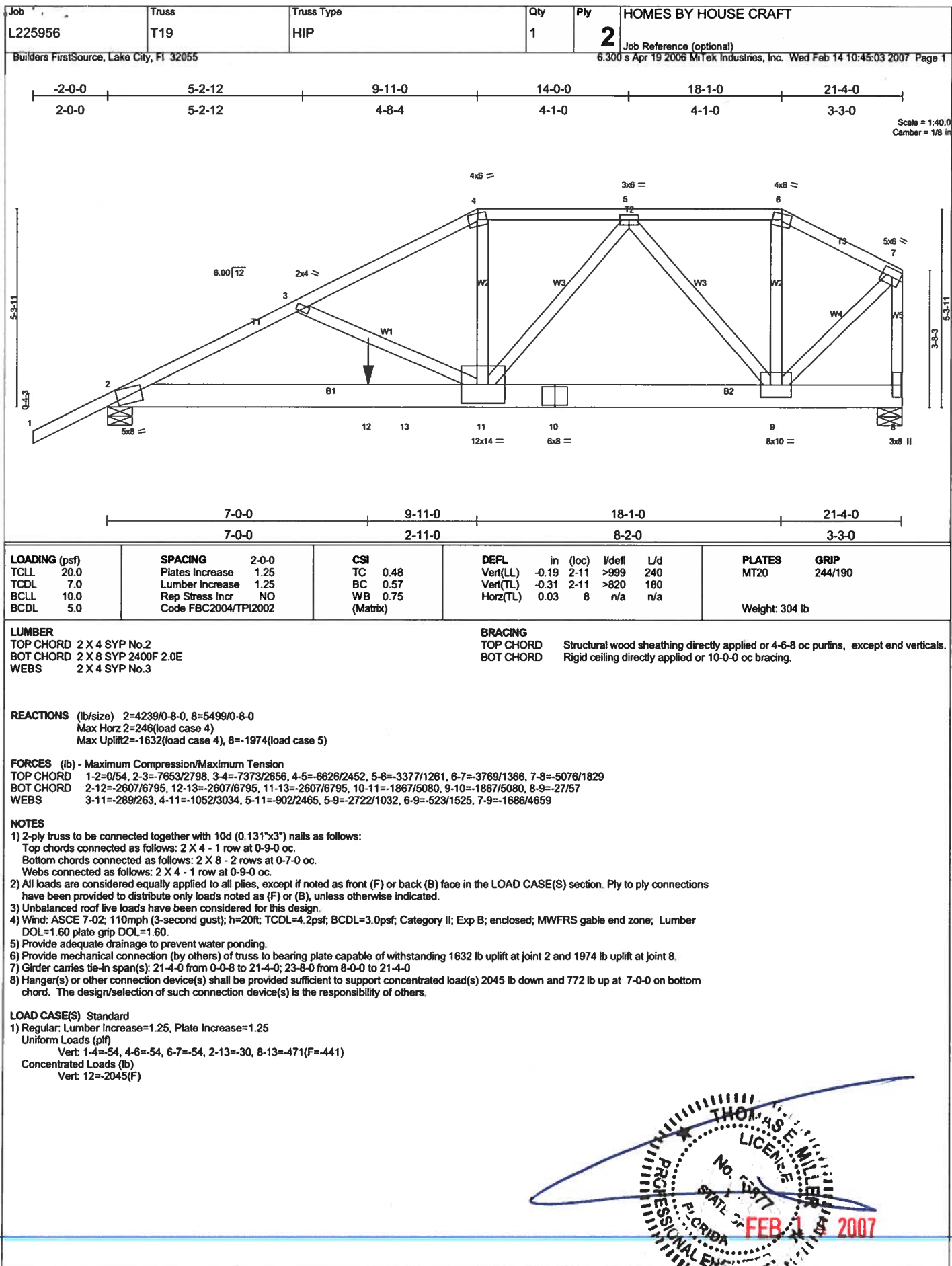




The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any particular building design is the responsibility of the building designer.



The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component shown. The suitability and use of this component for any particular building design is the responsibility of the building designer.

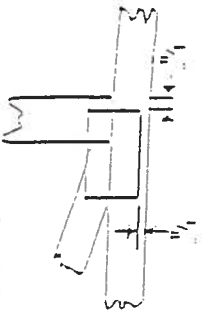


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and secure by 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 slits in connector plates.

PLATE SIZE



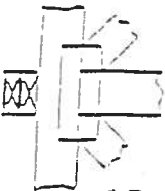
The first dimension is the width, perpendicular to slits. Second dimension is the length parallel to slits.

LATERAL BRACING



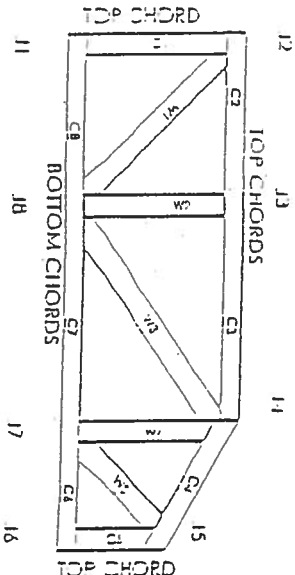
Indicates location of required connections lateral bracing.

BEARINGS



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

Numbering System

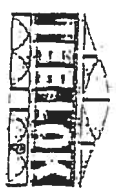


JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT. FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCCA	96.31, 96.67
ICBO	3907, 4922
SBOCCI	9657, 9432A
WISC/DIHR	960022-W, 970036-11
IER	561



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 lightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and worms at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (1.5' 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 the retention or preservative treated lumber.
7. Gable is a non-structural consideration and is the responsibility of truss fabricator. General practice is to gable 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 pultruded provided cut spacing shown on design.
11. Bottom chords require lateral bracing at 11' II, 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.

*Swayze
HVAC Load Calculations*

for

House Craft Homes
12523 N.W U.S HWY 441
Alachua FL 32615



**RHVAC RESIDENTIAL
HVAC LOADS**

Prepared By:
Chuck Fischer
North Central Florida Air Conditioning
P.O Box 700
High Springs FL 32655-0700
386-454-4767
Saturday, February 03, 2007



Project Report

General Project Information

Project Filename: C:\Documents and Settings\Heat\My Documents\Projects\AutoLoad MJ8.rhv
Project Title: Swayze
Designed By: Chuck Fischer
Project Date: February 3 2007
Client Name: House Craft Homes
Client Address: 12523 N.W U.S HWY 441
Client City: Alachua FL 32615
Client Phone: 386-462-5323
Client Fax: 386-462-1509
Client Comment:
Company Name: North Central Florida Air Conditioning
Company Representative: Chuck Fischer
Company Address: P.O Box 700
Company City: High Springs FL 32655-0700
Company Phone: 386-454-4767
Company Fax: 386-454-4854
Company Comment: Bedroom 2,3 & 4 R/A are 10x10x8 Master bedroom R/A is 12x12x9 Main R/A is 20x20x18

Design Data

Reference City: Gainesville, Florida
Daily Temperature Range: Medium
Latitude: 29 Degrees
Elevation: 152 ft.
Altitude Factor: 0.995
Elevation Sensible Adj. Factor: 1.000
Elevation Total Adj. Factor: 1.000
Elevation Heating Adj. Factor: 1.000
Elevation Heating Adj. Factor: 1.000

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	0	68	0
Summer:	93	77	50	75	50

Check Figures

Total Building Supply CFM:	1,130	CFM Per Square ft.:	0.674
Square ft. of Room Area:	1,676	Square ft. Per Ton:	626
Volume (ft³) of Cond. Space:	15,387	Air Turnover Rate (per hour):	4.4

Building Loads

Total Heating Required With Outside Air:	37,375 Btuh	37.375 MBH
Total Sensible Gain:	24,725 Btuh	85 %
Total Latent Gain:	4,393 Btuh	15 %
Total Cooling Required With Outside Air:	29,118 Btuh	2.43 Tons (Based On Sensible + Latent)
		2.68 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.



Miscellaneous Report

System 1 Main Floor Input Data	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	50	68	30.84
Summer:	93	77	50	75	50.06

Duct Sizing Inputs

	<u>Main Trunk</u>	<u>Runouts</u>
Calculate:	Yes	Yes
Use Schedule:	No	No
Roughness Factor:	0.00300	0.01000
Pressure Drop:	0.1000 in.wg./100 ft.	0.1000 in.wg./100 ft.
Minimum Velocity:	650 ft./min	450 ft./min
Maximum Velocity:	900 ft./min	750 ft./min
Minimum Height:	0 in.	0 in.
Maximum Height:	0 in.	0 in.

Outside Air Data

	<u>Winter</u>	<u>Summer</u>
Infiltration:	0.900 AC/hr	0.400 AC/hr
Volume of Conditioned Space:	X 15387 Cu.ft.	X 15387 Cu.ft.
	13,848 Cu.ft./hr	6,155 Cu.ft./hr
	X 0.0167	X 0.0167
Total Building Infiltration:	231 CFM	103 CFM
Total Building Ventilation:	0 CFM	0 CFM

—System 1—

Infiltration & Ventilation Sensible Gain Multiplier:	19.69	= (1.10 X 0.995 X 18.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier:	33.85	= (0.68 X 0.995 X 50.06 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier:	40.48	= (1.10 X 0.995 X 37.00 Winter Temp. Difference)



Load Preview Report

Scope	Area	Sens Gain	Lat Gain	Net Gain	Sens Loss	Win CFM	Sum CFM	Sys CFM	Duct Size
Building: 2.43 Net Tons, 2.68 Recommended Tons, 626 ft. ² /Ton, 37.38 MBH Heating									
Building	1,676	24,725	4,393	29,118	37,375	488	1,130	1,130	
System 1: 2.43 Net Tons, 2.68 Recommended Tons, 626 ft. ² /Ton, 37.38 MBH Heating									
System 1	1,676	24,725	4,393	29,118	37,375	488	1,130	1,130	15x15
Zone 1	1,676	24,725	4,393	29,118	37,375	488	1,130	1,130	
1-Master Bedroom	216	3,415	904	4,319	5,080	66	156	156	1-7
2-Master Bath	83	1,219	275	1,494	2,756	36	56	56	1-4
3-Master W.I.C	45	551	79	630	809	11	25	25	1-3
4-Kitchen	171	3,679	516	4,195	2,687	35	168	168	1-8
5-Dining Room	189	2,251	115	2,366	2,039	27	103	103	1-6
6-Living Room	255	3,038	499	3,537	5,315	69	139	139	1-7
7-Foyer	70	1,966	399	2,365	3,337	44	90	90	1-6
8-Laundry Room	45	702	88	790	802	10	32	32	1-3
9-Bedroom 3	159	3,022	647	3,669	4,433	58	138	138	1-7
10-Bath 2	52	766	88	854	930	12	35	35	1-3
11-Bedroom 2	364	4,069	783	4,852	9,096	119	186	186	1-8
12-Hall	27	44	0	44	91	1	2	2	1-1

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 100% coverage	44	1,058	0	990	990
10B-f: Glazing-French door, double pane clear glass, insulated fiberglass frame, ground reflectance = 0.32	40.8	725	0	685	685
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	75	1,804	0	1,308	1,308
11P: Door-Polyurethane Core	19	204	0	160	160
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish	1356.2	6,272	0	3,104	3,104
12B-5sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, R-5 board insulation, siding finish, wood studs	302.6	761	0	419	419
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1675.4	1,984	0	2,306	2,306
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	206	8,994	0	0	0
Subtotals for structure:		21,802	0	8,972	8,972
People:	4		920	1,200	2,120
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		6,230	0	4,120	4,120
Infiltration: Winter CFM: 231, Summer CFM: 103		9,343	3,473	2,021	5,494
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
Total Building Load Totals:		37,375	4,393	24,725	29,118

Check Figures

Total Building Supply CFM:	1,130	CFM Per Square ft.:	0.674
Square ft. of Room Area:	1,676	Square ft. Per Ton:	626
Volume (ft³) of Cond. Space:	15,387	Air Turnover Rate (per hour):	4.4

Building Loads

Total Heating Required With Outside Air:	37,375 Btuh	37.375 MBH
Total Sensible Gain:	24,725 Btuh	85 %
Total Latent Gain:	4,393 Btuh	15 %
Total Cooling Required With Outside Air:	29,118 Btuh	2.43 Tons (Based On Sensible + Latent) 2.68 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Main Floor Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 100% coverage	44	1,058	0	990	990
10B-f: Glazing-French door, double pane clear glass, insulated fiberglass frame, ground reflectance = 0.32	40.8	725	0	685	685
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	75	1,804	0	1,308	1,308
11P: Door-Polyurethane Core	19	204	0	160	160
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish	1356.2	6,272	0	3,104	3,104
12B-5sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, R-5 board insulation, siding finish, wood studs	302.6	761	0	419	419
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1675.4	1,984	0	2,306	2,306
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	206	8,994	0	0	0
Subtotals for structure:		21,802	0	8,972	8,972
People:	4		920	1,200	2,120
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		6,230	0	4,120	4,120
Infiltration: Winter CFM: 231, Summer CFM: 103		9,343	3,473	2,021	5,494
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 1 Main Floor Load Totals:		37,375	4,393	24,725	29,118

Check Figures

Supply CFM:	1,130	CFM Per Square ft.:	0.674
Square ft. of Room Area:	1,676	Square ft. Per Ton:	626
Volume (ft³) of Cond. Space:	15,387	Air Turnover Rate (per hour):	4.4

System Loads

Total Heating Required With Outside Air:	37,375 Btuh	37.375 MBH
Total Sensible Gain:	24,725 Btuh	85 %
Total Latent Gain:	4,393 Btuh	15 %
Total Cooling Required With Outside Air:	29,118 Btuh	2.43 Tons (Based On Sensible + Latent)
		2.68 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 1 Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 100% coverage	44	1,058	0	990	990
10B-f: Glazing-French door, double pane clear glass, insulated fiberglass frame, ground reflectance = 0.32	40.8	725	0	685	685
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 100% coverage	75	1,804	0	1,308	1,308
11P: Door-Polyurethane Core	19	204	0	160	160
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish	1356.2	6,272	0	3,104	3,104
12B-5sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, R-5 board insulation, siding finish, wood studs	302.6	761	0	419	419
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1675.4	1,984	0	2,306	2,306
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	206	8,994	0	0	0
Subtotals for structure:		21,802	0	8,972	8,972
People:	4		920	1,200	2,120
Equipment:			0	1,200	1,200
Lighting:	2115			7,212	7,212
Ductwork:		6,230	0	4,120	4,120
Infiltration: Winter CFM: 231, Summer CFM: 103		9,343	3,473	2,021	5,494
System 1, Zone 1 Load Totals:		37,375	4,393	24,725	29,118

Check Figures

Supply CFM:	1,130	CFM Per Square ft.:	0.674
Square ft. of Room Area:	1,676	Square ft. Per Ton:	626
Volume (ft³) of Cond. Space:	15,387	Air Turnover Rate (per hour):	4.4

Zone Loads

Total Heating Required:	37,375 Btuh	37.375 MBH
Total Sensible Gain:	24,725 Btuh	85 %
Total Latent Gain:	4,393 Btuh	15 %
Total Cooling Required:	29,118 Btuh	2.43 Tons (Based On Sensible + Latent)
		2.68 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Room Load Summary

Room No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Air Sys CFM
—Zone 1—										
1	Master Bedroom	216	5,080	66	1-7	584	3,415	904	156	156
2	Master Bath	83	2,756	36	1-4	639	1,219	275	56	56
3	Master W.I.C	45	809	11	1-3	513	551	79	25	25
4	Kitchen	171	2,687	35	1-8	482	3,679	516	168	168
5	Dining Room	189	2,039	27	1-6	524	2,251	115	103	103
6	Living Room	255	5,315	69	1-7	520	3,038	499	139	139
7	Foyer	70	3,337	44	1-6	458	1,966	399	90	90
8	Laundry Room	45	802	10	1-3	654	702	88	32	32
9	Bedroom 3	159	4,433	58	1-7	517	3,022	647	138	138
10	Bath 2	52	930	12	1-3	713	766	88	35	35
11	Bedroom 2	364	9,096	119	1-8	533	4,069	783	186	186
12	Hall	27	91	1	1-1	369	44	0	2	2
System 1 total		1,676	37,375	488			24,725	4,393	1,130	1,130

System 1 Main Trunk Size: 15x15 in.
 Velocity: 809 ft./min
 Loss per 100 ft.: 0.080 in.wg

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	2.43	85% / 15%	24,725	4,393	29,118
Recommended:	2.68	77% / 23%	24,725	7,385	32,111
Actual:	2.92	76% / 24%	26,500	8,500	35,000

Equipment Data

	Heating System	Cooling System
Type:	Air Cooled Condensor	Air Cooled Condensor
Model:	GSH130361+ARPF364216+HKR-10	GSH130361+ARPF364216
Brand:	Goodman	Goodman
Efficiency:	7.7	Seer 13
Sound:		
Capacity:	32.000	35.000
Sensible Capacity:	n/a	26,500 Btuh
Latent Capacity:	n/a	8,500 Btuh

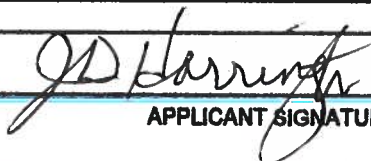
Permit # _____
User ID _____

PRODUCT APPROVAL SPECIFICATION SHEET

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)	X
1. EXTERIOR DOORS				
A. SWINGING	Masonite	Entry Door	FL 4940.4	
B. SLIDING	HR Danvid	502 SGD	FI 6396.5	
C. SECTIONAL/ROLL UP	Overhead Door	Garage door	FL 674	
D. OTHER				
2. WINDOWS				
A. SINGLE/DOUBLE HUNG	Kinco	M50 SH Alum. Window	FI. 123	
B. HORIZONTAL SLIDER				
C. CASEMENT				
D. FIXED	Kinco	M50 PC Window	FI. 125	
E. MULLION	HR	340	FL 5872	
F. SKYLIGHTS				
G. OTHER / GLASS BLOCK	Hy-Lite	Glass Block window	FL 1956.3	
3. PANEL WALL				
A. SIDING				
B. SOFFITS	Kaycan	Aluminum soffits	FL 1146.5	
C. STOREFRONTS				
D. GLASS BLOCK				
F. OTHER				
4. ROOFING PRODUCTS				
A. ASPHALT SHINGLES	Tamko	Heritage 38-R	FL 7154	
B. NON-STRUCT METAL				
C. ROOFING TILES				
D. SINGLE PLY ROOF				
E. OTHER				
5. STRUCT COMPONENTS				
A. WOOD CONNECTORS				
B. WOOD ANCHORS	Simpson	Truss anchors	1901.17 1901.45	
C. TRUSS PLATES			1901.25 1901.21	
D. INSULATION FORMS				
E. LINTELS	Cenemt Precast	Concrete lintels	FL 4569	
F. TRUSSES	Thomas E. Miller	engineer	PE 56877	
6. NEW EXTERIOR ENVELOPE PRODUCTS				
A.				

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite: 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.


APPLICANT SIGNATURE


DATE

ATTACHMENT INFORMATION



Jax Apex Technology, Inc.

4745 Sutton Park Court, Suite 402
Jacksonville, FL 32224

All products listed in this report are currently approved for state use under the provisions of Florida Product Approval Rule 9B-72 and/or 61G15-36. Reference product approval number FL1901. All substantiating data submitted for the original application has been reviewed for compliance with the 2004 Florida Building and Residential Codes.

Evaluation reports are the opinion of the engineer who prepared the report, based on the findings, and in no way constitute or imply approval by a local building authority. The engineer, in review of the data submitted, finds that, in his opinion, the product, material, system, or method of construction specifically identified in this report conforms with or is a suitable alternate to that specified in the Florida Building Code, SUBJECT TO THE LIMITATIONS IN THIS REPORT

Jeffrey P. Arneson, P.E., a licensed Florida professional engineer and employee of Jax Apex Technology, Inc. (Apex Technology) has reviewed the data submitted for compliance with the Florida Building Code. Neither Jeffrey P. Arneson, nor Apex Technology, are responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests, or summaries prepared and submitted by the design professional or preparer of record who are listed in the Substantiating Data section of this report.

REPORT NO: SIM200401-R2

EXPIRES: October 1st, 2008

CATEGORY: Metal Connectors

SUBMITTED BY:

SIMPSON STRONG-TIE COMPANY, INC.
4120 DUBLIN BLVD., SUITE 400
DUBLIN, CA 94568

1. PRODUCT NAME

Strap Ties

LSTA9, LSTA12, LSTA15, LSTA18, LSTA21, LSTA24, LSTA30, LSTA36,
MSTA9, MSTA12, MSTA15, MSTA18, MSTA21, MSTA24, MSTA30, MSTA36,
MSTC28, MSTC40, MSTC52, MSTC66, MSTC78, MST27, MST37, MST48,
MST60, MST72, LSTI49, LSTI73, MSTI26, MSTI36, MSTI48, MSTI60, MSTI72,
RPS18, RPS22, RPS28, ST2115, ST292, ST2122, ST2215, ST6215, ST6224,
ST6236, ST9, ST12, ST18, ST22, FHA6, FHA9, FHA12, FHA18, FHA24, FHA30.

Coiled Strap Ties

CMST12, CMST14, CMSTC16, CS16, CS18, CS20, CS22

Wood to Masonry Strap Ties

MSTAM24, MSTAM36, MSTCM40

Pre-bent Strap Ties

MSTC48B3, MSTC66B3

Heavy Straps

HRS6, HRS8, HRS12

Embedded Truss Anchors

META12, META14, META16, META18, META20, META22, META24, META40,
HETA12, HETA16, HETA20, HETA24, HETA40, HETAL12, HETAL16,
HETAL20, HHETA12, HHETA16, HHETA20, HHETA24, HHETA40

2. SCOPE OF EVALUATION

Load Evaluation as a Structural Component using the requirements of the Florida
Building and Residential Codes

3.11 MSTCB3 Pre-bent Strap Tie. The MSTC48B3 and MSTC66B3 Pre-bent Strap Ties are designed to transfer a heavy tension load from framing on an upper story wall to a beam or header on the story below. For example, this could be from shearwall overturning or a large girder truss uplift load. They are installed with 10d common nails, with a minimum of four nails in the bottom of the beam or header. Allowable loads are shown in Table 8. The straps are manufactured from 14 ga. steel meeting ASTM A-653 SS Grade 50, Class 1. They are coated with a G90 galvanized finish.

3.12 META, HETA, HETAL, HHETA Embedded Truss Anchors. Embedded Truss Anchors are used to anchor a wood member (usually a truss) to a masonry or concrete wall. Embedded truss anchors fasten to a single-ply wood truss with 10d×1½ nails or to a multiple-ply truss with 16d common nails. They are embedded in the masonry or concrete wall to a depth indicated on the side of the anchor (4" for META, HETA, and HETAL, and 5½" for HHETA). The strap portion of the anchor is 1½" wide. Allowable loads are shown in Table 9 for single installations and Table 10 for double installations. The anchors are manufactured from steel meeting ASTM A-653 SS Grade 50, Class 1, with the exception of the truss seat of the HETAL which is manufactured from steel meeting ASTM A-653 SS Grade 33. Steel thickness is as specified in Table 9. The Embedded Truss Anchors are coated with a G90 galvanized finish.

4. MATERIALS

4.1 Steel. Steel specifications for each product listed in this evaluation report shall be as indicated in the previous section. In addition to the standard G90 finish, some products are available with a G185 finish, indicated as Z-Max. Allowable loads published in this report will apply to G185 products as well as G90 products.

4.2 Wood. Wood members to which these connectors are fastened shall be solid sawn lumber, glued-laminated lumber, or structural composite lumber having dimensions consistent with the connector dimensions shown in Tables 1 through 4. Unless otherwise noted, lumber shall be Southern Pine or Douglas Fir-Larch having a minimum specific gravity of 0.50. Where indicated by SPF, lumber shall be Spruce-Pine-Fir having a minimum specific gravity of 0.42.

4.3 Nails and Bolts. Unless noted otherwise, nails shall be common nails. Nails shall comply with ASTM F 1667 and shall have the minimum bending yield strengths F_{yb} :

Nail Pennyweight	Nail Shank Diameter (inch)	F_{yb} (psi)
10d Common	0.148	90,000
16d Sinker	0.148	90,000
16d Common	0.162	90,000

Fasteners for galvanized connectors in pressure-preservative treated wood shall be hot-dipped zinc coated galvanized steel, except where otherwise permitted by the treatment manufacturer. Fasteners for stainless steel connectors shall be stainless steel.

4.4 Concrete/Masonry. Concrete and Masonry design specifications shall be the stricter of the specifications by the engineer of record, the Florida Building Code minimum standards, or the following:

Material	Specification	Minimum Compressive Strength
Concrete, f _c	-	2500 psi
Masonry, f _m	ASTM E447	1500 psi
Masonry Unit	ASTM C90	1900 psi
Mortar	ASTM C270 Type S	1800 psi (or by proportions)
Grout	ASTM C476	2000 psi (or by proportions)

5. INSTALLATION

Installation shall be in accordance with this report and the most recent edition of the Simpson Strong-Tie *Wood Construction Connectors* catalog. Information in this report supersedes any conflicting information between information provided in this report and the catalogue, the information in this report supersedes the catalogue.

6. SUBSTANTIATING DATA

Test data submitted by Testing Engineers Inc. and Product Testing, Inc., and signed and sealed calculations performed by Jeremy Gilstrap, P.E. in accordance with the 2004 Florida Building and Residential Codes.

7. FINDINGS

Upon review of the data submitted by Simpson Strong-Tie, it is my opinion that the connectors as described in this report conform with or are a suitable alternative to the standards and sections in the 2004 Florida Building and Residential Code editions listed in section 10 of this report. Connectors shall be installed in accordance with this report. Maximum allowable loads shall not exceed the allowable loads listed in this report.

8. LIMITATIONS

- Maximum allowable loads shall not exceed the allowable loads listed in this report. Allowable loads listed in this report are based on allowable stress design. The loads in this report are not applicable to Load and Resistance Factor Design.
- Capacity of wood members is not covered by this report. Capacity of wood members must be checked by the building designer.
- Allowable loads for more than one direction for a single connection cannot be added together. A design load which can be divided into components in the directions given must be evaluated as follows:

$$(\text{Design Uplift/Allowable Uplift}) + (\text{Design Lateral Parallel to Plate/Allowable Lateral Parallel to Plate}) + (\text{Design Lateral Perp. to Plate/Allowable Lateral Perp. to Plate}) < 1.0$$

9. ALLOWABLE LOADS

The tables that follow provide the allowable loads for the aforementioned products.

TABLE 9 ALLOWABLE LOADS

Model No.	Ga	H	Fasteners and Uplift								Lateral Loads	
			160 Load Duration Increase				133 Load Duration Increase				133/160	
			1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		F ₁ (parallel to wall)	F ₂ (perpen to wall)
			Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load		
META12	18	8	7-10d×1½	1450	6-16d	1450	7-10d×1½	1240	7-16d	1450	280	725
META14		10	7-10d×1½	1450	6-16d	1450	9-10d×1½	1450	7-16d	1450	280	725
META16		12	7-10d×1½	1450	6-16d	1450	9-10d×1½	1450	7-16d	1450	280	725
META18		14	7-10d×1½	1450	6-16d	1450	9-10d×1½	1450	7-16d	1450	280	725
META20		16	6-10d×1½	1270	5-16d	1245	8-10d×1½	1415	6-16d	1250	280	725
			7-10d×1½	1450	8-16d	1450	9-10d×1½	1450	7-16d	1450	280	725
META22		18	7-10d×1½	1450	6-16d	1450	9-10d×1½	1450	7-16d	1450	280	725
META24		20	7-10d×1½	1450	6-16d	1450	9-10d×1½	1450	7-16d	1450	280	725
META40	36	7-10d×1½	1450	6-16d	1450	9-10d×1½	1450	7-16d	1450	280	725	
HETA12	16	8	7-10d×1½	1520	7-16d	1780	7-10d×1½	1265	7-16d	1475	280	725
HETA16		12	9-10d×1½	1810	8-16d	1810	10-10d×1½	1810	9-16d	1810	280	725
HETA20		16	8-10d×1½	1735	7-16d	1780	9-10d×1½	1630	8-16d	1690	280	725
			9-10d×1½	1810	8-16d	1810	10-10d×1½	1810	9-16d	1810	280	725
HETA24		20	9-10d×1½	1810	8-16d	1810	10-10d×1½	1810	9-16d	1810	280	725
HETA40		36	9-10d×1½	1810	8-16d	1810	10-10d×1½	1810	9-16d	1810	280	725
HHETA12	14	8	7-10d×1½	1585	7-16d	1820	7-10d×1½	1305	7-16d	1520	435	815
HHETA16		12	10-10d×1½	2235	9-16d	2235	12-10d×1½	2235	11-16d	2235	435	815
HHETA20		16	9-10d×1½	2010	8-16d	2080	11-10d×1½	2050	10-16d	2170	435	815
			10-10d×1½	2235	9-16d	2235	12-10d×1½	2235	11-16d	2235	435	815
HHETA24		20	10-10d×1½	2235	9-16d	2235	12-10d×1½	2235	11-16d	2235	435	815
HHETA40		36	10-10d×1½	2235	9-16d	2235	12-10d×1½	2235	11-16d	2235	435	815
HETAL12	16	7	10-10d×1½	1085	10-16d	1270	10-10d×1½	905	10-16d	1055	415	1100
HETAL16		11	14-10d×1½	1810	13-16d	1810	15-10d×1½	1810	14-16d	1810	415	1100
HETAL20		15	14-10d×1½	1810	13-16d	1810	15-10d×1½	1810	14-16d	1810	415	1100

Notes:

1. Loads do not include a stress increase on the strength of the steel. No further increases are permitted. Reduce loads where other loads govern.
2. Five nails must be installed into the truss seat of the HETAL.
3. Parallel-to-plate load towards face of HETAL is 1975 lbs.
4. Except for HETAL straps, lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel
5. Minimum F_c is 2,000psi
6. It is acceptable to use a reduced number of fasteners in a product provided that there is a reduction in load capacity. The load per nail can be approximated by dividing the allowable load by the number of fasteners. This concept applies to all member sizes. There should be a minimum of 4 nails installed in the strap.

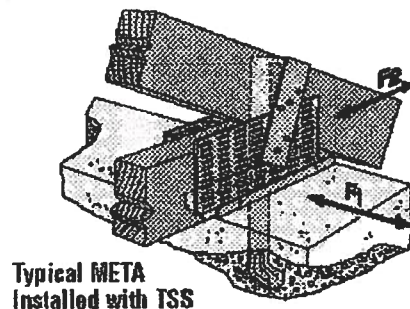
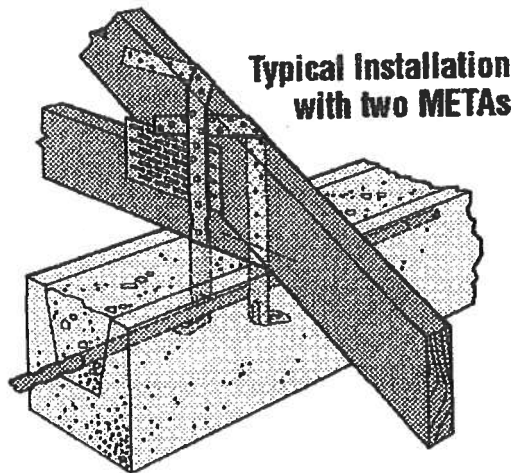


TABLE 10 ALLOWABLE LOADS FOR DOUBLE EMBEDDED TRUSS ANCHORS										
Double Embedded Anchor Installation Into Grouted CMU Bond Beam										
Model No.	Uplift - 160 Load Duration Increase				Uplift - 133 Load Duration Increase				Lateral Loads	
	1 Ply Southern Pine Truss		2 or 3 Ply Southern Pine Truss		1 Ply Southern Pine Truss		2 or 3 Ply Southern Pine Truss		133/160	
	Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	F ₁ (parallel to wall)	F ₂ (perpen. to wall)
META	10-10d×1½	1985	14-16d	1900	12-10d×1½	1985	14-16d	1900	1210	1160
HETA	10-10d×1½	2035	12-16d	2500	12-10d×1½	2035	14-16d	2500	1225	1520
HHETA	10-10d×1½	2035	12-16d	2500	12-10d×1½	2035	14-16d	2500	1225	1520

Notes:

1. Minimum f_c is 2,500psi.
2. Install with spoons facing outward and spaced no more than 1/8" wider than the truss width.
3. Install half of the required number of fasteners in each strap.
4. For uplift loads for poured concrete tie beam applications with 2 or 3 ply trusses, increase the META load by 35%, the HETA load by 8%, and the HHETA load by 34%. Listed lateral loads apply to concrete applications.
5. Lateral loads apply only to anchors spaced a minimum of 3" apart.



10. CODE REFERENCES:

Florida Building Code 2004 Edition

Section 104.11	Alternate Materials and Methods
Chapter 1714.2	Load Test Procedure Specified
Chapter 21	Masonry
Chapter 22	Steel
Chapter 23	Wood

Florida Residential Code 2004 Edition

R101.2.1	Scope
R4407	HVHZ Masonry
R4408	HVHZ Steel
R4409	HVHZ Wood

11. IDENTIFICATION:

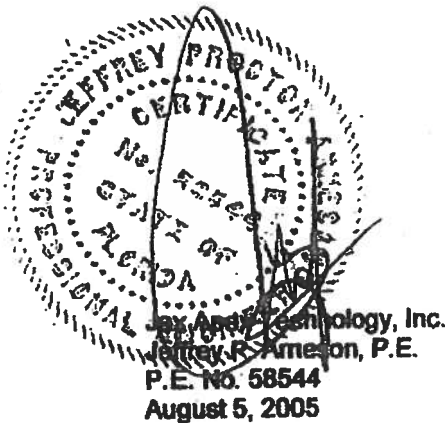
Each connector covered by this report shall be stamped with the manufacturer's name and/or trademark and the product name.

12. PERIOD OF ISSUANCE:

The content of this report expires on October 1st, 2008. For information on this report, contact Apex Technology. (904) 821-5200

13. CERTIFICATION OF INDEPENDENCE:

Jeffrey P. Arneson, the Florida engineer who prepared this report, and Apex Technology have no financial interest in the manufacturing, sales, or distribution of the products included in this report. Jeffrey P. Arneson and Apex Technology comply with all criteria as stated in Florida Administrative Code Chapter 9B-72.110.



META/HETA/HHETA/HETAL/TSS

EMBEDDED TRUSS ANCHORS
AND TRUSS SEAT SNAP-IN

The embedded truss anchor series provides an engineered method to properly attach roof trusses to concrete and masonry walls. The products are designed with staggered nail patterns for greater uplift resistance. New to this year's catalog is information regarding the use of two anchors on single- and multi-ply trusses.

The TSS, a companion product of the META, provides a moisture barrier between the concrete and truss. The preassembled unit is riveted with no height adjustment.

MATERIAL: HHETA—14 gauge; HETA—16 ga; HETAL strap 16 gauge, truss seat 18 gauge; META—18 gauge; TSS—22 gauge.

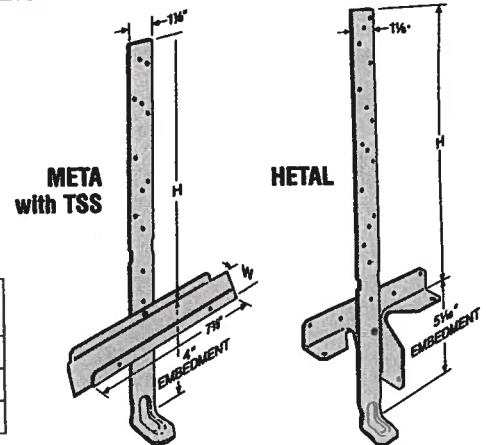
FINISH: Galvanized. Some products available in Z-MAX; see Corrosion Resistance, page 5.

INSTALLATION: • Use all specified fasteners. See General Notes.

- The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 5 1/4".
- Do not drive nails through the truss plate on the opposite side of the truss, which could force the plate off the truss.
- The TSS moisture barrier may be preattached to the truss using 6d commons.

CODES: See page 10 for Code Listing Key Chart.

Model No.	W
TSS2	1 1/4"
TSS2-2	3 1/4"
TSS4	3 1/4"



Model No.	H	Fasteners and Uplift								Lateral Loads (133 & 160)				Code Ref.
		133 Load Duration Increase				160 Load Duration Increase								
		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		DF/SP		SPF/HF		
		Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	F ₁	F ₂	F ₁	F ₂	
META12	8	7-10dx1½	1240	7-16d	1450	7-10dx1½	1450	6-16d	1450	335	635	270	545	160
META14	10	9-10dx1½	1450	7-16d	1450	7-10dx1½	1450	6-16d	1450	335	635	270	545	
META16	12	9-10dx1½	1450	7-16d	1450	7-10dx1½	1450	6-16d	1450	335	635	270	545	
META18	14	9-10dx1½	1450	7-16d	1450	7-10dx1½	1450	6-16d	1450	335	635	270	545	
META20	16	8-10dx1½	1415	6-16d	1250	6-10dx1½	1270	5-16d	1245	335	635	270	545	
META22	18	9-10dx1½	1450	7-16d	1450	7-10dx1½	1450	6-16d	1450	335	635	270	545	
META24	20	9-10dx1½	1450	7-16d	1450	7-10dx1½	1450	6-16d	1450	335	635	270	545	
META40	36	9-10dx1½	1450	7-16d	1450	7-10dx1½	1450	6-16d	1450	—	—	—	—	
HETA12	8	7-10dx1½	1265	7-16d	1475	7-10dx1½	1520	7-16d	1780	335	730	270	625	8, 62
HETA16	12	10-10dx1½	1810	9-16d	1810	9-10dx1½	1810	8-16d	1810	335	730	270	625	
HETA20	16	9-10dx1½	1630	8-16d	1690	8-10dx1½	1735	7-16d	1780	335	730	270	625	
HETA24	20	10-10dx1½	1810	9-16d	1810	9-10dx1½	1810	8-16d	1810	335	730	270	625	170
HETA40	36	10-10dx1½	1810	9-16d	1810	9-10dx1½	1810	8-16d	1810	—	—	—	—	
HHETA12	8	7-10dx1½	1305	7-16d	1520	7-10dx1½	1565	7-16d	1820	335	730	270	625	160
HHETA16	12	12-10dx1½	2235	11-16d	2235	10-10dx1½	2235	9-16d	2235	335	730	270	625	
HHETA20	16	11-10dx1½	2050	10-16d	2170	9-10dx1½	2010	8-16d	2080	335	730	270	625	
HHETA24	20	12-10dx1½	2235	11-16d	2235	10-10dx1½	2235	9-16d	2235	335	730	270	625	
HHETA40	36	12-10dx1½	2235	11-16d	2235	10-10dx1½	2235	9-16d	2235	—	—	—	—	
HETAL12	7	10-10dx1½	905	10-16d	1055	10-10dx1½	1085	10-16d	1270	415	1100	355	945	
HETAL16	11	15-10dx1½	1810	14-16d	1810	14-10dx1½	1810	13-16d	1810	415	1100	355	945	8, 62
HETAL20	15	15-10dx1½	1810	14-16d	1810	14-10dx1½	1810	13-16d	1810	415	1100	355	945	

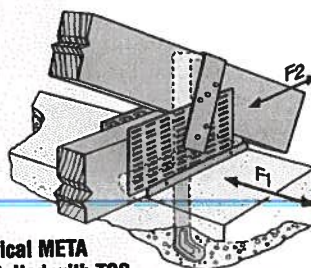
1. Loads include a 33% or 60% load duration increase on the fasteners for seismic or wind loading, but do not include a 33% stress increase on the steel capacity. Refer to page 12 for further explanation.
2. Five nails must be installed into the truss seat of the HETAL.
3. Parallel-to-plate load towards face of HETAL is 1975 lbs.

4. Lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel.
5. Minimum f'c is 2,000psi.
6. It is acceptable to use a reduced number of fasteners in a product provided that there is a reduction in load capacity. The load per nail can be approximated by dividing the allowable load by the number of fasteners. This concept applies to all member sizes. There should be a minimum of 4 nails installed in the strap.

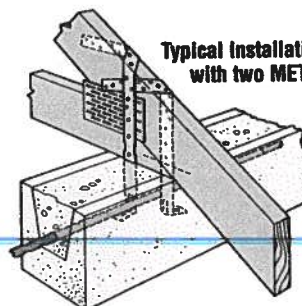
Model No.	Double Embedded Anchor Installation Into Grouted CMU Bond Beam								Lateral Loads (133 & 160)				Code Ref.
	133 Load Duration Increase				160 Load Duration Increase				DF/SP		SPF/HF		
	1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss						
	Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	F ₁	F ₂	F ₁	F ₂	
META	12-10dx1½	1985	14-16d	1900	10-10dx1½	1985	14-16d	1900	1210	1160	1040	1000	160
HETA	12-10dx1½	2035	14-16d	2500	10-10dx1½	2035	12-16d	2500	1225	1520	1055	1305	

1. For concrete tie beam applications for 2 or 3 ply trusses, increase the META load 35% and the HETA load 8%.
2. Divide total number of fasteners equally between both straps.
3. Minimum f'c is 2,500 psi.
4. See instruction to the Designer page 9 for loads in multiple directions.
5. Lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel.

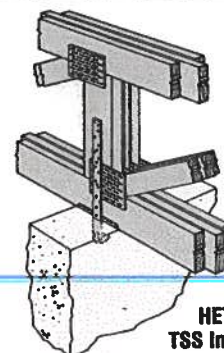
Typical META
Installed with TSS



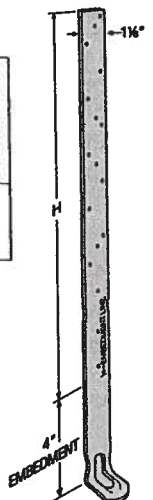
Typical Installation
with two METAs



Typical
HETA20 with
TSS Installation



HETA20
(HHETA
similar)



MGT/HGT

HEAVY GIRDER
TIEDOWNS

SIMPSON
Strong-Tie

HGT provide lighter load alternatives for the HGT-4 is sized for 4-2x widths. This series provides uplift resistance for wood frame and concrete block construction. The HGT can be installed on trusses and beams with chord slopes from 3:12 to 8:12. Available in 2-ply, and 4-ply widths.

MATERIAL: LGT—14 ga; MGT—12 ga; HGT—7 ga.

FINISH: HGT—Simpson gray paint;

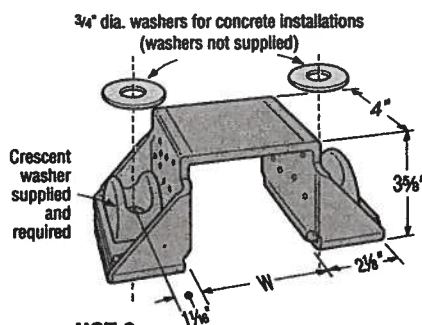
LGT, MGT—galvanized

INSTALLATION: • When the HGT-3 is used with a 2-ply girder or beam, shimming is required. Fasten to act as one unit.

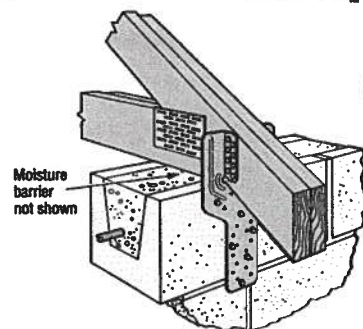
- Attach to grouted concrete block with a minimum one #5 rebar horizontal in the top lintel block.

- Minimum $f'_c = 2500$ psi maximum aggregate $\frac{3}{4}$ ".

CODES: See page 10 for Code Listing Key Chart.



HGT-2
(HGT-3 and HGT-4 similar)



Typical LGT2
Installation into Masonry

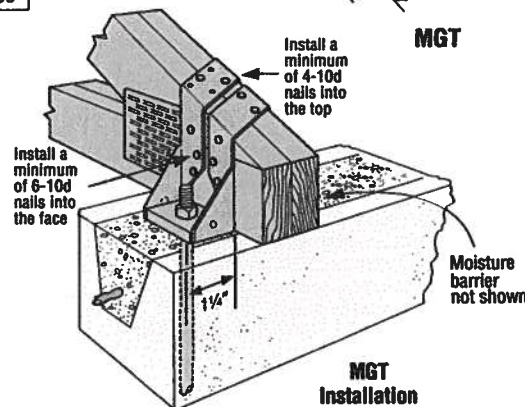
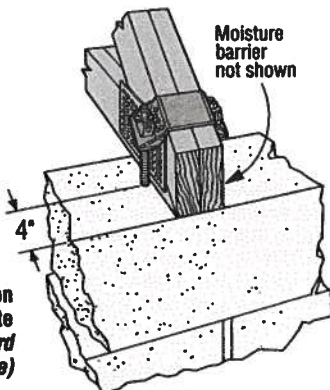
Model No.	W	O.C. Dim Between Anchors	Fasteners		Avg Ull	DFL/SP Allowable Loads (133/160)	SPF Allowable Loads (133/160)	Code Ref.
			Anchor Dia.	Girder				
MGT	3 3/4	—	1-3/8	22-10d	13005	3965	3330	160
HGT-2	3 1/8	5 3/4	2-3/4	16-10d	35400	10980	6485	6, 38, 62
HGT-3	4 1/8	7 3/8	2-3/4	16-10d	35580	10530	9035	
HGT-4	6 1/8	9	2-3/4	16-10d	28805	9250	9250	

Masonry Application

Model No.	W	O.C. Dim Between Anchors	Fasteners			Avg Ull	DFL/SP Allowable Loads (133/160)	SPF Allowable Loads (133/160)	Code Ref.
			CMU	Concrete	Girder				
LGT2	3 3/8	—	7-1/4x2 1/4 Titen	7-1/4x1 3/4 Titen	16-16d Sinker	6533	2150	1850	160

1. Attached members must be designed to resist applied loads.
2. To achieve the loads listed, anchorage into a concrete block bond beam shall be designed by the building designer.
3. To achieve the loads listed for the HGT, anchorage into a 8" wide concrete tie-beam can be made using Simpson SET epoxy with a 3/4" diameter anchor and a minimum embedment depth of 12".
4. Allowable loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.

Typical HGT-2 Installation
into Concrete
(3/4" diameter standard
washers required for concrete)



MGT

MGT
Installation

MTSM/HTSM

TWIST
STRAPS

The MTSM and HTSM offer high strength truss to masonry connections.

MATERIAL: MTSM—16 gauge; HTSM—14 gauge

FINISH: Galvanized. Some products available in stainless steel and Z-MAX; see Corrosion-Resistance, page 5.

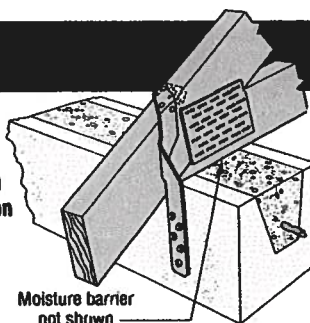
INSTALLATION: • Use all specified fasteners. See General Notes.

- Attach to grouted concrete block with a minimum one #5 rebar horizontal.

- Minimum $f'_c = 2500$ psi maximum aggregate $\frac{3}{4}$ ".

CODES: See page 10 for Code Listing Key Chart.

Typical
MTSM20
Installation



Moisture barrier
not shown

Model No.	L	Fasteners ²			Doug-Fir-Larch/So Pine Allowable Uplift Loads ¹			Spruce-Pine-Fir Allowable Uplift Loads ¹			Code Ref.
		Truss	CMU	Concrete	10d	10dx1½"		10d	10dx1½"		
					(133/160)	(133)	(160)	(133/160)	(133)	(160)	
MTSM16	16	7-10d	4-¼x2½ Titen	4-¼x1¾ Titen	860	840	860	750	730	750	160
MTSM20	20	7-10d	4-¼x2½ Titen	4-¼x1¾ Titen	860	840	860	750	730	750	
HTSM16	16	8-10d	4-¼x2½ Titen	4-¼x1¾ Titen	1175	1045	1175	1020	905	1020	
HTSM20	20	10-10d	4-¼x2½ Titen	4-¼x1¾ Titen	1175	1045	1175	1020	1020	1020	

- 1. Loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed; reduced where other loads govern.

- 2. Twist straps do not have to be wrapped over the truss to achieve the allowable load.

- 3. Minimum edge distance for Titen is 1 1/2".

MTSM20

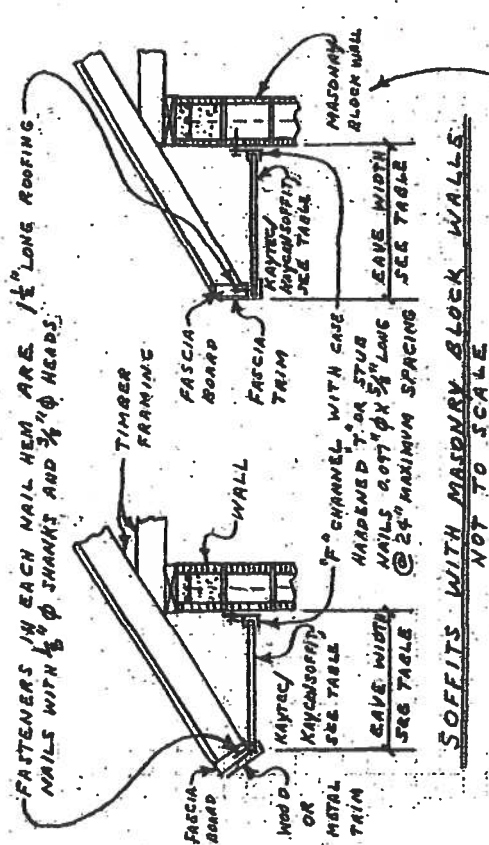
MTSM16

ALUM FASCIA & SOFFIT

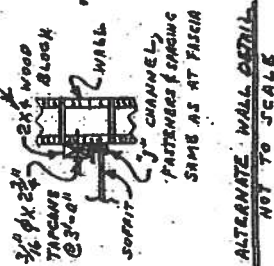
ALLOWABLE DESIGN WIND PRESSURES IN PSF					
KAYTEC/KAYCAN SOFFIT TYPE	EAVE WIDTH IN INCHES				
	12"	15"	18"	21"	24"
SP-600 (ALUMINUM) 16" VENTED CATALOG #0605	1/2 72.6	1/2 58.1	1/2 48.4	1/2 41.5	1/2 36.3
SP-600 (ALUMINUM) 16" SOLID CATALOG #0606	1/2 72.2	1/2 57.7	1/2 48.1	1/2 41.2	1/2 36.1
VENTED PANEL 12" (ALUMINUM) CATALOG #0509	1/2 96.6	1/2 77.2	1/2 64.4	1/2 55.2	1/2 48.3
SOLID PANEL 12" (ALUMINUM) CATALOG #0510	1/2 96.0	1/2 76.8	1/2 64.0	1/2 54.9	1/2 48.0
FULL O-VENT 7 1/2" (15") VINYL PRODUCT CODE: 0502	1/2 47.5	1/2 36.5	1/2 29.7	1/2 25.2	1/2 21.6
ECO SOLID CENTER VENT 8" FULL VENT 7 1/2" (15") VINYL PRODUCT CODE: 050502	1/2 45.3	1/2 34.9	1/2 28.4	1/2 23.9	1/2 20.6
SOLID CENTER VENT 8" FULL VENT 7 1/2" (15") VINYL PRODUCT CODE: 050502	1/2 45.3	1/2 34.9	1/2 28.4	1/2 23.9	1/2 20.6
SOLID 8" VENTED 0.5" (10") VINYL PRODUCT CODE: 050505	1/2 54.4	1/2 41.2	1/2 34.0	1/2 28.6	1/2 24.7
BEADED, SOLID AND VENTED 7 1/2" (15") VINYL PRODUCT CODE: 050505	1/2 68.0	1/2 52.3	1/2 42.5	1/2 35.3	1/2 30.9

GENERAL NOTES

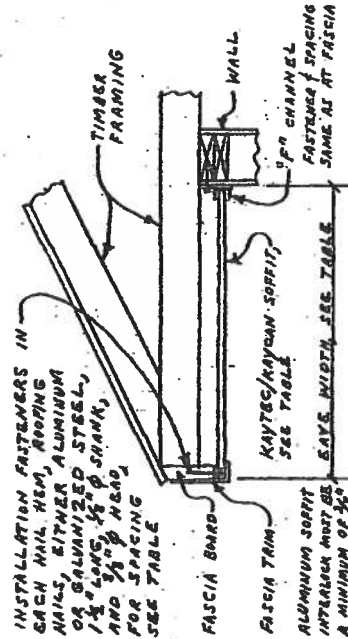
- DESIGN PRESSURES LISTED IN TABLE ARE BASED ON A RATIONAL ANALYSES FOR ALUMINUM SOFFITS DONE IN AN ENGINEERING PROJECT 04020002 AND A COMPARATIVE ANALYSES FOR VINYL SOFFITS DONE IN 04050001 THAT ARE IN CONFORMANCE WITH FLORIDA BUILDING CODE 2004 SECTION 1609 "WIND LOADS".
- FLORIDA BUILDING CODE 2004 DOES NOT DIRECTLY MANDATE WIND LOAD DESIGN PRESSURES ON SOFFITS.



SOFFITS WITH MASONRY BLOCK WALLS
NOT TO SCALE



ALTERNATE WALL DETAIL
NOT TO SCALE



SOFFIT WITH WOOD FRAMED WALL
NOT TO SCALE

SEMCOTM METAL CONNECTORS

Technical Support (800) SE SPECS - (800) 737-7327

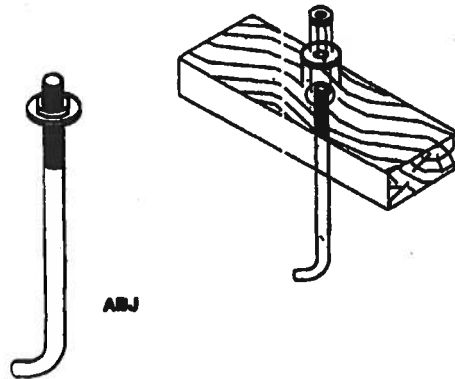
ANCHOR BOLT WITH NUT & 1" WASHER

Design Features:

- Bolt only with code minimum embedment with 3000 PSI concrete will resist 4,800 lbs. see washer capacity below.

Materials: Black and galvanized steel

Footnote: Other sizes available on request. All references to bolts or MB's are structural quality through bolts equal to or better than ASTM Standard A307.



SIZE	PRODUCT CODE	DESCRIPTION	PER CFT
1/2 X8	ABJBL8C	Black	50
1/2 X8	ABJBL8G	Galv.	50
1/2 X10	ABJBL10C	Black	50
1/2 X10	ABJBL10G	Galv.	50
1/2 X14	ABJBL14C	Black	50
1/2 X14	ABJBL14G	Galv.	50
1/2 X18	ABJBL18C	Black	50
1/2 X18	ABJBL18G	Galv.	50
5/8 X12	ABJBL12C	Black	50
5/8 X12	ABJBL12G	Galv.	50

ANCHOR BOLT (WITH NUT & 2"X2"X1/8" WASHER)

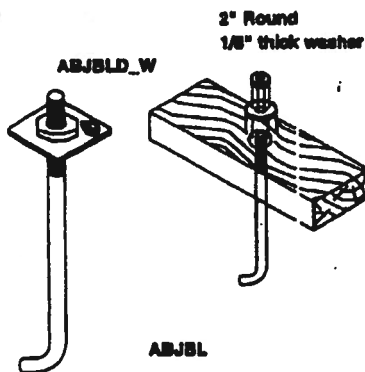
Design Features:

- 6" minimum embedment with 3000 PSI concrete will resist 1,635 lbs.

Materials: Black steel

Footnote: *Supplied with a 2" round washer 1/8" thick.

Wind uplift loads are based on the shear capacity of No. 2 Southern Pine. Compression perpendicular to grain 565 (psi).



SIZE	PRODUCT CODE	DESCRIPTION	PER CFT
1/2x8	ABJBL8W	Black	50
1/2x8	ABJBL8W	Galv.	50
1/2x10	ABJBL10W	Black	50
1/2x10	ABJBL10W	Galv.	50
5/8x12	ABJBL12W	Black	50
5/8x12	ABJBL12W	Galv.	50

ANCHOR BOLT WASHER/PLATE

Design Features:

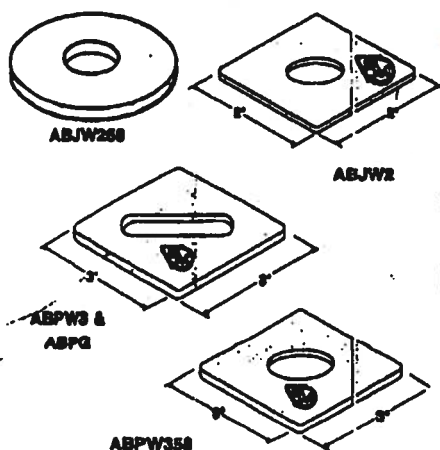
- The washer/plate adds increased resistance to wind uplift for bottom all plate anchor bolt.

Materials: 10 Gauge Galvanized & 1/8 & 1/4 Black steel

Footnote: *Also available in 50# ctn. approximately 345 pcs.

Wind uplift loads are based on the shear capacity of No. 2 Southern Pine. Compression perpendicular to grain 565 (psi).

+Round hole in washer.



BOLT SIZE	GAUGE	PRODUCT CODE	ANCHOR BOLT (DIAMETER)	ALLOWABLE LOADS		PER CFT
				WIND UPLIFT (PSF)	EARTHQUAKE UPLIFT (PSF)	
3/8	1/8	ABJW2	1/2"	1635	1635	50
1/2	1/8	ABJW2	3/8"	1470	1470	50
3/8	10	ABPG12	1/2"	3675	3675	40
1/2	10	ABPG12	3/8"	3675	3675	40
3/8	1/4	ABPW3	1/2"	4800	4800	40
1/2	1/4	ABPW3	3/8"	4800	4800	40

WINDOWS, DOORS, AND MULL BARS INFORMATION

NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI006592
DATE: 06/16/2006
CERTIFICATION PROGRAM: Structural
COMPANY: Atrium
CODE: A-447-1

The "Notice of Product Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown, requires corrections.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Atrium Windows & Doors-Florida 3600 Port Jacksonville Parkway Jacksonville, FL 32226	"Mark 40/50 Premium" Aluminum Single Hung Standard Flange Frame Window Configuration: OX Glazing: O-3/16" Annealed Glass/X-5/32" Annealed Glass STP PSF Frame: W-4'5" Sash: W-4'2" Pos+60.0 H-8'1" H-3'3" Neg-67.5

SPECIFICATION	PRODUCT RATING
AAMA/NWDA 101/1.S.2-97/ AAMA 1302.S-76 Glass Complies to ASTM E1300-02	H-LC35 FER-Passed

Product Tested By: Certified Testing Laboratories
Report No: CTLA-1049W (Structural/FER)
Expiration Date: March 31, 2007

Administrator's Signature: _____

**NATIONAL ACCREDITATION AND
MANAGEMENT INSTITUTE, INC.**

11870 Merchants Walk Suite 202

Newport News, VA 23606

TEL: (757) 594-8658

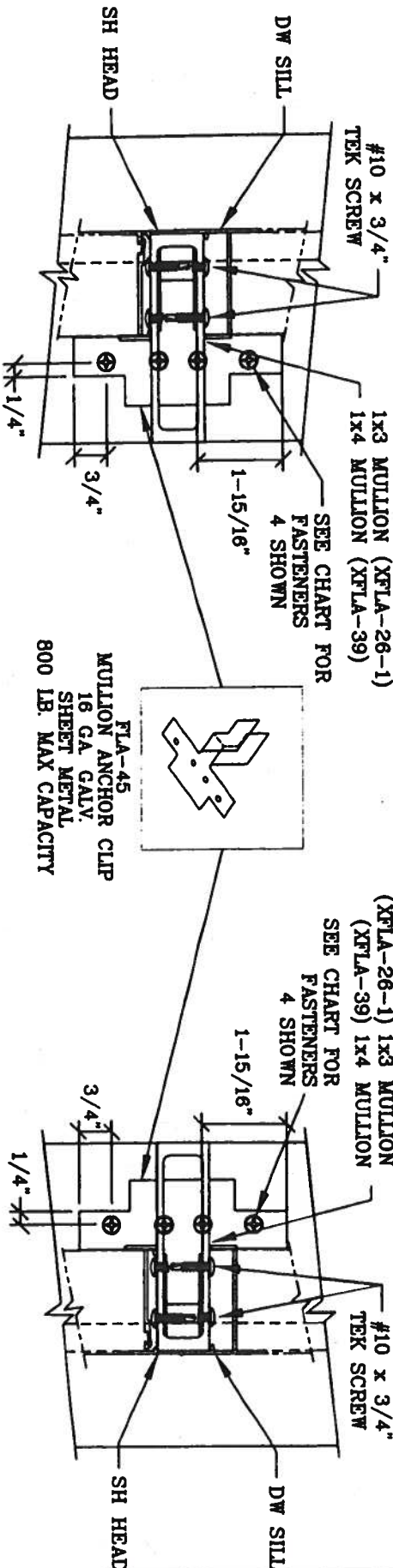
FAX: (757) 594-8659

- NOTES:
- 1) ALL ALUMINUM EXTRUSIONS ARE ALLOY 6063 T6, OR 6063 T5.
 - 2) WHEN THERE IS ONE TAPCON (1/4" X 1-1/2") ON EACH ANGLE LEG, THE TAPCON SHALL BE PLACED ON MULLION CLIP CENTRELINE.
 - 3) CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI AT 28 DAYS.

CHARLES A. HARRIS
FL. REG. ENG. 10001
DATE 3/21/02
ENGINES

HORIZONTAL MULLION SCHEDULE

HORIZONTAL MULLION SCHEDULE					
SINGLE UNIT WINDOW WIDTH INCH	WINDOW HEIGHT INCH	TYPE OF MULLION		TYPE OF CLIP	NUMBER AND TYPE OF FASTENERS
		DESIGN PRESSURE	35 PSF		
19-1/8"	26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	38-1/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	50-5/8"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	63"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
26-1/2"	26-3/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	38-1/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	50-5/8"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
37"	63"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	76-3/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	38-1/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
53-1/8"	50-5/8"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS	
	63"	1.0 x 3.0	OK	(2) 1/4" x 1-1/2" TAPCONS	
	76-3/4"	1.0 x 3.0	OK	(2) 1/4" x 1-1/2" TAPCONS	



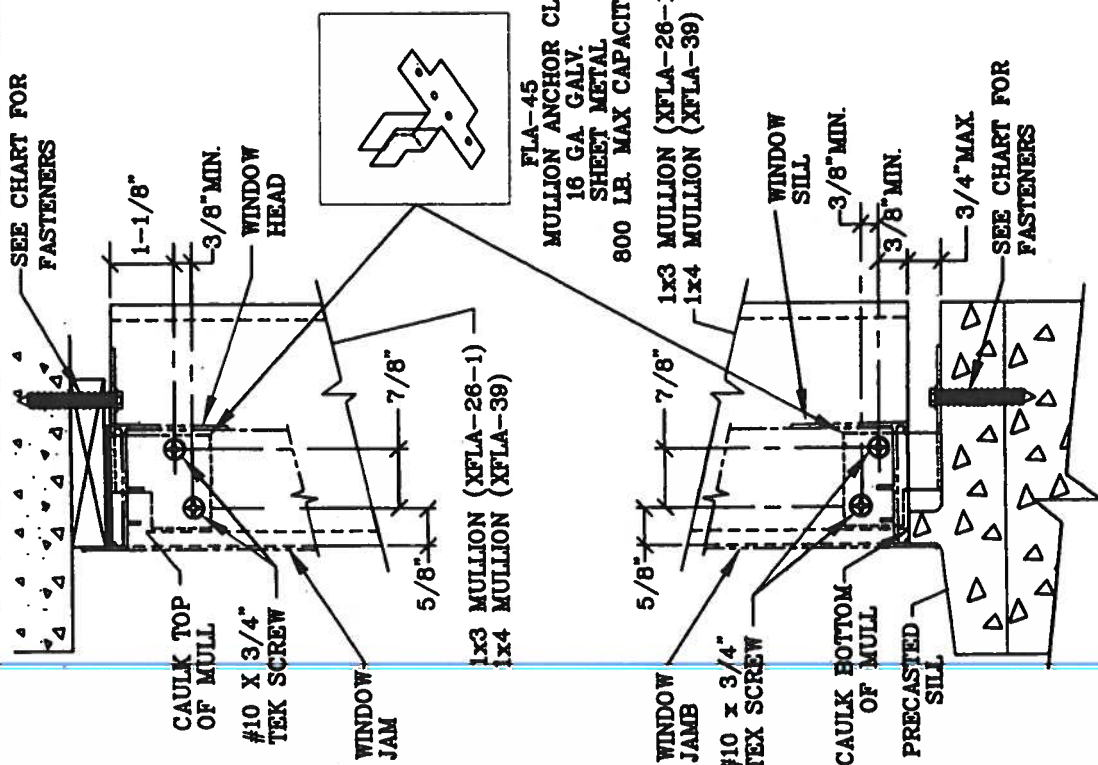
3/11/02	NO. DATE	
SCALE: N.T.S.		
DWG. BY: RAR		
CHE. BY: RLE		
DWG. NO.: FBC-030	REVISIONS DESCRIPTION	

SERIES: MULLION
ALUMINUM SINGLE HUNG

NORANDEX
4506 30th STREET WEST
BRADENTON, FL 34207
PHONE: (841) 766-1891

HORIZONTAL MULLION FLA-45 ANCHOR CLIP INSTALLATION DETAIL AND FASTENER SCHEDULE

SEE CHART FOR
FASTENERS



VERTICAL MULLION SCHEDULE					NUMBER AND TYPE OF FASTENERS
SINGLE UNIT	WINDOW WIDTH INCH	WINDOW HEIGHT INCH	TYPE OF MULLION	TYPE OF CLIP	
			DESIGN PRESSURE	FLA-45	
			35 PSF		
19-1/8"		26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		38-1/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		50-5/8"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		63"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
26-1/2"		76-3/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		38-1/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		50-5/8"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
37"		63"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		76-3/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		38-1/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
53-1/8"		50-5/8"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		63"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		76-3/4"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS
		26"	1.0 x 3.0	OK	(4) 3/16" x 1-1/2" TAPCONS

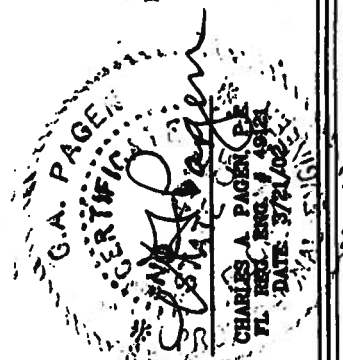
VERTICAL MULLION
FLA-45 ANCHOR CLIP
INSTALLATION DETAIL AND
FASTENER SCHEDULE

SERIES: MULLION
ALUMINUM SINGLE RUNG
NORANDEX
4505 60TH STREET WEST
BRADENTON, FL 34507
PHONE: (941) 765-1801

REV.	DATE	DESCRIPTION

9/11/05
SCALE: N.P.S.
DWG. BY: RAR
CHK. BY: RAR
DWG. NO.: PBC-020

- NOTES:
- 1) ALL ALUMINUM EXTRUSIONS ARE ALLOY 6063 T6, OR 6063 T5.
 - 2) WHEN THERE IS ONE TAPCON (1/4" X 1-1/2") ON EACH ANGLE LEG, THE TAPCON SHALL BE PLACED ON MULLION CLIP CENTERLINE.
 - 3) CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI AT 28 DAYS.





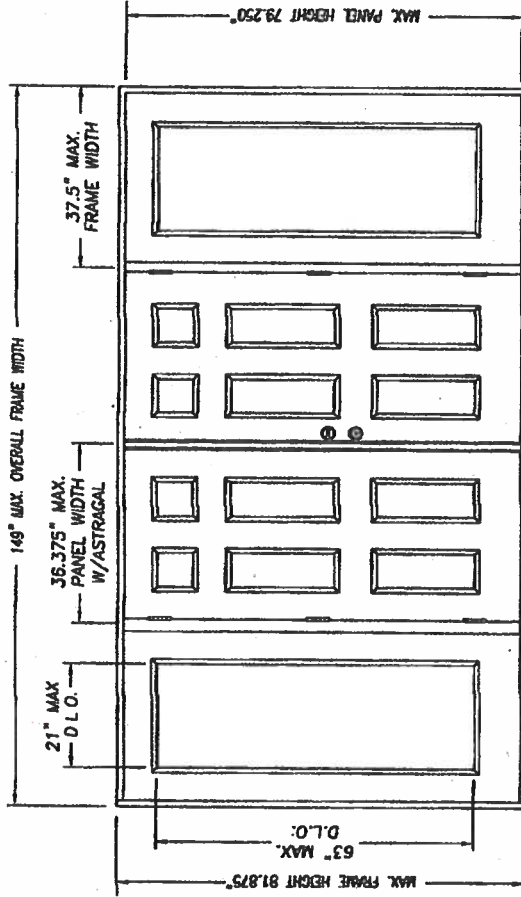
SIDE-HINGED METAL-EDGE STEEL DOOR UNIT
6'-8" DOUBLE DOOR WITH / WITHOUT SIDELITES

GENERAL NOTES

- EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED.
- HURRICANE PROTECTIVE SYSTEM (SHUTTERS) IS NOT REQUIRED ON OPAQUE PANELS, BUT IS REQUIRED ON GLAZED SIDELITES
- POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84.
- PLASTICS TESTING OF LIFE FRAME MATERIAL:

TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	880 °F > 650 °F
RATE OF BURNING	ASTM D635	1.10 IN/MIN
SMOKE DENSITY	ASTM D2843	69.6%
TENSILE STRENGTH*	ASTM D638	-7.48% DIFF

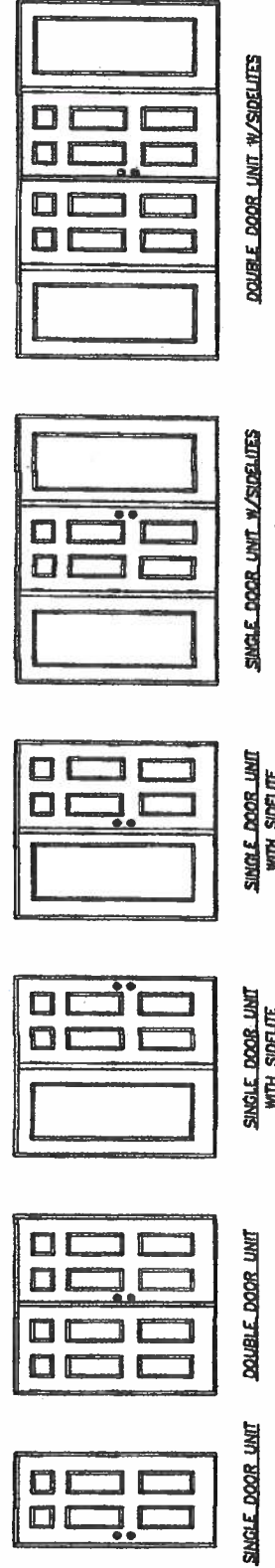
* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING
4500 HOURS XENON ARC METHOD 1



DOUBLE INSULATING UNIT W/SIDELITES

Manufactured by Masonite

Certification: NTC66115
Inspected by: [Signature]
Date Received: 8/17/05



CONFIG	MAX WIDTH	DESIGN PRESSURE RATING				WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE			
		INSWING	OUTSWING	INSWING	OUTSWING	INSWING	OUTSWING	INSWING	OUTSWING
X	37.5	+78.0 / -78.0	+76.0 / -76.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0
XX	74	+55.0 / -55.0	+53.0 / -53.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0
OX OR XO	78	+55.0 / -55.0	+53.0 / -53.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0
OXX	112.5	+55.0 / -55.0	+53.0 / -53.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0
OXXX	149	+55.0 / -55.0	+53.0 / -53.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0	+19.0 / -19.0

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	ANCHORING LOCATIONS & DETAILS
3	ANCHORING LOCATIONS & DETAILS

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: EXTERIOR DOOR PRODUCT
DOUBLE 6\"/>

REVISIONS

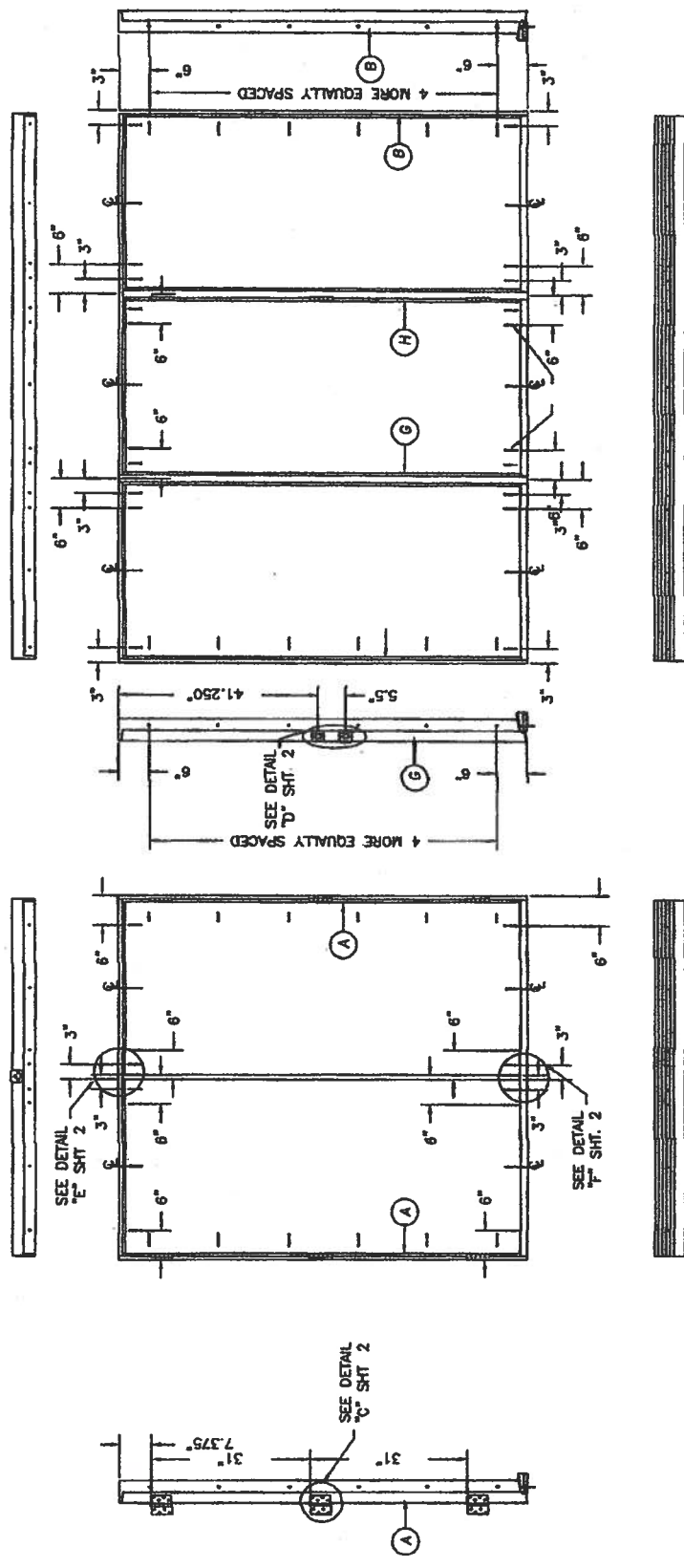
NO.	DATE

DATE: 7/25/05
SCALE: N.T.S.
DRAWN BY: SWS
CHECK BY: [Signature]
DRAWING NO.: DWG-MA-F1012-08
SHEET 1 OF 3

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

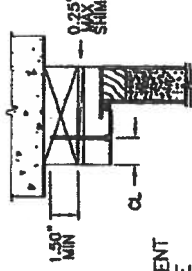
PRODUCT: TERROR DOOR PRODUCT
6-8" METAL-EDGE STEEL, ORANGE
PART OR ASSEMBLY: DOUBLE DOOR UNIT
ANCHORING LOCATIONS & DETAILS

NO.	DATE	REVISIONS
1	7/25/05	SCALE: N.T.S.
2		DWG. BY: SWS
3		CHK. BY:
4		DRAWING NO.: DWG-MA-FL0132-05
5		SHEET 3 OF 3



HARDWARE SCHEDULE

1.	KWIKSET OR SCHLEGE ANSI/BHMA GRADE 3 OR BETTER CYLINDRICAL AND DEADLOCK HARDWARE TO BE INSTALLED AT 5-1/2" CENTERLINE.
2.	4" X 4" FULL MORTISE BUTT HINGES



TYPICAL ANCHOR INSTALLATION

ATTACHMENT DETAIL

- ANCHOR ANALYSIS FOR LOADING CONDITIONS PREPARED, SIGNED AND SEALED BY HAROLD E. RUPP, PE (FLORIDA #15935) WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ANALYZED FOR THIS UNIT INCLUDE #10 WOOD SCREWS OR 3/16" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION.
- THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHIEVEMENT OF 1-1/2" MINIMUM EMBEDMENT. THE TAPCON MUST ACHIEVE MINIMUM EMBEDMENT OF 1-1/4".
- WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
- MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 171 LBS.

Approval to Build
Certification No.: NT066115
Reviewed By: [Signature]
Date Permitted: 8/12/05

GARAGE DOORS INFORMATION

TECHNICAL DATA SHEET**#1550**

GARAGE DOOR WIND LOAD GUIDE
BASED ON THE 2001 FLORIDA BUILDING CODE (ASCE 7-98) EXPOSURE B

Mean Roof Height	Door Size	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
Less than 30 Feet	Single	32.8	35.8	39.1	42.8	46.7	51.0	35.6
	8' x 7'	-14.5	-17.9	-21.6	-25.8	-30.2	-35.1	-40.2
	Double	17.9	15.8	13.3	11.8	10.6	9.7	34.1
	16' x 7'	-13.7	-16.9	-20.4	-24.3	-28.5	-33.1	-38.0

Design pressures above are in Pounds per Square Foot (PSF)

Testing, if required by local authority, may be performed to ASTM E-330, or preferably DASHA 108.

Impact and cyclic wind pressure testing on glazed doors may be performed to ASTM E-1886, or preferably DASHA 115.

Test Conditions:

1. Garage doors shall be tested to both negative and positive pressures. Doors shall be installed simulating normal conditions (i.e., top roller in track radius, other rollers in tracks, all hinges in place, reinforcing hardware in place)
2. Total test duration for each test direction shall be as follows:
 - A. Total of 3600/V seconds, at design pressure; where V is fastest-mile design wind speed.
 - B. Pressure equal to 1.5 times the design pressure shall be included for 10 seconds during each test.

The door successfully passes the test if it remains safely operable through the full travel up and down, and recovers at least 75% of its maximum deflection. Standard engineering principles may be used to interpolate or extrapolate test results to door sizes not specifically tested. Doors shall include a manufacturer's label certifying compliance to specific load.

This guide is provided for reference purposes only. In all cases the local building authority is the sole and final determiner of the structural and safety requirements, and suitability of the garage door.

- Notes:**
- Wind speeds above are three second peak-gust values
 - Negative pressures assume door has 2 feet of width in building's end zone.
 - Garage doors evaluated as attached to enclosed buildings with a Use Factor of 1.0
 - Doors larger than 100 square feet should use the 16 x 7 loads. Doors less than 100 square feet may be interpolated.
 - Garage doors evaluated as Components and Cladding
 - Installation details vary. Consult manufacturer's instructions.

For more information, contact DASHA, 1300 Sumner Avenue, Cleveland OH 44115-2851
 Phone (216) 241-7333 E-mail: dasha@dasha.com Fax (216) 241-0105 URL: www.dasha.com

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASHA's Commercial & Residential Garage Door Division Technical Committee. DASHA is a trade association consisting of manufacturers of rolling doors, lift doors, grilles, counter-shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, opening devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Member's products.

THE VIDEOS

- ## WOOD FRAME BUILDINGS

STUD WALLS OF OPEN ORGANIC SHALL BE FRAISED STUD BY NOT LESS THAN 2 FULL LENGTH STUDS AND 2 HEADSTUDS WHERE SPY STUD COULD OR BETTER VOID.

STUD WALLS TO BE COMPLETED FROM FOOTING TO THE BEAMS AND IN ACCORDANCE WITH SBC SECTION 2903.1.

INSTALLATION IN ACCORDANCE WITH DWS 409763 IS AN ACCEPTABLE ALTERNATIVE.

BLOCK WALL OR CONCRETE

2x4 WFL. WOOD JOBS SHALL BE ANCHORED TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN. BLOCK WALL CELLS SHALL BE FILLED WITH CONCRETE AND REINFORCED WITH #5 BAR DISTRIBUTING. ALL BARS SHALL BE 200 P.S.I. STRENGTH (STRENGTH IS ASSURED TO BE 2800 P.S.I.). ALL BARS SHALL BE 3000 B.T.F. PROOF AND WELD TO FLOORING PER BLOCK WALL OR CONCRETE COLUMN. BLOCK WALLS AND CONCRETE COLUMNS FROM THE CEILING TO FLOORING PER BLOCK WALL OR CONCRETE COLUMN SHALL BE DESIGNED BY BUILDING PROFESSIONAL OF RECORD AND IN ACCORDANCE WITH SECTION 2704.2.

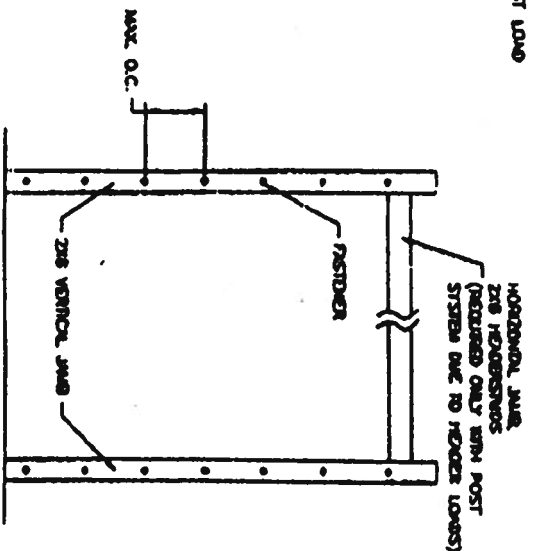
2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

DO NOT TO BE USED FOR ATTACHMENT OF TRUCK BRACKETS TO THE VEHICLE JAWS OR SUPPORTING STRUCTURE.

BUILDING TYPE	FASDECK TYPE	MIN. NO. OF FASTENERS PER VERTICAL JAMB	MAXIMUM ON CENTER DISTANCE BETWEEN FASTENERS	STEEL WISERS REQUIRED?
WOOD FRAME (5/8")	5/16" x 3" LUG SCREW (ASTM A307), CHUCK AL 1-3/8" MIN. EMBED.	7	16"	YES
C-60 BLOCK (2,560 PSI GROUP)	1/4" x 4" NYL TACKLE CO-EXTR. ANCHOR 1-3/4" MIN. EMBED.	9	16"	YES
C-80 BLOCK (2,560 PSI GROUP)	3/8" x 4" NYL. LUG/ROFL ANCHOR BOL. 1-3/8" MIN. EMBED.	7	18"	NO
CONCRETE COLUMN (2,500 PSI)	3/8" x 4" NYL. LUG/ROFL ANCHOR BOL. 1-3/8" MIN. EMBED.	7	18"	NO

- DRPODS/MOTOR BOLTS CAN BE INSTALLED DIRECTLY THROUGH THICK BRACKET/S/WALL IN LENS OF 3/16" X 1-5/8" LG SCREWS.
- DRPOD/BOLT SHALL BE TORQUED AS SPECIFIED BY THE RAIL DRILLING AND MACHINING SYSTEMS DESIGN MANUAL.

APPROVED



PHE VTB02003		
DATE	DESCRIPTION	AMOUNT
-	APP FOR DR MORGAN	25
A	NEW FOR ON 10012	107
	total 100000 100000	132

1. NAME OF THE PERSON 2. ADDRESS 3. CITY 4. STATE 5. ZIP		6. DATE OF BIRTH 7. SEX 8. RACE 9. HEIGHT 10. WEIGHT		11. SOCIAL SECURITY NUMBER 12. MARITAL STATUS 13. NUMBER OF CHILDREN 14. OCCUPATION	
15. EDUCATION 16. EMPLOYMENT HISTORY 17. CRIMINAL RECORD 18. OTHER INFORMATION		19. DATE OF ARREST 20. CHARGE 21. ARRESTING AGENCY 22. BOND AMOUNT 23. BOND TYPE		24. COURT DATE 25. JUDGE 26. PROSECUTOR 27. DEFENSE ATTORNEY	

ROOFING INFORMATION



Application Instructions for • HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

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

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

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

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

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

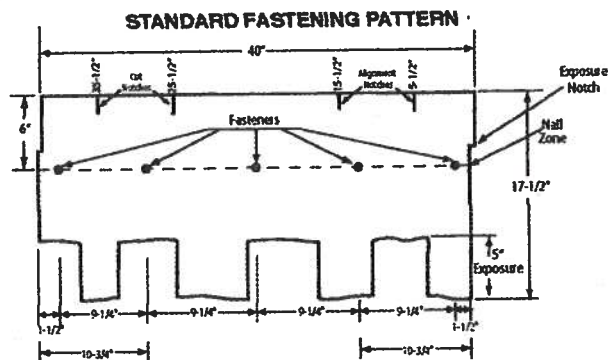
3. FASTENERS

WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) **Standard Fastening Pattern.** (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).



2) **Mansard or Steep Slope Fastening Pattern.** (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

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7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

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

05/06

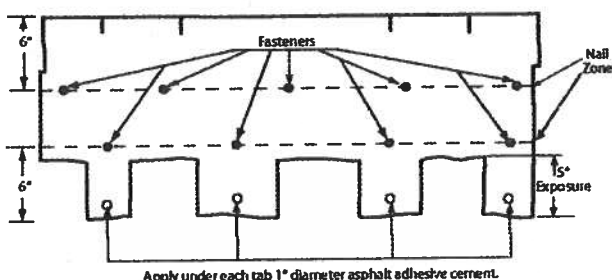


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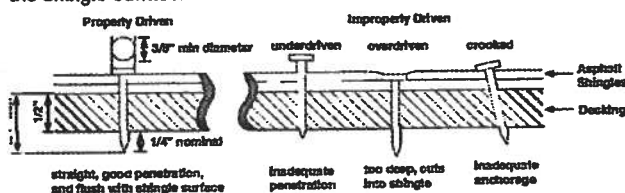
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

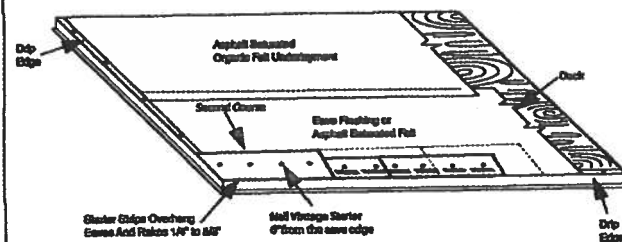
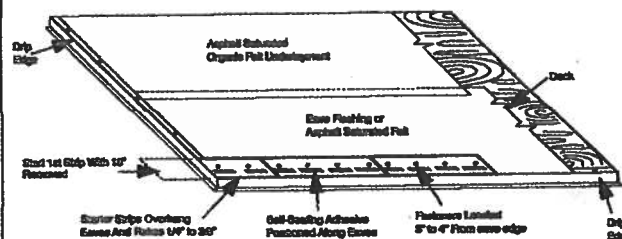
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information. TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.

The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.



Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

(Continued)

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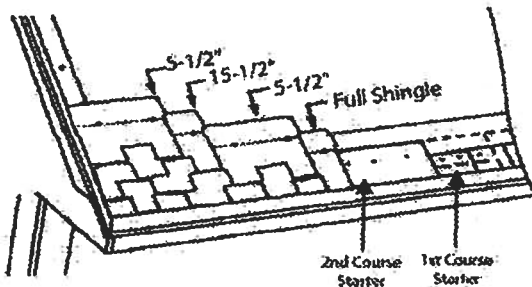
05/06



(CONTINUED from Pg. 2)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

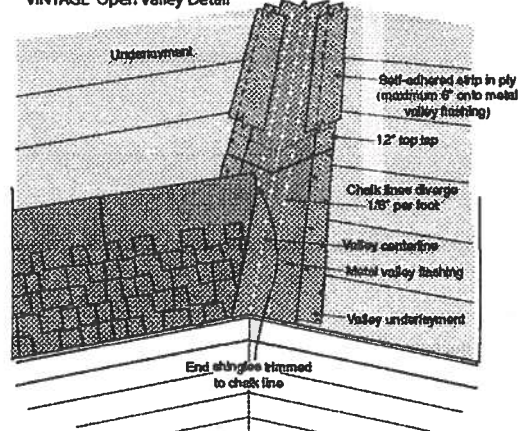
SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.
- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

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7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

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

05/06



(CONTINUED from Pg. 3)

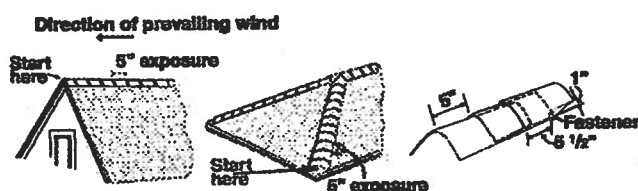
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

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

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



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

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and Vintage™ is a trademark of TAMKO Building Products, Inc.

Visit Our Web Site at
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2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
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05/06

LINTEL INFORMATION

Cement Precast Products, Inc.

INSTALLATION INSTRUCTIONS

Version 1.0

February 28, 2005

INSTALLATION INSTRUCTIONS

Cement Precast Products, Inc.

**PRECAST LINTELS
(6", 8" AND 12" WIDE)**

In order for proper installation of precast and prestressed lintels, DANSOCO Engineering, LLC, has prepared this installation instructions to be used in conjunction with quality control methods of the contractor and good construction practices.

Preparation

1. All reinforcements shall be cleaned by removing mud, oil, or other materials that will adversely affect or reduce bond at the time mortar or grout is placed. Reinforcement with rust, mill scale, or a combination of both will be accepted as being satisfactory without cleaning or brushing provided the dimensions and weights, including heights of deformations, of a cleaned sample are not less than required by the ASTM specification covering this reinforcement in this Specification.
2. Prior to placing masonry, remove laitance, loose aggregate, and anything else that would prevent mortar from bonding to the lintel.
3. Debris – Construct grout spaces free of mortar dropping, debris, loose aggregates, and any material deleterious to masonry grout.

Lintel / masonry erection

1. Placing lintel – Length of bearing of lintels on their support shall be a minimum of 4 inches for filled lintels and 6 ½ inches for unfilled lintels in the direction of span. Provide a temporary support for lintels that are greater than 14' – 0"; the temporary support shall not be removed until 2 days after the grout placement.
2. Placing mortar and units (for composite lintels only)
 - Bed and head joints – Unless otherwise required, construct 3/8 inches thick bed and head joints. Construct joints that also conform to the following:
 - a) Unless otherwise required, tool joint with a round jointer when the mortar is thumbprint hard.
 - b) Remove masonry protrusions extending ½ inches or more into cells or cavities to be grouted.
 - Place hollow units so:
 - a) Face shells of bed joints are fully mortared.
 - b) Head joints are mortared, a minimum distance from each face equal to the face shell thickness of the unit.

INSTALLATION INSTRUCTIONS

- c) Vertical cells to be grouted are aligned and unobstructed openings for grout are provided in accordance with the Project Drawings.

- Place clean units while the mortar is soft and plastic. Remove and relay in fresh mortar any unit disturbed to the extent that initial bond is broken after initial positioning.

Reinforcement installation

- a) Support and fasten reinforcement together to prevent displacement beyond the tolerances allowed by construction loads or by placement of grout or mortar.
- b) Completely embed reinforcing bars in grout in accordance with ACI530-02 Article 3.5.
- c) Maintain clear distance between reinforcing bars and any face of masonry unit or formed surface, but not less than ¼ inches for fine grout or ½ inches for coarse grout.
- d) Splice only where indicated on the Project Drawings, unless otherwise acceptable.
- e) Unless accepted by the Architect/ Engineer, do not bend reinforcement after it is embedded in grout or mortar.
- f) Place joint reinforcement so that longitudinal wires are embedded in mortar with a minimum cover of ½ inches when not exposed to weather or earth and 5/8 inches when exposed to weather or earth.

Grout placement

- a) Placing time – Place grout within 1½ hours from introducing water in the mixture and prior to initial set.
- b) Confinement – Confine grout to the areas indicated on the Project Drawings. Use material to confine grout that permits bond between masonry units and mortar.
- c) Grout pour height – Do not exceed the maximum grout pour height given in the ACI530-02 Table 7.
- d) Grout lift height – Place grout in lifts not exceeding 5 feet.
- e) Consolidation – Consolidate grout at the time of placement.
 - Consolidate grout pours 12 inches or less in height by mechanical vibration or by puddling.
 - Consolidate pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.

Field quality control

- a) Verify masonry unit strength, f_m in accordance with the ACI530-02 Article 1.6.
- b) Sample and test grout as required by the ACI530-02 Articles 1.4B and 1.6.

**DE
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E-mail: dengine1@danscoengineering.com
CA25948

Cement Precast Products, Inc.

Precast concrete lintels 6", 8" and 12" wide have been reviewed by our office for compliance with the following codes:

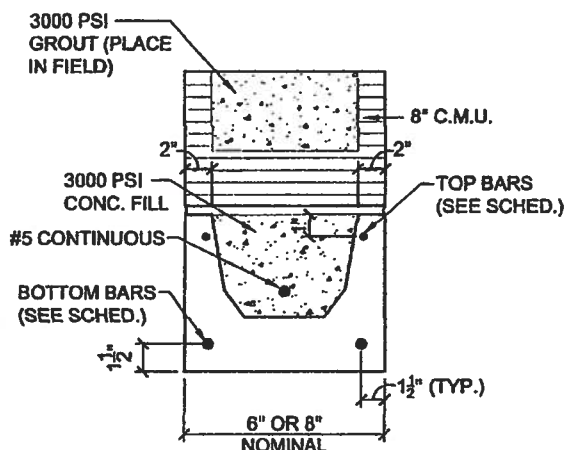
- Florida Building Code 2004 Residential, sections R402.2 and R606.
- Florida Building Code 2004 Building, sections 1901.2 and 2107.

Our review is limited to the precast concrete lintels together with verification that they are accurate and appropriate for use according to the requirements of the above-referenced codes. Only Cement Precast Products, Inc. lintels may be used for the work depicted herein.

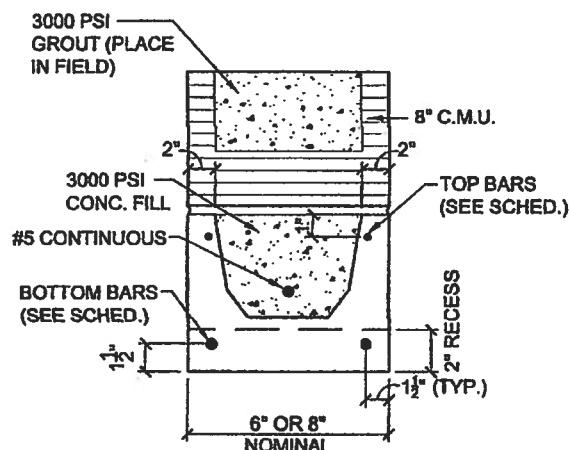




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www.cementprecast.com



TYPICAL LINTEL SECTION
(6" OR 8"x16" LINTEL IS SHOWN)



TYPICAL RECESS LINTEL SECTION
(6" OR 8"x16" LINTEL IS SHOWN)

ENGINEERING SPECIFICATIONS:

- 1.) SAFE LOADS ARE TOTAL SUPERIMPOSED ALLOWABLE LOADS.
- 2.) DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY CALCULATING MAX. RESISTING SHEAR AND MOMENT FOR THE LISTED LINTELS.
- 3.) SAFE LOADS LISTED ON ALL TABLES ARE IN UNITS OF POUND PER LINEAR FOOT.

GENERAL NOTES:

- 1.) CODES:
 - 1.1 FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTIONS R402.2, & R606.
 - 1.2 FLORIDA BUILDING CODE 2004 BUILDING, SECTIONS 1901.2 & 2107.
 - 1.3 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-02).
 - 1.4 AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-98).
- 2.) CONCRETE:
 - 2.1 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
 - 2.1.1 CONCRETE FILL (PLACE IN FIELD) - 3000 PSI
 - 2.1.2 PRECAST W/ STANDARD REINFORCEMENT - 5000 PSI
 - 2.1.3 GROUT PER ASTM C476 - 3000 PSI W/ MAX. 3/8" AGGREGATE, 8" TO 11" SLUMP.
 - 2.2 REINFORCING BARS:
 - 2.2.1 STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED IN FIELD) ASTM A615 (GRADE 40).
 - 2.3 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
 - 2.4 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

3) MASONRY:

- 3.1 DESIGN AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATION OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND ACI 530-02.
- 3.2 MINIMUM MASONRY UNIT STRENGTH: FM 1500 PSI.
- 3.3 MORTAR SHALL BE TYPE S.

4) STRUCTURAL:

- 4.1 SAFE LOAD VALUES ARE BASED ON LINTELS HAVING A BEARING OF 4".
- 4.2 FOR LINTELS THAT ARE GREATER THAN 14'-0" CLEAR SPAN THEY SHALL BE PROVIDED A TEMPORARY SUPPORT, AND THE TEMPORARY SUPPORT SHALL NOT BE REMOVED UNTIL 2 DAYS AFTER GROUT PLACEMENT.



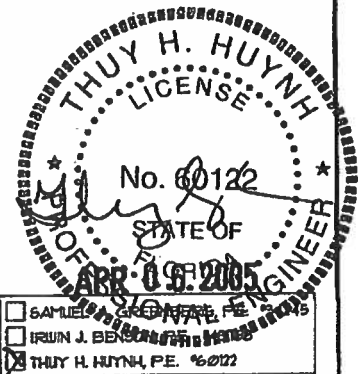
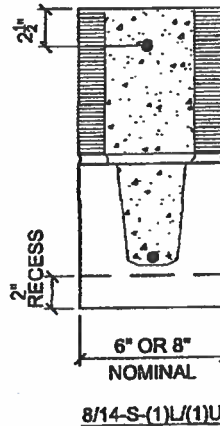
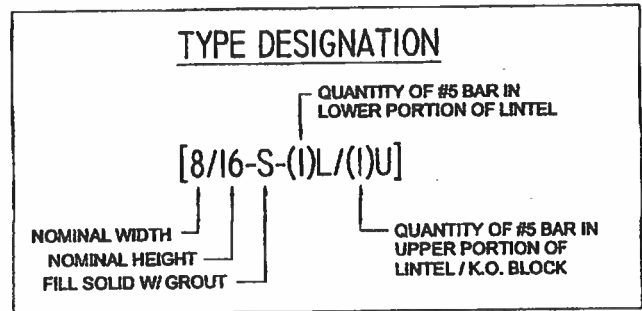
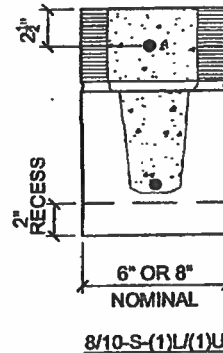
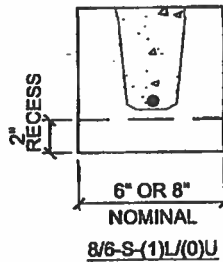
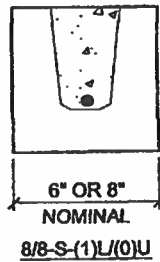
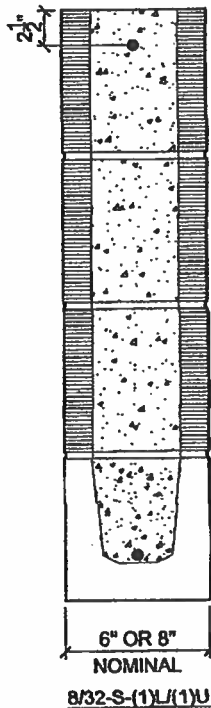
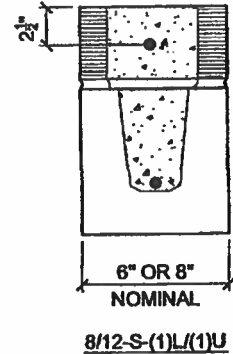
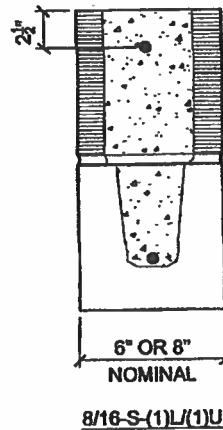
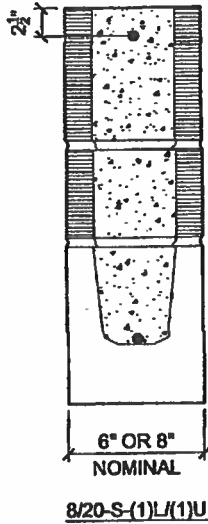
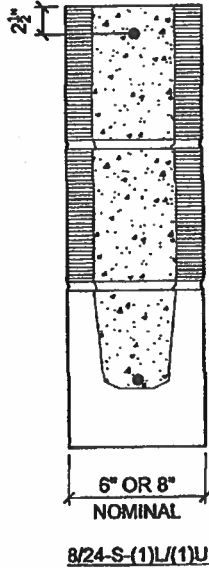
<input type="checkbox"/>	SAMUEL A. GREENBERG, P.E. #34245
<input type="checkbox"/>	IRWIN J. BENSON, P.E. #49758
<input checked="" type="checkbox"/>	THUY H. HUYNH, P.E. #60122

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GENERAL NOTES & DETAILS	
CEMENT PRECAST PRODUCTS INC.	REV.: DATE: 03/04/05
DEF 24-4547	DRG: E.M. SCALE: N.T.S. SK1

cp

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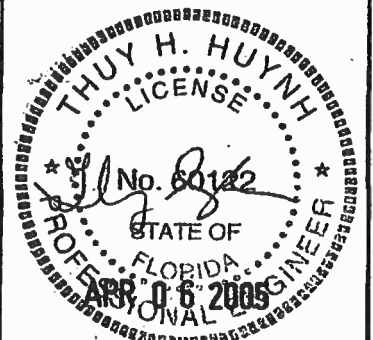
DE DANSO ENGINEERING, LLC.		
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PHONE - (813) 645-6164 FAX - (813) 645-6800		
CA 23540		
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6"/8" PRECAST LINTEL DETAILS		
CEMENT PRECAST PRODUCTS INC.	REV:	DATE: 03/04/05
		DWG: E.M.
		SCALE: N.T.S.
DE# 24-4547		SK2



Cement Precast Products, Inc.
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LINTEL		8" LINTEL SAFE GRAVITY LOADS (PLF)							
TOTAL LENGTH	CLEAR SPAN	TOP REINF.	BOTTOM REINF.	8/8-S-(0)L	8/12-S-(0)L	8/16-S-(0)L	8/20-S-(0)L	8/24-S-(0)L	8/32-S-(0)L
3'-0"	1'-8"	None	(2) #3	3859	8159	10000	10000	10000	10000
3'-6"	2'-2"	None	(2) #3	2861	5757	8114	10000	10000	10000
4'-0"	2'-8"	None	(2) #3	2270	4279	6034	7791	9550	10000
4'-6"	3'-2"	None	(2) #3	1879	3301	4658	6015	7375	10000
4'-8"	3'-4"	None	(2) #3	1776	3048	4301	5556	6811	9324
5'-4"	4'-0"	None	(2) #3	1340	2275	3213	4153	5093	5744
5'-10"	4'-6"	None	(2) #3	1101	1875	2644	3418	4193	6975
6'-4"	5'-0"	(2) #2	(2) #4	1178	2258	3513	5083	6245	8570
6'-6"	5'-2"	(2) #2	(2) #4	1168	2167	3347	4808	5907	8107
6'-8"	5'-4"	(2) #2	(2) #4	1098	2084	3186	4554	5595	7680
7'-6"	6'-2"	(2) #2	(2) #4	938	1745	2604	3539	4349	5972
7'-8"	6'-4"	(2) #3	(2) #4	912	1690	2511	3376	4150	5699
8'-0"	6'-8"	(2) #3	(2) #4	862	1589	2342	3082	3789	5204
8'-8"	7'-4"	(2) #3	(2) #4	778	1407	2001	2586	3193	4387
9'-4"	8'-0"	(2) #3	(2) #5	718	1292	1856	2527	3461	5859
10'-4"	9'-0"	(2) #3	(2) #5	632	1125	1597	2141	2800	4669
11'-4"	10'-0"	(2) #3	(2) #5	563	995	1399	1854	2391	3837
12'-0"	10'-8"	(2) #3	(2) #5	524	923	1291	1701	2178	3427
12'-8"	11'-4"	(2) #3	(2) #5	490	861	1198	1570	1998	3066
13'-4"	12'-0"	(2) #3	(2) #5	460	806	1117	1457	1932	2748
14'-0"	12'-8"	(2) #3	(2) #5	434	757	1046	1359	1712	2475
14'-8"	13'-4"	(2) #4	(2) #6	412	716	985	1275	1600	2391
15'-8"	14'-4"	(2) #4	(2) #6	377	658	903	1163	1452	2142
17'-4"	16'-0"	(2) #4	(2) #6	263	579	790	1012	1255	1822
19'-4"	18'-0"	(2) #4	(2) #6	157	505	686	874	1076	1540
20'-0"	18'-8"	(2) #5	(2) #6	132	484	656	835	1027	1463
21'-4"	20'-0"	(2) #5	(2) #6	95	372	604	766	939	1329
22'-0"	20'-8"	(2) #5	(2) #6	80	323	580	735	901	1271
24'-0"	22'-8"	(2) #5	(2) #6	N.R.	214	493	656	800	1120

N.R. = NOT RECOMMENDED



☐ SAMUEL A. GREENBERG, P.E. #34245
☐ IRVIN J. BENSON, P.E. #49158
☒ THUY H. HUYNH, P.E. #60142

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CA 29000

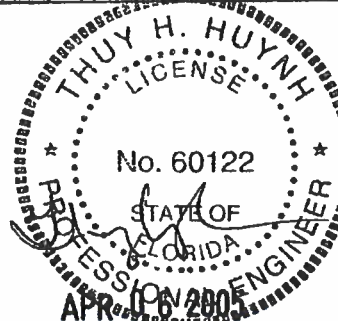
CEMENT PRECAST PRODUCTS INC.
REV.:
DATE: 03/04/05
DWG: E.M.
SCALE: N.T.S.
DE# 24-4547
SK7



Cement Precast Products, Inc.
2033 N.E. 27th Avenue Gainesville, FL 32609 • (352) 372-0953 • Fax: (352) 378-4611
www.cementprecast.com

LINTEL		8" LINTEL SAFE UPLIFT LOADS (PLF)								LATERAL LOADS (PLF)	
TOTAL LENGTH	CLEAR SPAN	TOP REINF.	BOTTOM REINF.	8/8-S-(1)U	8/12-S-(1)U	8/16-S-(1)U	8/20-S-(1)U	8/24-S-(1)U	8/32-S-(1)U	8/8-P	8/8-S
3'-0"	1'-8"	None	(2) #3	3369	9999	10000	10000	10000	10000	811	2089
3'-6"	2'-2"	None	(2) #3	2539	6508	10000	10000	10000	10000	575	1481
4'-0"	2'-8"	None	(2) #3	2038	4763	7739	10000	10000	10000	429	1105
4'-6"	3'-2"	None	(2) #3	1701	3756	5993	7894	9796	10000	332	855
4'-8"	3'-4"	None	(2) #3	1613	3508	5541	7298	9057	10000	307	791
5'-4"	4'-0"	None	(2) #3	1334	2401	4162	5481	6803	8448	230	594
5'-10"	4'-6"	None	(2) #3	1182	2350	3439	4530	5622	7808	190	491
6'-4"	5'-0"	(2) #2	(2) #4	1110	1975	2890	3906	4724	6561	333	884
6'-6"	5'-2"	(2) #2	(2) #4	1083	1869	2736	3803	4472	6211	316	847
6'-8"	5'-4"	(2) #2	(2) #4	1048	1772	2594	3416	4240	5888	299	803
7'-6"	6'-2"	(2) #2	(2) #4	802	1384	2025	2663	3311	4598	233	627
7'-8"	6'-4"	(2) #3	(2) #4	916	1322	1934	2548	3162	4392	273	742
8'-0"	6'-8"	(2) #3	(2) #4	823	1209	1770	2331	2893	4018	249	679
8'-8"	7'-4"	(2) #3	(2) #4	746	1023	1498	1973	2449	3410	205	575
9'-4"	8'-0"	(2) #3	(2) #5	721	877	1294	1694	2099	2818	175	653
10'-4"	9'-0"	(2) #3	(2) #5	639	711	1040	1370	1700	2362	125	529
11'-4"	10'-0"	(2) #3	(2) #5	573	587	859	1132	1405	1952	92	437
12'-0"	10'-8"	(2) #3	(2) #5	538	522	784	1006	1249	1735	N.R.	389
12'-8"	11'-4"	(2) #3	(2) #5	479	467	684	900	1118	1552	N.R.	348
13'-4"	12'-0"	(2) #3	(2) #5	431	420	615	810	1006	1397	N.R.	313
14'-0"	12'-8"	(2) #3	(2) #5	388	380	557	733	910	1264	N.R.	283
14'-8"	13'-4"	(2) #4	(2) #6	432	346	506	667	827	1149	N.R.	447
15'-8"	14'-4"	(2) #4	(2) #6	353	302	442	582	723	1004	N.R.	357
17'-4"	16'-0"	(2) #4	(2) #6	258	246	380	474	588	817	N.R.	251
19'-4"	18'-0"	(2) #4	(2) #6	169	198	288	379	471	654	N.R.	169
20'-0"	18'-8"	(2) #5	(2) #6	181	183	269	354	439	610	N.R.	168
21'-4"	20'-0"	(2) #5	(2) #6	141	161	235	310	385	535	N.R.	131
22'-0"	20'-8"	(2) #5	(2) #6	126	151	221	291	362	503	N.R.	116
24'-0"	22'-8"	(2) #5	(2) #6	101	134	196	259	321	446	N.R.	80

N.R. = NOT RECOMMENDED



☐ SAMUEL A. GREENBERG, P.E. #34245
☐ IRVIN J. BENSON, P.E. #49158
☒ THUY H. HUYNH, P.E. #60122

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CA 29549

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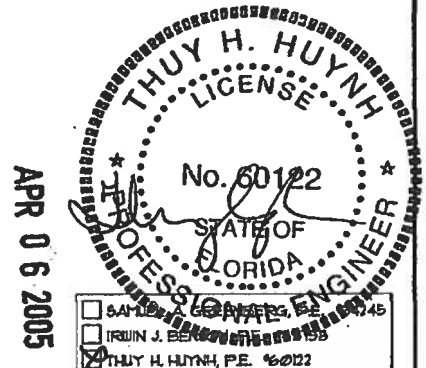
8" LINTEL SAFE UPLIFT LOADS

REV:	DATE: 03/04/05
CEMENT PRECAST PRODUCTS INC.	DWG: F.M.
DE # 24-4547	SCALE: N.T.S.
	SKB



Cement Precast Products, Inc.
 2033 N.E. 27th Avenue Gainesville, FL 32609 • (352) 372-0953 • Fax (352) 378-4611
 www.cementprecast.com

LINTEL		8" RECESS LINTEL SAFE GRAVITY LOADS (PLF)				
TOTAL LENGTH	CLEAR SPAN	TOP REINF.	BOTTOM REINF.	8/6-S-(0)L	8/10-S-(0)L	8/14-S-(0)L
3'-6"	2'-2"	None	(2) #3	1530	4400	6931
4'-0"	2'-8"	None	(2) # 3	1250	3351	5155
4'-4"	3'-0"	None	(2) # 3	1113	2851	4322
4'-6"	3'-2"	None	(2) # 3	1005	2624	3979
4'-8"	3'-4"	None	(2) # 3	1003	2422	3674
5'-8"	4'-4"	None	(2) # 3	764	1584	2406
6'-8"	5'-4"	(2) # 2	(2) # 4	652	1491	2401
7'-8"	6'-4"	(2) # 3	(2) # 4	546	1225	1919



DE DANSO ENGINEERING, LLC
 P.O. BOX 3460 - APOLLO BEACH - FLORIDA - 33578
 PHONE - (833) 6-45 6164 FAX - (833) 6-45 5458
 CA 25046

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8" RECESS LINTEL SAFE GRAVITY LOADS	
REV.	DATE: 03/04/05
CEMENT PRECAST PRODUCTS INC.	DWG: E.M.
DEF 24-4547	SCALE: N.T.S.
	SKS



Cement Precast Products, Inc.
2033 N.E. 27th Avenue Gainesville, FL 32609 • (352) 372-0953 • Fax: (352) 378-4611
www.cementprecast.com

LINTEL		8" RECESS LINTEL SAFE UPLIFT LOADS (PLF)					
TOTAL LENGTH	CLEAR SPAN	TOP REINF.	BOTTOM REINF.	8/6-S-(1)U 8/6-S-(2)U	8/10-S-(1)U 8/10-S-(2)U	8/14-S-(1)U 8/14-S-(2)U	
3'-6"	2'-2"	None	(2) #3	2571	3966	8716	
4'-0"	2'-8"	None	(2) #3	2063	3063	6237	
4'-4"	3'-0"	None	(2) #3	1823	2660	5122	
4'-6"	3'-2"	None	(2) #3	1723	2496	4701	
4'-8"	3'-4"	None	(2) #3	1633	2350	4345	
5'-8"	4'-4"	None	(2) #3	1244	1742	2986	
6'-8"	5'-4"	(2) #2	(2) #4	1005	1358	2179	
7'-8"	6'-4"	(2) #3	(2) #4	708	1013	1625	

THUY H. HUYNH
LICENSE
No. 00122
STATE OF
FLORIDA
Professional Engineer
ARR-109-2005
☐ GARY E. GREENBERG, P.E. 00245
☐ DEWUN J. JOHNSON, P.E. 00245
☒ THUY H. HUYNH, P.E. 00122

DE D'ANSCO
ENGINEERING, LLC
P.O. BOX 3460 • APOLLO BEACH • FLORIDA • 33570
PHONE • (813) 645-6766 FAX • (813) 645-6688
CA 23940

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8" RECESS LINTEL SAFE UPLIFT LOADS

REV:	DATE: 03/04/05
CEMENT PRECAST PRODUCTS INC.	DWG: E.M.
DE# 24-4547	SCALE: N.T.S.
	SK10

UNIVERSAL

ENGINEERING SCIENCES

**Consultants In: Geotechnical Engineering •
Environmental Sciences • Construction Materials Testing**

4475 S.W. 35th Terrace • Gainesville, Florida 32608 • (352) 372-3392

REPORT ON IN-PLACE DENSITY TESTS

256/0

CLIENT: Homes by House Craft

PROJECT: SWAYZE Residence
152 S.W. Atlas Dr. Fort White

AREA TESTED: Fill & prop

COURSE: ENG

DEPTH OF TEST: 0-1

TYPE OF TEST: ASTM D-2922

DATE TESTED: 3-13-07

NOTE: The below tests ~~DO~~ ~~DO NOT~~ meet the minimum 95 % compaction requirements of maximum density.

REMARKS:

[illegible]

TECH. 5.1

TURNER PEST CONTROL, LLC
480 EDGEWOOD AVE S
JACKSONVILLE, FL 32205
PHONE (904) 355-5300 FAX (904) 353-1488

25610

CERTIFICATE OF COMPLIANCE FOR TERMITE PROTECTION
(AS REQUIRED BY FLORIDA BUILDING CODE SECTION 1816.7)

PROPERTY ADDRESS: 152 SW ATLAS DRIVE
PROPERTY NAME: MICHAEL SWAYZE
CITY, STATE: FORT WHITE, FLORIDA
PERMIT: 000025610
BUILDER: HOMES BY HOUSECRAFT
DATE OF APPLICATION: JUNE 21, 2007

METHOD OF TERMITE PREVENTION TREATMENT: FINAL
(SOIL BARRIER, WOOD TREATMENT, BAIT SYSTEM, OTHER)

THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE
PREVENTION OF SUBTERRANEAN TERMITES BY TURNER PEST CONTROL LLC.

TREATMENT PERFORMED BY TURNER PEST CONTROL LLC IS IN ACCORDANCE
WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF
AGRICULTURE AND CONSUMER SERVICES.



AUTHORIZED SIGNATURE
CERTIFIED OPERATOR

JUNE 21, 2007
DATE

COLUMBIA COUNTY OFFICIAL 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 19-7S-17-10024-085

Building permit No. 000025610

Use Classification SFD, UTILITY

Fire: 0.00

Permit Holder JOHN D. HARRINGTON

Waste:

Owner of Building MICHAEL SWAYZE

Total: 0.00

Location: 152 SW ATLAS DRIVE, FT. WHITE, FL

Date: 06/19/2007

Stacy Dicks

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)



What's Bugging You?

BUILDER Time Of House Craft

Treasure/Space Coast, FL
(772) 621-7905

Tampa, FL
(813) 681-6381

Main Office
480 S. Edgewood Ave.
Jacksonville, FL 32205-3775
Phone: (904) 355-5300
Fax: (904) 353-1488
Toll Free: (800) 225-5305

PRE-TREAT LABEL

PERMIT NUMBER 060025 turnerpest.com

LOT NO 152 BLOCK Sw Atlas Dr SECTION fast white. PL

ADDRESS 152 Sw Atlas Dr SUBDIVISION fast white. PL

TREATMENT AREA	DATE / TIME TREATED	CHEMICAL USED	%	GALLONS USED	EMPLOYEE #
PRE-TREAT SLAB / PORCH / ENTRY	<u>3/21/02</u>	<u>Permethrin</u>	<u>0.1</u>	<u>180</u>	<u>26</u>
WOOD TREATMENT					
INT STRUCT / EXT BAND					
WASTE ARMS / DRIVE / WALKS					
FINAL PERIMETER GRADE					

CIRCLE ONE: COMMERCIAL RESIDENTIAL TYPE OF SLAB: ERT FILL MONOLITHIC

	SQUARE FOOTAGE	LINEAR FOOTAGE	%	GALLONS USED
FIRST FLOOR / LIVING AREA	<u>2170</u>	<u>182</u>	<u>0.1</u>	<u>180</u>
GARAGE			<u>0.1</u>	
PATIO / PORCH / REAR				
FRONT ENTRY				
TOTAL TREATED	<u>2170</u>	<u>182</u>	<u>0.1</u>	<u>180</u>

TECH ph. B

Annual renewal due one (1) year from treatment date

HO-LBL-0002

BEARING HEIGHT SCHEDULE

8'-0"

OVERHANG
2'-0"
ROOF PITCH(S)
6/12

NOTES:

- 1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BEARING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT DRAWING REQUIRED.
- 2) ALL TD955S, INCLUDING TD955S, MUST BE VALLEY FRAMED MUST BE CORRECTLY DECIDED OR REFER TO DETAIL VMS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TD955S ARE DESIGNED FOR 2 o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON THIS ASSEMBLY PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5/42 TD955S MUST BE INSTALLED WITH THE TOP BEARING UP.
- 7) ALL ROOF TD955 HANGERS TO BE SHAWSON H202 UNLESS OTHERWISE NOTED. ALL H202 UNLESS OTHERWISE NOTED. ALL TH4422 UNLESS OTHERWISE NOTED.
- 8) BEARING ADJUSTMENT (BDA) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TD955S AND VMS. ALL PERIODS ARCHITECTURAL OR OTHER TD955 LAYOUTS, EXCEPT APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TD955S WILL BE BUILT. VERIFY ALL CONDITIONS TO BEING AGAINST CHANGES THAT WILL RESULT IN EXCESSIVE RISKS TO YOU.

Approved By: _____ Date: _____



PHONE: 904-437-3349 FAX: 904-437-3994
Bunnell
Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973
Lake City
PHONE: 904-795-6894 FAX: 904-795-7973
Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER:

HOMES BY HOUSE CRAFT

LEGAL ADDRESS:

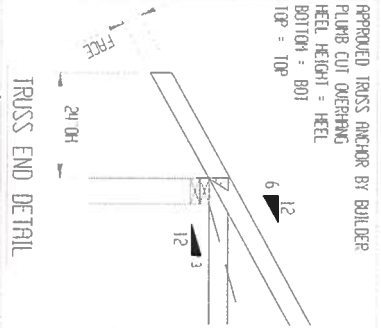
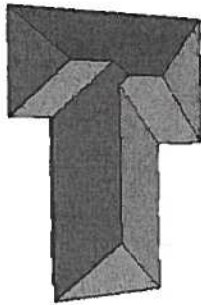
ALACHUA, FL

MODEL:

GULF

DATE:

02/06/07 A MONDRAGON



HANGER SCHEDULE

TRUSS HANGER INFORMATION	
Check TD955 ENGINEERING for gravity and uplift values, if the value exceeds the capacity of a hanger.	
(18)HTU26	

