

DATE 08/10/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000024849

APPLICANT CHIP MILLER PHONE 386.755.9816
ADDRESS 321 NW COLE TERRACE LAKE CITY FL 32055
OWNER LOUIS & SANDRA MUNOZ PHONE 404.964.6087
ADDRESS 316 SW MARIA MARIE GLEN LAKE CITY FL 32024
CONTRACTOR EBE WALTER-PENNYWORTH HOMES PHONE 800.879.1799
LOCATION OF PROPERTY SR-247-S TO C-240,TL TO PINE RIDGE,TL GO 1/2 MILE TL ON DIRT RD.,GO 1/4 MILE AND THE JOB SITE IS ON THE L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 74800.00
HEATED FLOOR AREA 1496.00 TOTAL AREA 2028.00 HEIGHT 20.00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC
LAND USE & ZONING A-3 MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 12-SS-15-00447-304 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 1.00

000001181 CRC058477
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
WAIVER 06-0609-N BLK JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: SECTION 14.9. SPECIAL FAMILY LOT PERMIT TO SISTER.1 FOOT ABOVE ROAD. 2006 PROPOSED 3 FROM PA OFFICE.

Check # or Cash 1516

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 \$ 375.00 CERTIFICATION FEE \$ 10.14 SURCHARGE FEE \$ 10.14
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 470.28
INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

This Instrument Prepared by & return to:
Name: LOUIS ALBELTO MUNOZ
Address: 6192 BIGELOW DR.
RIVERDALE, GA. 30296

Parcel I.D. #: 00447-202

Inst: 2006014254 Date: 06/13/2006 Time: 11:15

Loc Stamp-Deed : 0.70

DC, P. DeWitt Cason, Columbia County B: 1086 P: 1676

SPACE ABOVE THIS LINE FOR PROCESSING DATA

THIS CORRECTIVE DEED Made the 13TH day Of JUNE, 2006 A.D., by ANTHONY MIKULIC and CARMEN MIKULIC, HIS WIFE, hereinafter called the grantors, to LOUIS ALBELTO MUNOZ and SANDRA KAY MUNOZ, HIS WIFE, whose post office address is 6192 BIGELOW DR., RIVERDALE, GA 30296, hereinafter called the grantees:

(Wherever used herein the terms "grantors" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: That the grantors, for and in consideration of the sum of \$10.00 and other valuable consideration, receipt whereof is hereby acknowledged, do hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantees all that certain land situate in Columbia County, State of FLORIDA, viz:

PARCEL 1

PART OF THE SOUTHWEST ¼ OF SECTION 12, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 12, AND RUN ALONG THE WEST LINE OF SAID SECTION 12, NORTH 0°08'02" WEST, A DISTANCE OF 1230.33 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 0°08'02" WEST ALONG SAID WEST LINE, A DISTANCE OF 349.31 FEET; THENCE RUN NORTH 89°10'48" EAST, A DISTANCE OF 374.14 FEET THENCE RUN SOUTH 0°08'02" EAST, A DISTANCE OF 349.31 FEET; THENCE RUN SOUTH 89°10'48" WEST, A DISTANCE OF 374.14 FEET TO THE POINT OF BEGINNING.

CONTAINING :3.00 ACRES MORE OR LESS.

ALSO BEING KNOWN AS PART OF LOT 2, PINE RIDGE ACRES, AN UNRECORDED SUBDIVISION. TOGETHER WITH A 30.00 FOOT EASEMENT FOR INGRESS AND EGRESS AND UTILITIES AS HERON DESCRIBED.

30.00 FOOT EASEMENT FOR INGRESS AND EGRESS AND UTILITIES

A 30.00 FOOT EASEMENT FOR INGRESS AND EGRESS AND UTILITIES LYING 30.00 FEET SOUTHERLY OF AND PARALLEL TO THE FOLLOWING DESCRIBED LINE : PART OF THE SOUTHWEST ¼ OF SECTION 12, TOWNSHIP 5 SOUTH, RANGE 15 EAST COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 12, AND RUN ALONG THE WEST LINE OF SAID SECTION 12, NORTH 0°08'02" WEST, A DISTANCE OF 1230.33 FEET; THENCE CONTINUE NORTH 0°08'02" WEST ALONG SAID WEST LINE, A DISTANCE OF 349.31 FEET; THENCE RUN NORTH 89°10'48" EAST, A DISTANCE OF 374.14 FEET TO THE POINT OF BEGINNING OF HEREIN DESCRIBED LINE; THENCE CONTINUE NORTH 89°10'48" EAST, A DISTANCE OF 922.75 FEET TO THE WEST RIGHT-OF-WAY LINE OF PINE RIDGE LANE (A 60 FOOT ROAD) AND THE TERMINUS OF SAID LINE.

THIS IS A CORRECTIVE DEED GIVEN TO CORRECT THE LEGAL DESCRIPTION OF WARRANTY DEED IN OR BOOK 1066 PAGE 991.

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

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

And the grantors hereby covenant with said grantees that they are lawfully seized of said land in fee simple; that they have good right and lawful authority to sell and convey said land, and hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2006.

In Witness Whereof, the said grantors have signed and sealed these presents, the day and year first above written.

Signed, sealed and delivered in the presence of:

Witness Signature

Brenda Styons

Printed Name

Witness Signature

Printed Name

ANTHONY MIKULIC

Address:

364 SW PINE RIDGE CT., LAKE CITY, FL 32024

CARMEN MIKULIC

Address:

364 SW PINE RIDGE CT., LAKE CITY, FL 32024

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 13TH day Of JUNE, 2006, by ANTHONY MIKULIC and CARMEN MIKULIC, who are known to me or who have produced drivers license as identification.

Notary Public

My commission expires



BRENDA STYONS
MY COMMISSION # DD 287986
EXPIRES: February 5, 2008
Bonded thru Budget Notary Services

nst:2006014254 Date:06/13/2006 Time:11:15

loc Stamp-Deed : 0.70

DC,P.DeWitt Cason,Columbia County B:1086 P:1677

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0608-03 Date Received 8-1-06 By LH Permit # 1181-24849
 Application Approved by - Zoning Official BLK Date 10-08-06 Plans Examiner OK JHT Date 8-2-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Section 14.9 Special Family Lot Permit to Sister
(OK# 106-)

Applicants Name C. H. P. Miller Phone 755-486 (9816)
 Address 321 N.W. Cole Terrace LAKE CITY FLORIDA 32055
 Owners Name Levi's and Sandra Munoz Phone 404-964-6087
 911 Address 316 S.W. MARIA MARIE LAKE CITY FLORIDA 32024
 Contractors Name Pennyworth Homes Phone 800-879-1799 (ext 201)
 Address 679 Blackshear Rd Thomasville GA 31792
 Fee Simple Owner Name & Address same as owner
 Bonding Co. Name & Address Fidelity Bonding Company of Maryland, Baltimore Maryland
 Architect/Engineer Name & Address Builders First Service 6550 Roosevelt Blvd Jacksonville FL
 Mortgage Lenders Name & Address Countrywide Mortgage

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 12-58-15-00447-2040 Estimated Cost of Construction 110.00

Subdivision Name Pine Ridge Acres (Parent Tract 00447-202) Lot 1B Block Unit Phase Unit

Driving Directions From Pennyworth office take left on Hwy 90 go to first light turn Rt on Hwy 297
Go 10 1/10 m turn left on Hwy 290. Go 1 1/2 m turn left on Pine Ridge Rd Go 1/2 m & turn left on
dist dr. to 1/4 m to go on left Note 2 houses past Building on this Drive make sure you have right one.
Look for name

Type of Construction New Construction of SFD Number of Existing Dwellings on Property 0

Total Acreage 1 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 165' Side 29' Side 29' Rear 141'

Total Building Height 20' Number of Stories 1 Heated Floor Area 1496 Roof Pitch 12/6
Porch 132 GARAGE 400 TOTAL 2028

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

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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF Leon

Sworn to (or affirmed) and subscribed before me
 this 31st day of July 20 06.

Personally known ✓ or Produced Identification _____

Contractor Signature
 Contractors License Number CA050477
 Competency Card Number _____
 NOTARY STAMP/SEAL

Susan G. Kitchens

Notary Signature Susan G. Kitchens
 MY COMMISSION # DD194171 EXPIRES
 June 29, 2007
 BONDED THRU TROY FAIR INSURANCE, INC.

3

00447-204

10.40 Ac

124.71' 124.71' 124.71' 124.71'

447-303

447-302

447-304

349.31'

447-402

00447-202

6.40 Ac

1

00447-201

10.40 Ac

447-115

1610'

1 447-101

125' 447-111 175'

4.51 Ac

2 447-102

5.01 Ac

3 447-103

5.01 Ac

4 THE 447-104

5.01 Ac

5 CRC UNIT 447-105

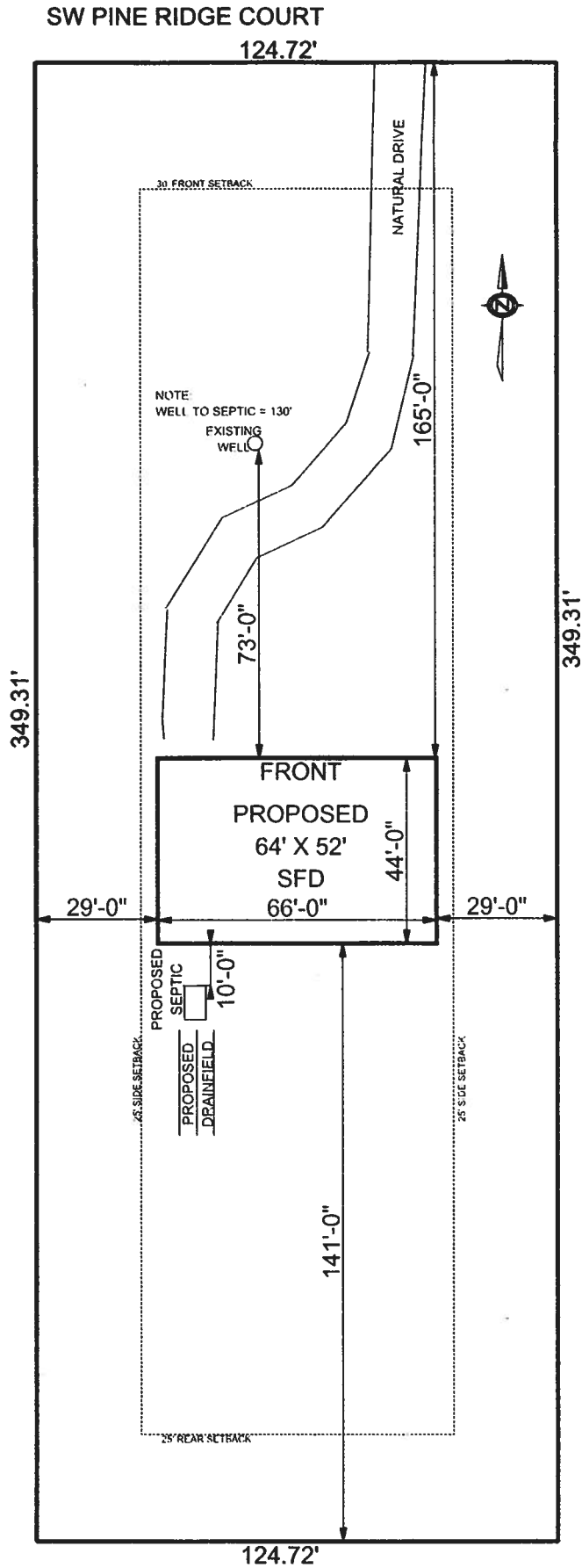
4.51 Ac

1 12

1" = 200'

*Proposed
5/10/06*

PROPOSED PLOT PLAN FOR:
LOUIS MUNOZ
XXX SW PINE RIDGE COURT
LAKE CITY, FL. 32024
COLUMBIA COUNTY
3 BEDRM / 2 BATH 1628 SQ FT
SUBMITTED BY: ~~2~~ PENNYWORTH HOMES INC.
SCALE: 1" = 40'0" DATE: 5/9/06



COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 7/25/2006 DATE ISSUED: 7/31/2006

ENHANCED 9-1-1 ADDRESS:

316 SW MARIA MARIE GLN

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

12-5S-15-00447-202

Remarks:

(PARENT PARCEL)

Address Issued By: 

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

353

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

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:
KATINA HURST
COUNTRYWIDE HOME LOANS, INC.

6400 LEGACY DR
PLANO, TX 75024

Inst:2006016539 Date:07/12/2006 Time:15:18
S. J. DC, P. DeWitt Cason, Columbia County B:1089 P:1261

[Space Above This Line For Recording Data]

137442837
[Loan #]

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

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

Parcel ID Number: 12-53-15-00447-202

2. General description of improvement: Residential Construction
3. Owner information: Louis and Sandra Munoz
 - a. Name and address: _____
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple titleholder (if other than owner): _____

[Signature]
[Signature]



LOAN #: 137442837

4. Contractor:
- a. Name and address:
PENNYWORTH HOMES INC
GA
 - b. Phone number:
 - c. Fax number (optional, if service by fax is acceptable):
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:

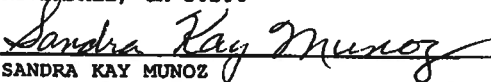
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Inst:2006016539 Date:07/12/2006 Time:15:18

DC,P.DeWitt Cason,Columbia County B:1089 P:1263

LOAN #: 137442837


LOUIS ALBERTO MUNOZ (Seal)
6192 BIGELOW DR - Borrower
RIVERDALE, GA 30296


SANDRA KAY MUNOZ (Seal)
6192 BIGELOW DR - Borrower
RIVERDALE, GA 30296

(Seal)
- Borrower

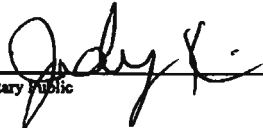
(Seal)
- Borrower

Georgia
STATE OF FLORIDA,

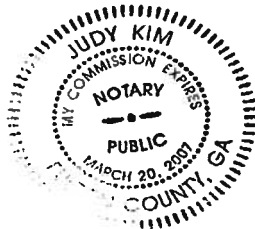
County ss: *Wayton*

The foregoing instrument was acknowledged before me this *July 6, 2006* by
Louis Alberto Munoz and Sandra Kay Munoz

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



Notary Public



Inst:2006016539 Date:07/12/2006 Time:15:18

DC,P.DeWitt Cason,Columbia County B:1089 P:1264

EXHIBIT "A"

PARCEL 1B

PART OF THE SOUTHWEST 1/4 OF SECTION 12, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 12, AND RUN ALONG THE WEST LINE OF SAID SECTION 12, NORTH 0°08'02" WEST, A DISTANCE OF 1230.33 FEET; THENCE RUN NORTH 89°10'48" EAST, A DISTANCE OF 124.71 FEET TO THE POINT OF BEGINNING; THENCE RUN NORTH 0°08'02" WEST, A DISTANCE OF 349.31 FEET; THENCE RUN NORTH 89°10'48" EAST, A DISTANCE OF 124.72 FEET; THENCE RUN SOUTH 0°08'02" EAST, A DISTANCE OF 349.31 FEET; THENCE RUN SOUTH 89°10'48" WEST, A DISTANCE OF 124.72 FEET TO THE POINT OF BEGINNING.

CONTAINING 1.00 ACRES MORE OR LESS. ALSO BEING KNOWN AS PART OF LOT 2, PINE RIDGE ACRES, AN UNRECORDED SUBDIVISION.

TOGETHER WITH:

A 30.00 FOOT EASEMENT FOR INGRESS AND EGRESS AND UTILITIES LYING 30.00 FEET SOUTHERLY OF AND PARALLEL TO THE FOLLOWING DESCRIBED LINE:

PART OF THE SOUTHWEST 1/4 OF SECTION 12, TOWNSHIP 5 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

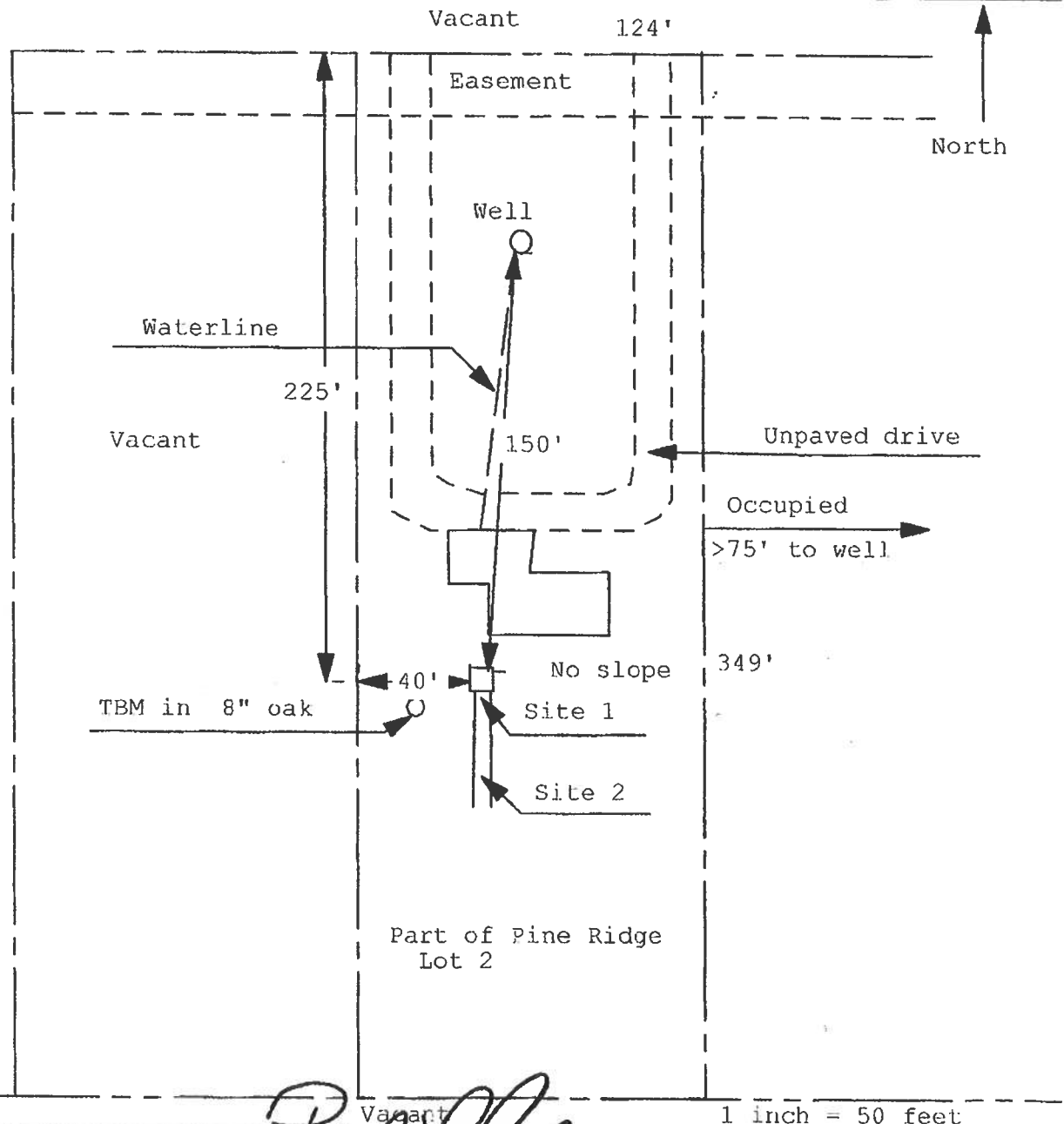
FOR POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 12, AND RUN ALONG THE WEST LINE OF SAID SECTION 12, NORTH 0°08'02" WEST, A DISTANCE OF 1230.33 FEET; THENCE CONTINUE NORTH 0°08'02" WEST ALONG SAID WEST LINE, A DISTANCE OF 349.31 FEET; THENCE RUN NORTH 89°10'48" EAST, A DISTANCE OF 124.71 FEET TO THE POINT OF BEGINNING OF HEREIN DESCRIBED LINE; THENCE CONTINUE NORTH 89°10'48" EAST, A DISTANCE OF 1172.18 FEET TO THE WEST RIGHT-OF-WAY LINE OF PINE RIDGE LANE (A 50 FOOT ROAD) AND THE TERMINUS OF SAID LINE.

FOR INFORMATIONAL PURPOSES ONLY: THE APN IS SHOWN BY THE COUNTY ASSESSOR AS: 12-58-15-00447-202; SOURCE OF TITLE: BOOK 1066 PAGE 991, RECORDED 11/29/2005.

Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan
Permit Application Number: 01e-0609N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MUNOZ/CR 05-3428



Site Plan Submitted By Paul Lopez

Date 4/17/06

Plan Approved X Not Approved

Date 7/13/06

By Paul Lopez

APPROVED

Columbia CHD

CPHU

Notes:

FORM 600A-2004

EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Pennyworth Homes Munoz Granbury Model	Builder:	Pennyworth Homes
Address:	SW Pine Ridge	Permitting Office:	Columbia -
City, State:	Lake City, FL 32024-	Permit Number:	24849
Owner:	Louis Munoz	Jurisdiction Number:	22000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 28.3 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1496 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 28.3 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default)	128.0 ft²		HSPF: 8.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	128.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 244.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Adjacent	R=13.0, 138.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Exterior	R=13.0, 1195.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1496.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 105.0 ft		
b. N/A			

Glass/Floor Area: 0.09

Total as-built points: 18995

Total base points: 23616

PASS

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

PREPARED BY: ANNE C. RAISNERDATE: 7/6/06

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

OWNER/AGENT: Steven PinedaDATE: 7/31/06

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

BUILDING OFFICIAL: _____

DATE: _____



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

FORM 600A-2004

EnergyGauge® 4.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: SW Pine Ridge, Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1496.0	20.04	5396.4	Double, Clear	N	8.5	1.0	8.0	19.20	0.59	91.1
				Double, Clear	N	0.0	0.0	30.0	19.20	1.00	576.0
				Double, Clear	S	0.0	0.0	63.0	35.87	1.00	2259.6
				Double, Clear	W	0.0	0.0	27.0	38.52	1.00	1040.1
				As-Built Total:				128.0	3966.8		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	138.0	0.70	96.6	Frame, Wood, Adjacent	13.0		138.0	0.60	82.8		
Exterior	1195.0	1.70	2031.5	Frame, Wood, Exterior	13.0		1195.0	1.50	1792.5		
Base Total:	1333.0		2128.1	As-Built Total:			1333.0		1875.3		
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	21.0	2.40	50.4	Adjacent Wood			21.0	2.40	50.4		
Exterior	57.0	6.10	347.7	Exterior Insulated			57.0	4.10	233.7		
Base Total:	78.0		398.1	As-Built Total:			78.0		284.1		
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1496.0	1.73	2588.1	Under Attic	30.0		1496.0	1.73 X 1.00	2588.1		
Base Total:	1496.0		2588.1	As-Built Total:			1496.0		2588.1		
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	244.0(p)	-37.0	-9028.0	Slab-On-Grade Edge Insulation	0.0		244.0(p)	-41.20	-10052.8		
Raised	0.0	0.00	0.0								
Base Total:			-9028.0	As-Built Total:			244.0		-10052.8		
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1496.0	10.21	15274.2	1496.0 10.21 15274.2							

FORM 600A-2004

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SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: SW Pine Ridge, Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 16756.8				Summer As-Built Points: 13935.7						
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
16756.8	0.4266		7148.5	(sys 1: Central Unit 28300 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Con(R),Int(AH),R6.0(INS) 13936 1.00 (1.08 x 1.147 x 0.91) 0.263 1.000 4128.1 13935.7 1.00 1.128 0.263 1.000 4128.1						

FORM 600A-2004

EnergyGauge® 4.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: SW Pine Ridge, Lake City, FL, 32024-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1496.0	12.74	3430.6	Double, Clear	N	8.5	1.0	8.0	24.58	1.03	202.0
				Double, Clear	N	0.0	0.0	30.0	24.58	1.00	737.3
				Double, Clear	S	0.0	0.0	63.0	13.30	1.00	837.6
				Double, Clear	W	0.0	0.0	27.0	20.73	1.00	559.7
				As-Built Total:				128.0	2336.6		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	138.0	3.60	496.8	Frame, Wood, Adjacent	13.0		138.0	3.30	455.4		
Exterior	1195.0	3.70	4421.5	Frame, Wood, Exterior	13.0		1195.0	3.40	4063.0		
Base Total:				As-Built Total:				1333.0	4518.4		
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	21.0	11.50	241.5	Adjacent Wood			21.0	11.50	241.5		
Exterior	57.0	12.30	701.1	Exterior Insulated			57.0	8.40	478.8		
Base Total:				As-Built Total:				78.0	720.3		
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1496.0	2.05	3066.8	Under Attic	30.0		1496.0	2.05 X 1.00	3066.8		
Base Total:				As-Built Total:				1496.0	3066.8		
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	244.0(p)	8.9	2171.6	Slab-On-Grade Edge Insulation	0.0		244.0(p)	18.80	4587.2		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				244.0	4587.2		
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1496.0 -0.59 -882.6				1496.0 -0.59 -882.6							

FORM 600A-2004

EnergyGauge® 4.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: SW Pine Ridge, Lake City, FL, 32024-

PERMIT #:

BASE			AS-BUILT						
Winter Base Points: 13647.3			Winter As-Built Points: 14346.6						
Total Winter Points	X System Multiplier	= Heating 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	= Heating Points	
13647.3	0.6274	8562.3	(sys 1: Electric Heat Pump 28300 btuh , EFF(8.0) Ducts:Unc(S), Con(R), Int(AH), R6.0 14346.6	1.000	(1.060 x 1.169 x 0.93)	0.426	1.000	7047.2	
			14346.6	1.00	1.152	0.426	1.000	7047.2	

FORM 600A-2004

EnergyGauge® 4.0

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: SW Pine Ridge, Lake City, FL, 32024-

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	50.0	0.93	3		1.00	2606.67 1.00 7820.0
				As-Built Total:					
				7820.0					

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	= Total Points	Cooling Points	+	Heating Points	= Total Points
7148		8562	7905 23616	4128		7047	7820 18995

PASS



FORM 600A-2004

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Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: SW Pine Ridge, Lake City, FL, 32024-

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.	N/A
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%.	N/A
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.	✓

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.9

The higher the score, the more efficient the home.

Louis Munoz, SW Pine Ridge, Lake City, FL, 32024-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 28.3 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1496 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: 28.3 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 128.0 ft ²			HSPF: 8.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 128.0 ft ²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 244.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Adjacent	R=13.0, 138.0 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Exterior	R=13.0, 1195.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1496.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 105.0 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: [Signature]

Date: 7/31/06

Address of New Home: SW Pine Ridge

City/FL Zip: Lake City 32024



*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

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

Trane Air Conditioning Economics
By: BLUE HERON CONSULTING

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*****  
**  
**          T R A C E    6 0 0    A N A L Y S I S          **  
**  
**          by BLUE HERON CONSULTING                      **  
**  
*****
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PENNYWORTH HOMES MUNOZ
LAKE CITY, FL

Weather File Code: GAINSVIL
Location:
Latitude: 29.0 (deg)
Longitude: 82.0 (deg)
Time Zone: 5
Elevation: 155 (ft)
Barometric Pressure: 29.7 (in. Hg)

Summer Clearness Number: 0.95
Winter Clearness Number: 0.95
Summer Design Dry Bulb: 93 (F)
Summer Design Wet Bulb: 77 (F)
Winter Design Dry Bulb: 31 (F)
Summer Ground Reflectance: 0.20
Winter Ground Reflectance: 0.20

Air Density: 0.0756 (Lbm/cuft)
Air Specific Heat: 0.2444 (Btu/lbm/F)
Density-Specific Heat Prod: 1.1087 (Btu-min./hr/cuft/F)
Latent Heat Factor: 4,880.3 (Btu-min./hr/cuft)
Enthalpy Factor: 4.5356 (Lb-min./hr/cuft)

Design Simulation Period: June To November
System Simulation Period: January To December
Cooling Load Methodology: TETD/Time Averaging

Time/Date Program was Run: 22:41:31 7/ 6/ 6
Dataset Name: PWHMUNOZ .TM

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AIRFLOW - ALTERNATIVE 1

----- S Y S T E M S U M M A R Y -----
(Design Airflow Quantities)

System Number	System Type	Outside Airflow (Cfm)	Cooling Airflow (Cfm)	Main Heating Airflow (Cfm)	Return Airflow (Cfm)	Exhaust Airflow (Cfm)	Auxil. Supply Airflow (Cfm)	Room Exhaust Airflow (Cfm)
1 SZ		80	1,114	1,114	1,114	80	0	0
Totals		80	1,114	1,114	1,114	80	0	0

CAPACITY - ALTERNATIVE 1

----- S Y S T E M S U M M A R Y -----
(Design Capacity Quantities)

System Number	System Type	Cooling				Heating						
		Main Sys. Capacity (Tons)	Aux. Sys. Capacity (Tons)	Opt. Vent Capacity (Tons)	Cooling Totals (Tons)	Main Sys. Capacity (Btuh)	Aux. Sys. Capacity (Btuh)	Preheat Capacity (Btuh)	Reheat Capacity (Btuh)	Humidif. Capacity (Btuh)	Opt. Vent Capacity (Btuh)	Heating Totals (Btuh)
1 SZ		2.4	0.0	0.0	2.4	-18,497	0	0	0	0	0	-18,497
Totals		2.4	0.0	0.0	2.4	-18,497	0	0	0	0	0	-18,497

The building peaked at hour 15 month 9 with a capacity of 2.4 tons

ENGINEERING CHECKS - ALTERNATIVE 1

----- E N G I N E E R I N G C H E C K S -----

System Number	Main/ Auxiliary	System Type	Percent Outside Air	Cooling				Heating		Floor Area Sq Ft
				Cfm/ Sq Ft	Cfm/ Ton	Sq Ft /Ton	Btuh/ Sq Ft	Cfm/ Sq Ft	Btuh/ Sq Ft	
1	Main	SZ	7.18	0.74	472.7	635.1	18.89	0.74	-12.36	1,496

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SYSTEM CHECKSUMS System 1 Peak SZ - SINGLE ZONE SYSTEM

***** COOLING COIL PEAK ***** CLG SPACE PEAK ***** HEATING COIL PEAK *****
Peaked at Time ==> Mo/Hr: 9/15 * Mo/Hr: 9/15 * Mo/Hr: 13/ 1
Outside Air ==> OADB/WB/HR: 93/ 75/105.0 * OADB: 93 * OADB: 31

	Space Sens.+Lat. (Btuh)	Ret. Air Sensible (Btuh)	Ret. Air Latent (Btuh)	Net Total (Btuh)	Percnt Of Tot (%)	Space Sensible (Btuh)	Percnt Of Tot (%)	Space Peak Space Sens (Btuh)	Coil Peak Tot Sens (Btuh)	Percnt Of Tot (%)
Envelope Loads										
Skylite Solr	0	0		0	0.00	0	0.00	0	0	0.00
Skylite Cond	0	0		0	0.00	0	0.00	0	0	0.00
Roof Cond	5,640	0		5,640	19.95	5,640	23.43	-3,067	-3,067	16.58
Glass Solar	12,288	0		12,288	43.47	12,288	51.04	0	0	0.00
Glass Cond	1,498	0		1,498	5.30	1,498	6.22	-3,686	-3,686	19.93
Wall Cond	4,375	0		4,375	15.48	4,375	18.17	-4,251	-4,251	22.98
Partition	274			274	0.97	274	1.14	-389	-389	2.10
Exposed Floor	0			0	0.00	0	0.00	-3,469	-3,469	18.75
Infiltration	0			0	0.00	0	0.00	0	0	0.00
Sub Total==>	24,074	0		24,074	85.17	24,074	100.00	-14,861	-14,861	80.34
Internal Loads										
Lights	0	0		0	0.00	0	0.00	0	0	0.00
People	0			0	0.00	0	0.00	0	0	0.00
Misc	0	0	0	0	0.00	0	0.00	0	0	0.00
Sub Total==>	0	0	0	0	0.00	0	0.00	0	0	0.00
Ceiling Load	0	0		0	0.00	0	0.00	0	0	0.00
Outside Air	0	0	0	3,796	13.43	0	0.00	0	-3,636	19.66
Sup. Fan Heat				396	1.40		0.00		0	0.00
Ret. Fan Heat		0		0	0.00		0.00		0	0.00
Duct Heat Pkup		0		0	0.00		0.00		0	0.00
OV/UNDR Sizing	0			0	0.00	0	0.00	0	0	0.00
Exhaust Heat		0	0	0	0.00		0.00	0	0	0.00
Terminal Bypass		0	0	0	0.00		0.00	0	0	0.00
Grand Total==>	24,074	0	0	28,267	100.00	24,074	100.00	-14,861	-18,497	100.00

-----COOLING COIL SELECTION-----

	Total Capacity (Tons)	Sens Cap. (Mbh)	Coil Airfl (cfm)	Entering DB/WB/HR Deg F Deg F Grains	Leaving DB/WB/HR Deg F Deg F Grains	AREAS Gross Total Floor	Glass (sf)	(%)
Main Clg	2.4	28.3	1,114	76.3 63.5 67.8	55.2 54.4 62.5	1,496		
Aux Clg	0.0	0.0	0	0.0 0.0 0.0	0.0 0.0 0.0	160		
Opt Vent	0.0	0.0	0	0.0 0.0 0.0	0.0 0.0 0.0	180		
Totals	2.4	28.3				1,496	0	0
						1,280	128	10

-----HEATING COIL SELECTION-----

	Capacity (Mbh)	Coil Airfl (cfm)	Ent Deg F	Lvg Deg F	Type	COOLING Cooling	HEATING Heating	ENGINEERING CHECKS-- Clg % OA	TEMPERATURES (F)--- Type Clg Htg
Main Htg	-18.5	1,114	69.1	84.0	Vent	80	80	7.2	SADB 55.5 84.0
Aux Htg	0.0	0	0.0	0.0	Infil	0	0	0.74	Plenum 75.0 72.0
Preheat	-0.0	1,114	69.1	55.2	Supply	1,114	1,114	472.74	Return 75.0 72.0
Reheat	0.0	0	0.0	0.0	Mincfm	0	0	635.10	Ret/OA 76.3 69.1
Humidif	0.0	0	0.0	0.0	Return	1,114	1,114	18.89	Runarnd 75.0 72.0
Opt Vent	0.0	0	0.0	0.0	Exhaust	80	80	0	Fn MtrTD 0.1 0.0
Total	-18.5				Rm Exh	0	0	7.2	Fn BldTD 0.1 0.0
					Auxil	0	0	0.74	Fn Frict 0.2 0.0
								-12.36	

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By: BLUE HERON CONSULTING

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MAIN SYSTEM COOLING - ALTERNATIVE 1

PEAK COOLING LOADS															
(Main System)															
Room Number	Description	Peak Time Mo/Hr	Space					Peak Time Mo/Hr	Coil						
			OA Cond. DB/WB (F)	Rm Dry Bulb (F)	Supp. Dry Bulb (F)	Space Air Flow (Cfm)	Sens. Load (Btuh)		OA Cond. DB/WB (F)	Rm Dry Bulb (F)	Supp. Dry Bulb (F)	Coil Air Flow (Cfm)	Coil Sens. Load (Btuh)	Coil Lat. Load (Btuh)	
100	GRANBURY PLAN	9/15	93 75	75	55.5	1,114	24,074	0	9/15	93 75	75	55.5	1,114	26,031	2,235
Zone	1 Total/Ave.		93 75	75	55.5	1,114	24,074	0		93 75	75	55.5	1,114	26,031	2,235
Zone	1 Block	9/15	93 75	75	55.5	1,114	24,074	0	9/15	93 75	75	55.5	1,114	26,031	2,235
System	1 Total/Ave.		93 75	75	55.5	1,114	24,074	0		93 75	75	55.5	1,114	26,031	2,235
System	1 Block	9/15	93 75	75	55.5	1,114	24,074	0	9/15	93 75	75	55.5	1,114	26,031	2,235

MAIN SYSTEM HEATING - ALTERNATIVE 1

PEAK HEATING LOADS																
(Main System)																
Room Number	Description	Floor Area (Sq Ft)	Peak Time Mo/Hr	Space					Peak Time Mo/Hr	Coil					Coil Flow (Cfm)	Coil Sens. Load (Btuh)
				OA Cond. DB/WB (F)	Rm Dry Bulb (F)	Supp. Dry Bulb (F)	Space Air Flow (Cfm)	Space Sens. Load (Btuh)		OA Cond. DB/WB (F)	Rm Dry Bulb (F)	Supp. Dry Bulb (F)	Coil Air Flow (Cfm)			
100	GRANBURY PLAN	1,496	13/ 1	31	27	72	84.0	1,114	-14,861	13/ 1	31	27	72	84.0	1,114	-18,497
Zone	1 Total/Ave.	1,496		31	27	72	84.0	1,114	-14,861		31	27	72	84.0	1,114	-18,497
Zone	1 Block	1,496	13/ 1	31	27	72	84.0	1,114	-14,861	13/ 1	31	27	72	84.0	1,114	-18,497
System	1 Total/Ave.	1,496		31	27	72	84.0	1,114	-14,861		31	27	72	84.0	1,114	-18,497
System	1 Block	1,496	13/ 1	31	27	72	84.0	1,114	-14,861	13/ 1	31	27	72	84.0	1,114	-18,497

LYNCH WELL DRILLING, INC.

173 SW Tustenuggee Ave

Lake City, FL. 32025

Phone 386-752-6677

Fax 386-752-1477

Building Permit # _____ Owner's Name Louise MunozWell Depth 100 Ft. Casing Depth 83 Ft. Water Level 49 Ft.Casing Size 4 inch Steel Pump Installation: Deep Well SubmersiblePump Make Houlihan Pump Model 18LS15412L HP 1 1/2System Pressure (PSI) _____ On 30 Off 50 Average Pressure 40Pumping System GPM at average pressure and pumping level 18 (GPM)Tank Installation: Bladder / Galvanized Make Challenger
Model PC244 Size 81Tank Draw-down per cycle at system pressure 25.1 gallons**I HEREBY VERIFY THAT THIS WATER WELL SYSTEM HAS BEEN
INSTALLED AS PER THE ABOVE INFORMATION.**Linda Newcomb
Signature2609
License NumberLinda Newcomb
Print Name7-10-06
Date
Well drilled
5-3-06

COLUMBIA COUNTY, FLORIDA

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 12-5S-15-00447-304

Building permit No. 000024849

Use Classification SFD/UTILITY

Fire: 39.06

Permit Holder EBE WALTER-PENNYWORTH HOMES

Waste: 117.25

Owner of Building LOUIS & SANDRA MUNOZ

Total: 156.31

Location: 316 SW MARIA MARIE GLEN

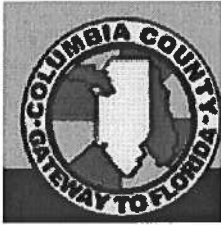
Date: 03/14/2007

Zary Dicko

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)





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

Reference to a building permit application Number: **0608-03**
Contractor Penny Worth Homes Owner Louis Munoz 12-5s-15-00447-304

On the date of August 2, 2006 application 0608-03 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0608-03 and when making reference to this application.

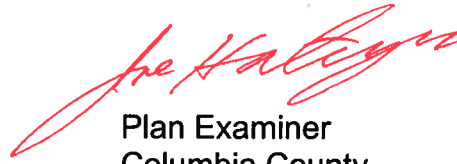
This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

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

1. The electrical plan shows the location of the electrical service entrance, please indicate on the electrical plan that an overcurrent protection (for the electrical panel) device will be installed on the exterior of structures to serve

as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Joe Haltiwanger

A handwritten signature in red ink, appearing to read "Joe Haltiwanger", is written over the printed name and title.

Plan Examiner
Columbia County

PRODUCT APPROVAL SPECIFICATION SHEET

Location: *SW PINE RIDGE COURT, LAKE CITY, FL, 32024*

Project Name: *LOUIS MUNOZ*

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Manufacturer	Category	Product Description	App#	Limits of use
Owens Corning	Roofing	Asphalt Shingles	FL85	Products must be install in accordance with Florida Building Code Non High Velocity Hurricane Zone Areas. All sections of the Florida Building Code that apply to all the counties except Dade and Broward must be followed.
Owens Corning	Panel Walls	Siding	FL920	1. Vinyl siding is limited to Type VI construction, as defined below. SECTION 608 - TYPE VI CONSTRUCTION Type VI is construction in which the exterior bearing and nonbearing walls and partitions, beams, girders, trusses, arches, floors, and roofs and their supports are wholly or partly of wood or other approved materials. Type VI construction may be either protected or unprotected. Fire resistance requirements for structural elements of Type VI construction shall be as specified in Table 600. 2. Owens Corning vinyl siding systems shall not be installed within the High Velocity Hurricane Zones of the Florida Building Code or on Educational Facilities within the State of Florida. 3. Compliance is valid only if the subject profile trade name is current on the VSI Vinyl Siding Certification Program, Certified Products List. The current list can be found at www.vinylsiding.org. 4. Limitations relating to wind load performance are provided in Appendix 1. A. Unless otherwise noted, fasteners for vinyl siding are limited to min. 1½" long x 0.125" shank diameter x minimum 3/8" head diameter galvanized roofing nails. B. Unless otherwise noted nails shall engage the stud framing members. C. Use of the wind load performance worksheets is limited to wall height less than or equal to 30 feet. For elevations exceeding this limitation, design pressures shall be determined in accordance with ASCE 7-98 on a project-specific basis for comparison to wind load resistance data in accordance with ASTM D 5206 and Annex A1 of D 3679. All

				calculations and analysis shall be completed by a Florida Registered Architect or Professional Engineer. D. Use of the wind load performance worksheets is limited to wall assemblies having either internal or external sheathing. For applications where siding is installed over open studding, the required test pressure shall be determined in accordance with ASCE 7-98 and Section A1.2.3 of ASTM D 3679. All calculations and analysis shall be completed by a Florida Registered Architect or Professional Engineer.
Owens Corning	Panel Walls	Sofit	FL2633	N / A
Owens Corning	Roofing	Cements-Adhesives	FL2276	Tested and approved for use on metal roofs, SBS modified bitumen membranes, built-up roofing and spay polyurethane foam. Not yet submitted to, nor approved by, Dade County for High Velocity Hurricane Zones (HVHZ).
Owens Corning	Roofing	Underlayment	FL1000	N / A
Atrium Window and Doors, NC	Windows	Single Hung	FL1030	(100 SH H-R25 35 X 72), (100 SH H-R25 44 X 60), (200 SH H-R30 48 X 78), (200 SH H-R35 36 X 74), (200 SHHP/OS H-R50 36 X 74), (200 SHHP/OS H-R35 48 X 84)
Silverline Windows	Windows	Single Hung	FL4065	, All Windows are to be Installed per Manufacturers Installation Drawings. Anchor Size, Type and Spacing are determined by the type of construction per Manufacturers Installation Drawings.
Therma-Tru Doors	Ext. Doors	Swinging	FL5268	All use of product is restricted to, and assembly and installation of product must conform to documentation published by Therma-Tru.
Hy-Lite Products.	Windows	Fixed	FL2025	600/800 98x98 F-C30/ 74x74 F-HC40 / 50x50 F-HC80/ 26x82 F-C80 625/825 74x74 F-C35/ 50x50 F-C80/ 26x82 F-C80 Low Profile Builders Series 77x77 F-HC40/ 52x52 F-HC70/ 31x87 F-C80 Glass Block Series Alum. 57x57 F-LC50/ Vinyl 57x57 F-LC80 Prestige Fixed Window 79x79 F-C35/ 55x55 F-C80/ 31x87 F-C80
Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (LU26)	FL474	N / A
Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (PHD2)	FL503	N / A
Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (H10)	FL474	N / A
Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (ABU66)	FL474	N / A

Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (SP1)	FL474	N / A
Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (SP2)	FL474	N / A
Simpson Strong-Tie Co.	Structural Components	Wood Connector Anchors (24" Flat Strap)	FL474	N / A
Trus Joist	Structural Components	Engineered Wood	FL1630	N / A
MiTek Industries Inc.	Structural Components	Truss Plates	FL2197	N / A
James Hardi Siding	Envelope Products	Cement Fiber Siding	FL889	N / A
Atlas Roofing Corp	Roofing	Roofing Felt	FL1996	N / A
Tyvek		House Wrap	FL2145	N / A
Overhead Door Corp.	Ext. Doors	Garage Door	FL674	N / A
Royal Siding	Panel Walls	Siding	FL976	All siding shall be installed in accordance with the manufacturer's published installation instructions and ASTM D4756 Practice for the installation of Rigid Poly(Vinyl Chloride)(PVC) Siding and Soffit. Siding shall be used only on buildings where combustible exterior walls are permitted.
Royal Siding	Panel Walls	Soffit	FL976	
Clopay	Ext. Doors	Garage Door	FL542	N / 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) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor or Contractor's Authorized Agent Signature



Print Name Jason Bishop

Date 7/26/06

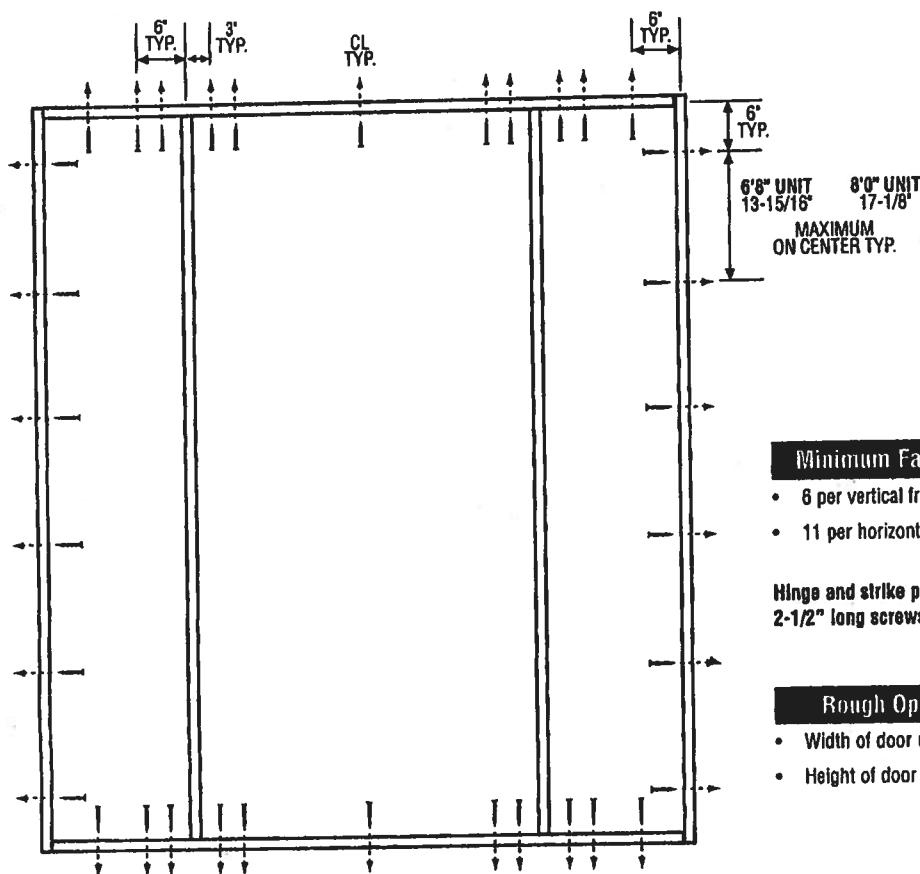
Site Pine Ridge Canal, Lake City FL 32024
Location

Permit # (FOR STAFF USE ONLY)

OXO
Unit

MID-WL-MA0004-02

SINGLE DOOR WITH 2 SIDELITES



Doors

Minimum Fastener Count

- 8 per vertical framing member
- 11 per horizontal framing member

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

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

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

FIBERGLASS DOORS

COP# (WL-)	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type ¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports ²	Ass'y Detail (MAD-WL-MA)	Instal Detail (MID-WL-MA)
MA0101-02	X	I	36 x 80	1	36 x 80	O	76.0	76.0	Y	NCTL 210-1973 1-3; CTLA-1051W	0001-02	0001-02
MA0102-02	XX	I	72 x 80	1,2	36 x 80	O	55.0	55.0	Y	CTLA-772W-2; CTLA-1051W	0002-02	0002-02
MA0103-02	XO/OX	I	50 x 80	1	36 x 80	O	55.0	55.0	Y	CTLA-772W-2; CTLA-1051W	0003/0006/0041-02	0003-02
MA0104-02	OXO	I	64 x 80	1	36 x 80	O	55.0	55.0	N	CTLA-772W-2; CTLA-1051W	0004/0007/0041-02	0004-02
MA0105-02	OXOX	I	100 x 80	1,2	36 x 80	O	55.0	55.0	N	CTLA-772W-2; CTLA-1051W	0005/0008/0041-02	0005-02
MA0106-02	X	I	36 x 96	1	36 x 96	O	70.0	70.0	Y	CTLA-772W; CTLA-1051W	0001-02	0001-02
MA0107-02	XX	I	72 x 96	1,2	36 x 96	O	55.0	55.0	Y	CTLA-772W-1; CTLA-1051W	0002-02	0002-02
MA0108-02	XO/OX	I	50 x 96	1	36 x 96	O	55.0	55.0	Y	CTLA-772W-1; CTLA-1051W	0003/0006/0041-02	0003-02
MA0109-02	OXO	I	64 x 96	1	36 x 96	O	55.0	55.0	N	CTLA-772W-1; CTLA-1051W	0004/0007/0041-02	0004-02
MA0110-02	OXOX	I	100 x 96	1,2	36 x 96	O	55.0	55.0	N	CTLA-772W-1; CTLA-1051W	0005/0014-02	0005-02
MA0121-02	X	O	36 x 80	1	36 x 80	O	55.0	55.0	N	NCTL 210-1973 1-3; CTLA-1051W	0011-02	0001-02
MA0122-02	XX	O	72 x 80	1,2	36 x 80	O	55.0	55.0	Y	CTLA-772W-2; CTLA-1051W	0012-02	0002-02
MA0123-02	XO/OX	O	50 x 80	1	36 x 80	O	55.0	55.0	Y	CTLA-772W-2; CTLA-1051W	0013/0016/0014-02	0003-02
MA0124-02	OXO	O	64 x 80	1	36 x 80	O	55.0	55.0	N	CTLA-772W-2; CTLA-1051W	0014/0017/0041-02	0004-02
MA0125-02	OXOX	O	100 x 80	1,2	36 x 80	O	55.0	55.0	N	CTLA-772W-2; CTLA-1051W	0015/0018/0041-02	0005-02
MA0126-02	X	O	36 x 96	1	36 x 96	O	70.0	70.0	Y	CTLA-772W; CTLA-1051W	0011-02	0001-02
MA0127-02	XX	O	72 x 96	1,2	36 x 96	O	55.0	55.0	Y	CTLA-772W-1; CTLA-1051W	0012-02	0002-02
MA0128-02	XO/OX	O	50 x 96	1	36 x 96	O	55.0	55.0	Y	CTLA-772W-1; CTLA-1051W	0013/0016/0041-02	0003-02
MA0129-02	OXO	O	64 x 96	1	36 x 96	O	55.0	55.0	N	CTLA-772W-1; CTLA-1051W	0014/0017/0041-02	0004-02
MA0130-02	OXOX	O	100 x 96	1,2	36 x 96	O	55.0	55.0	N	CTLA-772W-1; CTLA-1051W	0015/0018/0041-02	0005-02

¹ O=Opaque; G=Glazed

² tested in accordance with Metro-Date Protocol PA202, ASTM E1886 or ASTM E1996

VERIFIED BY:
Warnock Hersey
March 10, 2003

COP/MAD/MID sheets referenced
in this matrix provides additional
information - available from the
Masonite website
(www.masonite.com) or the
Masonite technical center.

FIBERGLASS DOORS

COP# (WL-)	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type ¹	+DP (psf)	-DP (psf)	Impact App'd	Ref. Test Reports ²	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
MA0141-02	X	I	36 x 80	1	36 x 80	G	52.0	52.0	N	CTLA-805W-2	0001/0041-02	0001-02
MA0142-02	XX	I	72 x 80	1, 2	36 x 80	G	52.0	52.0	N	CTLA-805W-2	0002/0041-02	0002-02
MA0143-02	XO/OX	I	72 x 80	1	36 x 80	G	52.0	52.0	N	CTLA-805W-2	0003/0006/0041-02	0003-02
MA0144-02	OXO	I	108 x 80	1	36 x 80	G	52.0	52.0	N	CTLA-805W-2	0004/0007/0041-02	0004-02
MA0145-02	OXOX	I	144 x 80	1, 2	36 x 80	G	52.0	52.0	N	CTLA-805W-2	0005/0008/0041-02	0005-02
MA0146-02	X	I	36 x 96	1	36 x 96	G	52.0	52.0	N	CTLA-805W	0001/0041-02	0001-02
MA0147-02	XX	I	72 x 96	1, 2	36 x 96	G	40.0	40.0	N	CTLA-805W	0002/0041-02	0002-02
MA0148-02	XO/OX	I	72 x 96	1	36 x 96	G	40.0	40.0	N	CTLA-805W	0003/0006/0041-02	0003-02
MA0149-02	OXO	O	108 x 96	1	36 x 96	G	40.0	40.0	N	CTLA-805W	0004/0007/0041-02	0004-02
MA0150-02	OXOX	I	144 x 96	1, 2	36 x 96	G	40.0	40.0	N	CTLA-805W	0005/0007/0041-02	0005-02
MA0161-02	X	O	36 x 80	1	36 x 80	G	55.0	55.0	N	CTLA-805W-2	0011/0041-02	0001-02
MA0162-02	XX	O	72 x 80	1, 2	36 x 80	G	55.0	55.0	N	CTLA-805W-2	0012/0041-02	0002-02
MA0163-02	XO/OX	O	72 x 80	1	36 x 80	G	55.0	55.0	N	CTLA-805W-2	0013/0016/0041-02	0003-02
MA0164-02	OXO	O	108 x 80	1	36 x 80	G	55.0	55.0	N	CTLA-805W-2	0014/0017/0041-02	0004-02
MA0165-02	OXOX	O	144 x 80	1, 2	36 x 80	G	55.0	55.0	N	CTLA-805W-2	0015/0018/0041-02	0005-02
MA0166-02	X	O	36 x 96	1	36 x 96	G	47.0	47.0	N	CTLA-805W	0011/0041-02	0001-02
MA0167-02	XX	O	72 x 96	1, 2	36 x 96	G	47.0	47.0	N	CTLA-805W	0012/0041-02	0002-02
MA0168-02	XO/OX	O	72 x 96	1	36 x 96	G	47.0	47.0	N	CTLA-805W	0013/0016/0041-02	0003-02
MA0169-02	OXO	O	108 x 96	1	36 x 96	G	47.0	47.0	N	CTLA-805W	0014/0017/0041-02	0004-02
MA0170-02	OXOX	O	144 x 96	1, 2	36 x 96	G	47.0	47.0	N	CTLA-805W	0015/0018/0041-02	0005-02

¹ O=opaque; G=glazed

² tested in accordance with Metro-Data Protocol PA202, ASTM E1886 or ASTM E1996



March 10, 2003
COP/MAD/MID sheets referenced
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information - available from the
Masonite website
(www.masonite.com) or the
Masonite technical center.

R
W
B
C

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33594 Phone 813.659.9197

Facsimile 813.659.4858

ENGINEER'S NOTICE OF EVALUATION # SL- 107F

Silverline Building Products, Inc.
One Silver Line Drive
North Brunswick, New Jersey 08902

Window

DESCRIPTION OF UNIT**Model Designation:** Vinyl Single Hung Window, Series/Model 2900.**Maximum Overall Nominal Size:** up to 48" x 84" **Usable Configurations:** 0
X

General Description: Insulated glass, vinyl Single Hung window with welded mitered corners. The head and side jambs are extruded vinyl with an exterior wall thickness of 0.070" +/- 0.008". The insulated glass is two lites of 1/8" clear annealed glass. Overall nominal thickness is 5/8". The unit is wet glazed with silicone and secured with snap-in vinyl glazing beads. Both the meeting rail and fixed rail are reinforced with steel "U" channel.

FBC Section 1707 Materials and Assembly Tests:
(1707.4.2 Exterior Windows and Glass Door Assemblies)

Test	Description	Test Location	Date	Report No.	Certifying Technician
ASTM E330	Uniform Static Air Pressure	ATI - York, PA	February 16, 1999 November 10, 1999	01-34085.01 01-36126.01	Adam Fodor
ASTM F588	Forced Entry	ATI - York, PA	February 16, 1999 November 10, 1999	01-34085.01 01-36126.01	Adam Fodor
ASTM E547	Water Penetration	ATI - York, PA	February 16, 1999 November 10, 1999	01-34085.01 01-36126.01	Adam Fodor
ASTM E283	Air Infiltration	ATI - York, PA	February 16, 1999 November 10, 1999	01-34085.01 01-36126.01	Adam Fodor

Design Pressure Ratings:

Configuration	Glass	Maximum Size	Design Pressure Ratings
Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 48" X 84"	+30.00 psf -30.00 psf
Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 44" X 62"	+45.00 psf -45.00 psf
Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 36" X 62"	+50.00 psf -50.00 psf
Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 38" X 60"	+50.00 psf -50.00 psf

Installation and Anchoring: See reverse side this page**Use**

1. 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 do not exceed the design pressure ratings listed above.
2. For Masonry installations where the sub-buck is less than 1-1/2 inches (FBC section 1707.4.4 Anchorage Methods and sub-sections 1707.4.4.1 and 1707.4.4.2) same diameter Tapcon type concrete anchors must be substituted and the length must be such that a minimum 1-1/4" engagement of the Tapcon into the masonry wall is obtained.

Certification: Florida Professional Engineer - Seal No. 43409

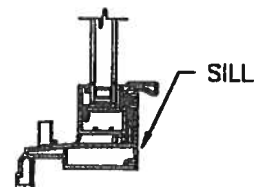
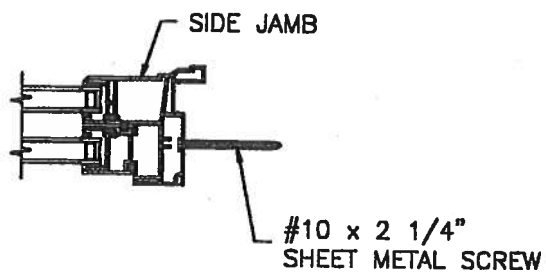
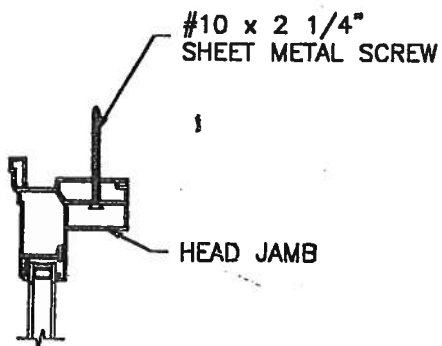
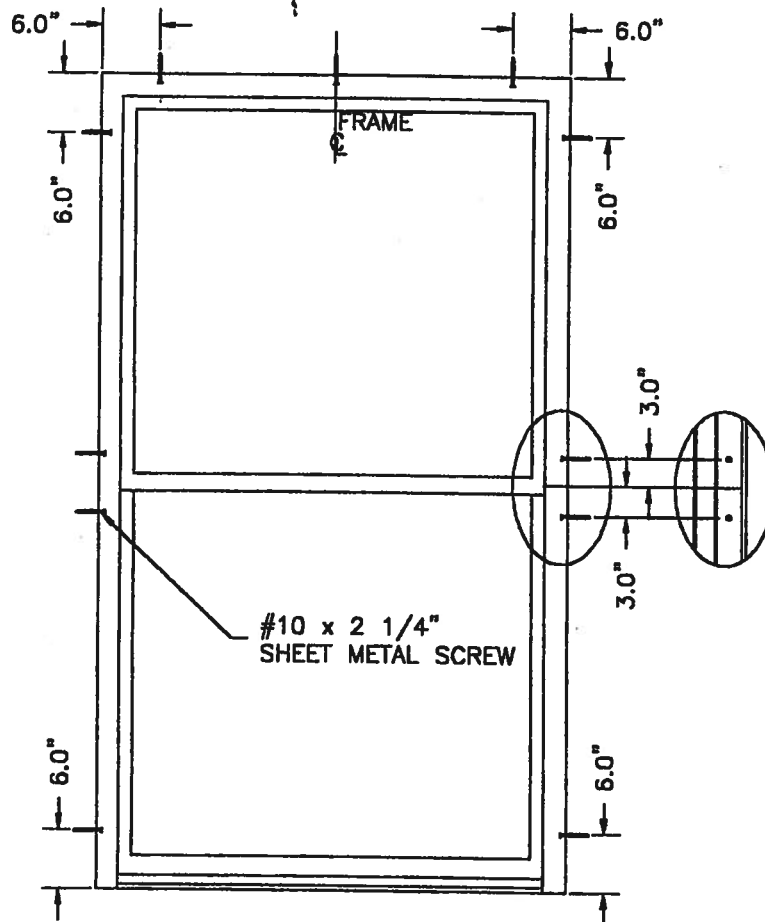
May 23, 2002

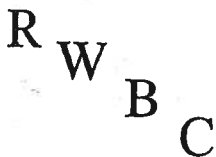
Lyndon F. Schmidt

19506 French Lace Drive

Lutz, FL 33558

SILVERLINE SERIES 2900
EXTRUDED VINYL SINGLE HUNG WINDOW
MAXIMUM SIZE UP TO 48" x 84"





R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33594 Phone 813.659.9197

Facsimile 813.659.4858

ENGINEER'S NOTICE OF EVALUATION # SL- 110F-R

Silverline Building Products, Inc.
One Silver Line Drive
North Brunswick, New Jersey 08902

DESCRIPTION OF UNIT

Model Designation: Vinyl Single Hung Window, Series/Model 2900 With Nailing Flange.

Maximum Overall Nominal Size: up to 48" x 84" **Usable Configurations:** O
X

General Description: Insulated glass, vinyl Single Hung window with welded mitered corners. The head and side jambs are extruded vinyl with an exterior wall thickness of 0.070" +/- 0.008". The insulated glass is two lites of 1/8" clear annealed glass. Overall nominal thickness is 5/8". The unit is wet glazed with silicone and secured with snap-in vinyl glazing beads.

*In these units both the meeting rail and fixed rail are reinforced with steel "U" channel.

**In this unit the stiles utilize an extruded aluminum formed steel channel reinforcement and both the meeting rail and fixed rail are reinforced with steel "U" channel.

FBC Section 1707 Materials and Assembly Tests:

(1707.4.2 Exterior Windows and Glass Door Assemblies)

Test	Description	Test Location	Date	Report No.	Certifying Technician
ASTM E330	Uniform Static Air Pressure	ATI - York, PA	February 16, 1999	01-34085.01	Adam Fodor
			November 10, 1999	01-36126.01	Adam Fodor
			November 19, 2002	01-43155.01	Joseph A. Reed, P.E.
ASTM F588	Forced Entry	ATI - York, PA	February 16, 1999	01-34085.01	Adam Fodor
			November 10, 1999	01-36126.01	Adam Fodor
			November 19, 2002	01-43155.01	Joseph A. Reed, P.E.
ASTM E547	Water Penetration	ATI - York, PA	February 16, 1999	01-34085.01	Adam Fodor
			November 10, 1999	01-36126.01	Adam Fodor
			November 19, 2002	01-43155.01	Joseph A. Reed, P.E.
ASTM E283	Air Infiltration	ATI - York, PA	February 16, 1999	01-34085.01	Adam Fodor
			November 10, 1999	01-36126.01	Adam Fodor
			November 19, 2002	01-43155.01	Joseph A. Reed, P.E.

Design Pressure Ratings:

Configuration	Glass	Maximum Size	Design Pressure Ratings
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Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 36" X 62"	+50.00 psf -50.00 psf *
Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 38" X 60"	+50.00 psf -50.00 psf *
Single Hung Window	1/8" Ann. - Air Space - 1/8" Ann.	Up to 36" x 74"	+50.00 psf -50.00 psf **

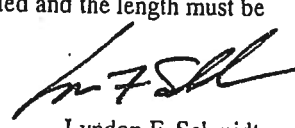
Installation and Anchoring: See reverse side this page

Use

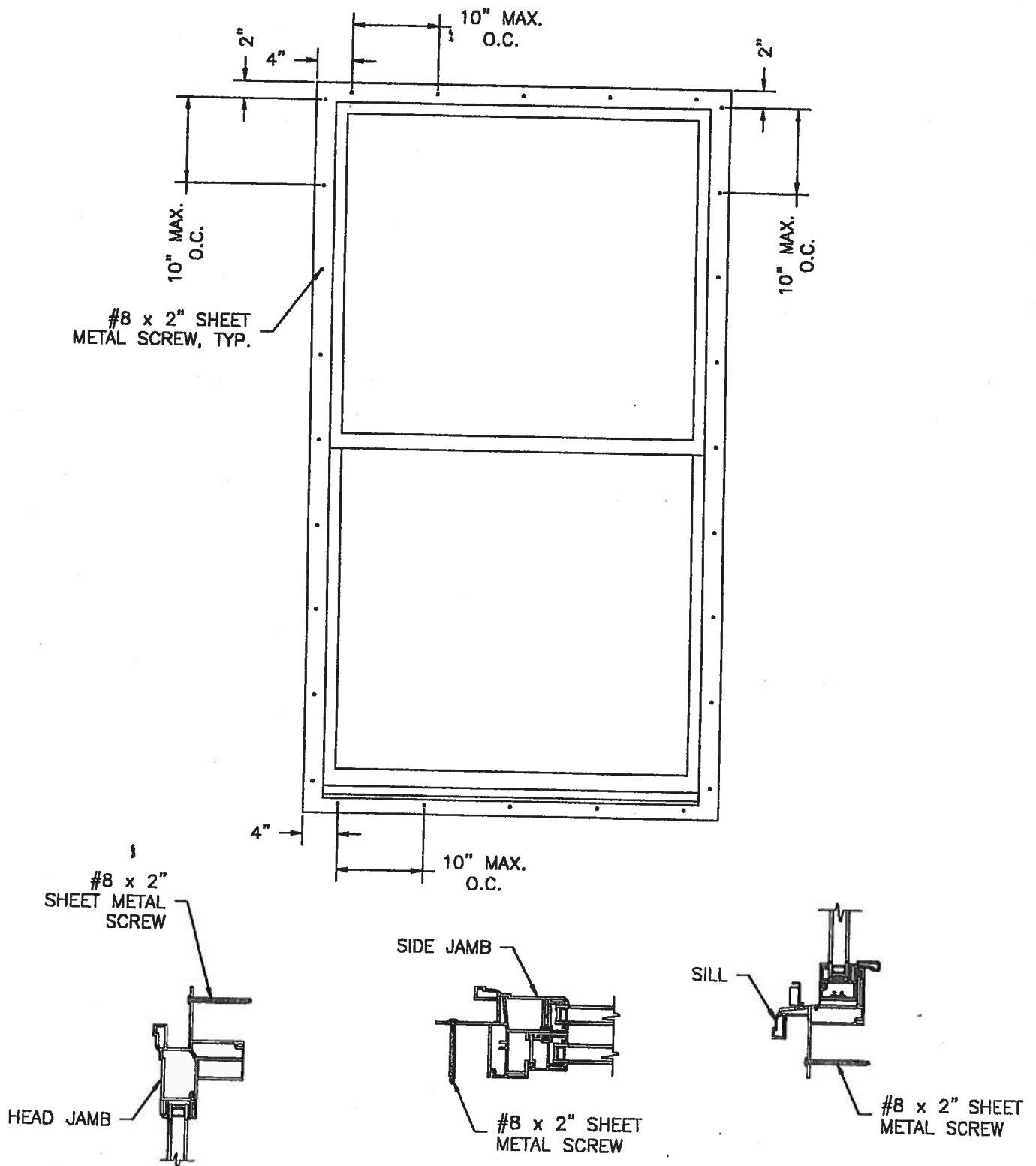
1. Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures do not exceed the design pressure ratings listed above.
2. For Masonry installations where the sub-buck is less than 1-1/2 inches (FBC section 1707.4.4 Anchorage Methods and sub-sections 1707.4.4.1 and 1707.4.4.2) same diameter Tapcon type concrete anchors must be substituted and the length must be such that a minimum 1-1/4" engagement of the Tapcon into the masonry wall is obtained.

Certification: Florida Professional Engineer - Seal No. 43409
19506 French Lace Drive

March 19, 2003
Lutz, FL 33558


Lyndon F. Schmidt

SILVERLINE SERIES 2900
EXTRUDED VINYL SINGLE HUNG WINDOW
W/ NAILING FLANGE MAXIMUM SIZE UP TO 48" x 84"



DWG. #SLSH-411

MODEL DESIGNATION:

MAXIMUM OVERALL NOMINAL SIZE:

DESIGN PRESSURE RATING:

Silverline Series 2900 Single Hung Window

Single up to a maximum of 48" x 84"

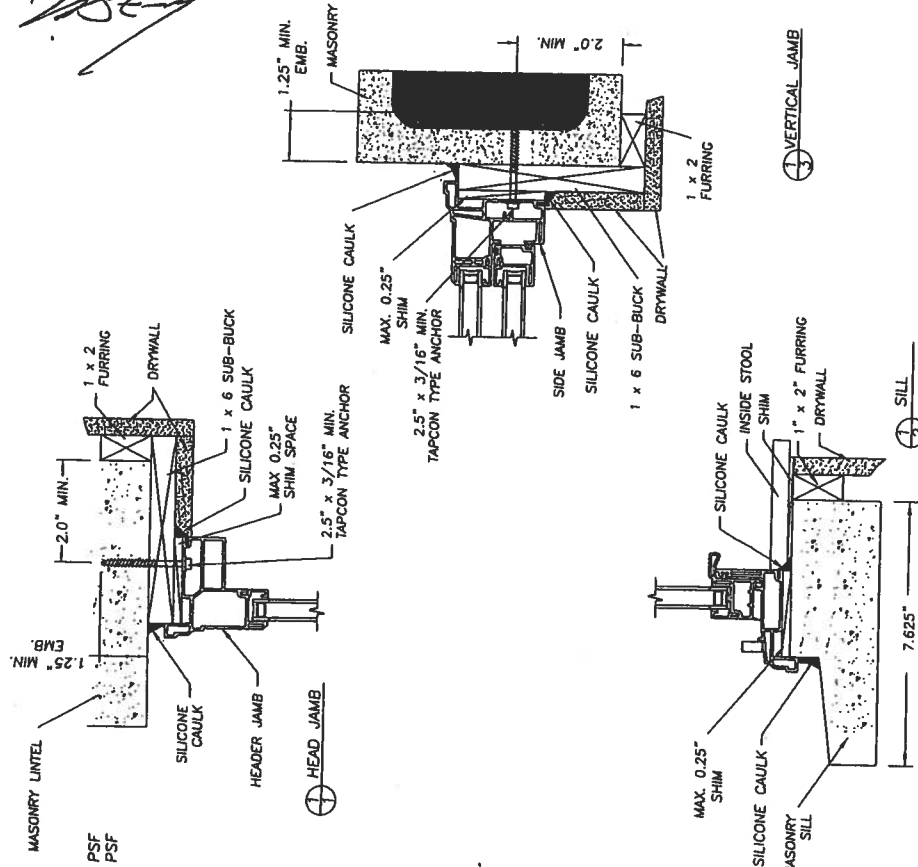
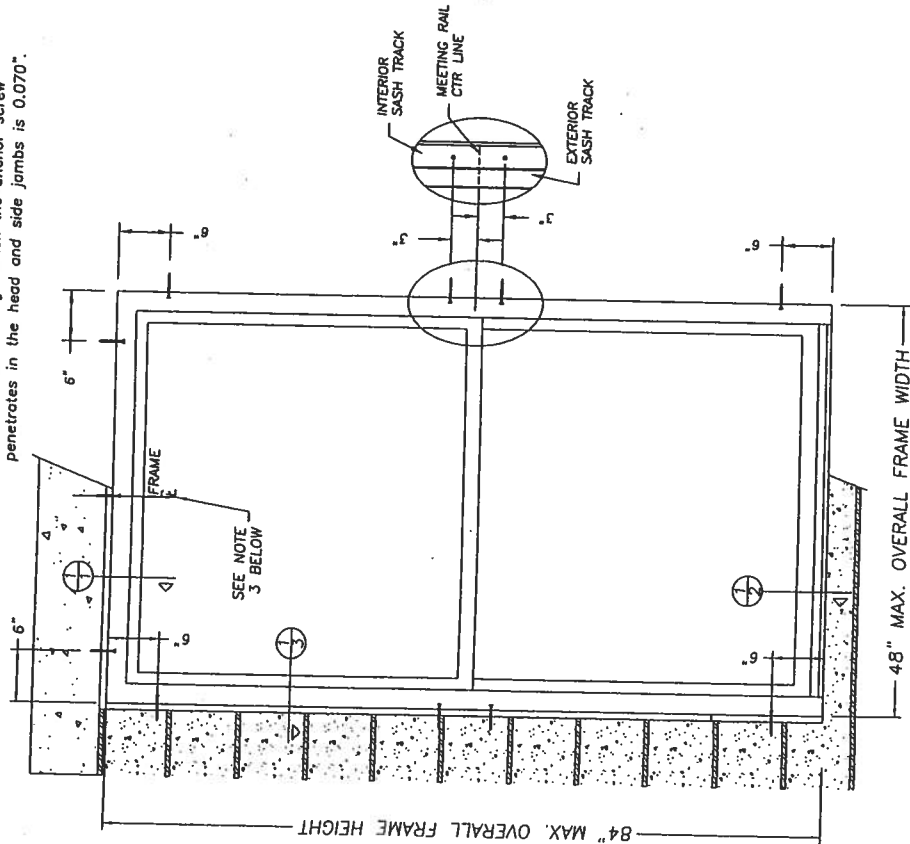
ANCHORS:
48" x 84" Positive 30.0 PSF Negative 30.0 PSF
44" x 62" Positive 45.0 PSF Negative 45.0 PSF
Up to 38" x 60" Positive 50.0 PSF Negative 50.0 PSF
Up to 36" x 74" Positive 50.0 PSF Negative 50.0 PSF

WINDOWS:
Design Pressure Ratings Vary; See
Corresponding AAMA Test Report or Dade
NOA or Florida P.E. Evaluation.

USABLE CONFIGURATIONS:

GENERAL DESCRIPTION:

The head and side jombs are extruded PVC. The wall thickness through which the anchor screw penetrates in the head and side jombs is 0.070".



NOTE:

1. This installation has been 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 do not exceed the design pressure ratings listed herein.
2. For installations where the sub-buck is less than 1-1/2" (FBC section 1707.4.4 Anchorage Methods and sub-sections 1707.4.4.1 and 1707.4.4.2) Tapcon type concrete anchors must be used and the length must be such that a minimum 1-1/4" engagement of the Tapcon into the masonry wall is obtained.
3. When installing a window that is 36" or less in width, the centerline screw at the head may be eliminated.
4. Wall dressing at exterior flanges By Others.
5. Adjust Tapcon anchor locations, if necessary, to maintain a minimum 2.0" clearance from mortar joints.

ANCHORING CROSS SECTIONS
FOR 1X BUCK TO MASONRY
SINGLE HUNG
VINYL WINDOW

RW BUILDING CONSULTANTS, INC.
813.659.9197

DATE: 5/10/02

SCALE: N.T.S.

DWG. BY: TJH

CHK. BY: R.W.

DRAWING NO.: SL-404R

SHEET 1 OF 1

Silverline Building Products Corp.
One Silverline Drive
North Brunswick, NJ 08902
PH. 732.435.1000

March 19, 2003

Lyndon F. Schmidt
Florida P. E. No. 43409
19506 French Lake Drive
Lutz, FL 33558

MODEL DESIGNATION:

Silverline Series 2900 Single Hung Window

Single up to a maximum of 48" x 84"

DESIGN PRESSURE RATING:

48" x 84" Positive 30.0 PSF Negative 30.0 PSF
 44" x 62" Positive 45.0 PSF Negative 45.0 PSF
 Up to 38" x 66" Positive 50.0 PSF Negative 50.0 PSF
 Up to 36" x 74" Positive 50.0 PSF Negative 50.0 PSF

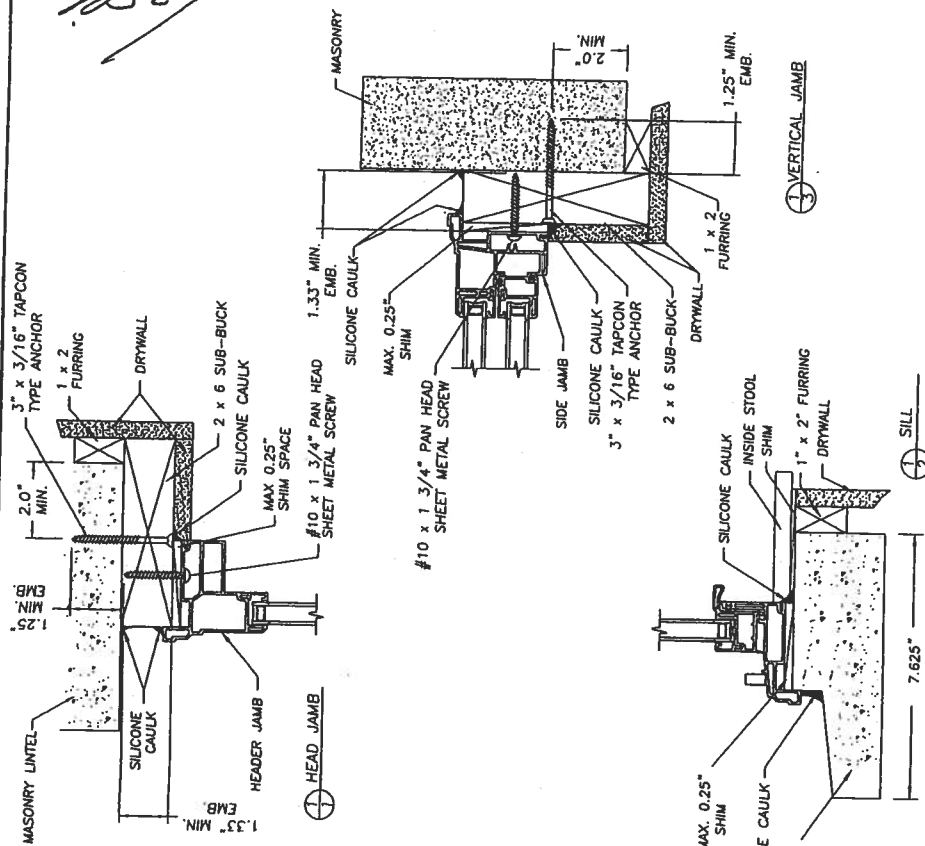
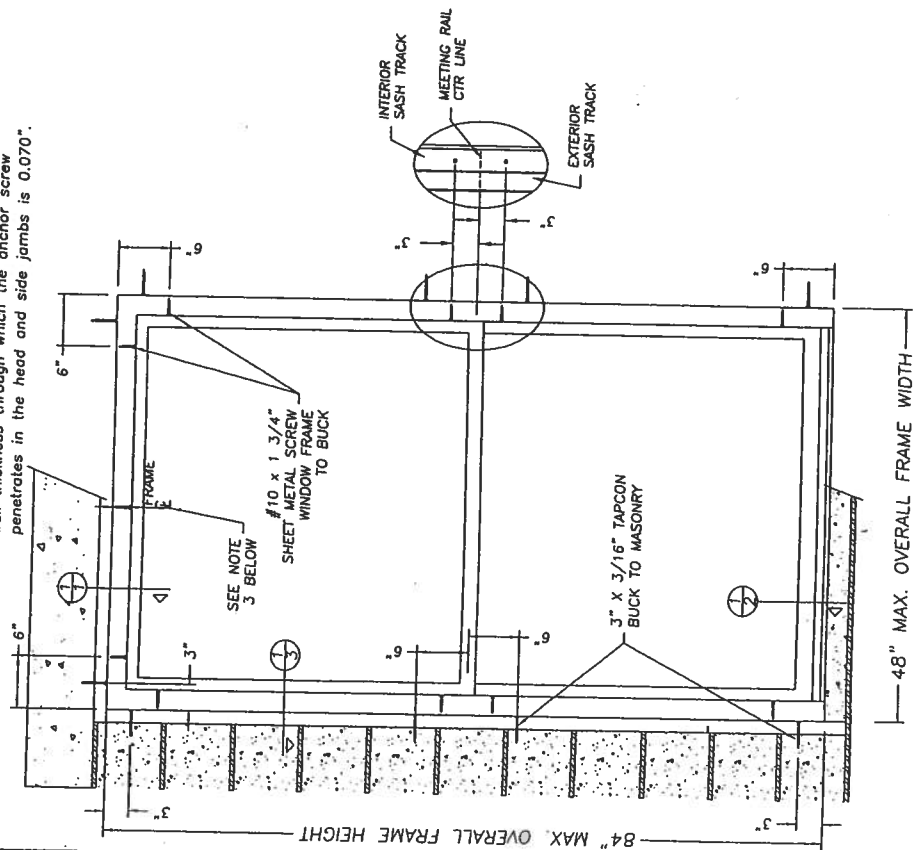
Design Pressure Ratings Vary; See

Corresponding AAMA Test Report or Dade
 NOA or Florida P.E. Evaluation.

USABLE CONFIGURATIONS:

GENERAL DESCRIPTION:

The head and side jombs are extruded PVC. The wall thickness through which the anchor screw penetrates in the head and side jombs is 0.070".



- NOTE:**
1. This installation has been 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 do not exceed the design pressure ratings listed herein.
 2. When installing a window that is 36" or less in width, the centerline screw at the head may be eliminated.
 3. Wall dressing at exterior flanges *By Others*.
 4. Adjust Tapcon anchor locations, if necessary, to maintain a minimum 2.0" clearance from mortar joints.

ANCHORING CROSS SECTIONS
 FOR 2X BUCK TO MASONRY
 SINGLE HUNG
 VINYL WINDOW

RW BUILDING
 CONSULTANTS, INC.
 813.659.9197

DATE: 5/10/02
 SCALE: N.T.S.
 DWG. BY: TJH
 CHK. BY: R.W.
 DRAWING NO.:
 SL-410R
 SHEET 1 OF 1

Silverline Building Products Corp.
 One Silverline Drive
 North Brunswick, NJ 08902
 PH. 732.435.1000

Lyndon F. Schmidt
 Florida P. E. No. 43409
 19506 French Loe Drive
 Lutz, FL 33558
 March 19, 2003

MODEL DESIGNATION:

Silverline Series 2900 Single Hung Window W/ Nailing Flange
Single up to a maximum of 48" x 84"

DESIGN PRESSURE RATING:

48" x 84" Positive 30.0 PSF Negative 30.0 PSF
44" x 62" Positive 45.0 PSF Negative 45.0 PSF
Up to 38" x 60" Positive 50.0 PSF Negative 50.0 PSF
Up to 36" x 74" Positive 50.0 PSF Negative 50.0 PSF

Windows:

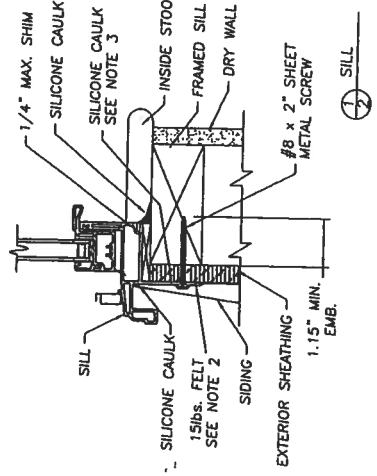
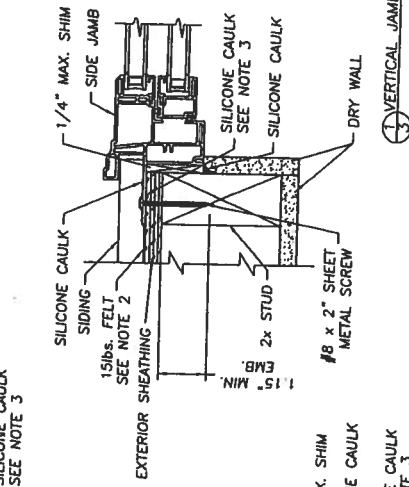
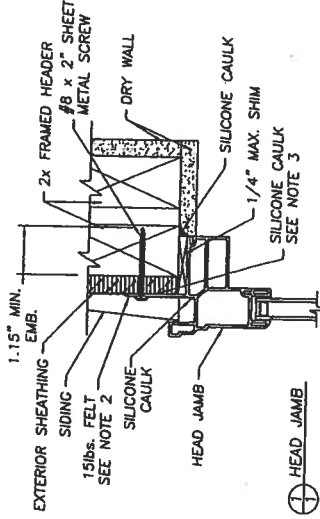
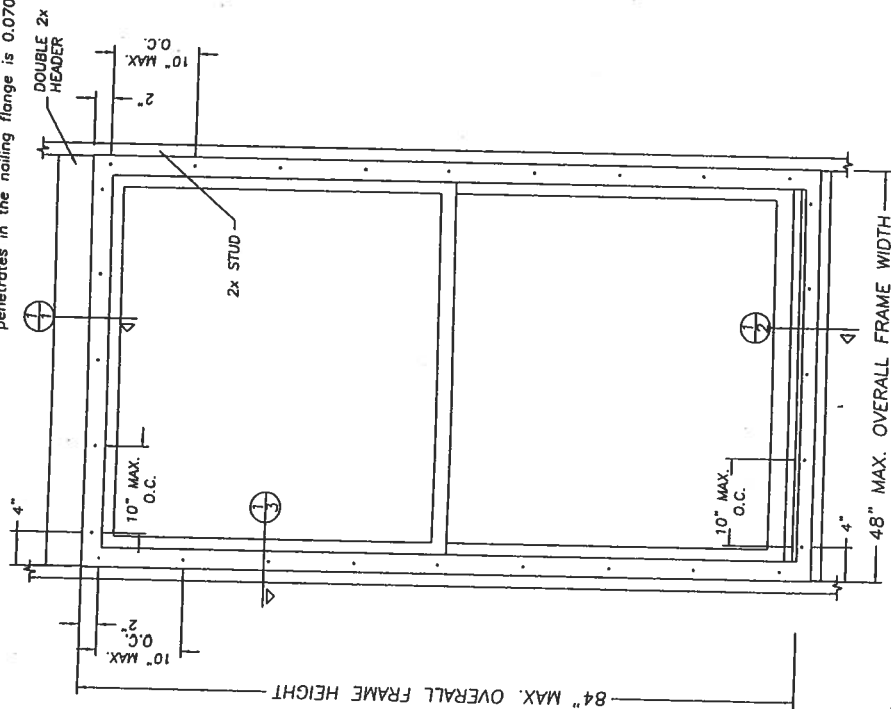
Design Pressure Ratings Vary; See
Corresponding AAMA Test Report or Dade
NOA or Florida P.E. Evaluation.

USABLE CONFIGURATIONS:

Q X

GENERAL DESCRIPTION:

The head and side jambs are extruded PVC. The wall thickness through which the anchor screw penetrates in the nailing flange is 0.070".



- NOTE:**
1. This installation has been 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 do not exceed the design pressure ratings listed herein.
 2. 15lbs. felt must be used as a water barrier. The felt must cover the nailing flange and anchor screw heads.
 3. The full perimeter of the window nailing flange must have a heavy bead of caulk applied to the building side before the window is placed in the opening.

RW BUILDING CONSULTANTS, INC.
813.659.9197

DATE: 6/03/02
SCALE: N.T.S.
DWC BY: TJH
CHK BY: R.W.
DRAWING NO.: SL-411R
SHEET 1 OF 1

ANCHORING CROSS SECTIONS
FOR 2X STUD CONSTRUCTION
SINGLE HUNG VINYL
WINDOW W/ NAILING FLANGE

Silverline Building Products Corp.
One Silverline Drive
North Brunswick, NJ 08902
PH. 732.435.1000

Lyndon F. Schmidt
Florida P. E. No. 43409
19506 French Lace Drive
Lutz, FL 33558
March 19, 2003

R
W
B
C

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197 Facsimile 813.659.4858

Florida Board of Professional Engineers Certificate of Authorization No. 9813

Product Evaluation Report

Report No.: FS 04-0108.01
Date: January 8, 2004
Product Category: Windows
Product sub-category: Single Hung
Product Name: 2900 Series Model 2910
Manufacturer: Silverline Building Products Corporation
1 Silverline Drive
North Brunswick, NJ 08902
Phone - 732.435.1000 Facsimile - 732.247.6820

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Lyndon F. Schmidt, P.E. (System ID # 1998) for Silverline Building Products based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

This product has been evaluated for use in locations adhering to the Florida Building Code (2001 Edition) and where pressure requirements, as determined by Chapter 16 of The Florida Building Code, do not exceed the following design pressures:

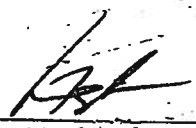
Design Pressure Rating:

Maximum Design Pressure Rating
(See Limitations for size restrictions)

Positive 50.0 PSF

Negative 50.0 PSF

See Drawing No.: FL-140 dated January 7, 2004 prepared by R W Building Consultants, Inc. and signed and sealed by Lyndon F. Schmidt, P.E. (FL # 43409) for specific use parameters.


Lyndon F. Schmidt, P.E. No. 43409
January 9, 2004

Limitations

1. The 2910 Single, Mulled, and Twin Extruded Vinyl Single Hung Window has been evaluated and meets the requirements for use within the State of Florida excluding the "High Velocity Hurricane Zone".
2. When used in areas requiring windborne debris protection this product is required to be covered with an external protection device that complies with Section 1606.1.4 of the Florida Building Code 2001.

3. Size Limitations:

<u>Configurations</u>		<u>MAX. Nominal Width</u>	<u>MAX. Nominal Height</u>
Single	X	48"	84"
Twin	XX	88.5"	75"
*Mulled Double	XX	97"	74"

*Mulled units can be constructed as double, triple, etc. The single unit cannot exceed 48" x 74".

5. The Design Pressure Rating for the various size units are as follows:

Singles

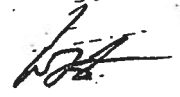
Single Unit Size	Design Pressure Rating	
	Positive	Negative
Up to 38" x 60"	+ 50.0 PSF	- 50.0 PSF
Up to 36" x 74"	+ 50.0 PSF	- 50.0 PSF
Up to 44" x 62"	+ 45.0 PSF	- 45.0 PSF
Up to 48" x 84"	+ 30.0 PSF	- 30.0 PSF

Twin – Continuous Head and Sill

Twin Unit Size	Design Pressure Rating	
	Positive	Negative
Up to 88.5" x 75"	+ 35.0 PSF	- 35.0 PSF
Up to 76.5 x 63"	+ 50.0 PSF	- 50.0 PSF

Mulled – Multiple Singles with 2723 Aluminum Mullion

Single Unit Size	Design Pressure Rating	
	Positive	Negative
Up to 38" x 60"	+ 50.0 PSF	- 50.0 PSF
Up to 36" x 74"	+ 50.0 PSF	- 50.0 PSF
Up to 44" x 62"	+ 45.0 PSF	- 45.0 PSF
Up to 48" x 74"	+ 34.0 PSF	- 34.0 PSF


Lyndon F. Schmid, P.E. No. 43409
January 9, 2004

Supporting Documents

A Drawing

1. Drawing No. FL-140 titled Silverline 2910 Single, Mulled, and Twin Extruded Vinyl Single Hung Window sheets 1 through 7 of 7 prepared by R W Building Consultants, Inc. (Florida Board of Professional Engineers Certificate of Authorization No. 9813), dated January 7, 2004, with no revisions, signed and sealed by Lyndon F. Schmidt, P.E.

B Test

1. Testing per AAMA / NWWDA 101/I.S. 2-97 as performed by Architectural Testing Inc. and reported in test report number, 01-34085.01, dated March 8, 1999, signed by Bruce W. Croak, Project Manager.
2. Testing per AAMA / NWWDA 101/I.S. 2-97 and ASTM F 588-97 as performed by Architectural Testing Inc. and reported in test report number, 01-35010.01, dated June 18, 1999, signed by Bruce W. Croak, Project Manager.
3. Testing per AAMA / NWWDA 101/I.S. 2-97 as performed by Architectural Testing Inc. and reported in test report number, 01-36126.01, dated November 23, 1999, signed by Benjamin E. Myers, Project Manager.
4. Testing per AAMA / NWWDA 101/I.S. 2-97 as performed by Architectural Testing Inc. and reported in test report number, 01-43155.01, dated January 6, 2003 signed by Joseph A. Reed, P.E., Director— Engineering Services.
5. Plastics testing in accordance with the "High Velocity Hurricane Zone" substantiated by Issuance of Miami-Dade Notice of Acceptance 03-0523.01, expiring August 15, 2007.

C Calculations

1. Anchor analysis for loading conditions, prepared, signed, and sealed by Lyndon F. Schmidt, P.E.
2. Mullion analysis for loading conditions, prepared, signed, and sealed by Lyndon F. Schmidt, P.E.
3. Comparison analysis to establish design pressure for units smaller than tested, prepared, signed and sealed by Lyndon F. Schmidt, P.E.
4. Glass Load Resistance Report ASTM E1300-98/00 prepared by Roberto Lomas.

D Other

1. Certificate of Participation issued by National Accreditation & Management Institute, Inc., certifying that Silverline Building Product, North Brunswick, NJ is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53. Silverline Building Products ID # S-019-1



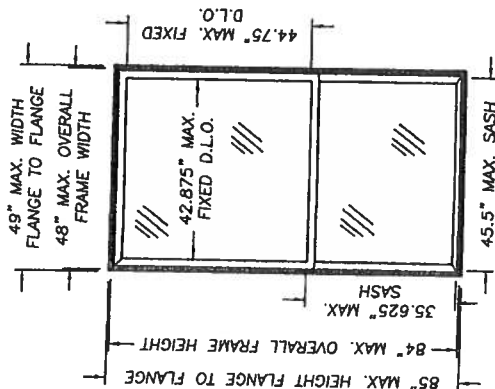
Lyndon F. Schmidt, P.E. No. 43409
January 9, 2004

Silverline

1 SILVERLINE DRIVE, NORTH BRUNSWICK, NJ 08902 PH. 732.435.1000
BUILDING PRODUCTS CORP.

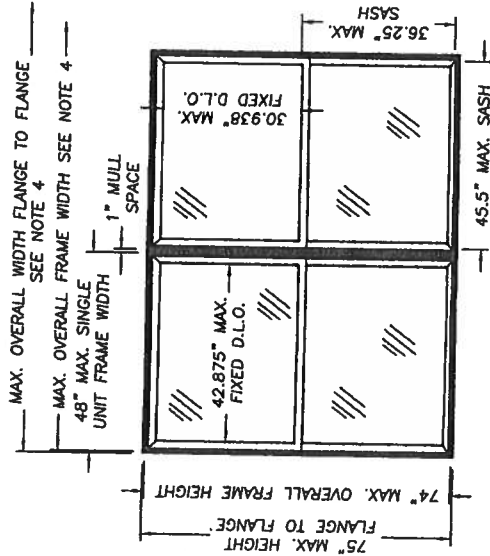
2900 SERIES, MODEL 2910

EXTRUDED VINYL SINGLE HUNG WINDOW
SINGLE, MULLED AND TWIN UNITS



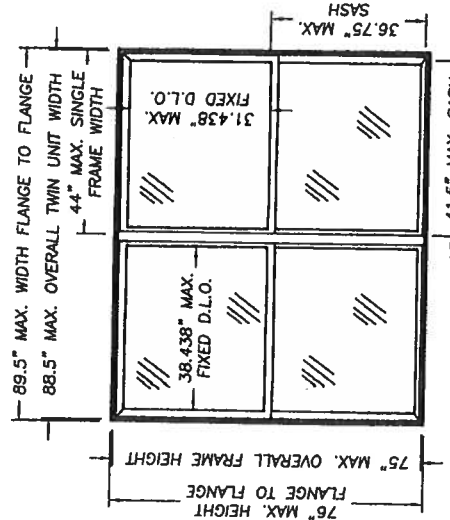
DESIGN PRESSURE RATINGS SINGLES (PSF)

SINGLE UNIT SIZE	DESIGN PRESSURE RATING	
	POSITIVE	NEGATIVE
UP TO 38" x 60"	+50.0 PSF	-50.0 PSF
UP TO 36" x 74"	+50.0 PSF	-50.0 PSF
UP TO 44" x 62"	+45.0 PSF	-45.0 PSF
UP TO 48" x 84"	+30.0 PSF	-30.0 PSF



DESIGN PRESSURE RATINGS MULLED W/ALUM. MULL (PSF)

SINGLE UNIT SIZE	DESIGN PRESSURE RATING	
	POSITIVE	NEGATIVE
UP TO 38" x 60"	+50.0 PSF	-50.0 PSF
UP TO 36" x 74"	+50.0 PSF	-50.0 PSF
UP TO 44" x 62"	+45.0 PSF	-45.0 PSF
UP TO 48" x 74"	+34.0 PSF	-34.0 PSF



DESIGN PRESSURE RATINGS (PSF) TWIN
UNITS WITH CONTINUOUS HEAD & SILL

TWIN UNIT SIZE	DESIGN PRESSURE RATING	
	POSITIVE	NEGATIVE
UP TO 88.5" x 75"	+35.0 PSF	-35.0 PSF
UP TO 76.5" x 63"	+50.0 PSF	-50.0 PSF

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	BILL OF MATERIALS & WINDOW CROSS SECTIONS, SINGLE & MULL
3	WINDOW CROSS SECTIONS, TWIN
4	ANCHORING CROSS SECTIONS 1X BACK TO MASONRY, SINGLE & MULL
5	ANCHORING CROSS SECTIONS 1X BACK TO MASONRY, SINGLE & MULL
6	ANCHORING CROSS SECTIONS 2X BACK TO MASONRY, SINGLE & MULL
7	ANCHORING CROSS SECTIONS 2X BACK TO MASONRY, TWIN

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN THIS PRODUCT IS USED IN AREAS REQUIRING WINDBORNE DEBRIS PROTECTION, THEN THE APPROPRIATELY APPROVED SHUTTERS FOR THE REGION ARE REQUIRED.
4. DOUBLE UNIT SHOWN IN THE ALUMINUM MULLED ELEVATION ABOVE CAN BE CONFIGURED IN MULTIPLE UNITS. SINGLE UNIT WIDTH CAN NOT EXCEED 48" x 74" IN ANY CONFIGURATION.

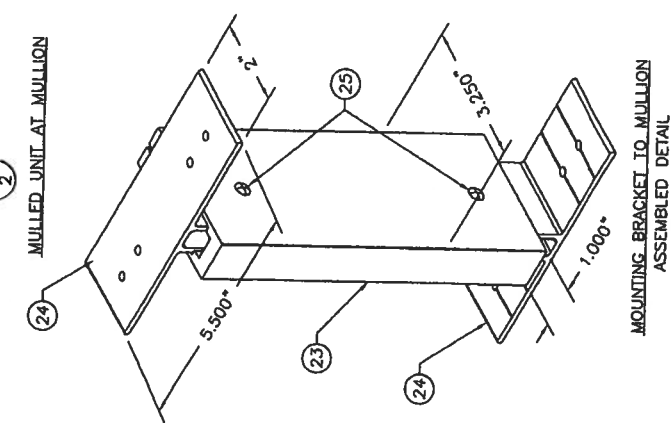
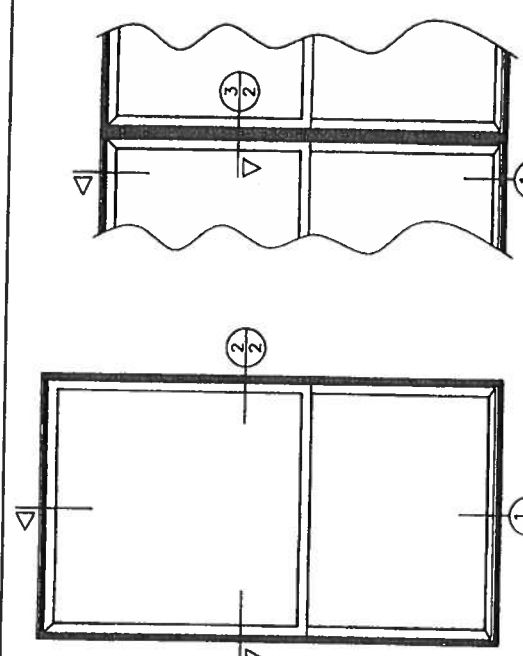
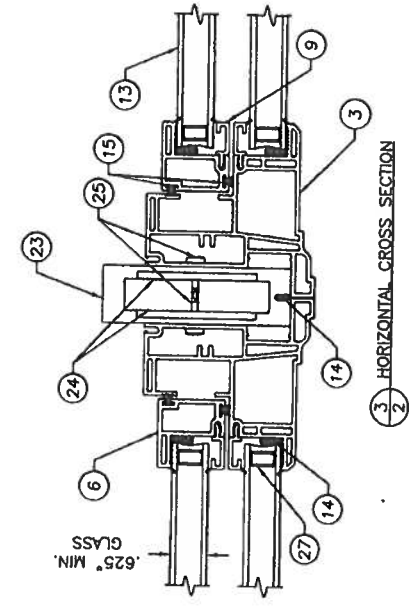
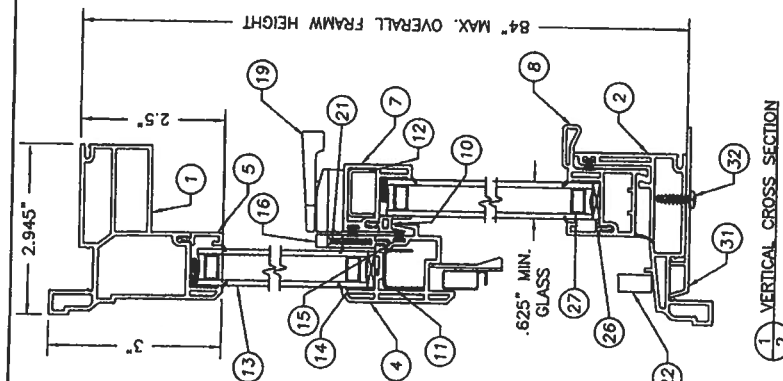
Documents Prepared By: *RM*
BUILDING CONSULTANTS, INC.
P.O. Box 230 Venice FL 33595
Phone No: 813.658.9187
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Lyndon F. Schmidt, P.E. NO. 43409
01/09/04

PRODUCT: SILVERLINE 2910 SINGLE
MULLED & TWIN EXTRUDED
VINYL SINGLE HUNG WINDOW
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS	
NO.	DATE

DATE: 01/07/04
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: FL-140
SHEET 1 of 2

ITEM	DESCRIPTION	MATERIAL
1	EXTRUDED VINYL PVC WINDOW HEADER BY SILVERLINE #2902 (0.070" WALL THK.)	VINYL
2	EXTRUDED VINYL PVC SILL BY SILVERLINE #2903 (0.070" MIN. WALL THK.)	VINYL
3	EXTRUDED VINYL PVC JAMB BY SILVERLINE #2901 (0.070" WALL THK.)	VINYL
4	EXTRUDED VINYL PVC WINDOW MEETING RAIL BY SILVERLINE #2907 (0.070" WALL THK.)	VINYL
5	EXTRUDED VINYL PVC WINDOW FRAME GLAZING BEAD BY SILVERLINE #2317 (0.062" MIN. WALL THK.)	VINYL
6	EXTRUDED VINYL PVC SASH STILES BY SILVERLINE #2905 (0.070" WALL THK.)	VINYL
7	EXTRUDED VINYL PVC SASH TOP RAIL (LOCK) BY SILVERLINE #2908 (0.070" WALL THK.)	VINYL
8	EXTRUDED VINYL PVC SASH LIFT RAIL (BOTTOM) BY SILVERLINE #2909 (0.070" MIN. WALL THK.)	VINYL
9	EXTRUDED VINYL PVC SASH GLAZING BEAD BY SILVERLINE #2217 (0.062" MIN. WALL THK.)	VINYL
10	EXTRUDED VINYL PVC SASH INTERLOCK GLAZING BEAD BY SILVERLINE #3557 (0.062" MIN. WALL THK.)	VINYL
11	ROLL FORMED STEEL MEETING RAIL REINFORCEMENT BY SILVERLINE #2919 (0.030" MIN. WALL THK.)	STEEL
12	ROLL FORMED STEEL TOP RAIL REINFORCEMENT BY SILVERLINE #2821 (0.030" MIN. WALL THK.)	STEEL
13	5/8" INSULATED ANNEALED GLASS 1/8" ANNEALED - 3/8" AIR - 1/8" ANNEALED	-
14	GLAZING COMPOUND DOW #1199 SILICONE	SILICONE
15	WEATHERSTRIP .240" x .187" BACK PILE W/CENTER FIN SILL, FIXED MEETING RAIL & MEETING RAIL BY ULTRAFAB	PILE
16	KEEPER BY SILVERLINE #2240	-
17	BALANCES 10-97-XX BLOCK & TACKLE BY CALDWELL MFG.	-
18	BALANCE SHOE BY CUSTOM CRAFT PLASTICS #799	-
19	SASH LOCK BY SILVERLINE #2241	-
20	TILT LATCH BY CUSTOM CRAFT PLASTICS #620	-
21	KEEPER ATTACHMENT SCREW #64 x 3/4" PPH ZINC PLATED	-
22	WINDOW SCREEN	-
23	EXTRUDED ALUM. BEAM MULLION BY SILVERLINE #2723 6063-16	ALUM.
24	BEAM MULLION BRACKET BY SILVERLINE #2722 6063-16 ALUM. 125	ALUM.
25	#8 x 3/4" PANHEAD SELF TAPPING SCREW	STEEL
26	GLASS SETTING BLOCK	-
27	METAL GLAZING SPACER	-
28	INTERMEDIATE JAMB SMALL REINF. .064" ROLL FORMED STEEL	STEEL
29	INTERMEDIATE JAMB LARGE REINF. .064" ROLL FORMED STEEL	STEEL
30	EXTRUDED VINYL PVC TWIN INTERMEDIATE JAMB BY SILVERLINE #2821 (0.070" MIN. WALL THK.)	VINYL
31	STRUCTURAL SILL STRAP ANCHOR BY SILVERLINE #2995 6061-16	ALUM.
32	#8 x 5/8" PPH SCREW	STEEL



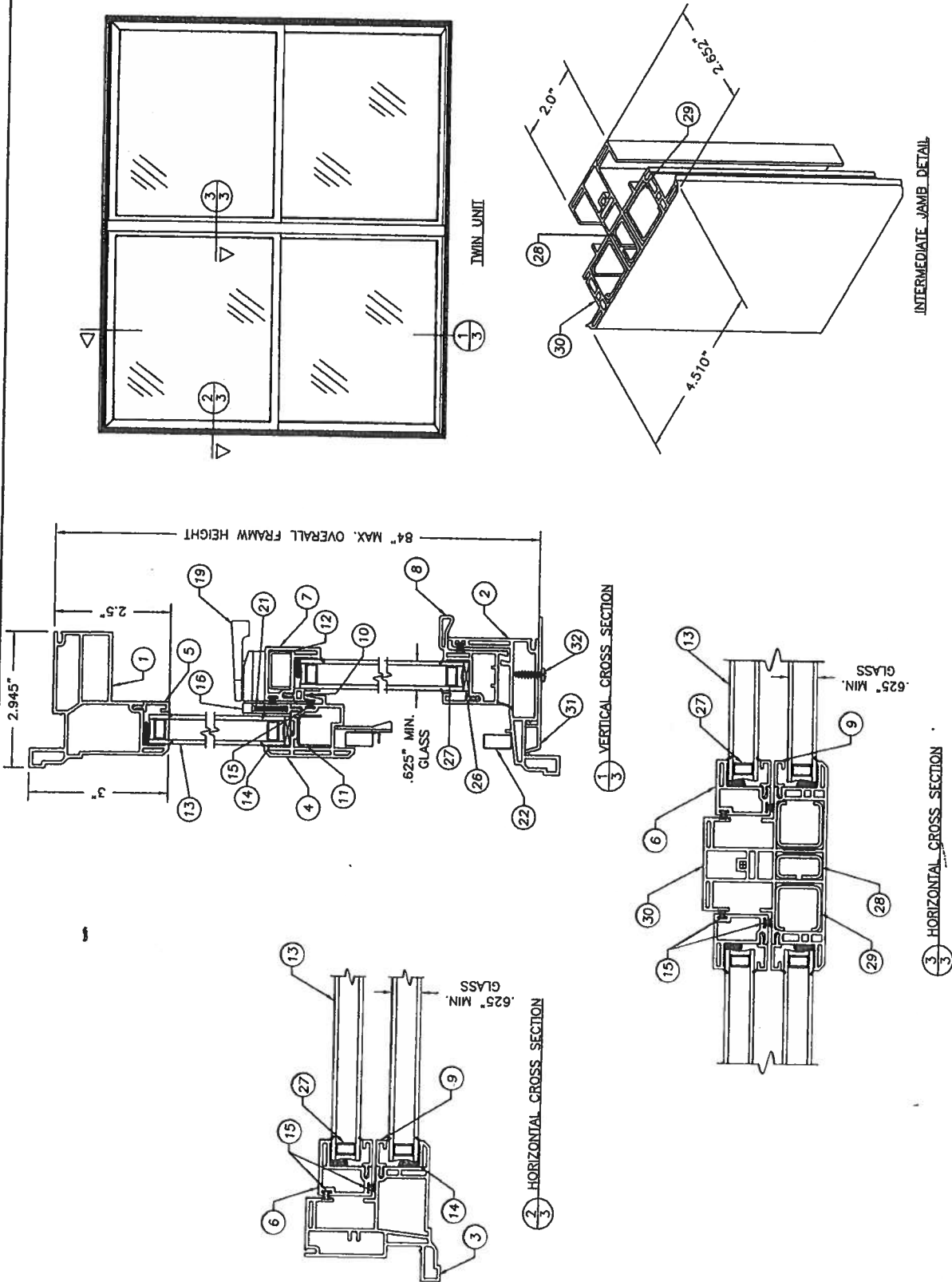
Documents Prepared By:
 BUILDING CONSULTANTS, INC.
 P.O. Box 250 Vero Beach, FL 33595
 Phone No.: 813.658.9187
 Florida Board of Professional Engineers
 Certificate of Authorization No. 9813
 Lynden F. Schmidt, P.E. NO. 45408
 01/08/04

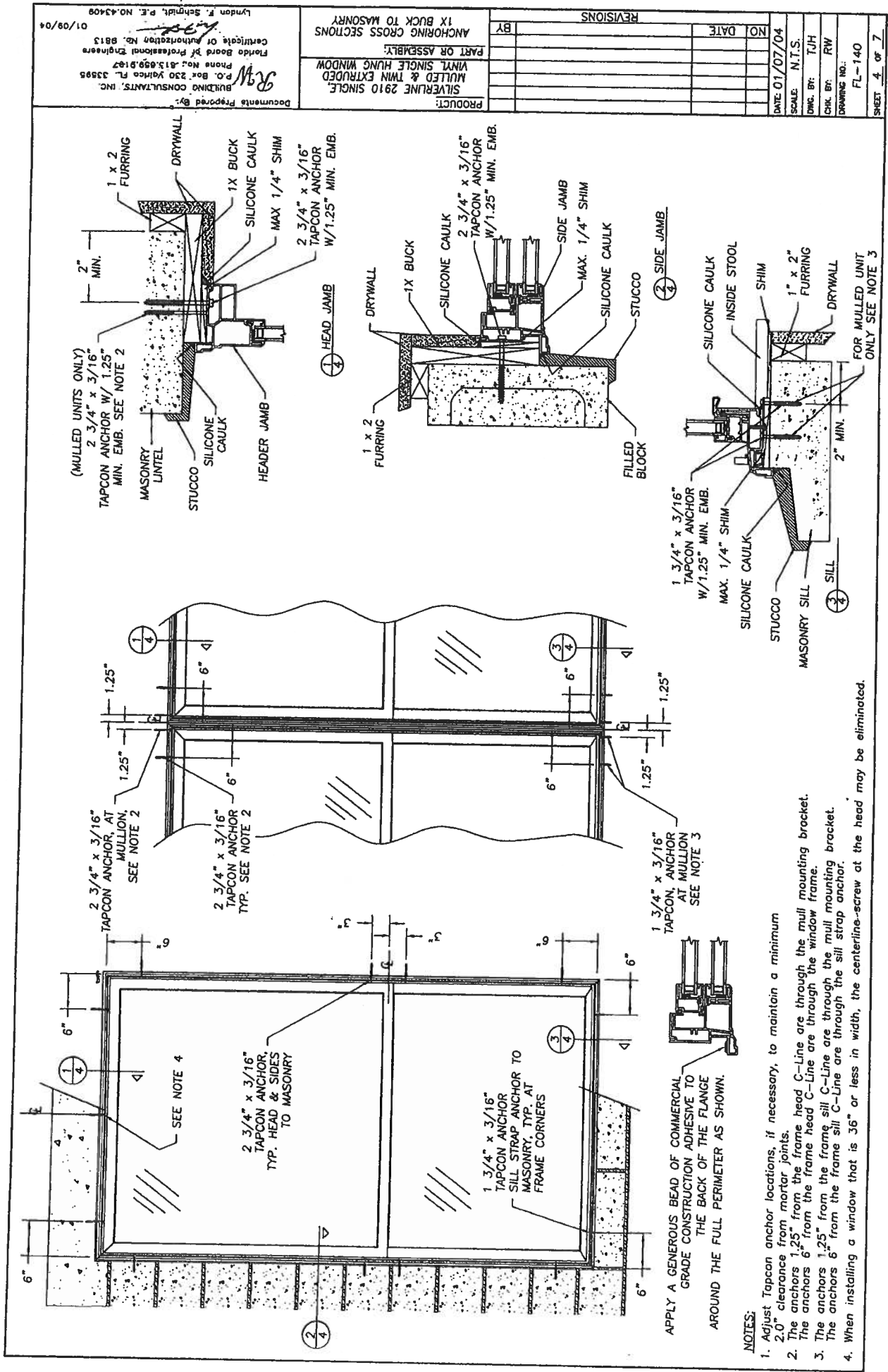
PRODUCT:
 SILVERLINE 2910 SINGLE
 MULLION & TWIN EXTRUDED
 VINYL SINGLE HUNG WINDOW
 PART OR ASSEMBLY:
 BILL OF MATERIALS &
 WINDOW CROSS SECTIONS

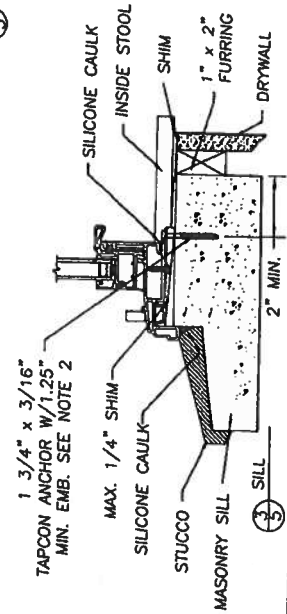
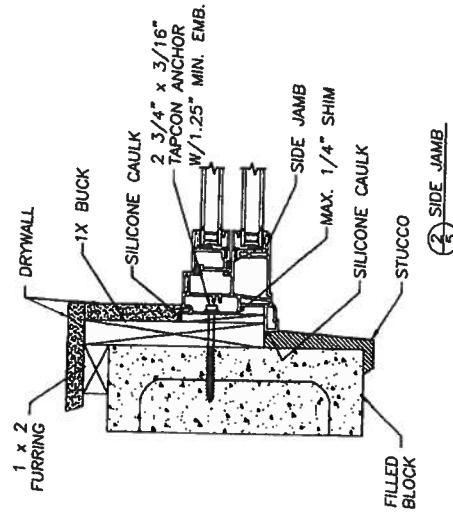
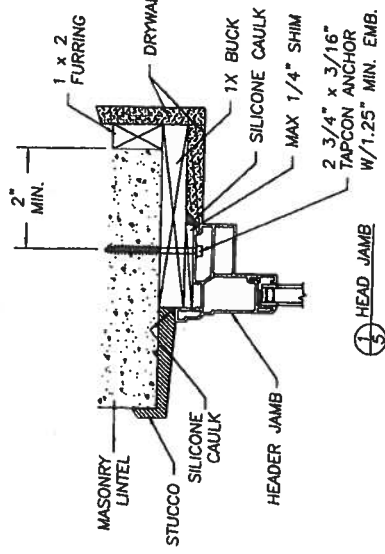
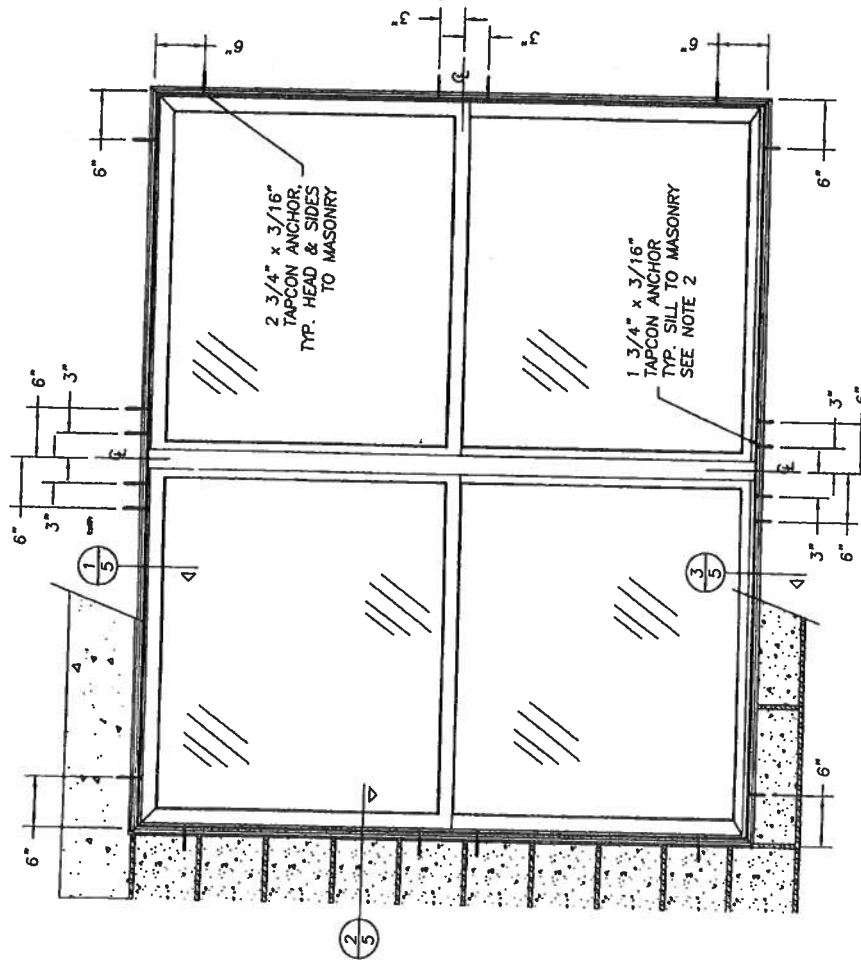
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DATE: 01/07/04
 SCALE: N.T.S.
 DWG. BY: TJH
 CHK. BY: RW
 DRAWING NO.:
 FL-140
 SHEET 2 OF 2

PRODUCT: SILVERLINE 2910 SINGLE MULLED & TWIN EXTRUDED VINYL SINGLE HUNG WINDOW PART OR ASSEMBLY: TWIN WINDOW CROSS SECTIONS REVISIONS:		NO. 8 DATE 01/07/04 SCALE: N.T.S. DWG. BY: T.J.H. CHK. BY: RW DRAWING NO.: FL-140 SHEET 3 OF 7
Documents Prepared By: <i>R.W.</i> BUILDING CONSULTANTS, INC. P.O. Box 230 Vero Beach, FL 33585 Phone No.: 813.692.9197 Certificate of Registration No. 9813 Florida Board of Professional Engineers Lyndon F. Schmidt, P.E. NO 43409 01/08/04		







APPLY A GENEROUS BEAD OF COMMERCIAL-
GRADE CONSTRUCTION ADHESIVE TO
THE BACK OF THE FLANGE
AROUND THE FULL PERIMETER AS SHOWN.

- NOTES:
1. Adjust Tapcon anchor locations, if necessary, to maintain a minimum 2.0" clearance from mortar joints.
 2. All anchors at the sill are through the sill strap anchor.

DATE 01/07/04		SCALE N.T.S.	DWG. BY: T.J.H	CHK. BY: RW	DRAWING NO:	FL-140	SHEET 5 of 7
NO.	DATE	REVISIONS					
BY							

NOTES:

1. Adjust Tapcon anchor locations, if necessary, to maintain a minimum 2.0" clearance from mortar joints.
2. All anchors at the sill are through the sill strap anchor.

5 of 7
SHEET

FL-140

BY: RW

BY: TJH

01/07/04

01/07/04

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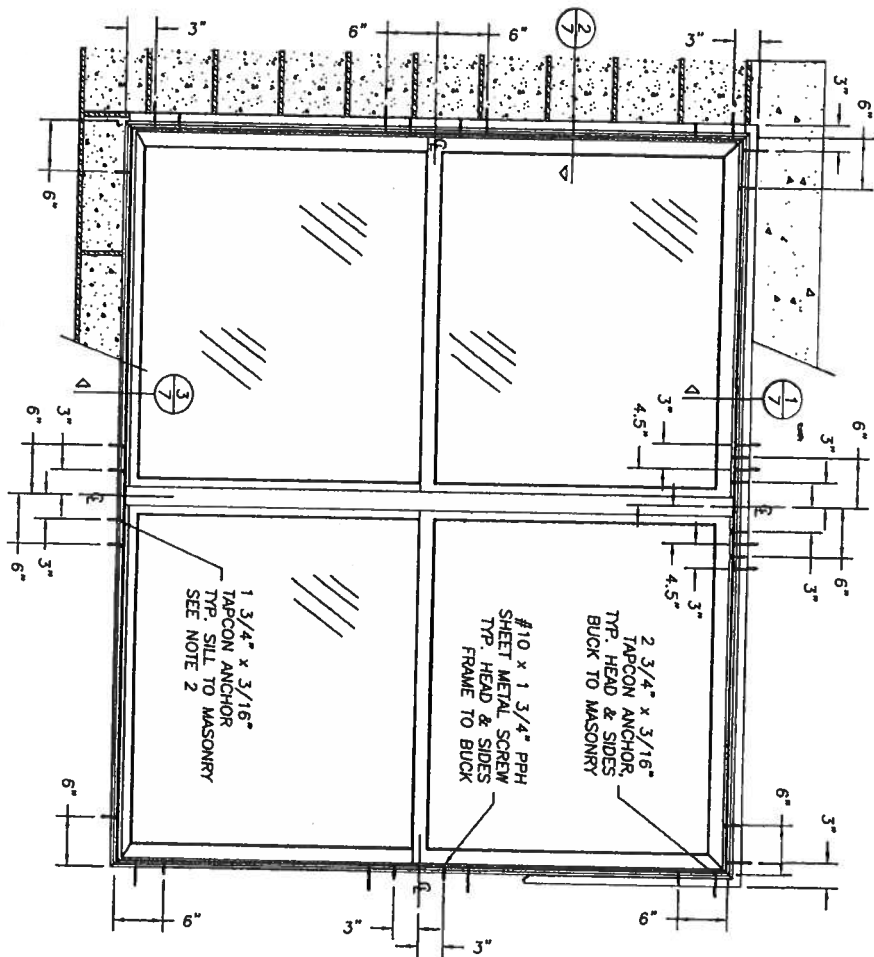
REVISIONS

[illegible]

CT:

PRODUCT: SILVERLINE 2910 SINGLE,
MULTIPLYED & TWIN EXTRUDED
VINYL SINGLE HUNG WINDOW
PART OR ASSEMBLY:
ANCHORING CROSS SECTIONS
1X BUCK TO MASONRY, TWIN

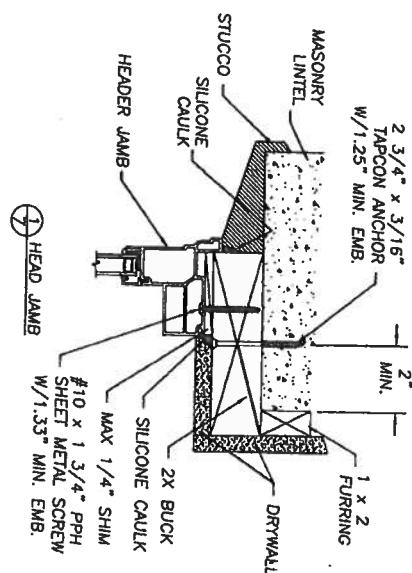
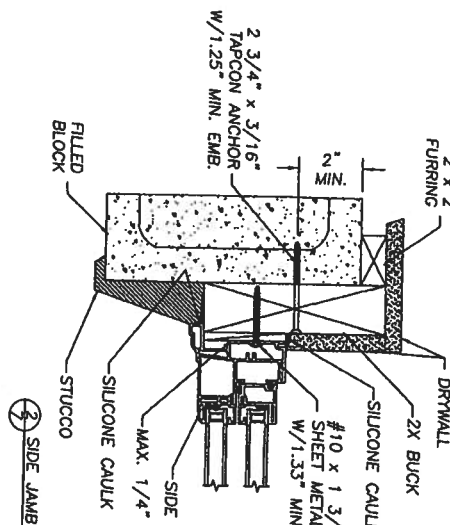
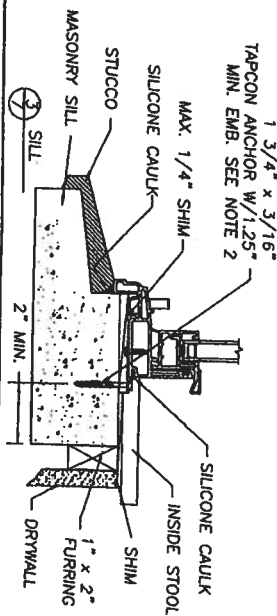
Documents Prepared By:
B.W.
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No: 813.659.8187
Florida Board of Professional Engineers
Certificate of Authorization No. 6873
Lyndon E. Schmidt, P.E. NO. 45308
01/09/02



APPLY A GENEROUS BEAD OF COMMERCIAL GRADE CONSTRUCTION ADHESIVE TO THE BACK OF THE FLANGE AROUND THE FULL PERIMETER AS SHOWN.



- NOTES:
1. Adjust Tapcon anchor locations, if necessary, to maintain a minimum 2" clearance from mortar joints.
 2. All anchors at the sill are through the sill strap anchor.



SHEET 2 OF 2		PRODUCT: SILVERLINE 2910 SINGLE, MULLED & TWIN EXTRUDED VINYL SINGLE HUNG WINDOW		Documents Prepared By: BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate Of Authorization No. BB13	
DATE 01/07/04		PART OR ASSEMBLY: ANCHORING CROSS SECTIONS 2X BUCK TO MASONRY, TWIN		01/09/04 Lyndon F. Schmidt, P.E. NO.43409	
SCALE: N.T.S.		BY:			
DWG. BY: T/H		NO. DATE			
CHK. BY: RW		REVISIONS			
DRAWING NO.: FL-140					

John Weegie

**Columbia County Building Department
Culvert Waiver**

**Culvert Waiver No.
000001181**

DATE: 08/10/2006

BUILDING PERMIT NO. 24849

APPLICANT CHIP MILLER PHONE 386.755.9816

ADDRESS 321 NW COLE TERRACE LAKE CITY FL 32055

OWNER LOUIS & SANDRA MUNOZ PHONE 404.964.6087

ADDRESS 316 SW MARIA MARIE GLEN LAKE CITY FL 32024

CONTRACTOR EBE WALTER-PENNYWORTH HOMES PHONE 800.879.1799

LOCATION OF PROPERTY SR-247-S TO C-240, TL TO PINE RIDGE, TL TO 1/2 MILE TO DIRT RD, GO 1/4

MILE TO JOB SITE. _____

SUBDIVISION/LOT/BLOCK/PHASE/UNIT _____

PARCEL ID # 12-5S-15-00447-304

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: *[Signature]*

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE
CULVERT WAIVER IS:

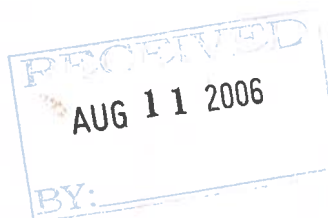
APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: PRIVATE ROAD.

SIGNED: *Willie Mante* DATE: 8-18-06

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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



**HOMETEAM**

PEST DEFENSE®

TREATMENT WORKORDER

24849

- ☐ Termite Baiting System w/Tubes-under-the slab
☐ Treat Only ☐ Tubes-under-the slab and Treat ☒ Bora-Care

DATE CALLED IN:	1/3	DATE OF SCHEDULE:	1/4/07
TIME CALLED IN:		TIME SCHEDULE:	

JOB NAME: <u>Pennyworth</u>		SUBDIVISION:	
JOB ADDRESS: <u>321 SW PINE Ridge CT</u>			
<u>Lake City</u>			
BILLING NAME:		BILLING PHONE:	
BILLING ADDRESS:			
CALLED IN BY:		PHONE:	PERMIT NUMBER:

LOT & MODEL NUMBER: _____

DATE & TIME COMPLETED: 1-4-07

SQUARE FOOT: _____ LINEAR FOOT: _____ BLOCKVOIDS: _____

SLAB TYPE: _____ TYPE OF FILL: _____

APPROX. DEPTH OF FOOTING: Outside: _____ Inside: _____

- ☐ Addition ☐ Spot Treat ☐ Pool Addition ☐ Driveway
☒ Final/Completion ☐ Other

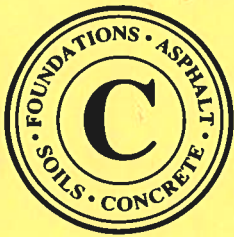
PESTICIDE USED: BORACARE TOTAL APPLIED: 4 gallonsPERCENT (%) USED: .23% STICKER POSTED: yes/box

PRICE PER SQ. FT. =	TOTAL FOR P.T.	
	ADDITIONAL	
	TAX:	
	TOTAL AMOUNT \$	

X TECHNICIAN: B. R.

I hereby acknowledge the satisfactory completion of the above described work.

12/05



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32256

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

24849

"Excellence in Engineering & Geoscience"

JOB NO: 06-591

DATE TESTED: 10-18-06

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: ✓ D-2922 (Nuclear) D-2937 (Drive Cylinder) Other

PROJECT: Munoz Res.

CLIENT: Munoz Res. Pennyworth Hms

GENERAL CONTRACTOR: SAC EARTHWORK CONTRACTOR: SAC

SOIL USE: ① SPECIFICATION REQUIREMENTS: _____

TECHNICIAN: P. Geiger

MODIFIED (ASTM D-1557): ✓ STANDARD (ASTM D-698): _____

TEST NO.	TEST LOCATION	TEST DEPTH ELEV. LIFT#	PROCTOR NO.	WET DENS. LBS.CU.FT.	DRY DENS. LBS.CU.FT.	MOIST. PERCENT	% MAX.DENS.
1	10'W x 7'S of NE Corner	12"	107.1	104.1	101.8	2.3	95.4
2	12'E x 10'S of NW Corner	12"	107.1	107.3	103.5	3.7	96.6
3	15'E x 10'N of SW Corner	12"	107.1	106.2	103.4	2.7	96.5
4	12'W x 7'N of SE Corner	12"	107.1	105.0	102.6	2.3	95.8

REMARKS: Not Official until Signed By Engineer.

PROCTOR NO.	SOIL DESCRIPTION	PROCTOR VALUE	OPT. MOIST.
<u>(*)</u>	<u>4. Tan Sand</u>	<u>107.1</u>	<u>10.8</u>
	<u>(from Richardson Site Prep Pt)</u>		

NOTE: SOIL USES: 1. Building Pad Fill 2. Trench Backfill 3. Base Course 4. Subbase-Stabilized Subgrade 5. Embankment
6. Subgrade - Natural Soil 7. Other

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgment should be exercised with regard to the use and interpretation of the data.



HOMETEAM
PEST DEFENSE®

Permit # 000024849

Homeowner: Munoz, Louis S. Sandra.

Address: 316 S.W. Maria Marie Glen
Lake City, FL 32024

Notice of Intent For Preventative Treatments for Termites
(as required by Florida Building Code (FBC) 104.2.6)

(Address of Treatment or Lot/Block of Treatment)

10-13-06
Date

BORA-CARE Termiticide (Wood Treatment)
Product Used

Disodium Octaborate Tetrahydrate
Chemical used (active ingredient)

23% Active Ingredient
Percent Concentration

Application will be performed onto structural wood at dried-in stage of construction
Stage of treatment (Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)

BORA-CARE Termiticide application shall be applied according to EPA registered label directions
as stated in the Florida Building Code Section 1816.1.8.

**(INFORMATION TO BE PROVIDED TO LOCAL BUILDING CODE OFFICES PRIOR TO
CONCRETE FOUNDATION INSTALLATION)**

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3:13:05 PM

Licensee Details**Licensee Information**

Name: **WALTER, EBE (Primary Name)**
PENNYWORTH HOMES INC (DBA Name)
Main Address: **679 BLACKSHEAR ROAD**
THOMASVILLE Georgia 31792
County: **OUT OF STATE**

License Mailing:

LicenseLocation: **679 BLACKSHEAR ROAD**
THOMASVILLE GA 31792
County: **OUT OF STATE**

License Information

License Type: **Certified Residential Contractor**
Rank: **Cert Residential**
License Number: **CRC058477**
Status: **Current,Active**
Licensure Date: **09/21/2001**
Expires: **08/31/2006**

Special
Qualifications
Bldg Code Core
Course Credit

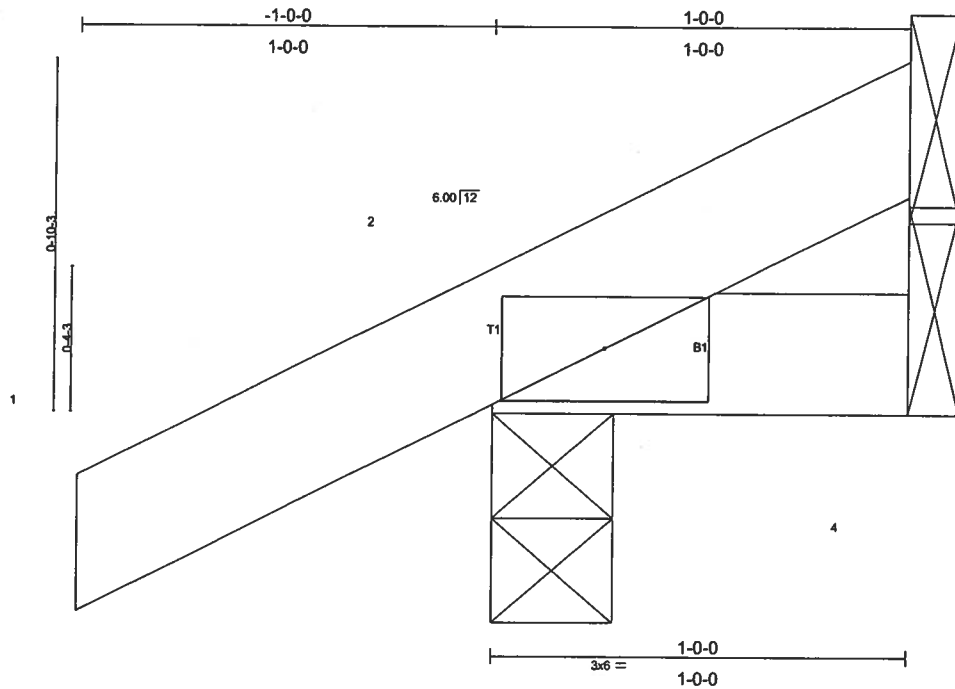
Qualification Effective[View Related License Information](#)[View License Complaint](#)[Terms of Use](#) | [Privacy Statement](#)

Job L201610	Truss CJ1	Truss Type JACK	Qty 12	Ply 1	PENNYWORTH-MUNOZ
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:39 2006 Page 1



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

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.07	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: 5 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" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS

(lb/size) 2=126/0-3-8, 4=14/Mechanical, 3=-4/Mechanical
Max Horz 2=54(load case 5)
Max Uplift 2=116(load case 5), 4=-9(load case 3), 3=-4(load case 8)
Max Grav 2=126(load case 1), 4=14(load case 1), 3=13(load case 5)

FORCES

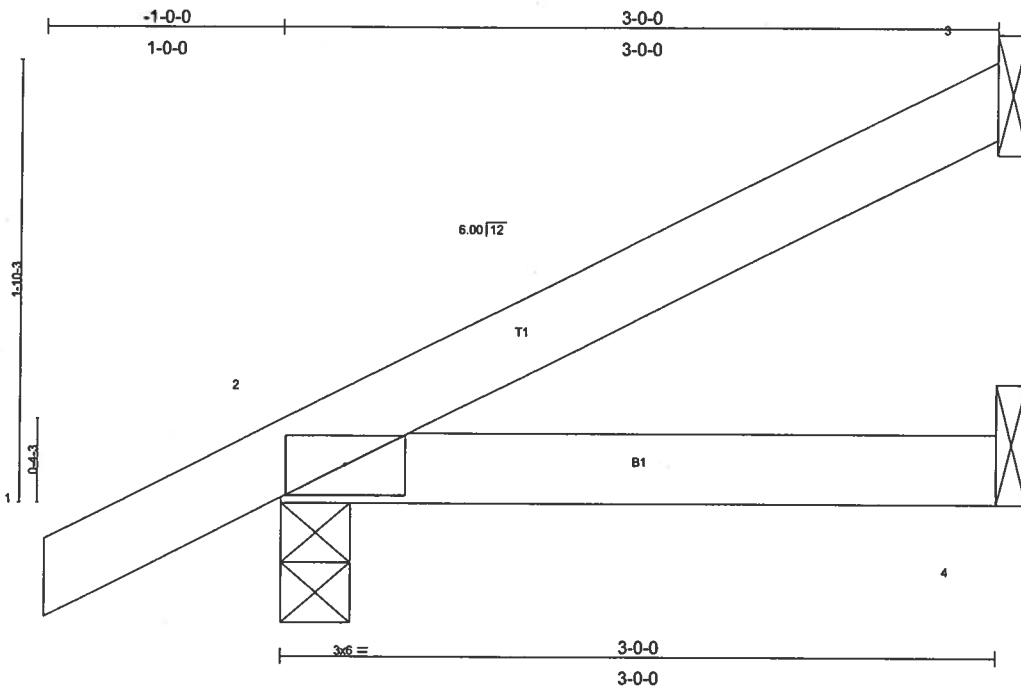
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-27/6
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2, 9 lb uplift at joint 4 and 4 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L201610	Truss CJ3	Truss Type JACK	Qty 12	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:40 2006 Page 1		



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

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCDL 20.0	2-0-0	TC 0.08	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(TL)	0.01	2-4	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 11 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=63/Mechanical, 2=192/0-3-8, 4=42/Mechanical
Max Horz 2=99(load case 5)
Max Uplift 3=56(load case 5), 2=140(load case 5), 4=27(load case 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-55/23
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 3, 140 lb uplift at joint 2 and 27 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L201610	Truss CJ5	Truss Type JACK	Qty 12	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:41 2006 Page 1		

Scale = 1:13.1

Plate Offsets (X,Y): [2-0-0-0-0-0]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.24	Vert(LL) 0.09 2-4 >663 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) 0.07 2-4 >774 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 18 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=122/Mechanical, 2=271/0-3-8, 4=72/Mechanical
 Max Horz 2=145(load case 5)
 Max Uplift 3=112(load case 5), 2=-179(load case 5), 4=-46(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=-102/45
 BOT CHORD 2-4=0/0

NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) Refer to girder(s) for truss to truss connections.
 3) All bearings are assumed to be SYP No.2
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 3, 179 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L201610	Truss EJ7	Truss Type MONO TRUSS	Qty 30	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:41 2006 Page 1		

Scale = 1:18.0

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.48	Vert(LL)	0.32	2-4	>257	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.44	Vert(TL)	0.26	2-4	>312	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 24 lb	

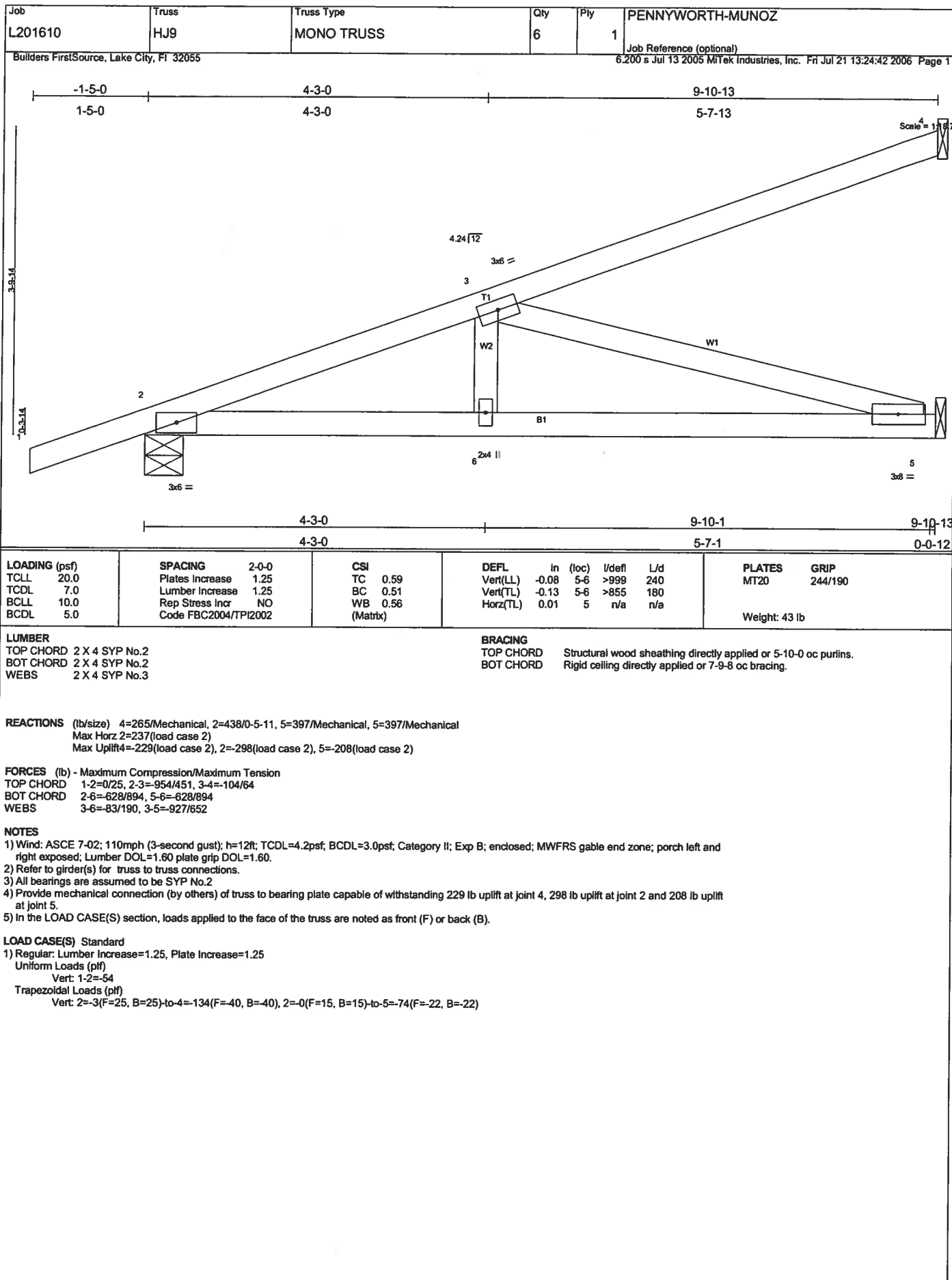
LUMBER TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2	BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
---	---

REACTIONS (lb/size) 3=169/Mechanical, 2=352/0-3-8, 4=111/Mechanical
 Max Horz 2=192(load case 5)
 Max Uplift 3=152(load case 5), 2=222(load case 5), 4=76(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=96/61
 BOT CHORD 2-4=0/0

NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) Refer to girder(s) for truss to truss connections.
 3) All bearings are assumed to be SYP No.2
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 3, 222 lb uplift at joint 2 and 76 lb uplift at joint 4.

LOAD CASE(S) Standard



Job L201610	Truss T02	Truss Type HIP	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:43 2006 Page 1		

Horizontal Dimensions (ft):

-1-0-0 | 3-9-4 | 7-0-0 | 13-0-0 | 16-2-12 | 20-0-0 | 21-0-0

Vertical Dimensions (ft):

1-0-0 | 3-9-4 | 3-2-12 | 6-0-0 | 3-2-12 | 3-9-4 | 1-0-0

Scale = 1:36.9

Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-1-11,Edge], [10:0-3-0,0-3-0]					
LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.71	Vert(LL) -0.14 7-9 >999 240		
BCLL 10.0	Rep Stress Incr NO	WB 0.25	Vert(TL) -0.23 7-9 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.09 7 n/a n/a		
Weight: 99 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 3-0-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 5-11-1 oc bracing.

REACTIONS (lb/size) 2=1720/0-3-8, 7=1720/0-3-8
 Max Horz 2=68(load case 4)
 Max Uplift 2=746(load case 4), 7=746(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=3148/1319, 3-4=3062/1303, 4-5=2821/1208, 5-6=3062/1303, 6-7=3148/1320, 7-8=0/23
 BOT CHORD 2-11=-1144/2746, 10-11=-1112/2768, 9-10=-1072/2768, 7-9=-1077/2746
 WEBS 3-11=-124/140, 4-11=-252/781, 4-10=-20/146, 5-10=-20/146, 5-9=-253/781, 6-9=-125/140

NOTES

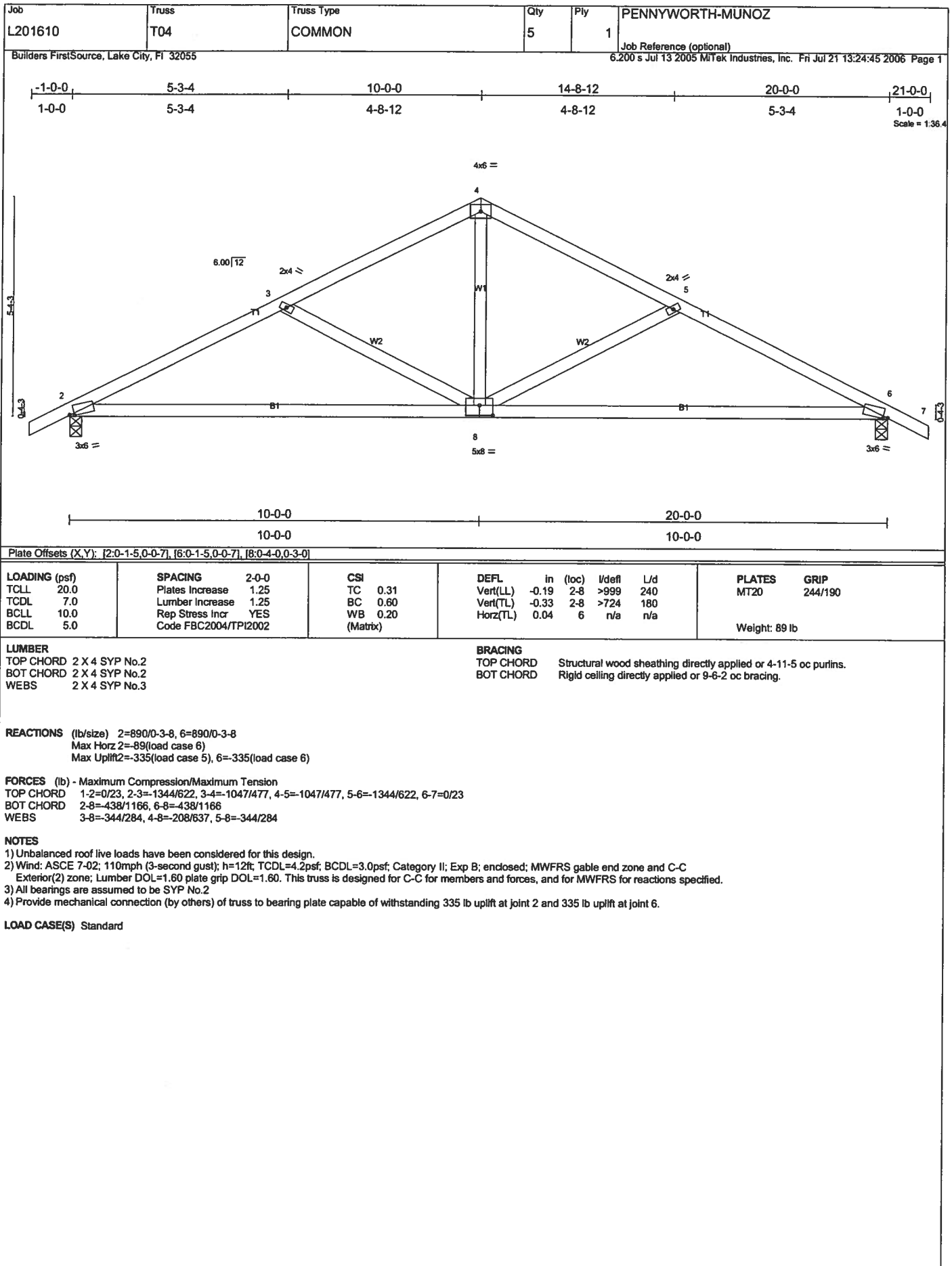
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 746 lb uplift at joint 2 and 746 lb uplift at joint 7.
- Girder carries hip end with 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 13-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (psf)
 Vert: 1-4=54, 4-5=118(F=64), 5-8=54, 2-11=30, 9-11=65(F=35), 7-9=30

Concentrated Loads (lb)
 Vert: 11=539(F) 9=539(F)



Job L201610	Truss T05	Truss Type COMMON	Qty 1	Ply 3	PENNYWORTH-MUNOZ Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:47 2006 Page 1		

Scale = 1:41.6

Plate Offsets (X,Y): [10:0-3-8,0-4-0], [11:0-5-0,0-6-0], [12:0-3-8,0-4-0]					
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LOADING (psf) TCCL 20.0 TCCL 7.0 BCCL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2004/TPI2002	CSI TC 0.28 BC 0.32 WB 0.73 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.15 10-11 >999 240 Vert(TL) -0.25 10-11 >999 180 Horiz(TL) 0.05 8 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 498 lb
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LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 8 SYP 2400F 2.0E

WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS (lb/size) 8=6913/0-3-8, 2=5348/0-3-8
 Max Horiz 2=122(load case 4)
 Max Uplift 8=2558(load case 5), 2=-2010(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/29, 2-3=-11223/4105, 3-4=-10545/3909, 4-5=-7983/3007, 5-6=-7984/3004, 6-7=-10431/3873, 7-8=-12605/4651
 BOT CHORD 2-13=-3711/10026, 13-14=-3711/10026, 12-14=-3711/10026, 11-12=-3434/9399, 10-11=-3325/9298, 9-10=-4122/11285, 8-9=-4122/11285
 WEBS 3-13=-73/375, 3-12=-720/315, 4-12=-1217/3340, 4-11=-3293/1304, 5-11=-2534/6832, 6-11=-3147/1253, 6-10=-1161/3181, 7-10=-2266/913, 7-9=-623/1750

NOTES

- 1) 3-ply truss to be connected together with 0.131"x3" Nails as follows:
 Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 8 - 3 rows at 0-4-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCCL=4.2psf; BCCL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 5) All bearings are assumed to be SYP No.2
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2558 lb uplift at joint 8 and 2010 lb uplift at joint 2.
- 7) Girder carries tie-in span(s): 26-0-0 from 8-0-0 to 24-0-0
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2404 lb down and 908 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-54, 5-8=-54, 2-12=-30, 8-12=-528(F=498)
 Concentrated Loads (lb)
 Vert: 14=-2404(F)

Job L201610	Truss T06	Truss Type MONO HIP	Qty 1	Ply 1	PENNYWORTH-MUNOZ Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:48 2006 Page 1
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Scale = 1:46.3

LOADING (psf) TCCL 20.0 TCDL 7.0 BCCL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2004/TPI2002	CSI TC 0.71 BC 0.98 WB 0.70 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.27 10-12 >999 240 Vert(TL) -0.43 10-12 >724 180 Horz(TL) 0.14 8 n/a n/a	PLATES GRIP MT20 244/190 MT18H 244/190 Weight 137 lb
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BRACING TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 4-5-10 oc bracing. WEBS 1 Row at midpt 6-8	
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REACTIONS (lb/size) 8=2404/Mechanical, 2=2215/0-3-8
 Max Horz 2=194(load case 4)
 Max Uplift 8=1082(load case 3), 2=920(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=-4235/1785, 3-4=-3754/1650, 4-5=-4156/1864, 5-6=-4156/1864, 6-7=-81/36, 7-8=-264/206
 BOT CHORD 2-13=-1629/3696, 12-13=-2022/4503, 11-12=-2022/4503, 10-11=-2022/4503, 9-10=-1209/2687, 8-9=-1209/2687
 WEBS 3-13=-535/1403, 4-13=-942/526, 4-12=0/291, 4-10=-435/214, 5-10=-543/434, 6-10=-822/1845, 6-9=0/298, 6-8=-3273/1473

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCCL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) All bearings are assumed to be SYP No.2
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1082 lb uplift at joint 8 and 920 lb uplift at joint 2.
- 7) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 3-7=-118(F=64), 2-13=-30, 8-13=-65(F=35)
 Concentrated Loads (lb)
 Vert: 13=-539(F)

Job L201610	Truss T07	Truss Type MONO HIP	Qty 1	Ply 1	PENNYWORTH-MUNOZ Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:49 2006 Page 1		

Scale = 1/4" = 1'-0"

Plate Offsets (X,Y): [2-0-8-0-0-0-6]					
LOADING (psf) TCDL 20.0 TCDL 7.0 BCDL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2004/TPI2002	CSI TC 0.53 BC 0.55 WB 0.37 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.18 2-11 >999 240 Vert(TL) -0.31 2-11 >999 180 Horiz(TL) 0.06 8 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 136 lb	

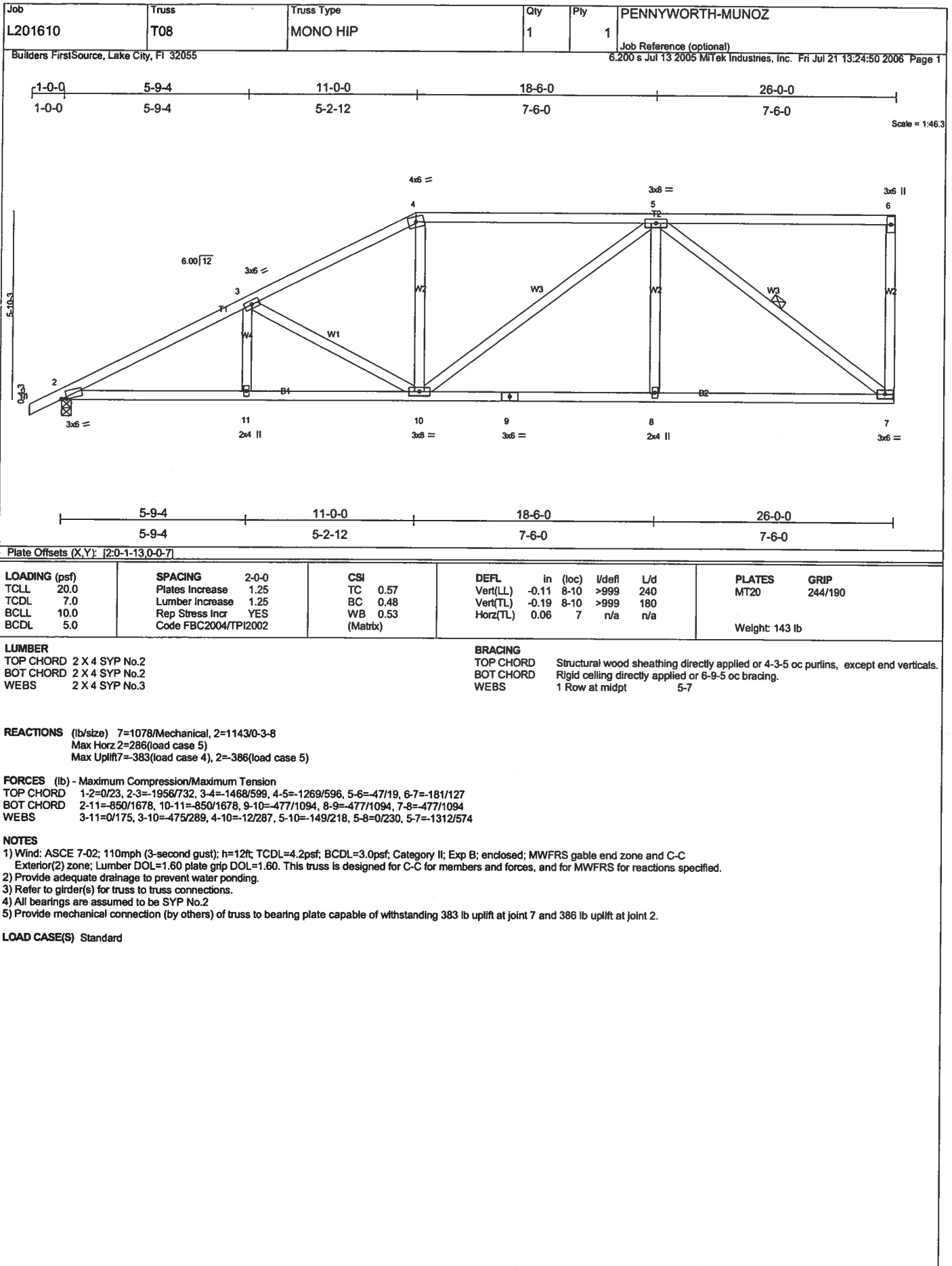
LUMBER TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3	BRACING TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-10-5 oc bracing. WEBS 1 Row at midpt 6-8
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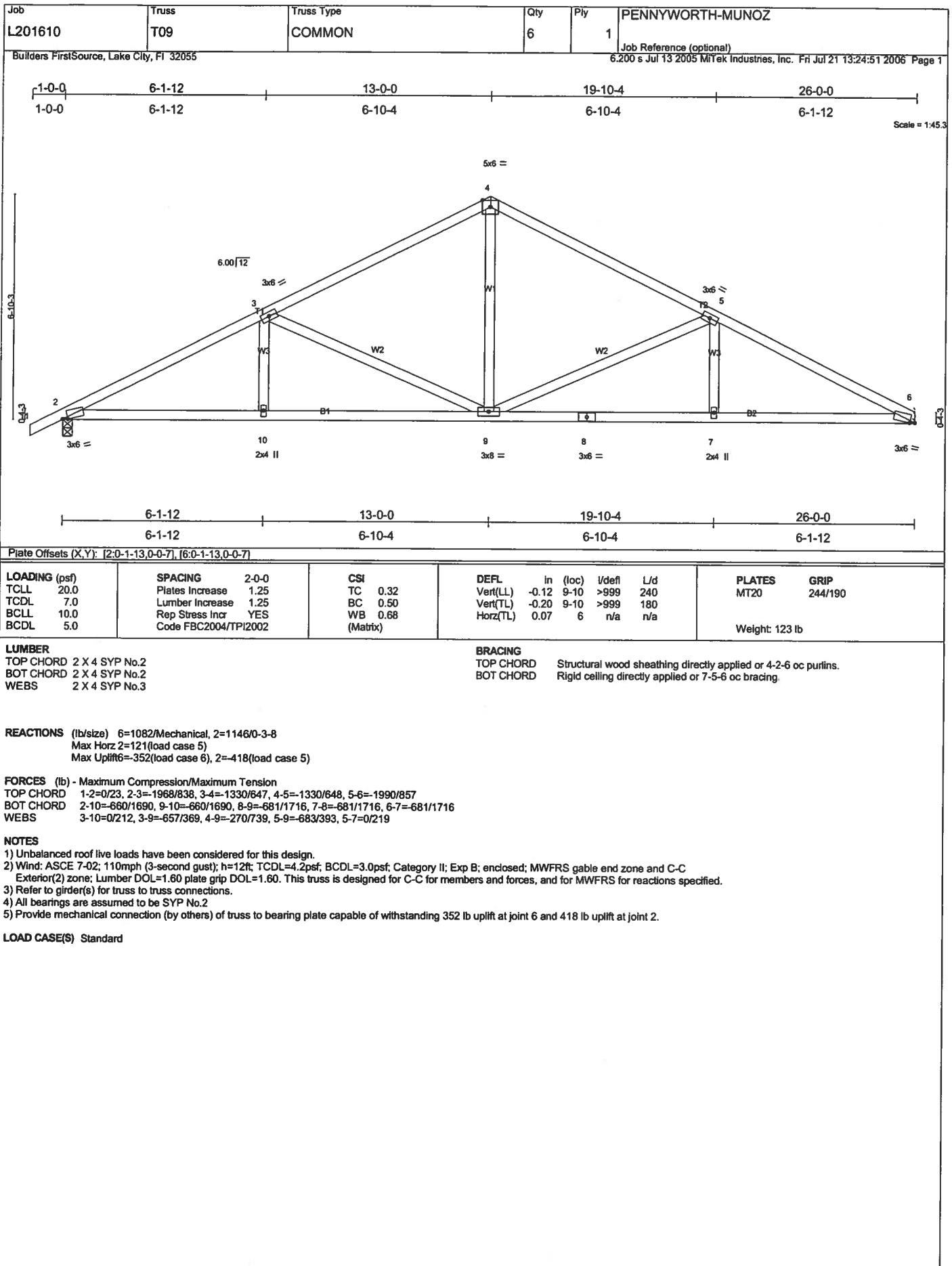
REACTIONS (lb/size) 8=1078/Mechanical, 2=1143/0-3-8
 Max Horiz 2=240(load case 5)
 Max Uplift 8=391(load case 4), 2=378(load case 5)

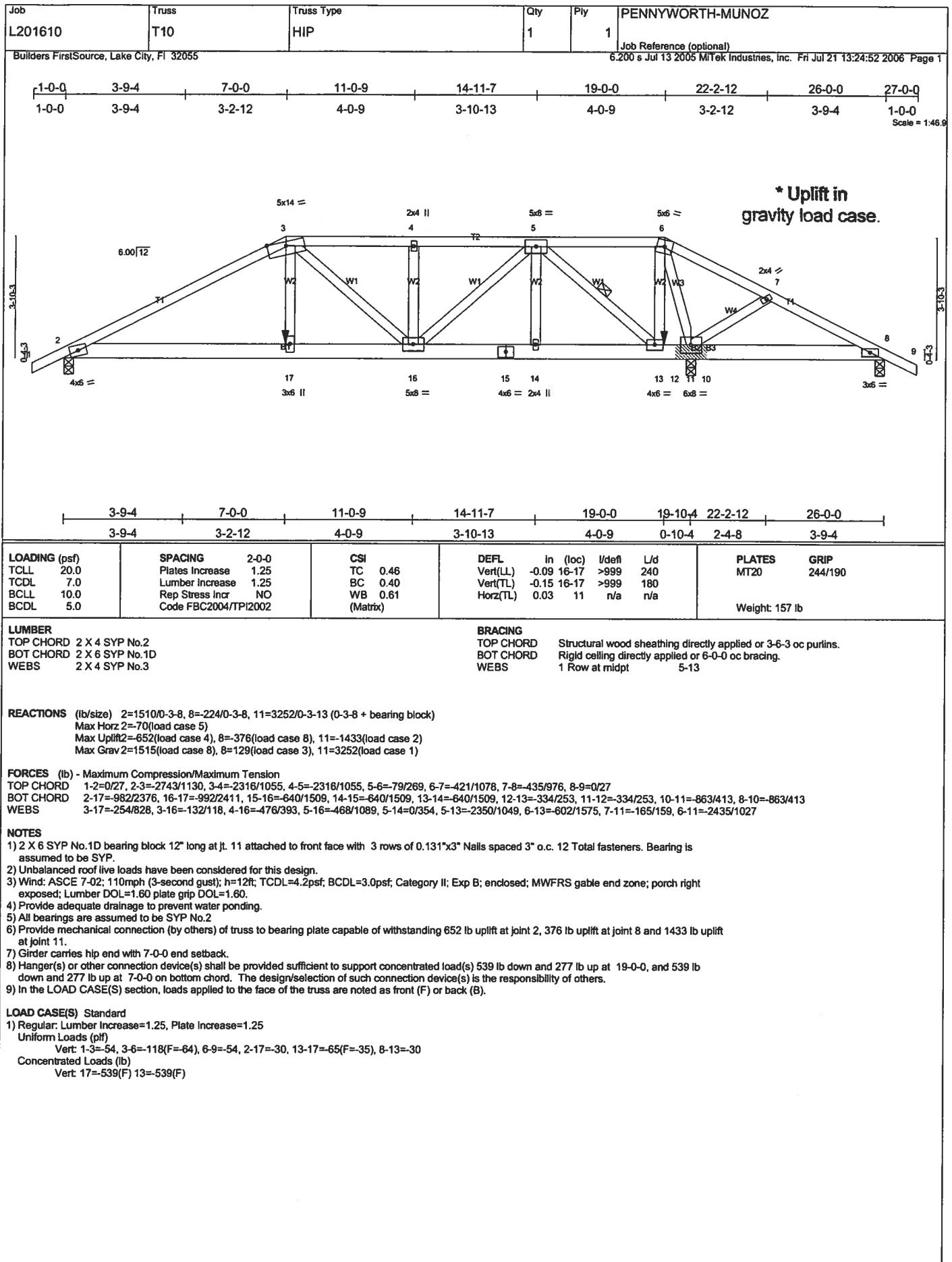
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=1907/780, 3-4=1655/656, 4-5=1448/641, 5-6=1368/552, 6-7=57/10, 7-8=150/100
 BOT CHORD 2-11=852/1664, 10-11=667/1517, 9-10=667/1517, 8-9=470/1066
 WEBS 3-11=260/241, 4-11=83/450, 5-11=90/152, 5-9=286/221, 6-9=156/579, 6-8=1290/589

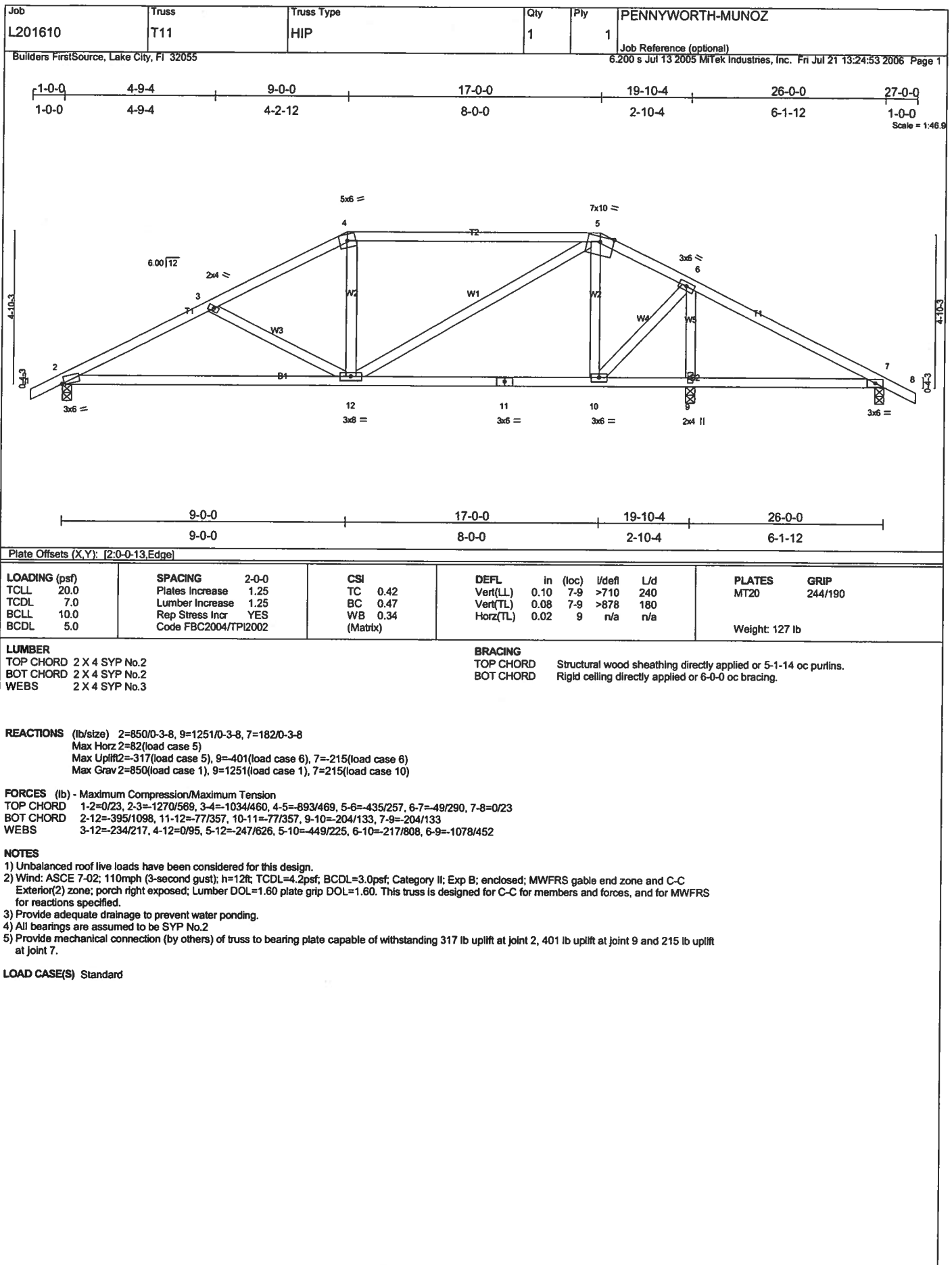
NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) Provide adequate drainage to prevent water ponding.
 3) Refer to girder(s) for truss to truss connections.
 4) All bearings are assumed to be SYP No.2
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 391 lb uplift at joint 8 and 378 lb uplift at joint 2.

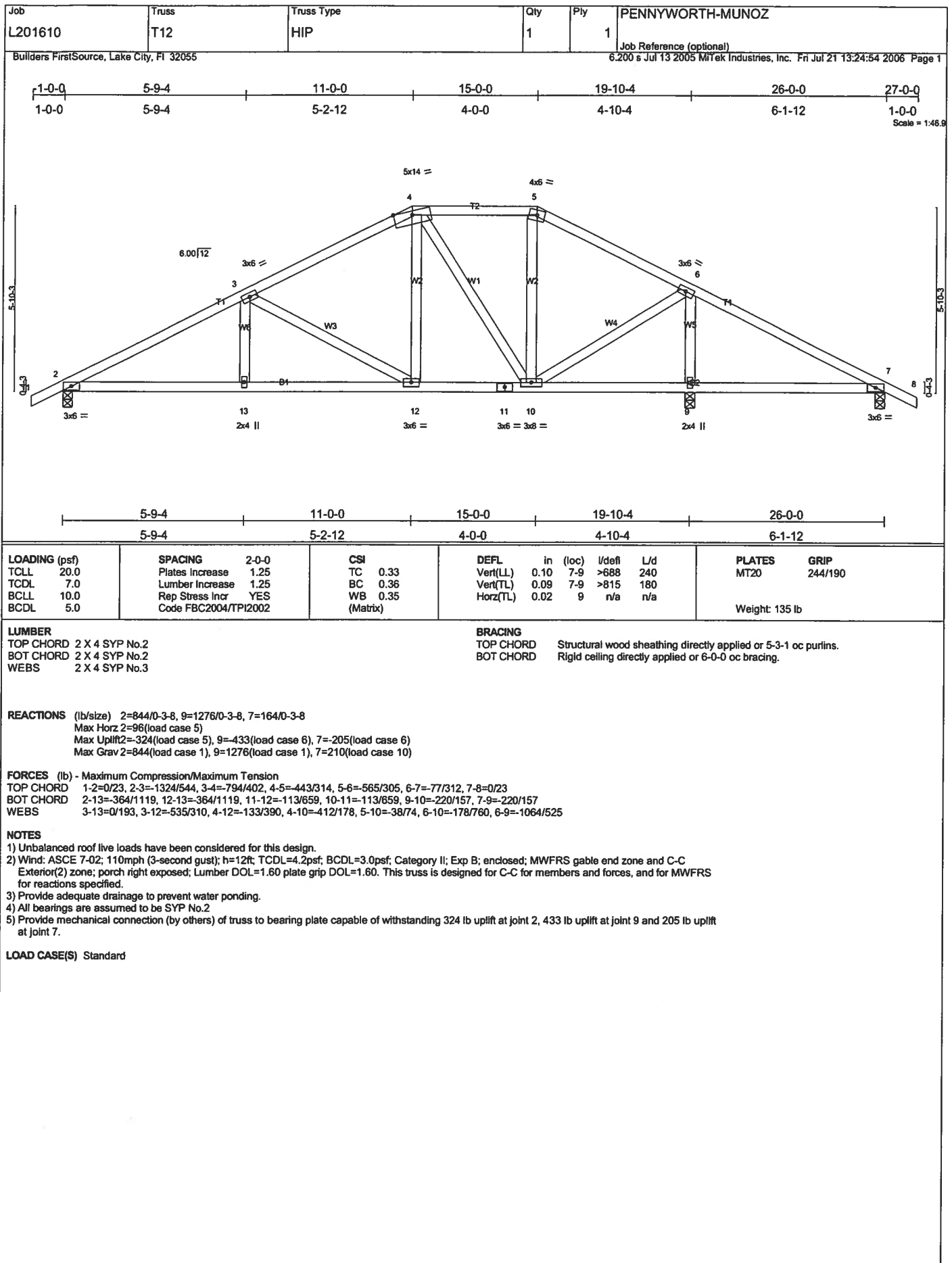
LOAD CASE(S) Standard



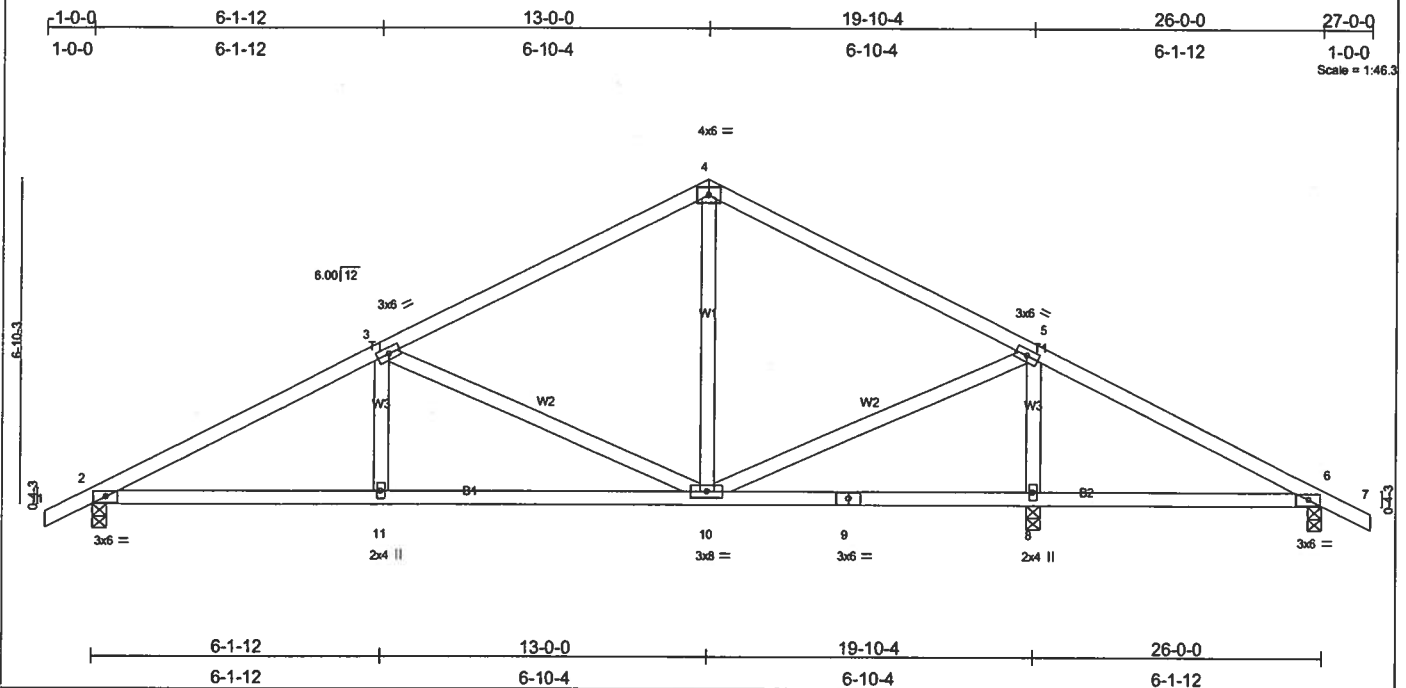








Job L201610	Truss T13	Truss Type COMMON	Qty 5	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Fri Jul 21 13:24:55 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.41	Vert(LL) 0.11 6-8 >674 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.67	Vert(TL) 0.09 6-8 >772 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 8 n/a n/a		
	Code FBC2004/TPI2002			Weight: 125 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=849/0-3-8, 8=1254/0-3-8, 6=180/0-3-8
 Max Horz 2=110(load case 5)
 Max Uplift 2=333(load case 5), 8=450(load case 6), 6=205(load case 6)
 Max Grav 2=849(load case 1), 8=1254(load case 1), 6=220(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=-1327/562, 3-4=-674/357, 4-5=-675/359, 5-6=-61/261, 6-7=0/23
 BOT CHORD 2-11=-385/1122, 10-11=-385/1122, 9-10=-177/139, 8-9=-177/139, 6-8=-177/139
 WEBS 3-11=0/217, 3-10=-673/386, 4-10=-16/203, 5-10=-185/751, 5-8=-1029/549

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 2, 450 lb uplift at joint 8 and 205 lb uplift at joint 6.

LOAD CASE(S) Standard

Job L201610	Truss T14	Truss Type MONO HIP	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Fri Jul 21 13:24:56 2006 Page 1		

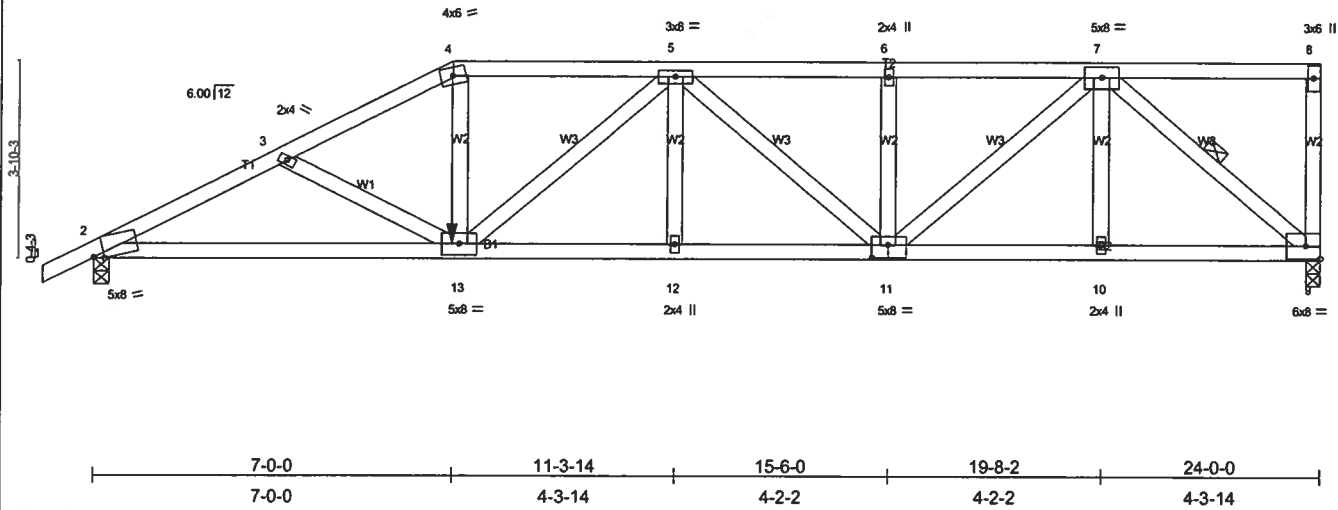
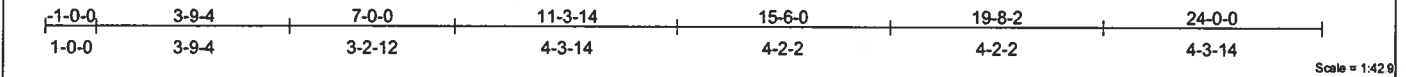


Plate Offsets (X,Y): [2:0-2-7,Edge], [11:0-3-12,0-3-0]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.88	Vert(LL) -0.20 11-12 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.58	Vert(TL) -0.33 11-12 >865 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.12 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 134 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 3-0-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-9-13 oc bracing.
 WEBS 1 Row at midpt 7-9

REACTIONS (lb/size) 9=2226/0-3-8, 2=2028/0-3-8
 Max Horz 2=194(load case 4)
 Max Uplift 9=1001(load case 3), 2=847(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=-3815/1574, 3-4=-3701/1591, 4-5=-3348/1473, 5-6=-3499/1567, 6-7=-3499/1567, 7-8=-65/29, 8-9=-236/183
 BOT CHORD 2-13=-1470/3336, 12-13=-1736/3872, 11-12=-1736/3872, 10-11=-1005/2236, 9-10=-1005/2236
 WEBS 3-13=-80/90, 4-13=-451/1268, 5-13=-688/379, 5-12=0/258, 5-11=-490/243, 6-11=-479/385, 7-11=-738/1659, 7-10=0/265, 7-9=-2850/1282

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1001 lb uplift at joint 9 and 847 lb uplift at joint 2.
- 5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-8=-118(F=-64), 2-13=-30, 9-13=-65(F=-35)
 Concentrated Loads (lb)
 Vert: 13=-539(F)

Job L201610	Truss T15	Truss Type MONO HIP	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:24:57 2006 Page 1		

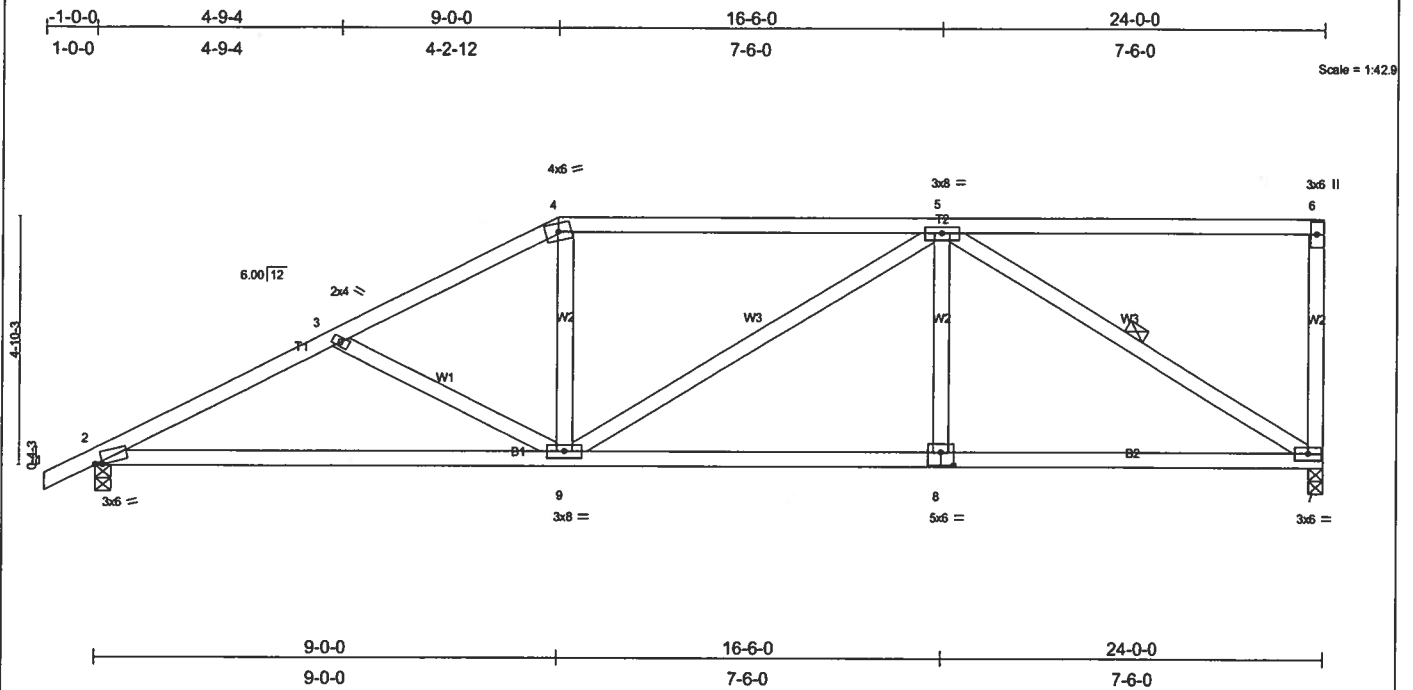


Plate Offsets (X,Y): [2:0-1-9,0-0-7], [8:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.62	Vert(LL)	-0.18	2-9	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.51	Vert(TL)	-0.30	2-9	>933	180		
BCCL 10.0	Rep Stress Incr YES	WB 0.48	Horz(TL)	0.05	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
									Weight: 126 lb

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

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

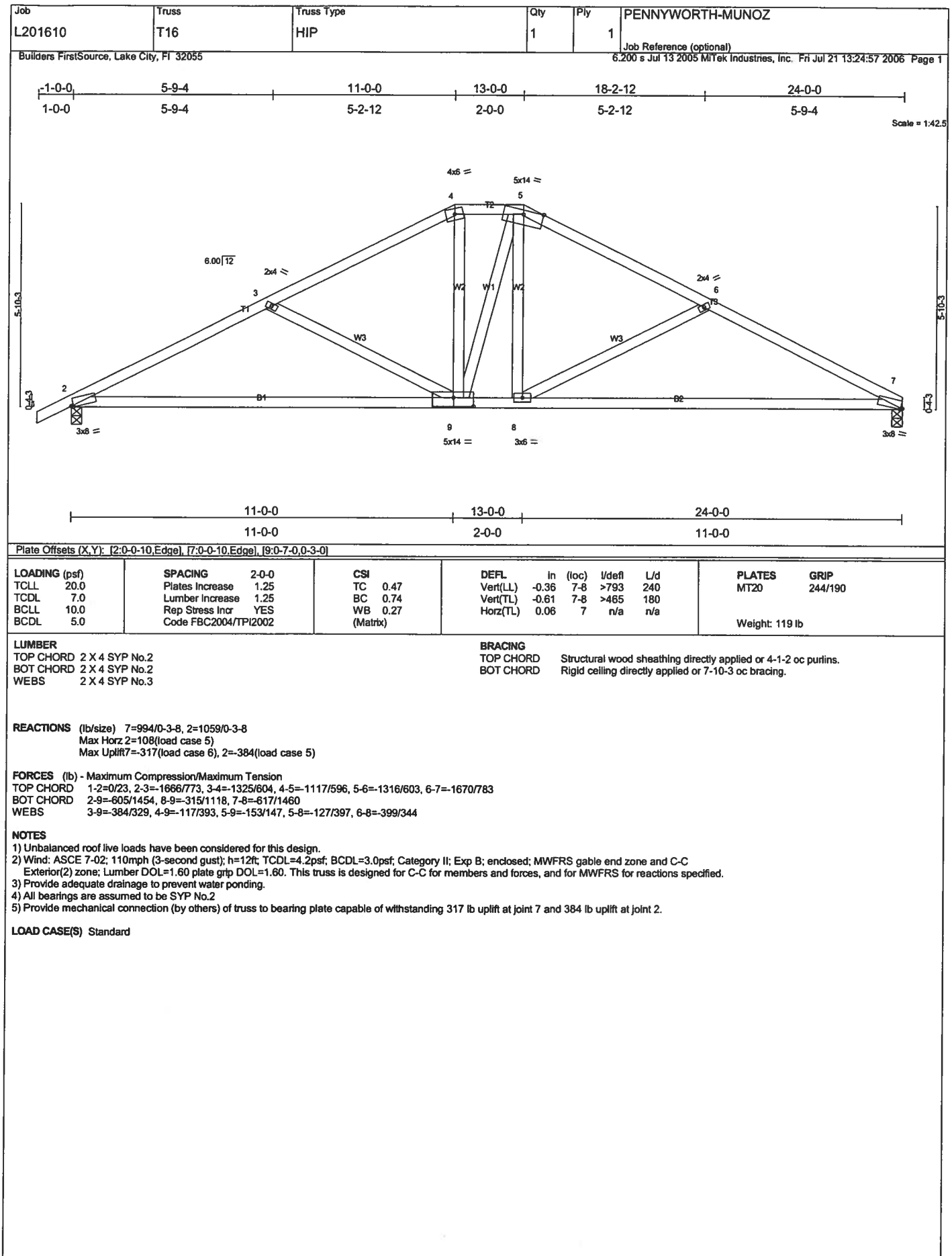
REACTIONS (lb/size) 7=994/0-3-8, 2=1059/0-3-8
 Max Horz 2=240(load case 5)
 Max Uplift 7=358(load case 4), 2=357(load case 5)

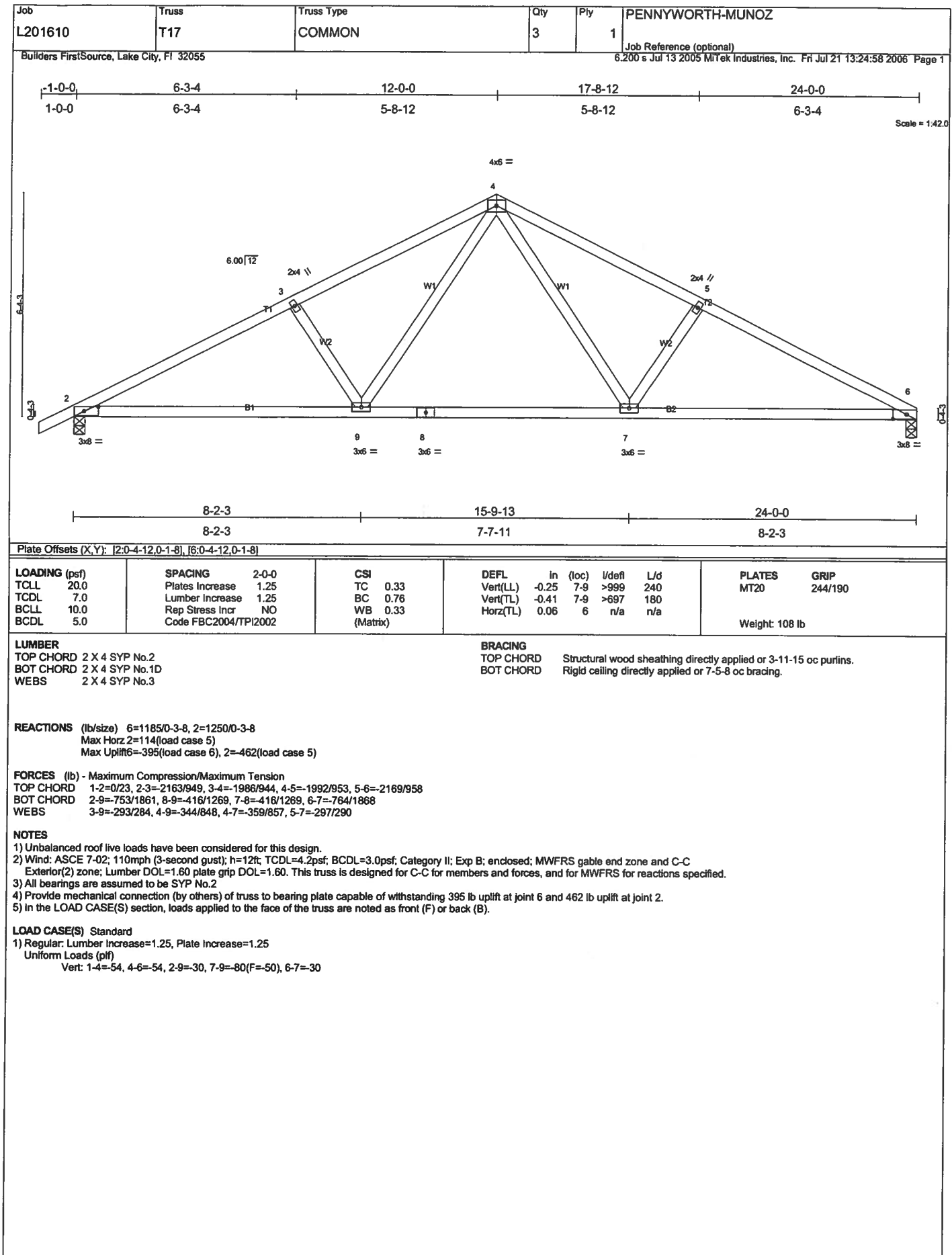
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=-1720/702, 3-4=-1479/587, 4-5=-1293/581, 5-6=-64/24, 6-7=-183/128
 BOT CHORD 2-9=-782/1497, 8-9=-511/1192, 7-8=-511/1192
 WEBS 3-9=-241/227, 4-9=-14/314, 5-9=-97/119, 5-8=0/208, 5-7=-1328/574

NOTES

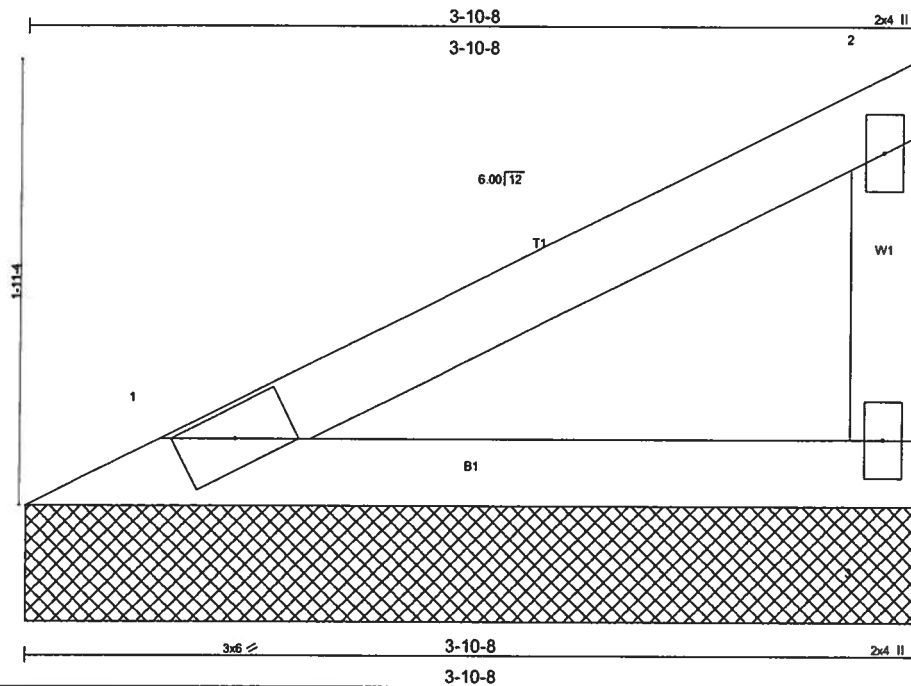
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 7 and 357 lb uplift at joint 2.

LOAD CASE(S) Standard





Job L201610	Truss V3A	Truss Type VALLEY	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jul 21 13:25:04 2006 Page 1		



Scale = 1:9.6

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.07	Vert(LL) n/a - n/a 999		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 n/a n/a		
	Code FBC2004/TPI2002			Weight: 13 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 3-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 1=131/3-10-8, 3=131/3-10-8
 Max Horz 1=72(load case 5)
 Max Uplift 1=31(load case 5), 3=67(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

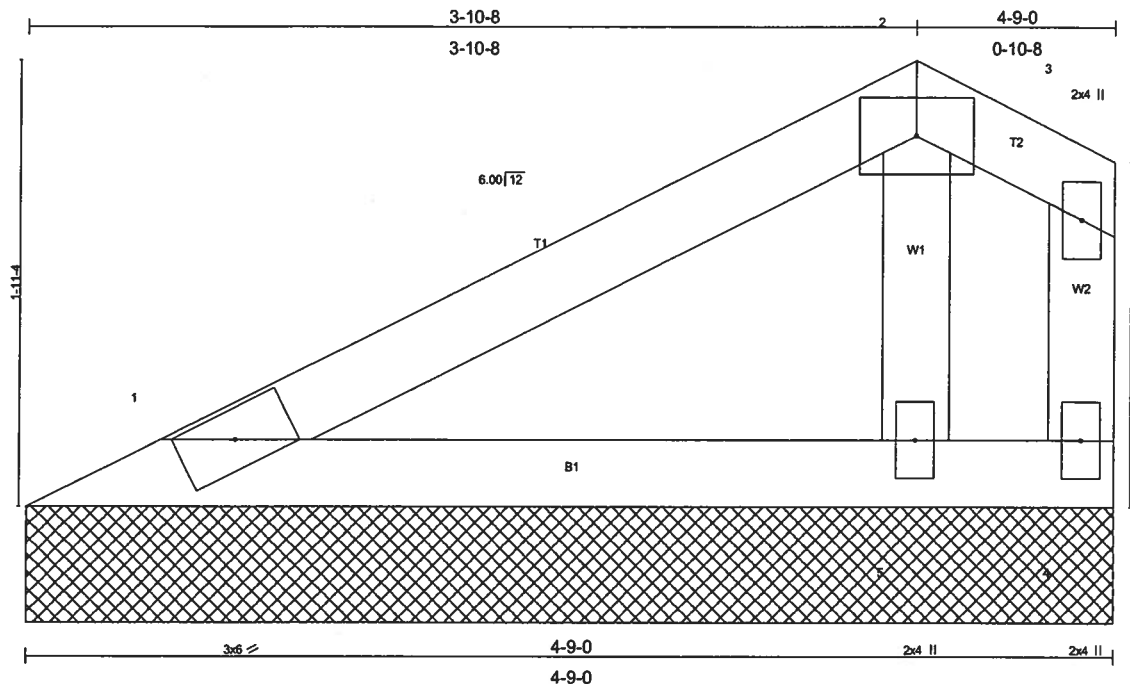
TOP CHORD 1-2=-65/30, 2-3=-84/122
 BOT CHORD 1-3=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 67 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L201610	Truss V04	Truss Type VALLEY	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITER Industries, Inc. Fri Jul 21 13:25:00 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.15	Vert(LL) n/a	-	n/a	999		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) n/a	-	n/a	999			
BCLL 10.0	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00	4	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 18 lb

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

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

REACTIONS (lb/size) 1=127/4-9-0, 4=-14/4-9-0, 5=223/4-9-0
 Max Horz 1=63(load case 5)
 Max Uplift 1=41(load case 5), 4=-29(load case 9), 5=-57(load case 5)

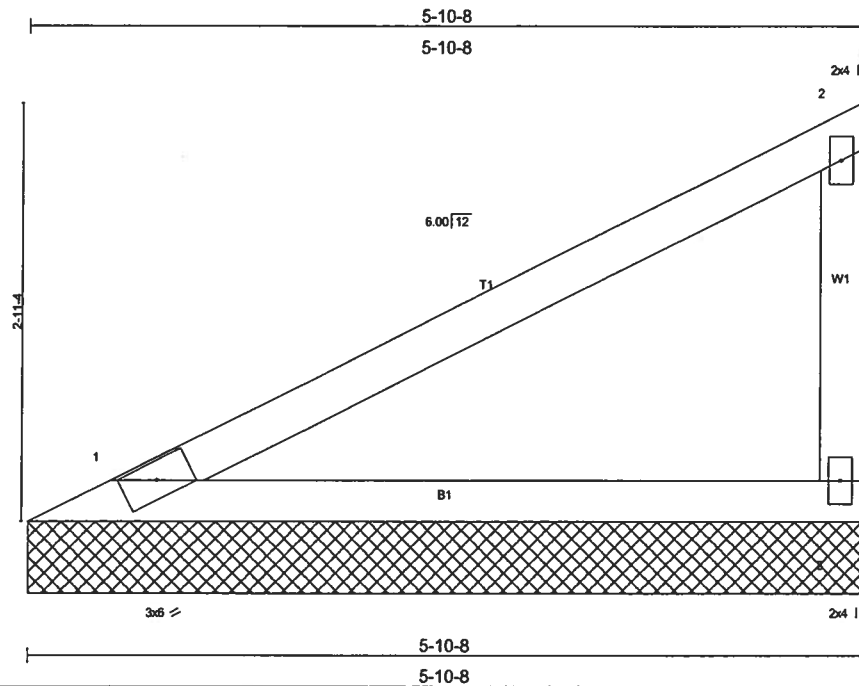
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-40/31, 2-3=-7/15, 3-4=-20/29
 BOT CHORD 1-5=-0/0, 4-5=0/0
 WEBS 2-5=-108/131

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02: 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Gable requires continuous bottom chord bearing.
- 4) All bearings are assumed to be SYP No.2
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 29 lb uplift at joint 4 and 57 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L201610	Truss V5A	Truss Type VALLEY	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Fri Jul 21 13:25:05 2006 Page 1		



Scale = 1:15.5

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.19	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	0.00		n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 21 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purtins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=215/5-10-8, 3=215/5-10-8
 Max Horz 1=118(load case 5)
 Max Uplift 1=52(load case 5), 3=-111(load case 5)

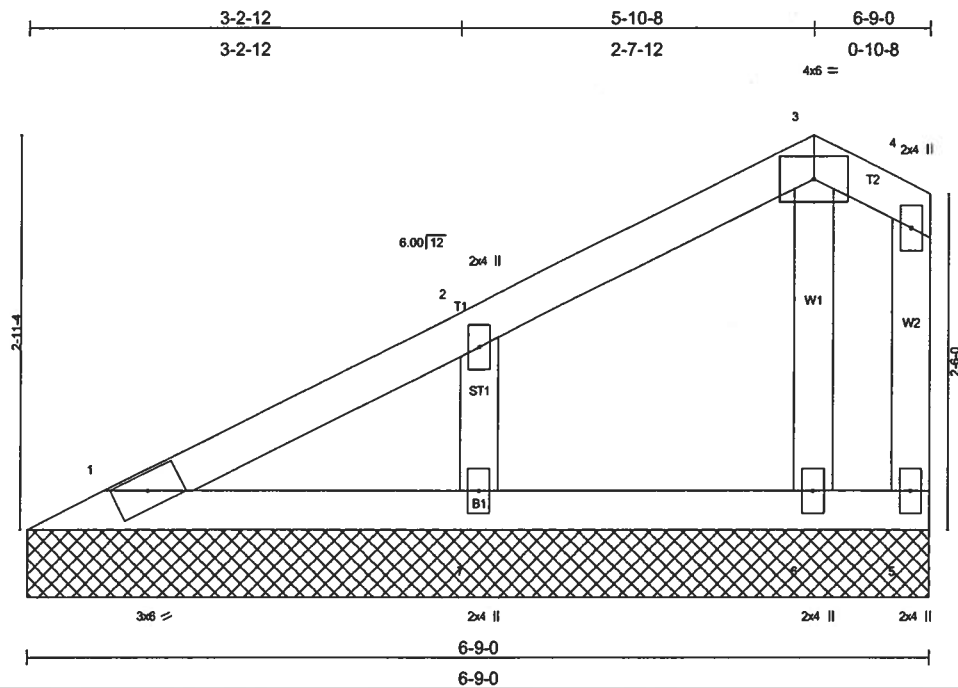
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-105/49, 2-3=-138/196
 BOT CHORD 1-3=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1 and 111 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L201610	Truss V06	Truss Type VALLEY	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Fri Jul 21 13:25:01 2006 Page 1		



Scale = 1:16.4

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.05	Vert(LL) n/a - n/a 999		
BCLL 10.0	Lumber Increase 1.25	WB 0.06	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 n/a n/a		
	Code FBC2004/TPI2002			Weight: 29 lb	

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

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

REACTIONS (lb/size) 1=90/6-9-0, 5=18/6-9-0, 7=271/6-9-0, 6=124/6-9-0
 Max Horz 1=110(load case 5)
 Max Uplift 5=18(load case 6), 7=143(load case 5), 6=33(load case 5)
 Max Grav 1=90(load case 9), 5=18(load case 1), 7=271(load case 1), 6=124(load case 1)

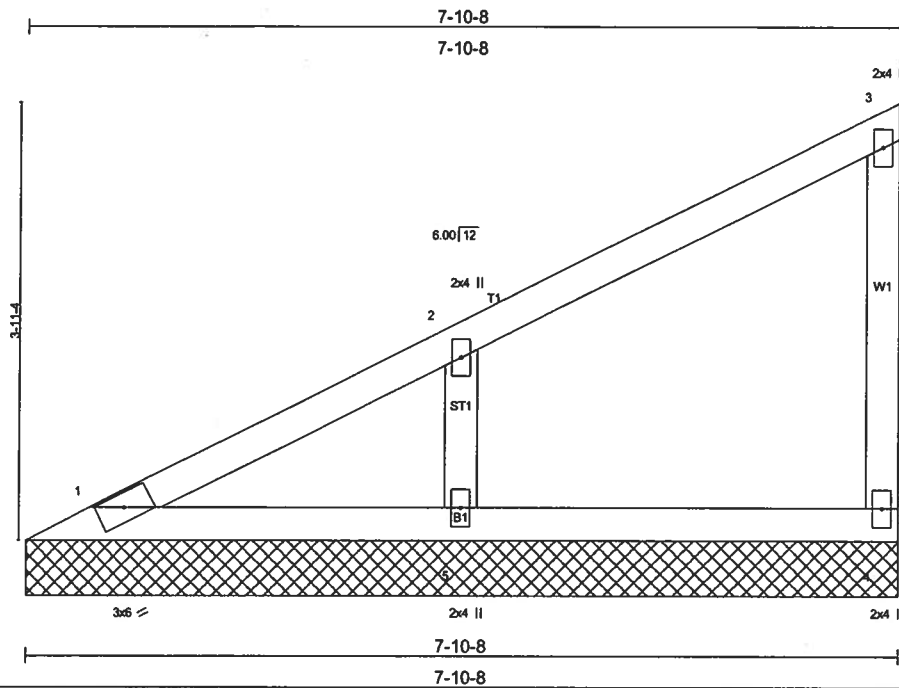
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-131/41, 2-3=-39/16, 3-4=-7/15, 4-5=-20/27
 BOT CHORD 1-7=0/0, 6-7=0/0, 5-6=0/0
 WEBS 2-7=-177/243, 3-6=-69/70

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Gable requires continuous bottom chord bearing.
- 4) All bearings are assumed to be SYP No.2
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 5, 143 lb uplift at joint 7 and 33 lb uplift at joint 6.

LOAD CASE(S) Standard

Job L201610	Truss V7A	Truss Type VALLEY	Qty 1	Ply 1	PENNYWORTH-MUNOZ
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Fri Jul 21 13:25:06 2006 Page 1		



Scale = 1/16" = 1'-0"

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Lumber Increase 1.25	WB 0.07	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002							Weight: 31 lb	

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

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

REACTIONS (lb/size) 1=113/7-10-8, 4=136/7-10-8, 5=349/7-10-8
 Max Horz 1=164(load case 5)
 Max Uplift 4=71(load case 5), 5=178(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-192/29, 2-3=-70/22, 3-4=-84/114
 BOT CHORD 1-5=-15/17, 4-5=-15/17
 WEBS 2-5=-221/285

NOTES

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) All bearings are assumed to be SYP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4 and 178 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L201610	Truss V08	Truss Type VALLEY	Qty 1	Ply 1	PENNYWORTH-MUNOZ
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Builders FirstSource, Lake City, FL 32055

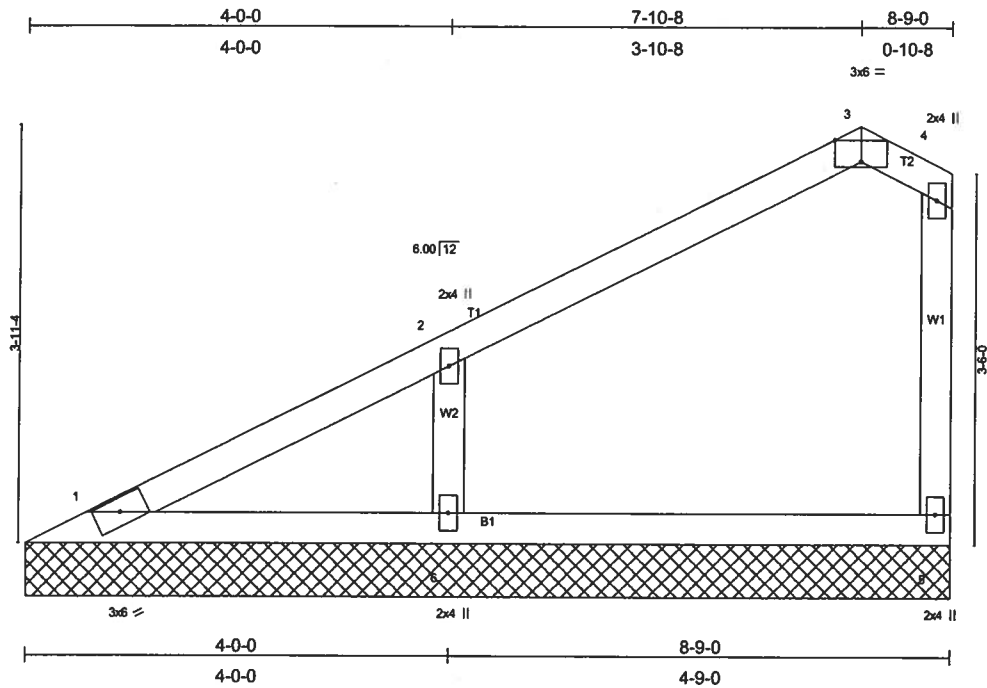
Job Reference (optional)
6/200 s Jul 13 2005 Mitek Industries, Inc. Fri Jul 21 13:25:02 2006 Page 1

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.11	Vert(TL)	n/a	-	n/a	999		
BCLL 10.0	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 33 lb	

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

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

REACTIONS (lb/size) 1=117/8-9-0, 5=175/8-9-0, 6=380/8-9-0
 Max Horz 1=156(load case 5)
 Max Uplift 5=70(load case 5), 6=190(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-157/17, 2-3=-93/8, 3-4=-77/79, 4-5=-107/121
 BOT CHORD 1-6=-25/33, 5-6=-25/33
 WEBS 2-6=-240/303

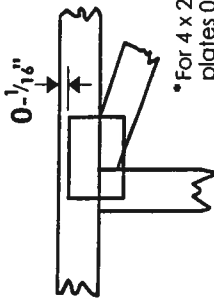
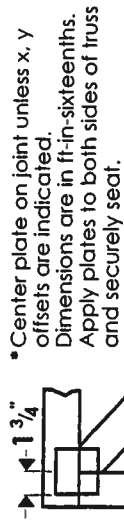
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=12ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Gable requires continuous bottom chord bearing.
- 4) All bearings are assumed to be SYP No.2
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 5 and 190 lb uplift at joint 6.

LOAD CASE(S) Standard

Symbols

PLATE LOCATION AND ORIENTATION



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

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

PLATE SIZE

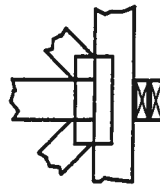
4 X 4

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

LATERAL BRACING



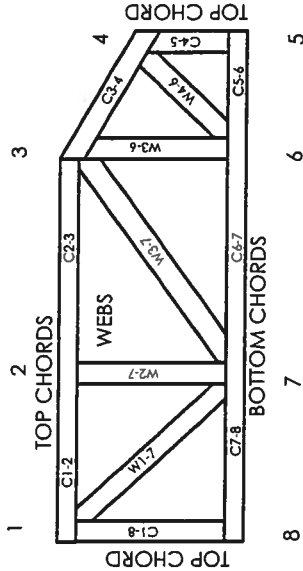
BEARING



Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

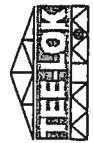


JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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

CONNECTOR PLATE CODE APPROVALS

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



Mitek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing shown on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of a professional engineer.
- Install and load vertically unless indicated otherwise.

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BEARING HEIGHT SCHEDULE

8'-0"

OVERHANG 1'-0"
ROOF PITCH(S) 6/12

NOTES:

- 1) REFER TO HB 91 (RECOMMENDATIONS FOR HANGER INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL W05 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5x42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON TH4422 UNLESS OTHERWISE NOTED.
- 8) BEAM/HEADER/INTEL (HDX) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

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

Legend: Order Date: _____

Approved By: _____ Date: _____



Builders FirstSource
Dunnell
PHONE: 904-437-3349 FAX: 904-437-3994

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

Lake City
PHONE: 904-755-6894 FAX: 904-755-7973

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

BUILDER: PENNYWORTH

LEGAL ADDRESS: COLUMBIA, FL

HANGER SCHEDULE

HTU26 (9)

