DATE 04/03/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025687

APPLICANT JUSTIN JENKINS PHONE 719-2240

ADDRESS 816 SW MAIN BLVD LAKE CITY FL 32025

OWNER COLIN WILLIAMSON PHONE 386-365-2328

ADDRESS 434 SW RIDDLE LANE LAKE CITY FL 32024

CONTRACTOR JENKINS CONTRACTING PHONE 719-2240

LOCATION OF PROPERTY 90 WEST, L PINEMOUNT RD, R MAGICAL TERR, L RIDDLE LANE, ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 57350.00

HEATED FLOOR AREA 1147.00 TOTAL AREA 1195.00 HEIGHT 14.20 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 35

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 05-4S-16-02773-007 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 2.50

		CGC1507486		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
EXISTING	07-00138N	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, SECTION 2.3.1 LEGAL NON-CONFORMING

LOT OF RECORD, Not on file

Check # or Cash 2503

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by

Foundation _____ date/app. by

Monolithic _____ date/app. by

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

Slab _____ date/app. by

Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by

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

Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by

Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by

C.O. Final _____ date/app. by

Culvert _____ date/app. by

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

Pool _____ date/app. by

Reconnection _____ date/app. by

Pump pole _____ date/app. by

Utility Pole _____ date/app. by

M/H Pole _____ date/app. by

Travel Trailer _____ date/app. by

Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 290.00 CERTIFICATION FEE $ 5.98 SURCHARGE FEE $ 5.98

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** 376.96

INSPECTORS OFFICE L.H CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

ck 2503

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0702-51 Date Received 2/19 By JW Permit # 25687

Application Approved by - Zoning Official BLK Date 2.22.07 Plans Examiner OK JTH Date 2-23-07

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments -NOC- Section 2.3.1 Legal Non-conforming Lot of Record

Applicants Name Justin Jenkins - Jenkins Contracting Phone 386 719 2240

Address 816 SW Main Blvd. Lake City, FL 32025

Owners Name Colin Williamson Phone 386 365 2328

911 Address 434 SW Riddle Lane Lake City FL 32024

Contractors Name Jenkins Contracting - Michael Jenkins Phone 386 719 2240

Address 816 SW main Blvd. Lake City, FL 32025

Fee Simple Owner Name & Address Colin Williamson 245 SW Crossbow Pl. Lake City FL 32024

Bonding Co. Name & Address none

Architect/Engineer Name & Address Freeman Design Group - Bill Freeman 161 NW Madison St. St.#1 Lake City FL 32055

Mortgage Lenders Name & Address First Federal Savings Bank PO Box 2029 Lake City FL 32056

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

Property ID Number 05-4S-16-02773-007 Estimated Cost of Construction $57,350.00

Subdivision Name n/a Lot ____ Block ____ Unit ____ Phase ____

Driving Directions 90 west, Left on Pinemount Rd, Right on Magical Terrace, Left on Riddle Lane. Arrive on left.

Type of Construction Single Family Dwelling Number of Existing Dwellings on Property 0

Total Acreage 2.5 Lot Size — Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 115' Side 90' Side 175' Rear 180'

Total Building Height 14' 1 1/16" Number of Stories 1 Heated Floor Area 1147 TOTAL 1195 Roof Pitch 6/12

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 COMMENCMENT 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)

Contractor Signature

Contractors License Number CGC 1507486

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 8th day of FEBRUARY 2007.

Personally known X or Produced Identification ____

Notary Signature

M. L. Church
Commission # DD425257
Expires May 3, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-7019

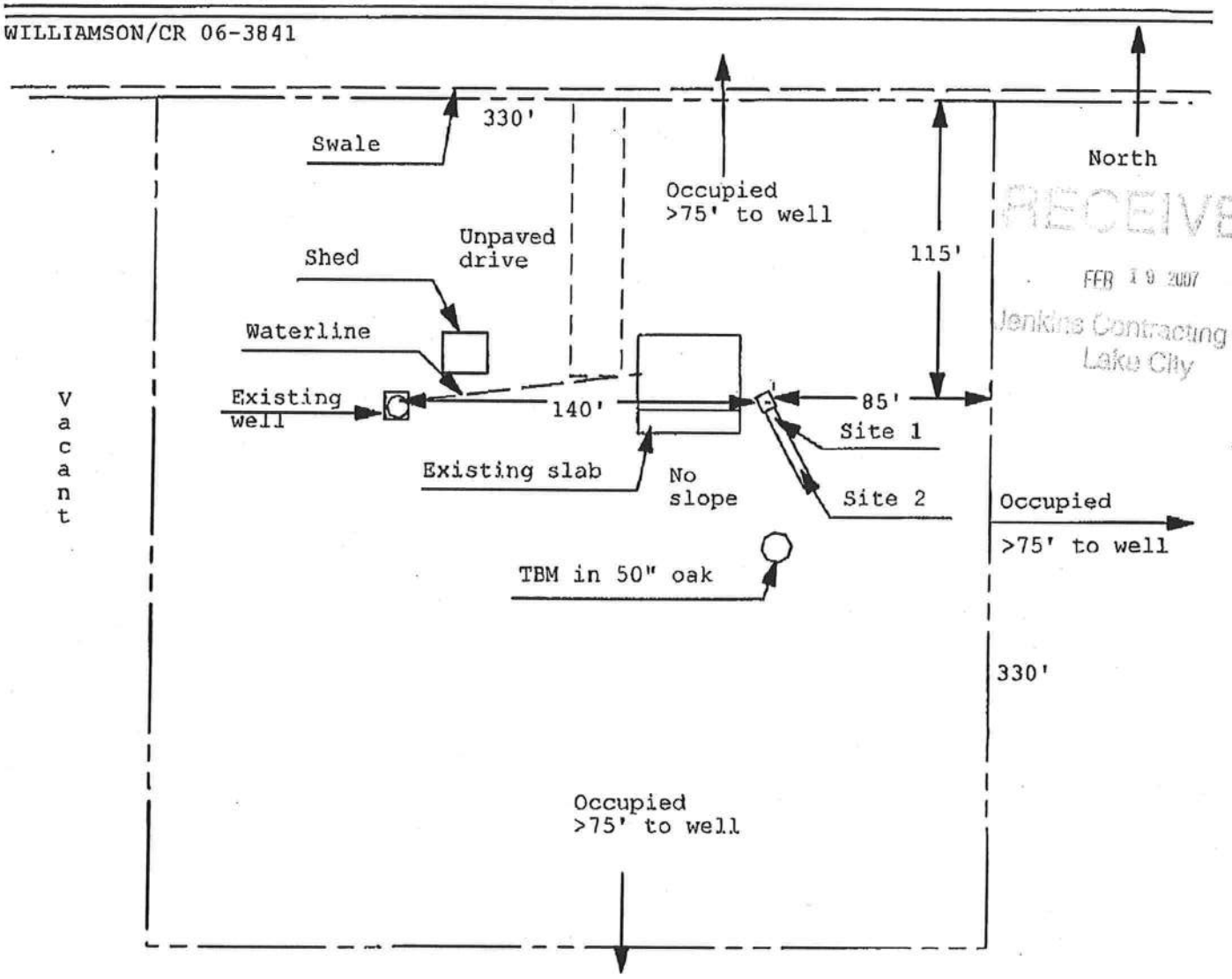
JW Advised Justin 2.27.07

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

Permit Application Number: 07-00138N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WILLIAMSON/CR 06-3841



1 inch = 60 feet

Site Plan Submitted By Paul Boyd **Date** 2/12/07

Plan Approved ✓ **Not Approved** ____ **Date** 2/16/07

By [signature] Columbia **CPHU**

Notes:

Prepared by:
Emma Potter
Provident Title & Mortgage, Inc.
444 SW Alachua Avenue
Lake City, Florida 32025

File Number: 06-617

General Warranty Deed

Made this January 16, 2007 A.D. By **Todd L. Hunt and Debra Hunt, husband and wife and Michael Geenslit,** an unmarried man 365 NW Turner Ave, Lake City FL 32055, hereinafter called the grantor, to **Colin P. Williamson,** whose post office address is: 245 SW Crossbow, Lake City FL 32024, hereinafter called the grantee: a single man,

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

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

NW 1/4 of SE 1/4 of NE 1/4 of NE 1/4 LESS AND EXCEPT THE 25 FEET OFF THE NORTH SIDE FOR ROAD, IN SECTION 5, TOWNSHIP 4s, RANGE 16 EAST. LYING AND BEING IN COLUMBIA COUNTY FL

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: **05-4S-16-02773-007**

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 grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants 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 grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Suezann Cribbs
Witness Printed Name Suezann Cribbs

Witness Printed Name Emma Potter

Todd L. Hunt (Seal)
Todd L. Hunt
Address: 365 NW Turner Ave, Lake City FL 32055

Debra Hunt (Seal)
Debra Hunt
Address: 365 NW Turner Ave, Lake City FL 32055

Witness Printed Name Carey J. Greenslit

Michael Greenslit 1-15-7 (Seal)
Michael Greenslit
Address: 10 Wixstead Court Douglas Massachussetts 01516

State of Florida
County of Columbia

State of Massachusetts
County of Worcester

JAMES M. SALISBURY
Notary Public
Commonwealth of Massachusetts
My Commission Expires
October 1, 2010

Acknowledge Before me this 15th Day Of January 2007 - Michael Greenslit Produced Drivers License from Massachusetts As Identification.

James M. Salisbury - Jan 15, 2007

The foregoing instrument was acknowledged before me this 16th day of January, 2007, by Todd L. Hunt and Debra Hunt, husband and wife and Michael Geenslit, who is/are personally known to me or who has produced _____ as identification.

Inst:2007001207 Date:01/17/2007 Time:15:10
Doc Stamp-Deed : 192.50
DC,P.DeWitt Cason,Columbia County B:1108 P:236

Notary Public
Print Name: _____

My Commission Expires: _____

Columbia County Property Appraiser

DB Last Updated: 2/5/2007

2007 Proposed Values

Parcel: 05-4S-16-02773-007

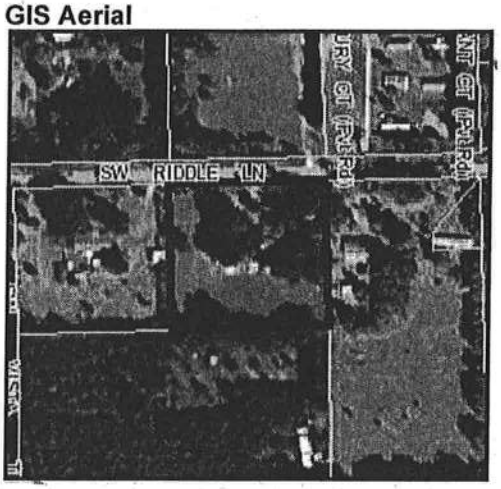
Tax Record | Property Card | Interactive GIS Map | Print

Owner & Property Info

<< Prev Search Result: 5 of 25 Next >>

Owner's Name	WILLIAMSON COLIN P		
Site Address	RIDDLE		
Mailing Address	245 SW CROSSBOW LAKE CITY, FL 32024		
Use Desc. (code)	MISC RES (000700)		
Neighborhood	5416.02	**Tax District**	2
UD Codes	MKTA01	**Market Area**	01
Total Land Area	2.500 ACRES		
Description	NW1/4 OF SE1/4 OF NE1/4 OF NE1/4, EX N 25 FT FOR RD, AKA N1/2 OF PRCL #21. ORB 668-358, 676-036, 812-1470 CONTRACT FOR SALE 1095-2054, QCD 1105-1778, CORR QC 1108- 235, WD 1108-236.		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (2)	$32,000.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (2)	$280.00
Total Appraised Value		$32,280.00

Just Value	$32,280.00
Class Value	$0.00
Assessed Value	$32,280.00
Exempt Value	$0.00
Total Taxable Value	$32,280.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
1/16/2007	1108/236	WD	V	Q		$27,500.00
1/3/2007	1108/235	QC	V	U	01	$100.00
12/12/2006	1105/1778	WD	I	Q		$100.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
			NONE			

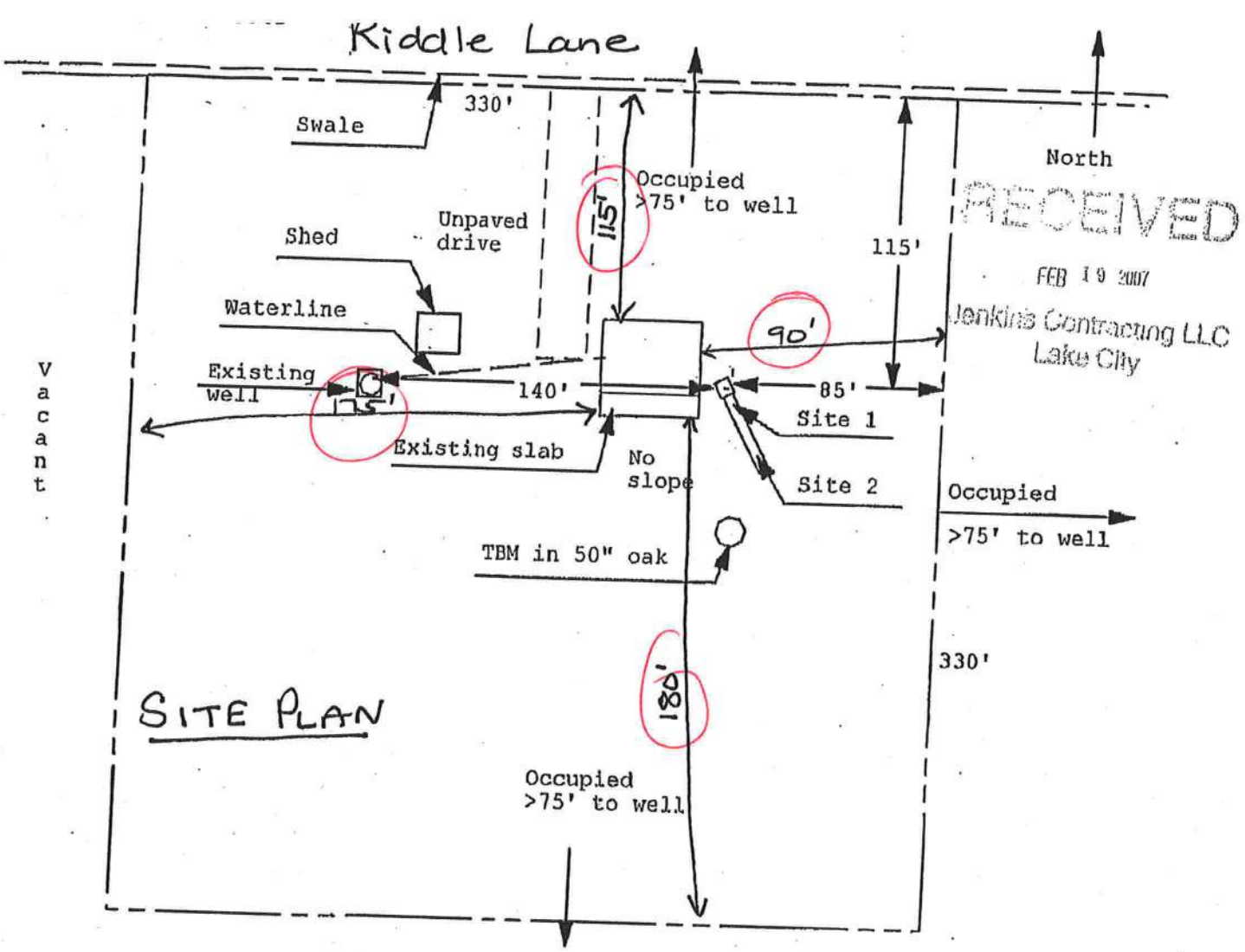
Extra Features & Out Buildings

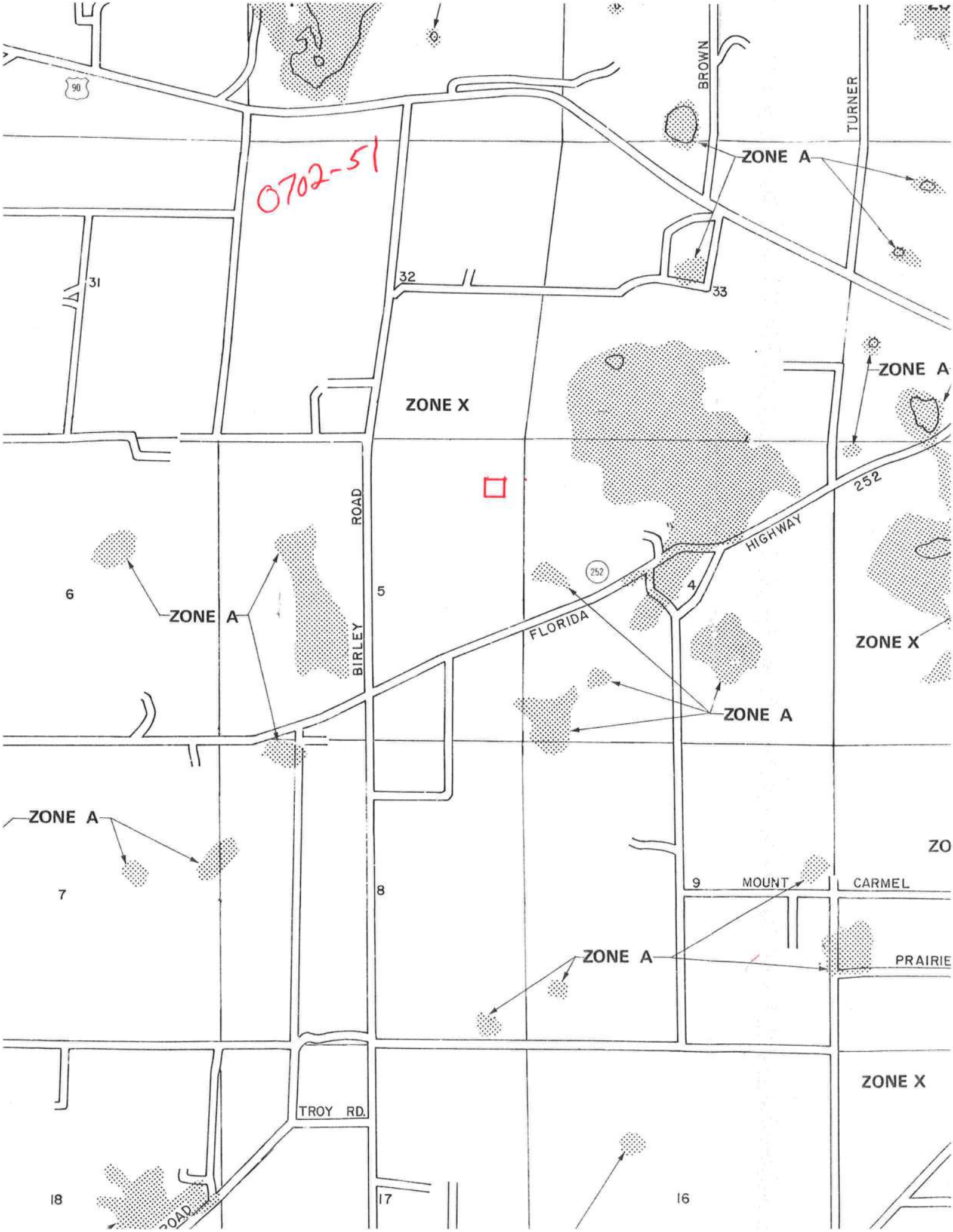
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0296	SHED METAL	0	$230.00	1.000	11 x 16 x 0	(.00)
0294	SHED WOOD/	0	$50.00	1.000	8 x 16 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000700	MISC RES (MKT)	2.500 AC	1.00/1.00/1.00/1.00	$12,000.00	$30,000.00
009945	WELL/SEPT (MKT)	1.000 UT - (.000AC)	1.00/1.00/1.00/1.00	$2,000.00	$2,000.00

Columbia County Property Appraiser DB Last Updated: 2/5/2007


Kiddle Lane
Swale
330'
North
Occupied
>75' to well
115'
Unpaved
drive
Shed
Waterline
Existing
well
140'
90'
115'
85'
Site 1
Site 2
Existing slab
No
slope
Occupied
>75' to well
TBM in 50" oak
330'
180'
Occupied
>75' to well
Vacant
SITE PLAN
RECEIVED
FEB 19 2007
Jenkins Contracting LLC
Lake City


0702-51
ZONE A
ZONE X
ZONE A
ZONE A
ZONE X
ZONE A
ZONE A
ZONE A
ZONE X
ZO
BROWN
TURNER
BIRLEY ROAD
FLORIDA HIGHWAY 252
MOUNT CARMEL
PRAIRIE
TROY RD.
31
32
33
6
5
4
7
8
9
18
17
16
90
252

FORM 600A-2004R EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Williamson Residence**	Builder:	**Jenkins Contracting**
Address:	**295 SW Crossbow Place**	Permitting Office:	**Columbia County**
City, State:	**Lake City, FL 32024-**	Permit Number:	
Owner:	**Colin Williamson**	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: 24.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1147 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 105.0 ft²	a. Electric Heat Pump/Split	Cap: 24.0 kBtu/hr
b. SHGC:			HSPF: 8.50
(or Clear or Tint DEFAULT)	7b. (Clear) 105.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 145.3(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 50.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1163.0 ft²		EF: 0.90
b. N/A		b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	PT,
a. Under Attic	R=30.0, 1147.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft		
b. N/A			

Glass/Floor Area: 0.09

Total as-built points: 16733

Total base points: 19405

PASS

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

PREPARED BY: _____

DATE: 1/31/07

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

OWNER/AGENT: _____

DATE: _____

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.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **295 SW Crossbow Place, Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1147.0	18.59	3838.0	1.Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.0	
				2.Double, Clear	N	1.5	6.0	15.0	19.20	0.94	270.0	
				3.Double, Clear	W	1.5	6.0	75.0	38.52	0.91	2638.0	
				As-Built Total:				**105.0**			**3483.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	1163.0	1.50		1744.5	
Exterior	1163.0	1.70	1977.1									
Base Total:	**1163.0**		**1977.1**	**As-Built Total:**				**1163.0**			**1744.5**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				20.0	4.10		82.0	
Exterior	65.0	6.10	396.5	2.Exterior Insulated				45.0	4.10		184.5	
Base Total:	**65.0**		**396.5**	**As-Built Total:**				**65.0**			**266.5**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1147.0	1.73	1984.3	1. Under Attic			30.0	1147.0	1.73 X 1.00		1984.3	
Base Total:	**1147.0**		**1984.3**	**As-Built Total:**				**1147.0**			**1984.3**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	145.3(p)	-37.0	-5377.3	1. Slab-On-Grade Edge Insulation			0.0	145.3(p	-41.20		-5987.7	
Raised	0.0	0.00	0.0									
Base Total:			**-5377.3**	**As-Built Total:**				**145.3**			**-5987.7**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1147.0	10.21	11710.9					1147.0	10.21		11710.9	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **295 SW Crossbow Place, Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 14529.5			**Summer As-Built Points:**					**13201.5**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 24000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
14529.5	0.3250	4722.1	13201 **13201.5**	1.00 **1.00**	(1.09 x 1.147 x 0.91) **1.138**	0.260 **0.260**	0.950 **0.950**	3709.8 **3709.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **295 SW Crossbow Place, Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1147.0	20.17	4164.0	1.Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.0	
				2.Double, Clear	N	1.5	6.0	15.0	24.58	1.00	369.0	
				3.Double, Clear	W	1.5	6.0	75.0	20.73	1.02	1591.0	
				As-Built Total:				**105.0**			**2251.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	1163.0	3.40		3954.2	
Exterior	1163.0	3.70	4303.1									
Base Total:	**1163.0**		**4303.1**	**As-Built Total:**				**1163.0**			**3954.2**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				20.0	8.40		168.0	
Exterior	65.0	12.30	799.5	2.Exterior Insulated				45.0	8.40		378.0	
Base Total:	**65.0**		**799.5**	**As-Built Total:**				**65.0**			**546.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1147.0	2.05	2351.3	1. Under Attic			30.0	1147.0	2.05 X	1.00	2351.3	
Base Total:	**1147.0**		**2351.3**	**As-Built Total:**				**1147.0**			**2351.3**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	145.3(p)	8.9	1293.5	1. Slab-On-Grade Edge Insulation			0.0	145.3(p	18.80		2732.3	
Raised	0.0	0.00	0.0									
Base Total:			**1293.5**	**As-Built Total:**				**145.3**			**2732.3**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1147.0	-0.59	-676.7					1147.0	-0.59		-676.7	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **295 SW Crossbow Place, Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**12234.7**	**Winter As-Built Points:**					**11158.1**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 24000 btuh ,EFF(8.5) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			11158.1	1.000	(1.069 x 1.169 x 0.93)	0.401	0.950	4942.2
12234.7	**0.5540**	**6778.0**	**11158.1**	**1.00**	**1.162**	**0.401**	**0.950**	**4942.2**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **295 SW Crossbow Place, Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	50.0	0.90	3	1.00	2693.56	1.00	8080.7	
				As-Built Total:							**8080.7**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
4722	**6778**	**7905**	**19405**	**3710**	**4942**	**8081**	**16733**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **295 SW Crossbow Place, 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.	
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 cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.8

The higher the score, the more efficient the home.

Colin Williamson, 295 SW Crossbow Place, 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: 24.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 13.00
4.	Number of Bedrooms	3			b. N/A	
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	1147 ft²			c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					
	a. U-factor:	Description	Area	13.	Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default)	105.0 ft²		a. Electric Heat Pump/Split	Cap: 24.0 kBtu/hr
	b. SHGC:					HSPF: 8.50
	(or Clear or Tint DEFAULT)	7b. (Clear)	105.0 ft²		b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=0.0, 145.3(p) ft			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 50.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1163.0 ft²				EF: 0.90
	b. N/A				b. N/A	
	c. N/A					
	d. N/A				c. Conservation credits	
	e. N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1147.0 ft²		15.	HVAC credits	PT,
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

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

BUILDING INPUT SUMMARY REPORT

PROJECT

Title:	Williamson Residence	**Family Type:**	Single	**Address Type:**	Street Address
Owner:	Colin Williamson	**New/Existing:**	New	**Lot #:**	N/A
# of Units:	1	**Bedrooms:**	3	**Subdivision:**	N/A
Builder Name:	Jenkins Contracting	**Conditioned Area:**	1147	**Platbook:**	N/A
Climate:	North	**Total Stories:**	1	**Street:**	295 SW Crossbow Place
Permit Office:	Columbia County	**Worst Case:**	Yes	**County:**	Columbia
Jurisdiction #:	(blank)	**Rotate Angle:**	90	**City, St, Zip:**	Lake City, FL, 32024-

FLOORS

#	Floor Type	R-Val	Area/Perimeter	Units
1	Slab-On-Grade Edge Insulation	0.0	145.3(p) ft	1

DOORS

#	Door Type	Orientation	Area	Units
1	Insulated	Exterior	20.0 ft²	1
2	Insulated	Exterior	45.0 ft²	1

CEILINGS

#	Ceiling Type	R-Val	Area	Base Area	Units
1	Under Attic	30.0	1147.0 ft²	1147.0 ft²	1

Credit Multipliers: None

COOLING

#	System Type	Efficiency	Capacity
1	Central Unit	SEER: 13.00	24.0 kBtu/hr

Credit Multipliers: PT

WALLS

#	Wall Type	Location	R-Val	Area	Units
1	Frame - Wood	Exterior	13.0	1163.0 ft²	1

HEATING

#	System Type	Efficiency	Capacity
1	Electric Heat Pump/Split	HSPF: 8.50	24.0 kBtu/hr

Credit Multipliers: PT

WINDOWS

#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
1	Double	Clear	N	15.0 ft²	1.5 ft	6.0 ft	1
2	Double	Clear	W	15.0 ft²	1.5 ft	6.0 ft	1
3	Double	Clear	S	15.0 ft²	1.5 ft	6.0 ft	5

DUCTS

#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length
1	Uncond.	Uncond.	Interior	6.0	50.0 ft

Credit Multipliers: None

WATER

#	System Type	EF	Cap.	Conservation Type	Con. EF
1	Electric Resistance	0.90	50.0	None	0.00

REFR.

#	Use Default?	Annual Operating Cost	Electric Rate
1	Yes	N/A	N/A

MISC

Rater Name:	CodeOnlyPro	**Class #:**	3	**Pool Size:**	0
Rater Certification #:	CodeOnlyPro	**Duct Leakage Type:**	N/A	**Pump Size:**	0.00 hp
Area Under Fluorescent:	0.0	**Visible Duct Disconnects:**	N/A	**Dryer Type:**	Electric
Area Under Incandescent:	1147.0	**Leak Free Duct System Proposed:**	No	**Stove Type:**	Electric
NOTE: Not all Rating info shown		**HRV/ERV System Present?:**	No	**Avg Ceil Hgt:**	

Residential System Sizing Calculation

Summary

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

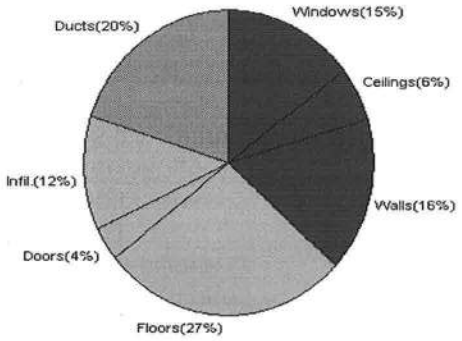
1/31/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**23159**	**Btuh**	**Total cooling load calculation**	**23135**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	103.6	24000	Sensible (SHR = 0.75)	93.6	18000
Heat Pump + Auxiliary(0.0kW)	103.6	24000	Latent	153.7	6000
			Total (Electric Heat Pump)	103.7	24000

WINTER CALCULATIONS

Winter Heating Load (for 1147 sqft)

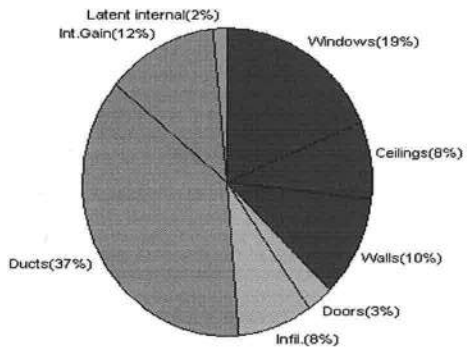
Load component			Load	
Window total	105	sqft	3380	Btuh
Wall total	1163	sqft	3819	Btuh
Door total	65	sqft	842	Btuh
Ceiling total	1147	sqft	1352	Btuh
Floor total	145	sqft	6345	Btuh
Infiltration	69	cfm	2788	Btuh
Duct loss			4633	Btuh
Subtotal			**23159**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**23159**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1147 sqft)

Load component			Load	
Window total	105	sqft	4326	Btuh
Wall total	1163	sqft	2426	Btuh
Door total	65	sqft	637	Btuh
Ceiling total	1147	sqft	1899	Btuh
Floor total			0	Btuh
Infiltration	35	cfm	655	Btuh
Internal gain			2860	Btuh
Duct gain			6428	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**19231**	**Btuh**
Latent gain(ducts)			2219	Btuh
Latent gain(infiltration)			1285	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			400	Btuh
Total latent gain			**3905**	**Btuh**
TOTAL HEAT GAIN			**23135**	**Btuh**



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: C. Williamson
DATE: 1/31/07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

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

1/31/2007

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
3	2, Clear, Metal, 0.87	SE	75.0	32.2	2414 Btuh
	Window Total		105(sqft)		3380 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1163	3.3	3819 Btuh
	Wall Total		1163		3819 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		45	12.9	583 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		65		842Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1147	1.2	1352 Btuh
	Ceiling Total		1147		1352Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	145.3 ft(p)	43.7	6345 Btuh
	Floor Total		145		6345 Btuh
				Envelope Subtotal:	15738 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.45	9176	1163	68.8	2788 Btuh
Ductload					(DLM of 0.250)	4633 Btuh
All Zones				**Sensible Subtotal All Zones**		**23159 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	23159 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	23159 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

1/31/2007

EQUIPMENT

1. Electric Heat Pump/Split	#(Outside) #(Inside)	24000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

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

1/31/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
3	2, Clear, Metal, 0.87	SE	75.0	32.2	2414 Btuh
	Window Total		105(sqft)		3380 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1163	3.3	3819 Btuh
	Wall Total		1163		3819 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		45	12.9	583 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		65		842Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	1147	1.2	1352 Btuh
	Ceiling Total		1147		1352Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	145.3 ft(p)	43.7	6345 Btuh
	Floor Total		145		6345 Btuh
			Zone Envelope Subtotal:		15738 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.45	9176	1163 68.8	2788 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.250)				4633 Btuh
Zone #1			**Sensible Zone Subtotal**		**23159 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	23159 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	23159 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

1/31/2007

EQUIPMENT

1. Electric Heat Pump/Split	#(Outside) #(Inside)	24000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
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System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

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

1/31/2007

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

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, B-D, N,H	NW	1.5ft	6ft.	15.0	0.0	15.0	21	46	688 Btuh
2	2, Clear, 0.87, B-D, N,H	SW	1.5ft	6ft.	15.0	4.6	10.4	21	49	606 Btuh
3	2, Clear, 0.87, B-D, N,H	SE	1.5ft	6ft.	75.0	22.8	52.2	21	49	3031 Btuh
	Window Total				105 (sqft)					4326 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		13.0/0.09		1163.0			2.1		2426 Btuh
	Wall Total				1163 (sqft)					2426 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Exterior				45.0			9.8		441 Btuh
2	Insulated - Exterior				20.0			9.8		196 Btuh
	Door Total				65 (sqft)					637 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		1147.0			1.7		1899 Btuh
	Ceiling Total				1147 (sqft)					1899 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		145 (ft(p))			0.0		0 Btuh
	Floor Total				145.3 (sqft)					0 Btuh
						Envelope Subtotal:				9288 Btuh
Infiltration	Type		ACH		Volume(cuft)		wall area(sqft)	CFM=		Load
	SensibleNatural		0.23		9176		1163	68.8		655 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			2		X 230	+		2400		2860 Btuh
						Sensible Envelope Load:				12803 Btuh
Duct load						(DGM of 0.502)				6428 Btuh
						Sensible Load All Zones				**19231 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

1/31/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**12803 Btuh**
	Sensible Duct Load	6428 Btuh
	Total Sensible Zone Loads	**19231 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**19231 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	1285 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	2219 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3905 Btuh**
	TOTAL GAIN	**23135 Btuh**

EQUIPMENT

1. Central Unit	#	24000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/31/2007

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

Component Loads for Zone #1: Main

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, B-D, N,H	NW	1.5ft	6ft.	15.0	0.0	15.0	21	46	688 Btuh
2	2, Clear, 0.87, B-D, N,H	SW	1.5ft	6ft.	15.0	4.6	10.4	21	49	606 Btuh
3	2, Clear, 0.87, B-D, N,H	SE	1.5ft	6ft.	75.0	22.8	52.2	21	49	3031 Btuh
	Window Total				105 (sqft)					4326 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		13.0/0.09		1163.0			2.1		2426 Btuh
	Wall Total				1163 (sqft)					2426 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Exterior				45.0			9.8		441 Btuh
2	Insulated - Exterior				20.0			9.8		196 Btuh
	Door Total				65 (sqft)					637 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		1147.0			1.7		1899 Btuh
	Ceiling Total				1147 (sqft)					1899 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		145 (ft(p))			0.0		0 Btuh
	Floor Total				145.3 (sqft)					0 Btuh
							Zone Envelope Subtotal:			9288 Btuh
Infiltration	Type		ACH		Volume(cuft)		wall area(sqft)	CFM=		Load
	SensibleNatural		0.23		9176		1163	35.2		655 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			2		X 230		+	2400		2860 Btuh
							Sensible Envelope Load:			12803 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)							(DGM of 0.502)		6428 Btuh
							Sensible Zone Load			**19231 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

Code Only
Professional Version
Climate: North

1/31/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**12803 Btuh**
	Sensible Duct Load	6428 Btuh
	Total Sensible Zone Loads	**19231 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**19231 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	1285 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	2219 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3905 Btuh**
	TOTAL GAIN	**23135 Btuh**

EQUIPMENT

1. Central Unit	#	24000 Btuh

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

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Colin Williamson
295 SW Crossbow Place
Lake City, FL 32024-

Project Title:
Williamson Residence

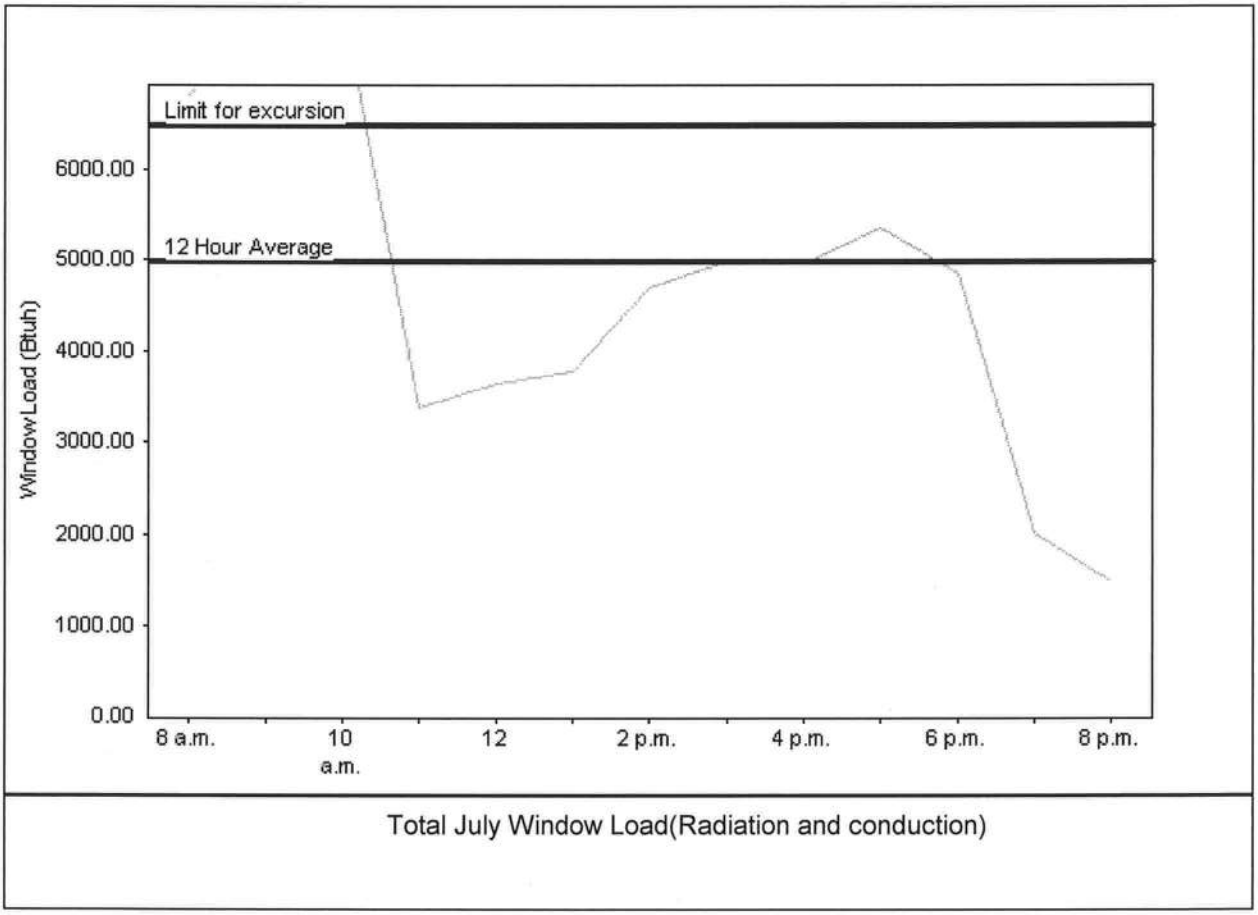
Code Only
Professional Version
Climate: North

1/31/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4994 Btuh
Summer setpoint	75 F	Peak window load for July	7792 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	6492 Btuh
Latitude	29 North	Window excursion (July)	1300 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: _____
DATE: 1/31/07

25687

RETURN TO
Terry McDavid
P. O. Box 1328
Lake City, FL 32056-1328
07-38

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32056

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

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

RECEIVED
APR 02 2007

PERMIT NO. _____

Date 03-30-2007 TAX FOLIO NO. R02773-007

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.

Jenkins Contracting LLC
Lake City

1. Description of property: NW 1/4 of SE 1/4 of NE 1/4 of the NE 1/4 of Section 5, Township 4 South, Range 16 East, Columbia County, Florida, less and except the road right of way along the North boundary thereof.

2. General description of improvement: **Construction of Dwelling**

3. Owner information:
   a. Name and address: Colin P. Williamson
   508 SW Riddle Lane, Lake City, FL 32024

   b. Interest in property: **Fee Simple**

   c. Name and address of fee simple title holder (if other than Owner): **NONE**

4. Contractor (name and address): Jenkins Contracting, LLC
   816 SW Main Blvd., Lake City, FL 32025

5. Surety:
   a. Name and address: N/A

   b. Amount of bond: _____

6. Lender: **FIRST FEDERAL SAVINGS BANK OF FLORIDA**
   4705 WEST U.S. HIGHWAY 90
   P. O. BOX 2029
   LAKE CITY, FLORIDA 32056

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

8. In addition to himself, Owner designates **PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056** to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.

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

Colin P. Williamson
Borrower Name Colin P. Williamson

Co-Borrower Name

The foregoing instrument was acknowledged before me this 30th day of March, 20__, by Colin P. Williamson, who is personally known to me or who has produced driver's license for identification.

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

Notary Public
My Commission Expires:

Inst:200707310 Date:03/30/2007 Time:15:18
D.C.,P.DeWitt Cason,Columbia County B:1115 P:571

Cal-Tech Testing, Inc.

• Engineering
• Geotechnical
• Environmental
Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
6919 Distribution Ave. S., Unit #5, Jacksonville, FL 32257 • Tel(904)262-4046 • Fax(904)262-4047
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

~~25693~~ # 25687

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 07-217
DATE TESTED: 4/19/07
DATE REPORTED: 4/20/07

PROJECT:	Williamson Residence, Lake City, FL
CLIENT:	Jenkins Contracting, P.O. Box 1734, Lake City, FL 32056-1734
GENERAL CONTRACTOR:	Jenkins Contracting
EARTHWORK CONTRACTOR:	Jenkins Contracting
INSPECTOR:	Robert Edwards

ASTM METHOD	SOIL USE
(D-2922) Nuclear	BUILDING FILL

SPECIFICATION REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft^3)	MOISTURE PERCENT	DRY DENSITY (lb/ft^3)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1		6' South of North End & 2' East of West Edge	12"	120.3	11.4	108.0	1	105.2	103%
2		10' East of West End & 20' South of North End	12"	119.1	10.4	107.9	1	105.2	103%
3		4' South of North End & 3' West of East Edge	12"	118.7	10.2	107.7	1	105.2	102%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft^3)	OPT. MOIST.	TYPE
1		Tan Sand (Brian Timmerman Pit)	105.2	12.4	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Pending Signature

Linda M. Creamer
President - CEO

Reviewed By:

Pending Signature

Date:
Florida Registration No: 52210

EE

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 locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Ceco Door Products
9159 Telecom Drive
Milan, TN 38358

In Swing

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: The Ceco Series Single Flush / Embossed Inswing Commercial Steel Doors –Impact

APPROVAL DOCUMENT: Drawing No RD0728, titled "3-0 x 7-0 , Series Regent, Omega, Imperial, Versa door", prepared by manufacturer, sheets 1 through 9 of 9 dated 05/22/02 and latest revised on 10-10-02, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

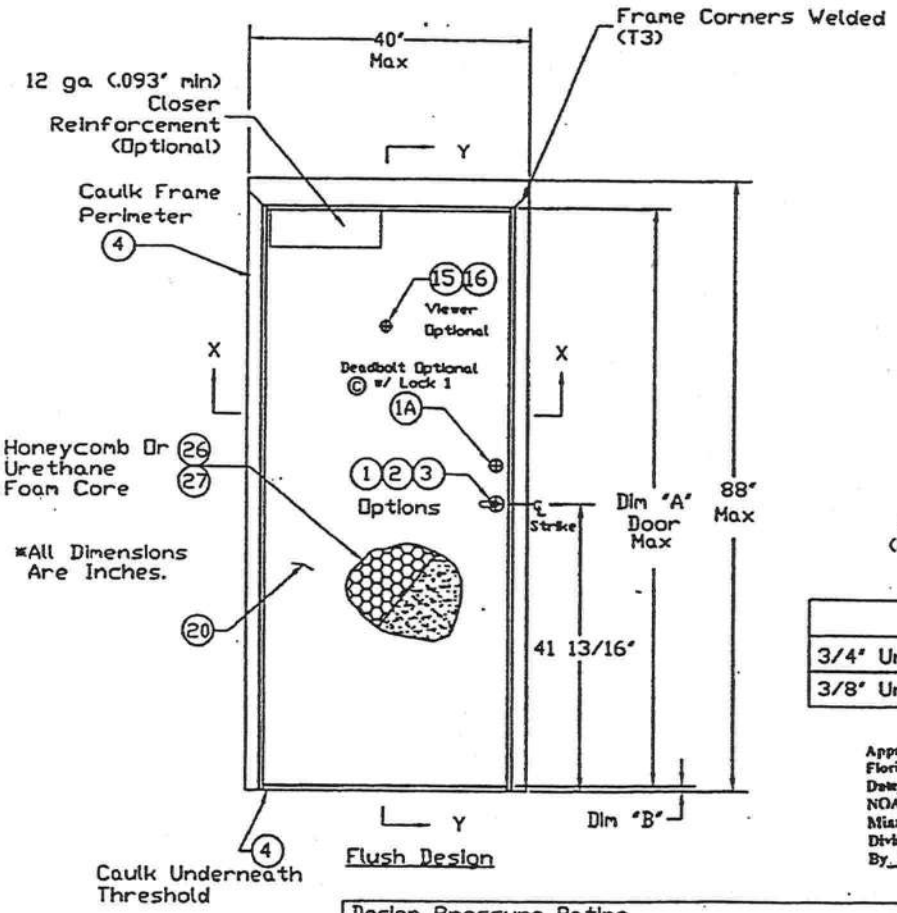
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

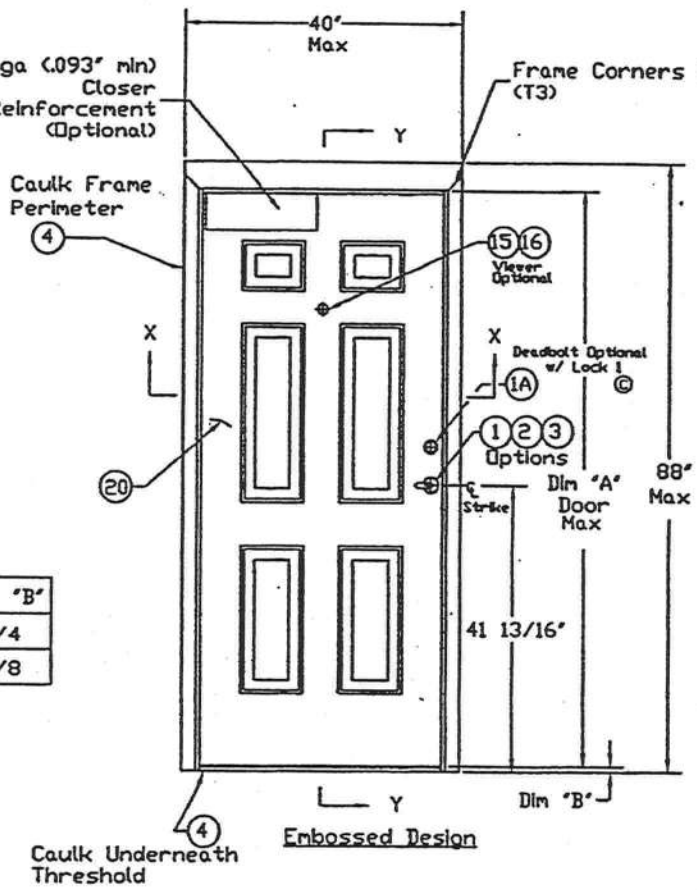
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA consists of this page 1 as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

PRODUCT CONTROL ACCEPTED





In-Swing Door (Exterior View)

	Dim "A"	Dim "B"
3/4" Undercut	83 1/8	3/4
3/8" Undercut	83 1/2	3/8

Approved as complying with the Florida Building Code
Date OCTOBER 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

Design Pressure Rating		
	Where Water Infiltration Requirement Is Needed	Where Water Infiltration Requirement Is Not Needed
Positive	Not Approved	+70 PSF
Negative	Not Approved	-70 PSF

Notes:
1) In-swing Not Approved For Water Infiltration
2) This Door Does Not Need A Hurricane Protection Systen
3) Hinge Spacing Is 33" O.C., 13" From Top Of Frame & 9" From The Botton.

MATERIAL SPECIFICATIONS:
Finish: Rust Inhibitive Primer

3-0 x 7-0 Series
Regent, Omega, Imperial, & Versadoor
In-Swing Elevation Drawing

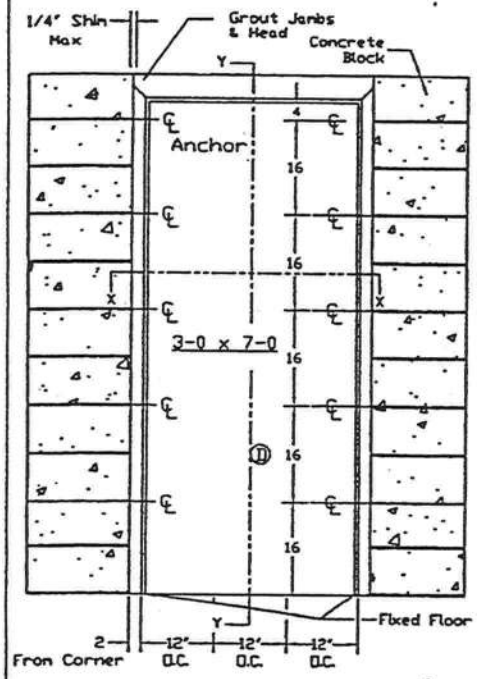
CECO DOOR PRODUCTS
Milan, Tennessee 38358

ISSUE	REVISIONS
B 10/10/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
A 8/28/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.

DRAWN BY: LT
DATE: 5/22/02
DRAWING NUMBER: RD0728
Sheet 1 of 9

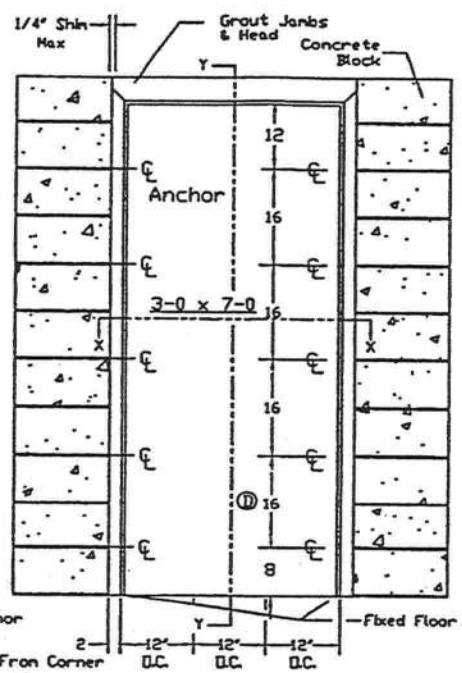
Masonry "T" Anchor

Min. 3500 PSI



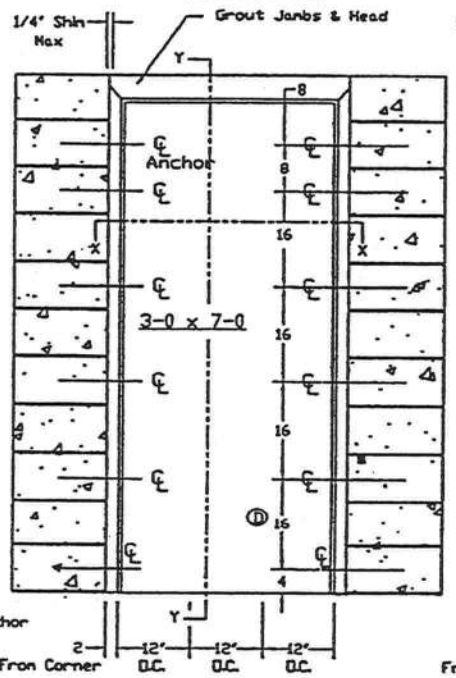
Masonry Wire Anchor

Min. 3500 PSI

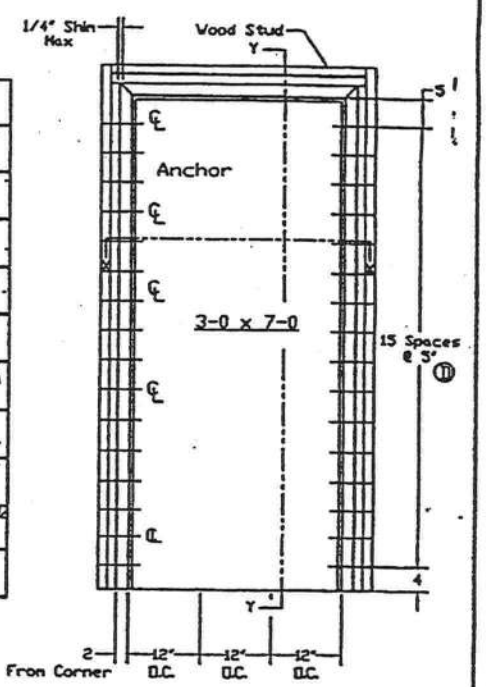


Existing Opening W/Lockbolt or Sleeve Anchor Into Block

Min. 3500 PSI

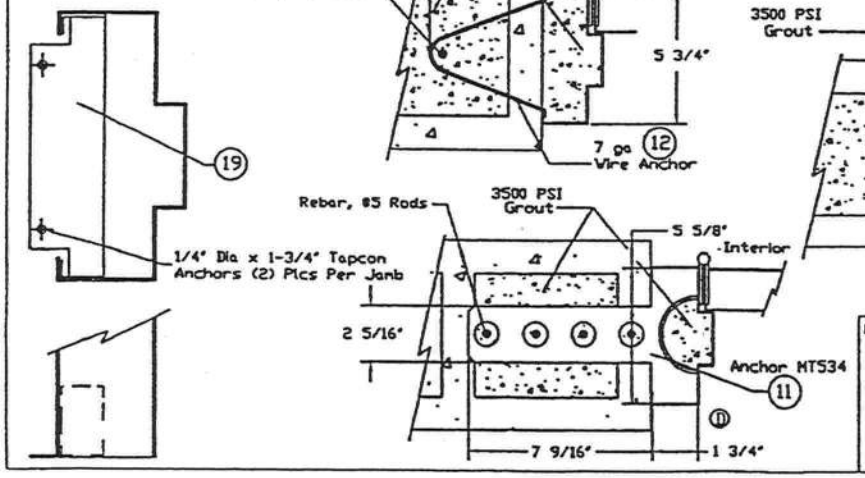


Existing Opening Anchor Into Wood Stud



*All Dimensions Are Inches

Installation Details Hinge Jambs / Lock Jambs



Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq J. Chanda

ISSUE	REVISIONS
A 5/28/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.

MATERIAL SPECIFICATIONS:

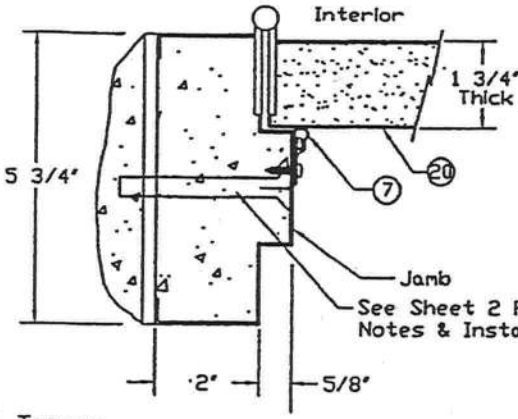
Frame Anchor (Inswing Doors)
Regent, Omega, Imperial & Versadoor
Installation Details

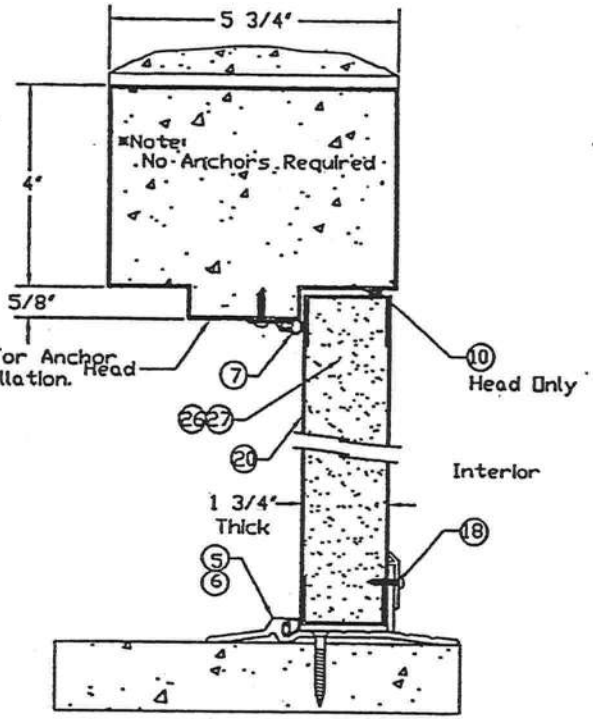
CECO DOOR PRODUCTS
Milan, Tennessee 38358

DRAWN BY: LT
DATE: 5/22/02

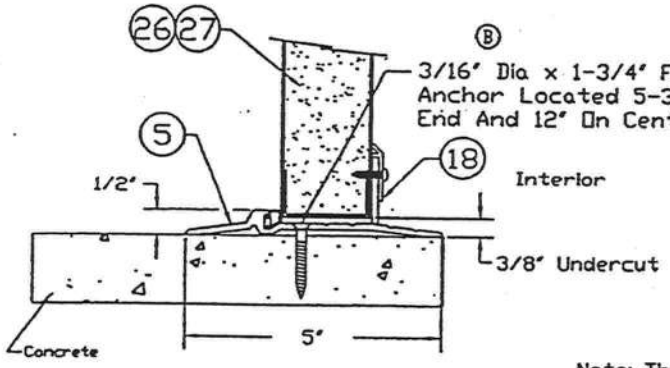
DRAWING NUMBER: RD0728

*Note: Structural Member At Header Must Be Designed To carry 58.3#/ft. load Imposed And Must Be Reviewed By Building Official.





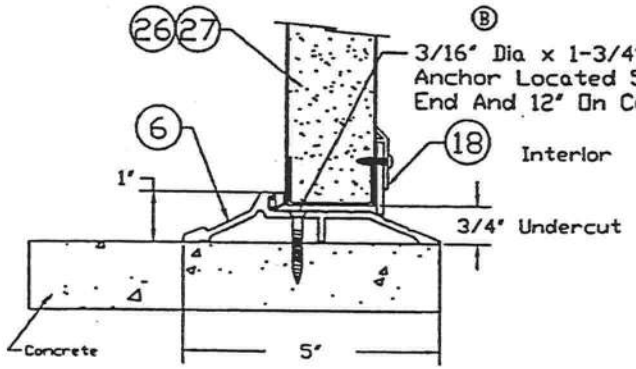
Section Y-Y



Threshold: Pemko 2005AV

Inswing
(Not Approved For Water)

Note: Thresholds Not Approved For Water.



Threshold: Pemko 181AV

Approved as complying with the Florida Building Code
Date: OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By: Ishaq I. Chanda

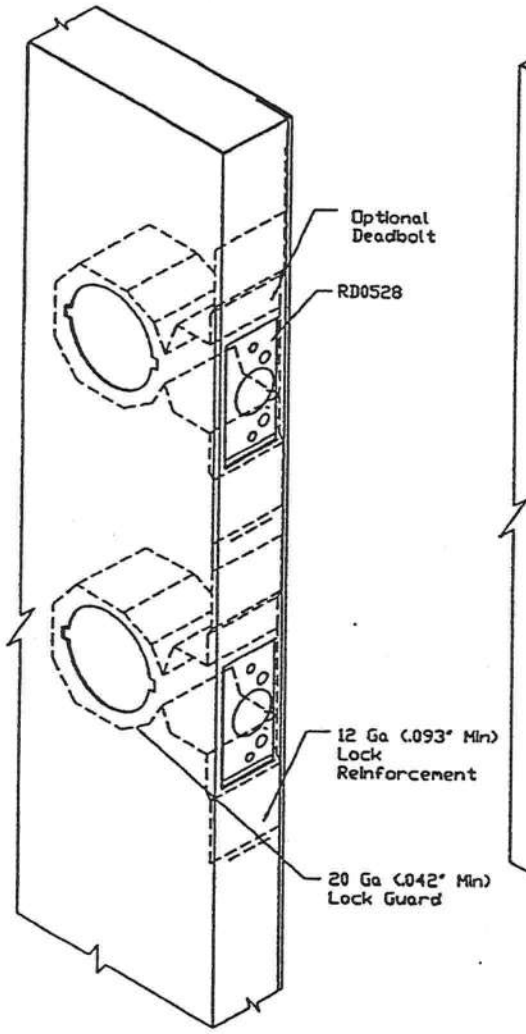
D	10/16/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda
C	8/29/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda
ISSUE		REVISIONS
DRAWN BY: LT		DATE: 5/22/02

MATERIAL SPECIFICATIONS:

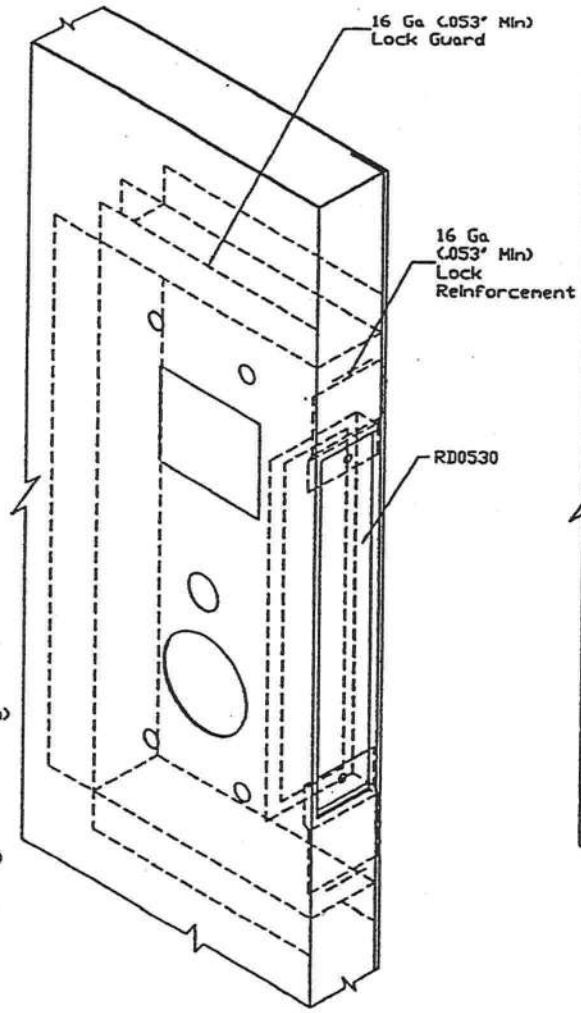
Threshold & Weatherstrip (Inswing Doors)
Regent, Omega, Imperial, Versadoor
Installation Details

CECO DOOR PRODUCTS
Milan, Tennessee 38358

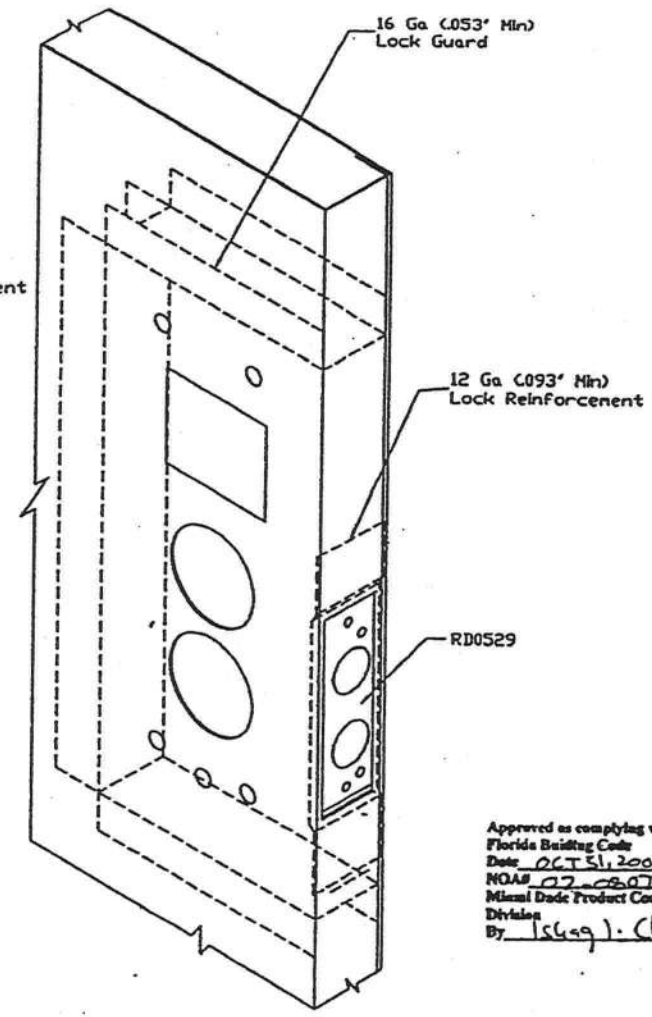
RD0728
Sheet 3 Of 9



Schlage AL53PD



Saflok MT

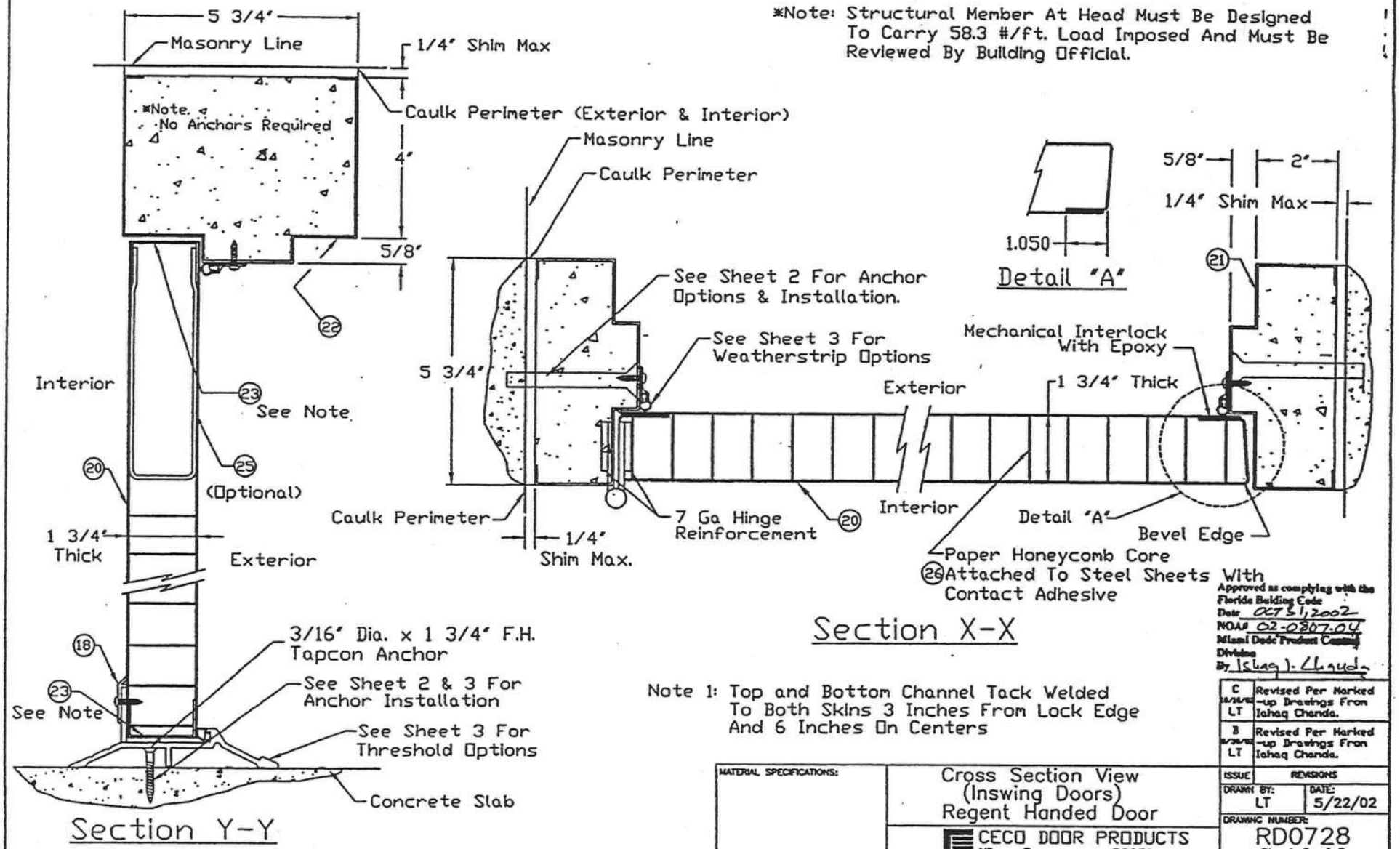


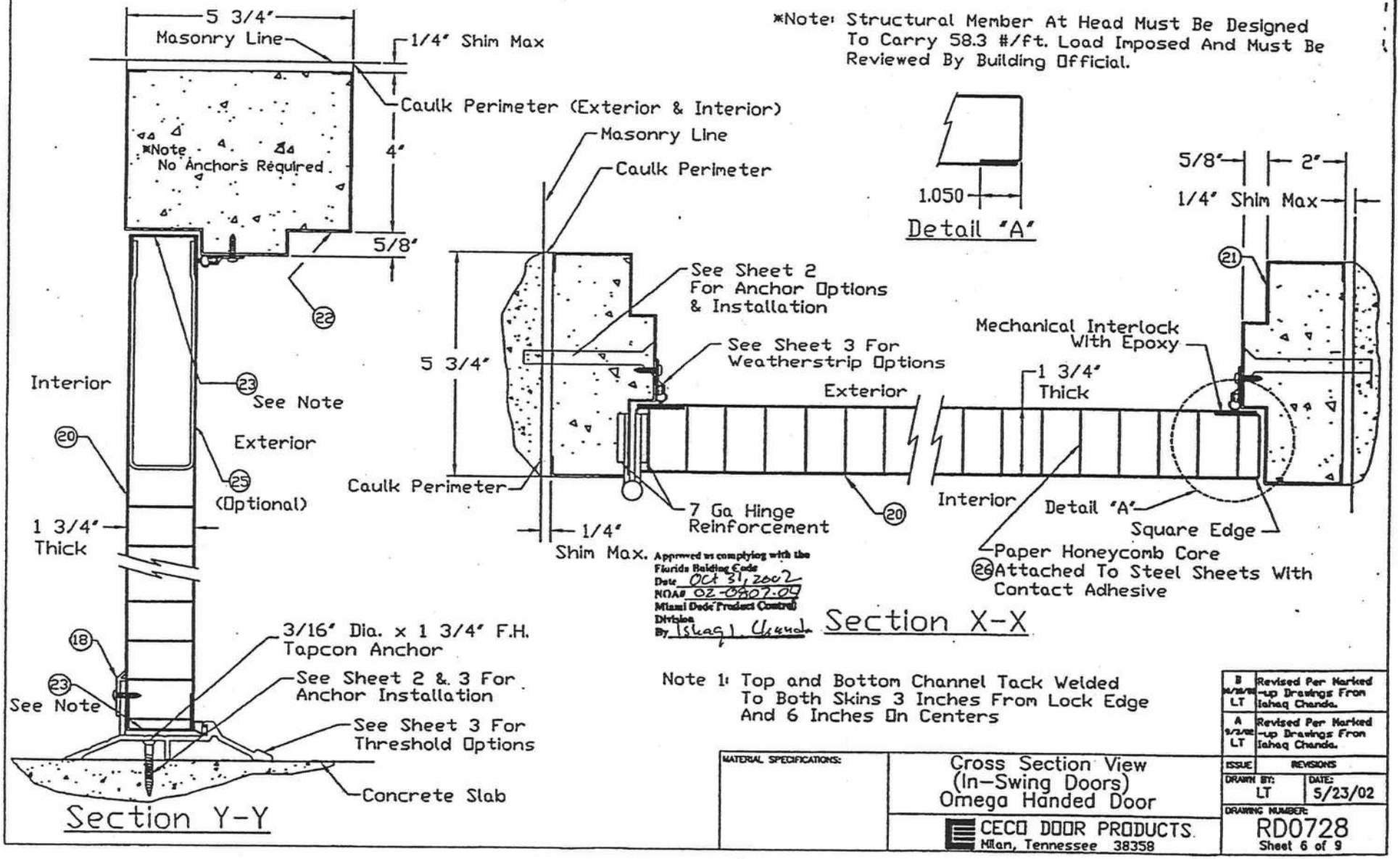
Saflok Premier SL2500

Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By [signature]

MATERIAL SPECIFICATIONS:	Lock Reinforcement (Inswing Doors) Regent, Omega, Imperial, Versadoor Reinforcement Details
	CECO DOOR PRODUCTS Milan, Tennessee 38358

A 5/29/02 LT	Added RD0528, RD0529 & RD0530.	
ISSUE	REVISIONS	
DRAWN BY: LT	DATE: 5/28/02	
DRAWING NUMBER: RD0728 Sheet 4 of 9		

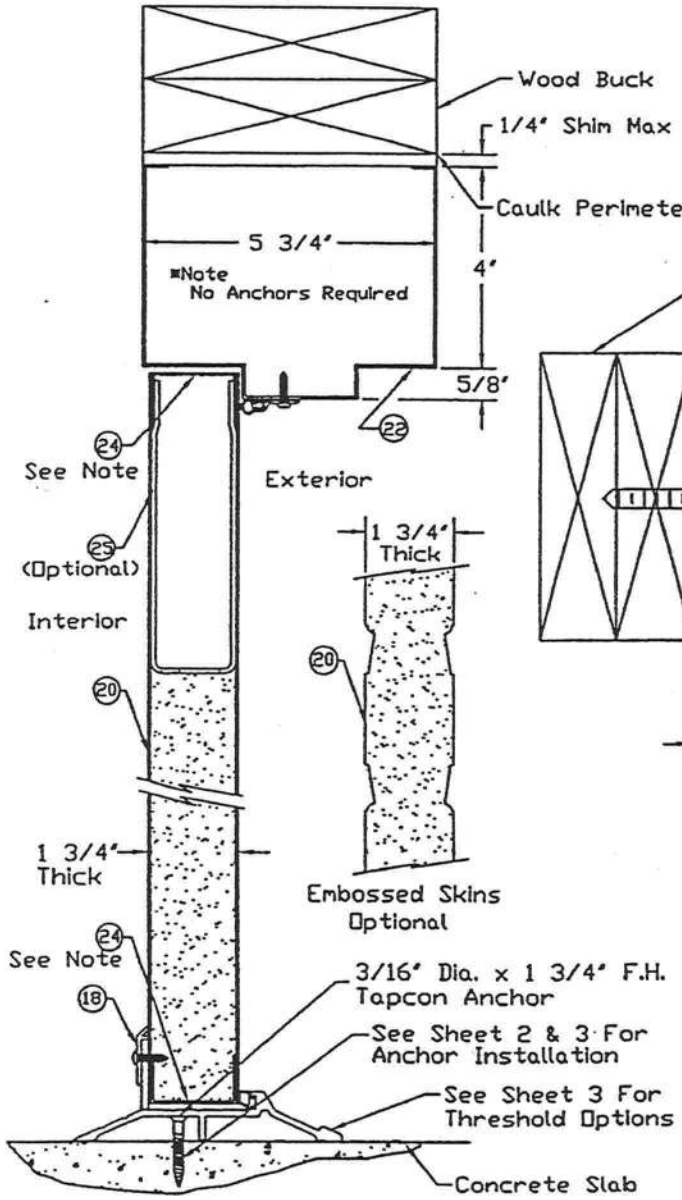

5 3/4"
Masonry Line
1/4" Shim Max
*Note: No Anchors Required
Caulk Perimeter (Exterior & Interior)
4"
5/8"
22
Interior
23
See Note
25
(Optional)
20
1 3/4" Thick
Exterior
18
3/16" Dia. x 1 3/4" F.H. Tapcon Anchor
23
See Note
See Sheet 2 & 3 For Anchor Installation
See Sheet 3 For Threshold Options
Concrete Slab
Section Y-Y
*Note: Structural Member At Head Must Be Designed To Carry 58.3 #/ft. Load Imposed And Must Be Reviewed By Building Official.
Masonry Line
Caulk Perimeter
5 3/4"
See Sheet 2 For Anchor Options & Installation.
See Sheet 3 For Weatherstrip Options
Caulk Perimeter
1/4" Shim Max.
7 Ga Hinge Reinforcement
20
Interior
Exterior
1 3/4" Thick
Paper Honeycomb Core
26
Attached To Steel Sheets With Contact Adhesive
Section X-X
1.050
Detail "A"
5/8"
2"
1/4" Shim Max
21
Mechanical Interlock With Epoxy
Detail "A"
Bevel Edge
Note 1: Top and Bottom Channel Tack Welded To Both Skins 3 Inches From Lock Edge And 6 Inches On Centers
Approved as complying with the Florida Building Code
Date 0CT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda
C 10/30/02 LT Revised Per Marked -up Drawings From Ishaq Chanda.
B 9/30/02 LT Revised Per Marked -up Drawings From Ishaq Chanda.
ISSUE REVISIONS
MATERIAL SPECIFICATIONS:
Cross Section View (Inswing Doors) Regent Handed Door
CECO DOOR PRODUCTS Milan, Tennessee 38358
DRAWN BY: LT
DATE: 5/22/02
DRAWING NUMBER: RD0728
Sheet 5 of 9



Note 1: Top and Bottom Channel Tack Welded To Both Skins 3 Inches From Lock Edge And 6 Inches On Centers

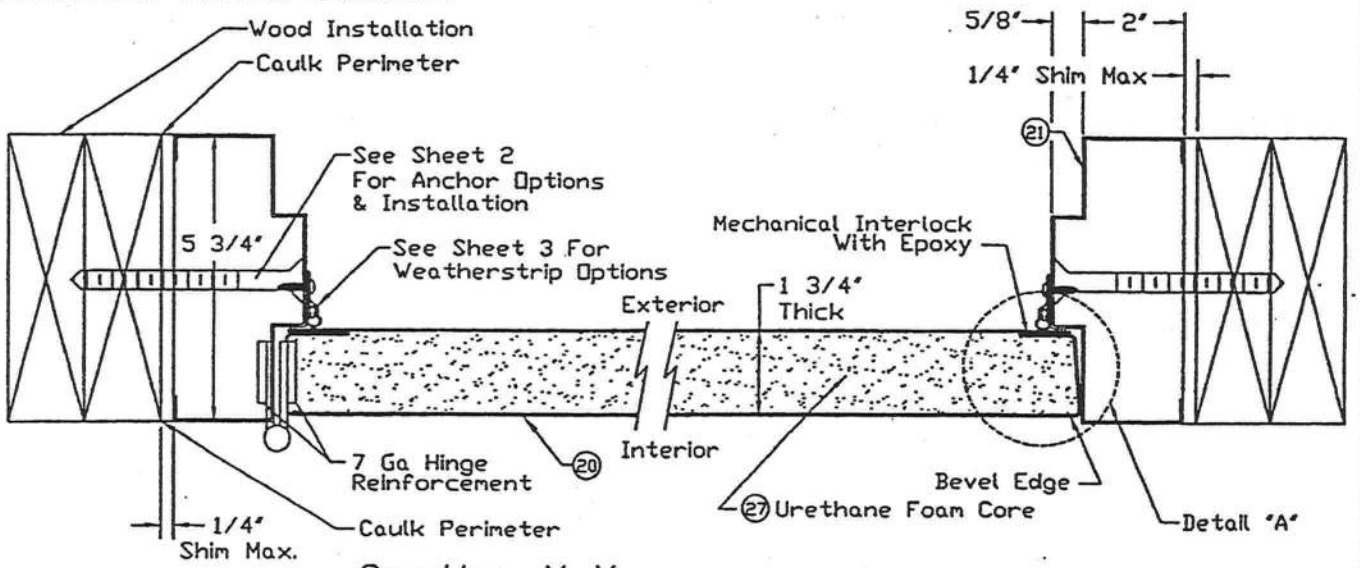
MATERIAL SPECIFICATIONS:	Cross Section View (In-Swing Doors) Omega Handed Door
	CECO DOOR PRODUCTS Milan, Tennessee 38358

B 8/28/02 LT	Revised Per Marked -up Drawings From Ishaq Chanda.
A 8/2/02 LT	Revised Per Marked -up Drawings From Ishaq Chanda.
ISSUE	REVISIONS
DRAWN BY: LT	DATE: 5/23/02
DRAWING NUMBER: RD0728 Sheet 6 of 9	



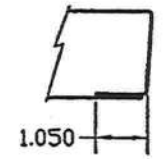
Section Y-Y

Note: Structural member at Head Must Be Designed To carry 58.3 #/ft. Load Imposed And Must Be Reviewed By Building Official.



Section X-X

Note: Top & Bottom Channels Assembled Std Method To Skins With Spot Welds & Tape. Channels Are Then Tack Welded To Both Skins 3" From Lock Edge And 6 Inches On Center.



Detail "A"

Approved as complying with the Florida Building Code
Date OCT 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq J. Chanda

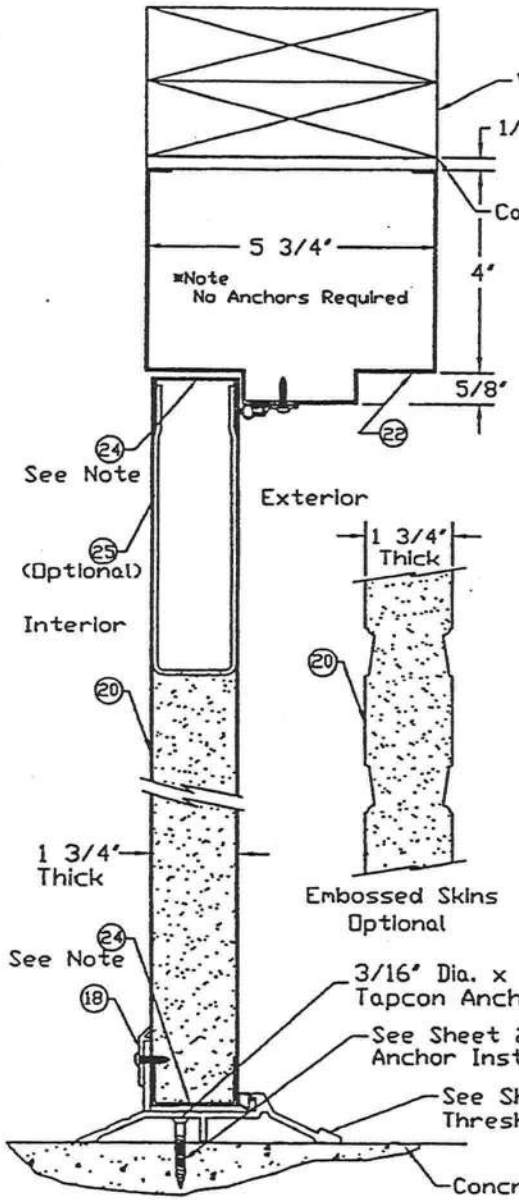
B w/use LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
ISSUE	REVISIONS

MATERIAL SPECIFICATIONS:

Cross Section View
(In-Swing Doors)
Imperial Handed Door

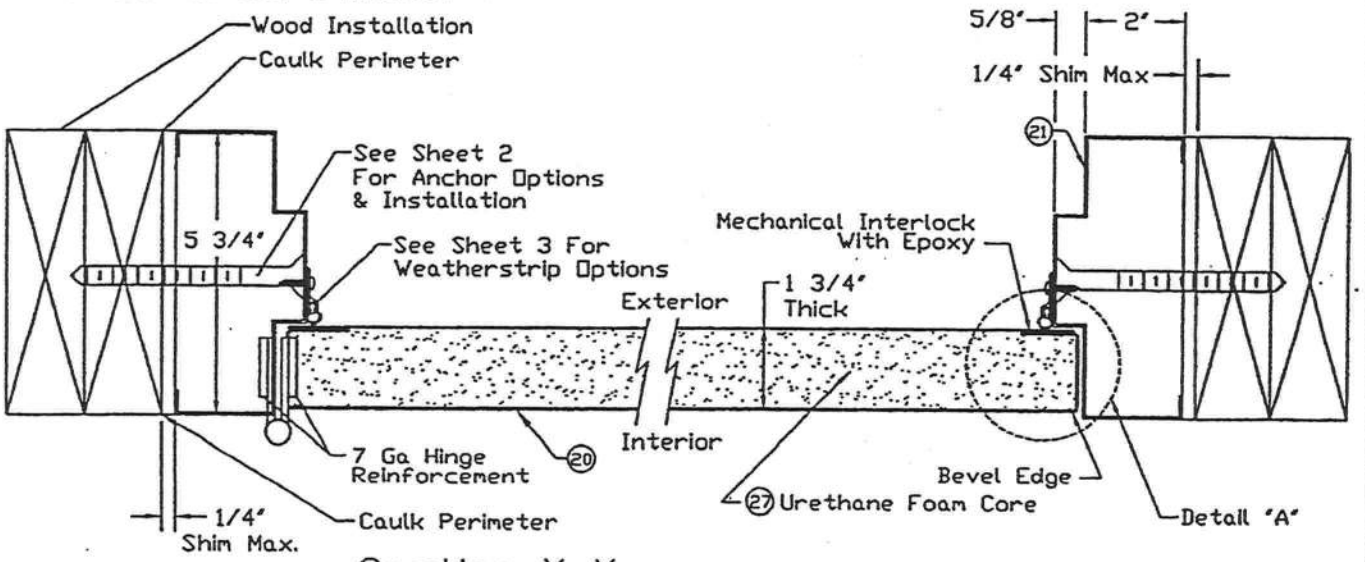
CECO DOOR PRODUCTS
Milan, Tennessee 38358

DRAWN BY: LT
DATE: 5/23/02
DRAWING NUMBER: RD0728
Sheet 7 of 9



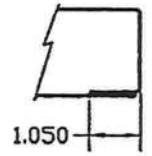
Section Y-Y

Note: Structural member at Head Must Be Designed To carry 58.3 #/ft. Load Imposed And Must Be Reviewed By Building Official.



Section X-X

Note: Top & Bottom Channels Assembled Std Method To Skins With Spot Welds & Tape. Channels Are Then Tack Welded To Both Skins 3" From Lock Edge And 6 Inches On Center.



Detail "A"

Approved as complying with the Florida Building Code
Date OCT 21, 2002
NOA# 02-0507.04
Miami Dade Product Control
Division
By Ishaq Chanda

B	Revised Per Marked-Up Drawings From Ishaq Chanda.
sheet LT	

ISSUE	REVISIONS
DRAWN BY: LT	DATE: 5/23/02

DRAWING NUMBER: RD0728
Sheet 8 of 9

MATERIAL SPECIFICATIONS:

Cross Section View
(In-Swing Doors)
Versadoor Handed Door

CECO DOOR PRODUCTS
Milan, Tennessee 38358

1	Cylindrical Lock & Lock Reinforcement (RD0528)	Schlage	AL53PD
1A	Deadbolt (Optional) Ⓓ	Schlage	B100
2	Or Cylindrical Lock & Lock Reinforcement	Saflok	Premier SL2500
3	Or Mortise Lock	Saflok	MT
4	Caulk	Dow Corning	899 Silicone Glazing Sealant
5	Threshold	Pemko	2005AV36
6	Or	Pemko	181AV36
7	Weatherstrip	Pemko	303AV3684
8	Hinge (Ball Bearing)	Hager or Equal (Attached w/ (8) #12-24 x 1/2 MS Per Hinge)	4-1/2 x 4-1/2 x .134 (Std Weight)
9	Or (Spring)	Hager or Equal (Attached w/ (8) #12-24 x 1/2 MS Per Hinge)	4-1/2 x 4-1/2 x .134 (Std Weight)
10	Weatherstrip	Pemko	S88
11	Frame Anchor	Masonary Tee (RD0057)	16 ga (.053" min) Galv Steel Fymin = 30ksi
12	Or	Wire, Relaxed Dimension 9" x 8"	#7 (.167 " min) Galv Steel Wire (70,000 - 90,000 psi Tensile Strength)
13	Or	Expansion Bolt	3/8" x 5" F.H. Rawl Lok/Bolt
14	Or	Wood Lag Screw	Or 3/8" x 5" F.H. Ramset/RED Head
15	Viewer	Hager	3/8" x 4-5/8"
16	Or	MAG Security	1755
17	Drip Cap; Top	Pemko	8724-C
18	Sweep	Pemko	346
19	Floor Anchor	Fixed Floor Anchor	315 N
20	Face Sheet A60 Galv Conforming To ASTM A653	Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 ga (.053" min) galvanized Steel
21	Series SF, Frame Jamb, Double Rabbet Profile, A60 Galv Conforming To ASTM A653	16 Ga (.053" min) Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 Ga (.053" min) 2" Face, 5-3/4" Depth Min. (RD0033)
22	Series SF, Frame Head, Double Rabbet, Profile A60 Galv Conforming To ASTM A653	16 Ga (.053" min) Commercial Steel Type B (Minimum Yield Strength 30,000psi)	4" Face, 5-3/4" Depth Min. (RD0033)
23	Door Channels; Spot Welded To Botton Skin Glued To Top Skin; Tack Welded To Both	16 Ga (.053" min) A60 Galv Conforming To ASTM A653 Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 ga (.053" min) x 1" x 1-3/4" x 1"
24	Door Channels; Spot Welded To Botton Skin Taped To Top Skin; Tack Welded To Both	16 Ga (.053" min) A60 Galv Conforming To ASTM A653 Commercial Steel Type B (Minimum Yield Strength 30,000psi)	16 ga (.053" min x 1" x 1-3/4" x 1"
25	Closer Reinforcement (Optional)	12 Ga (.093" min) CS Type B	12 ga (.093" min) x 5-3/8" x 16"
26	Honeycomb Core	Non-Impregnated Kraft Paper Ⓔ	1.2" Nominal Cell Size
27	Urethane Core	Foam Enterprises	2 lb/ft³ Density

Approved as complying with the Florida Building Code
Date Oct 31, 2002
NOA# 02-0807.04
Miami Dade Product Control Division
By Ishaq I. Chanda

B 10/10/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.
A 9/4/02 LT	Revised Per Marked-Up Drawings From Ishaq Chanda.

MATERIAL SPECIFICATIONS:

3-0 x 7-0 Series In-Swing Bill Of Materials

CECO DOOR PRODUCTS
Milan, Tennessee 38358

ISSUE	REVISIONS
DRAWN BY: LT	DATE: 5/28/02

DRAWING NUMBER: RD0728
Sheet 9 Of 9

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

MI Home Products, Inc.
650 West Market Street
Gratz, PA 17030

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "BetterBilt D185SH/D3185SH" Aluminum Single Hung Window

APPROVAL DOCUMENT: Drawing No. **S-2422,** titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Theodore Berman, P.E.**

2/13/2003

PRODUCT CONTROL ACCEPTED

NOA No 03-1215.02
Expiration Date: March 04, 2009
Approval Date: March 04, 2004

MI Home Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **S-2422,** titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 03056**, dated 11/11/03, signed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/11/03, signed and sealed by Lyndon F. Schmidt, P.E.
2. Revised Anchor Calculations, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/04, signed and sealed by Lyndon F. Schmidt, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated December 09, 2003, signed and sealed by Lyndon F. Schmidt, P.E.
2. Statement letter of no financial interest with the laboratory that performed the Test Report No. **ATI 03056**, dated November 08, 2003, signed by Stu White, Design Engineering Manager.

G. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-1215.02
Expiration Date: March 04, 2009
Approval Date: March 04, 2004

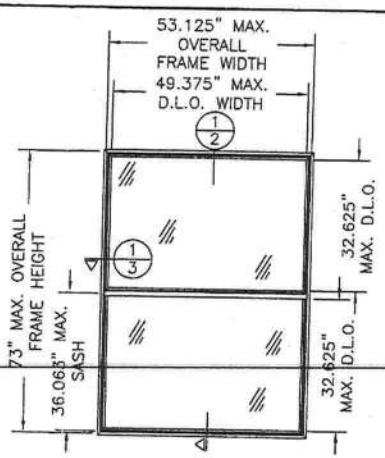
MI HOME PRODUCTS

650 WEST MARKET STREET • GRATZ, PA • 17030-0370

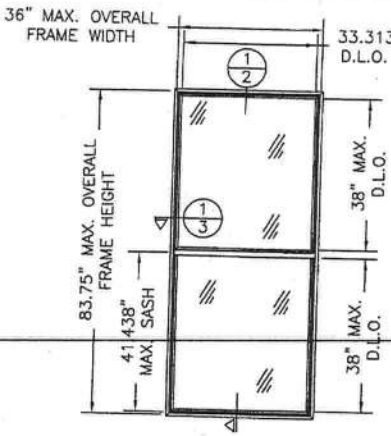
SERIES BETTERBILT D185SH/D3185SH
ALUMINUM SINGLE HUNG WINDOW

GENERAL NOTES:

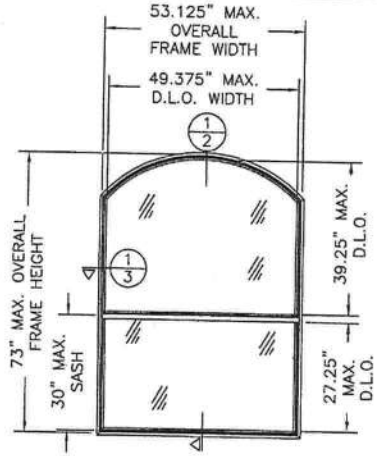
1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE "HVHZ" OF THE FLORIDA BUILDING CODE.
2. WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.
5. INSTALLATION OF THIS SYSTEM IN HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS; INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.
6. THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.



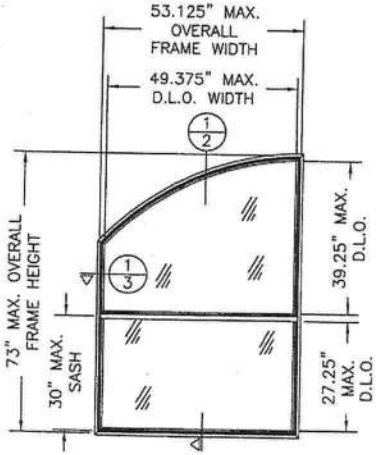
53" x 73" SINGLE HUNG WINDOW



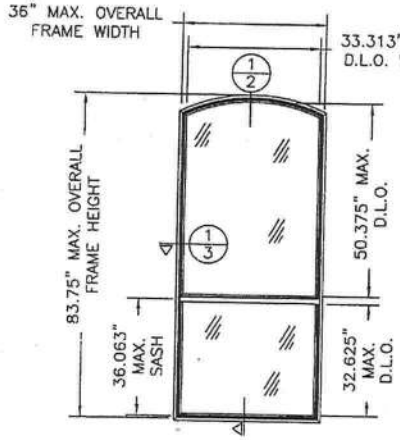
37" x 84" SINGLE HUNG WINDOW



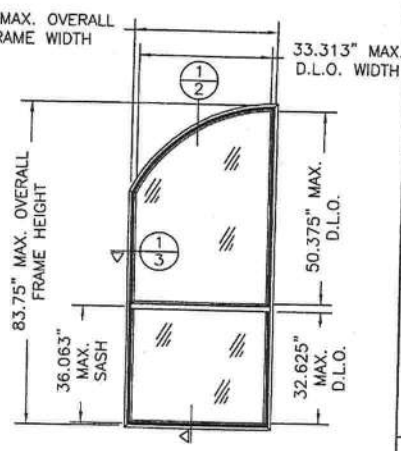
53" x 73" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS & GLAZING DETAIL
4	ANCHORING LOCATIONS
5	COMPONENTS, BILL OF MATERIALS

DESIGN PRESSURE RATINGS (PSF)			
GLASS	MAX. SIZE	DP POS.	DP NEG.
1/8" Temp.	OA 53" x 73"	+56.7	-69.3
1/8" Temp.	OA 37" x 84"	+56.7	-69.3
3/16" Ann.	OA 53" x 73"	+42.0	-42.0
3/16" Ann.	OA 37" x 84"	+56.7	-58.0

ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

Approved as complying with the Florida Building Code
Date 03-04-04
NOA# 03-1215.02
Miami Dade Product Control
Division
By

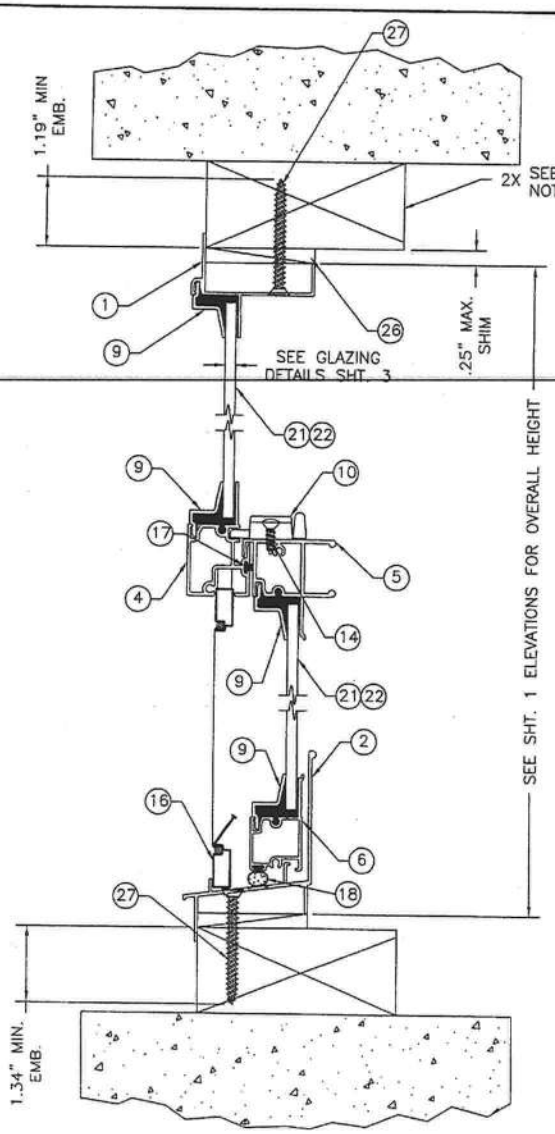
Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.869.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wendell Hall, P.E. No. 43158
2/10/04

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL

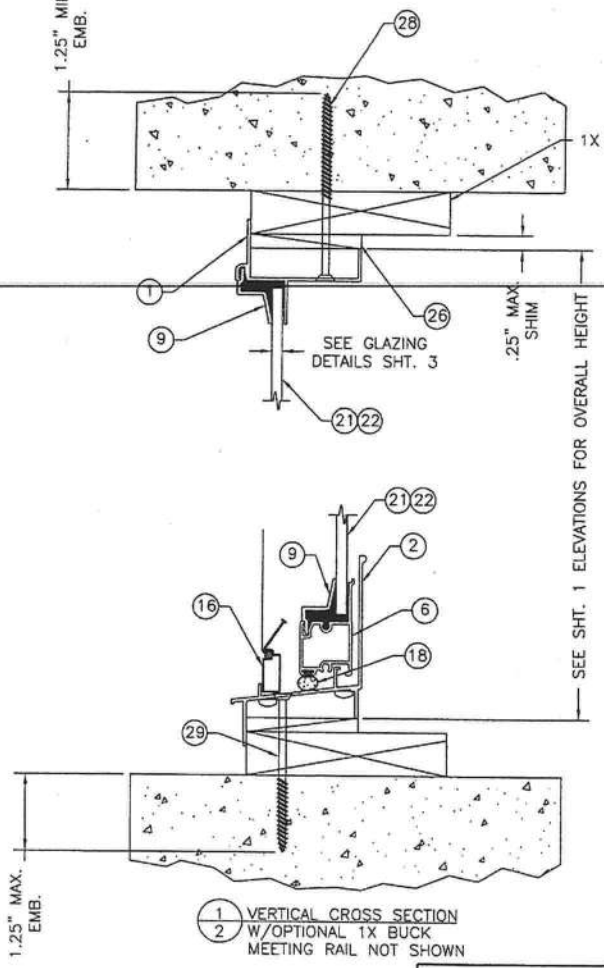
PART OR ASSEMBLY: GENERAL NOTES & TYPICAL ELEVATIONS

NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 1 OF 5



1/2 VERTICAL CROSS SECTION
W/2X BUCK



1/2 VERTICAL CROSS SECTION
W/OPTIONAL 1X BUCK
MEETING RAIL NOT SHOWN

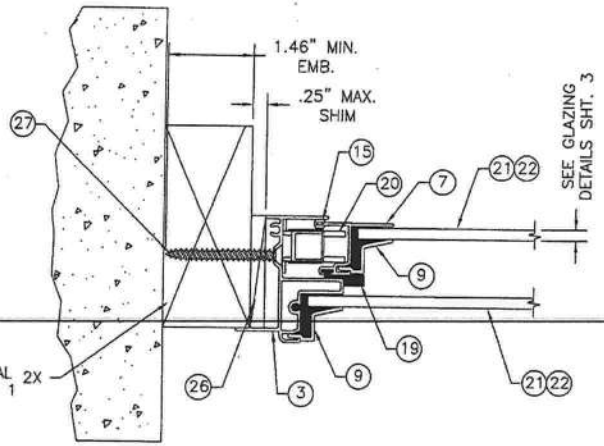
Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 05-1215.02
Miami-Dade Product Control Division
By

Product Approval 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. 9813
Wendell Hollis, P.E. No. 54158
2/10/04

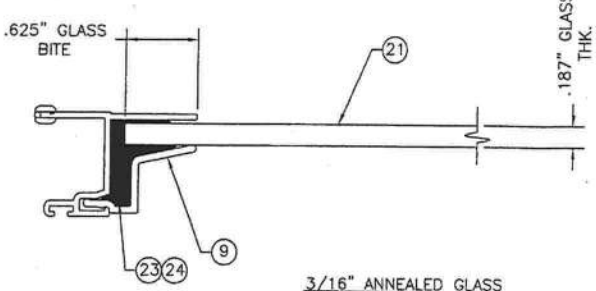
PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREIAL
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

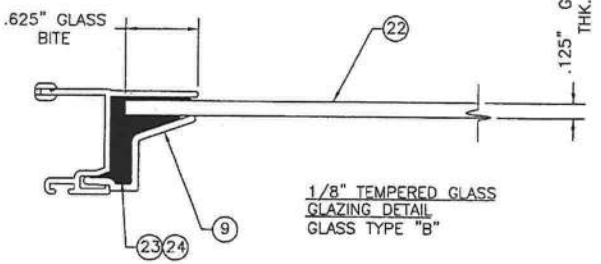
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 2 OF 5



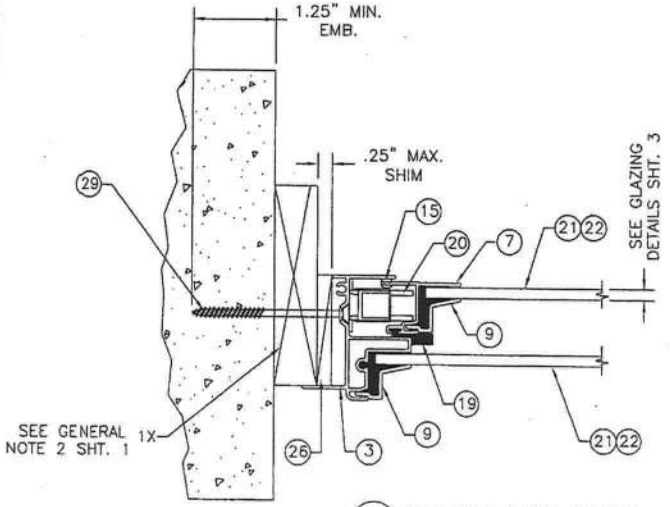
1/3 HORIZONTAL CROSS SECTION
W/2X BUCK



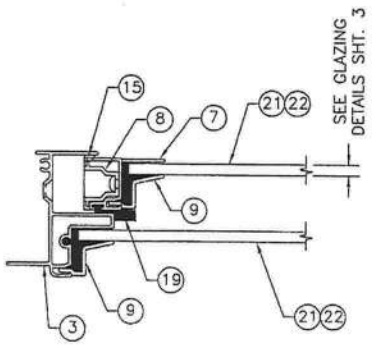
3/16" ANNEALED GLASS
GLAZING DETAIL
GLASS TYPE "A"



1/8" TEMPERED GLASS
GLAZING DETAIL
GLASS TYPE "B"



1/3 HORIZONTAL CROSS SECTION
W/1X BUCK



1/3 HORIZONTAL CROSS SECTION
SHOWING SASH CAM
MASONRY & BUCK NOT SHOWN

NOTES:
1. THE MAIN FRAME HEAD, SIDES AND SILL ARE CONNECTED TOGETHER AT EACH CORNER WITH (2) ITEM #11, A #8 x 3/4" PHILLIPS PAN HEAD SCREW. THE SCREWS RUN FROM THE HEAD DOWN INTO THE SIDES AND FROM THE SILL UP INTO THE SIDES.
2. THE FIXED MEETING RAIL IS SECURED TO THE SIDES WITH (2) EACH SIDE ITEM #12, A #8 x 1 1/4" PHILLIPS PAN HEAD SCREW.
3. THE SASH CORNERS ARE CONNECTED TOGETHER WITH (2) EACH CORNER ITEM #13, A #6 x 3/4" PHILLIPS PAN HEAD SCREW.

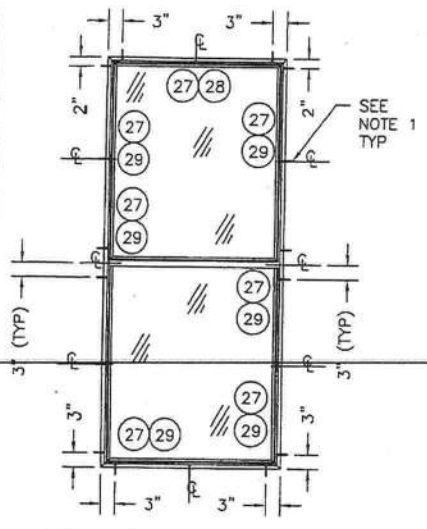
Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-125.02
Miami-Dade Product Control Division
By

Product Approval 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. 9813
Wendell House, P.E. No. 54158
2/10/04

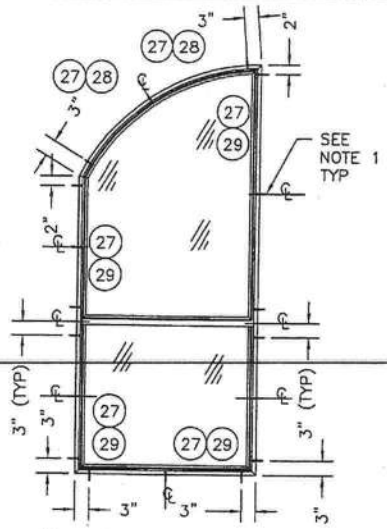
PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREIAL
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & GLAZING DETAILS

NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

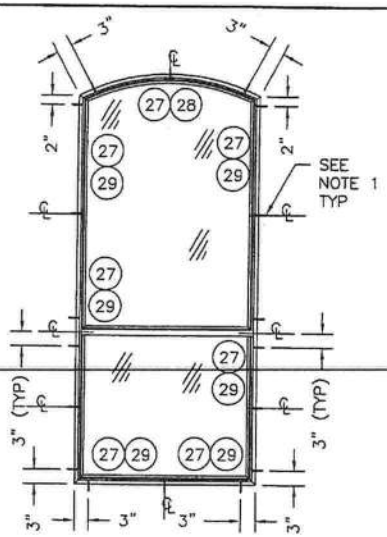
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 3 OF 5



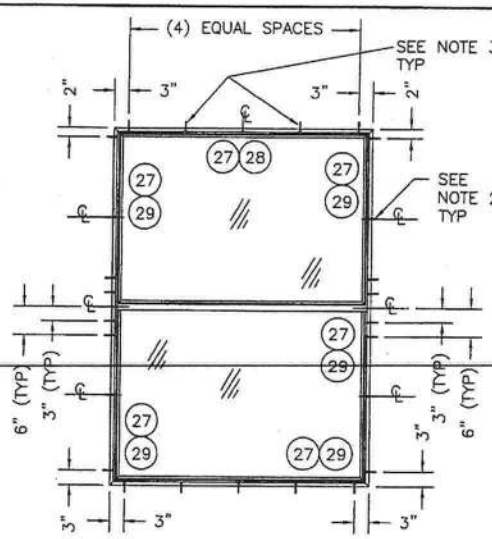
37" x 84" SINGLE HUNG WINDOW



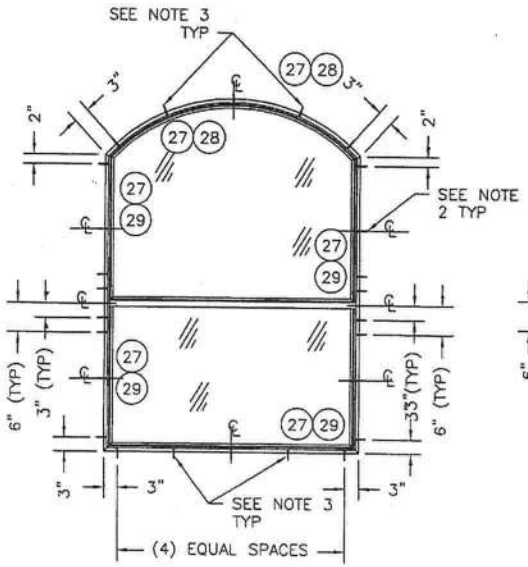
37" x 84" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL



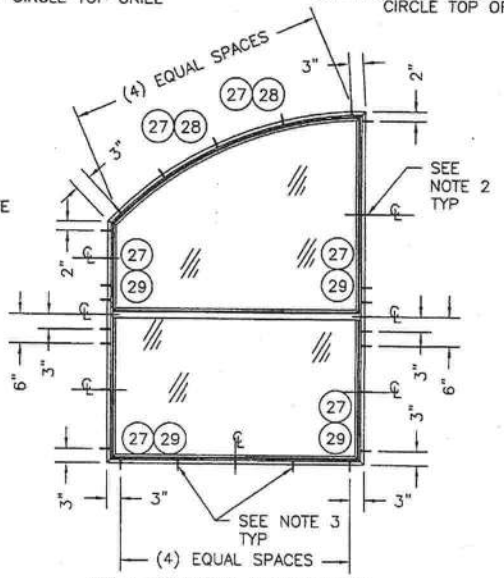
37" x 84" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW



53" x 73" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL

NOTES:
1. FOR UNITS SMALLER THAN 30"x60" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
2. FOR UNITS SMALLER THAN 53"x60" OR SMALLER THAN 30"x66" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
3. FOR UNITS SMALLER THAN 36"x66" DO NOT INSTALL ANCHORS AT EITHER SIDE OF CENTER ANCHOR AT HEAD AND SILL JAMBS.

Approved as complying with the Florida Building Code
Date 03/04/04
NOA 03-1215.02
Miami-Dade Product Control Division
By

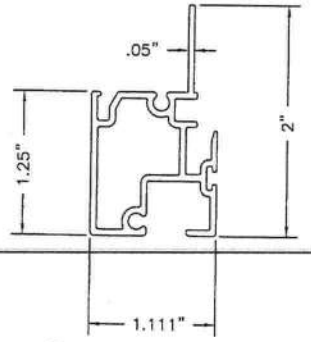
Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.653.8197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wendell Hall, P.E. No. 54158
2/10/04

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE CIRCLE TOP & ORIEL
PART OR ASSEMBLY: ANCHORING LOCATIONS

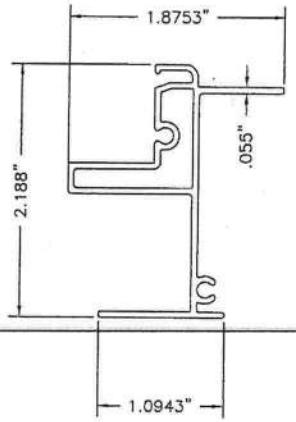
NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 4 OF 5

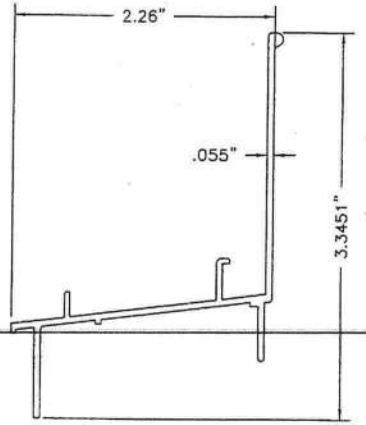
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	EXTRUDED ALUMINUM SINGLE HUNG 1/2" HEAD #CM-18501 BY MI METALS	ALUM.
2	EXTRUDED ALUMINUM SINGLE HUNG 1/2" SILL #CM-18502 BY MI METALS	ALUM.
3	EXTRUDED ALUMINUM SINGLE HUNG 1/2" JAMB #CM-18503 BY MI METALS	ALUM.
4	EXTRUDED ALUMINUM SINGLE HUNG FIXED MEETING RAIL #CM-18504 BY MI METALS	ALUM.
5	EXTRUDED ALUMINUM SINGLE HUNG SASH LOCK RAIL #CM-18505 BY MI METALS	ALUM.
6	EXTRUDED ALUMINUM SINGLE HUNG SASH BOTTOM RAIL #CM-18506 BY MI METALS	ALUM.
7	EXTRUDED ALUMINUM SINGLE HUNG SASH STILE #CM-18507 BY MI METALS	ALUM.
8	SASH CAM #I-185 BY BSI	–
9	GLAZING BEAD #V-185 BY MI PLASTICS	–
10	LOCK #30240-402 BY REFLECTOLITE	–
11	MAIN FRAME SCREW #8 x 3/4" PHHILLIPS PAN HEAD	STEEL
12	MEETING RAIL SCREW #8 x 1 1/4" PHILLIIPS PAN HEAD	STEEL
13	SASH SCREW #6 x 3/4" PHILLIPS PAN HEAD	STEEL
14	LOCK SCREW #8 x 5/8" PHILLIPS FLAT HEAD -PTD	STEEL
15	SASH GUIDE #80-02-8207 BY PLASTICS, AZ	–
16	WINDOW SCREEN	–
17	FIN WEATHERSTRIPPING .187" x .250" BY AMESBURY	–
18	BULB SEAL #32002 BY AMESBURY	–
19	DUST PLUG 5/8" x 7/8" x .25" BY AMESBURY	–
20	5/8" BLOCK & TACKLE 150 SERIES BY BSI	–
21	GLASS "A" SGL GLAZED 3/16" ANN. BY GUARDIAN	–
22	GLASS "B" SGL GLAZED 1/8" TEMP. BY GUARDIAN	–
23	BACKBEDDING #SM-2100 BY SCHNEE MOREHEAD	SILICONE
24	BACKBEDDING PURFECTGLAZE-H (HOTMELT)	–
25	GLASS SHIM 1/8" x 1/4" x 1" BY SECON	–
26	1/4" MAX SHIM	–
27	#12 X 2" PHILLIPS FLAT HEAD SHEET METAL SCREW	STEEL
28	3/16" x 3 1/4" ELCO TAPCON ANCHOR	STEEL
29	3/16 x 2 3/4" ELCO TAPCON ANCHOR	STEEL



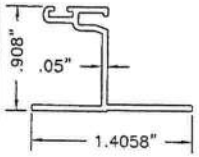
④ FIXED MEETING RAIL



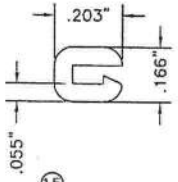
③ JAMB-FLANGE



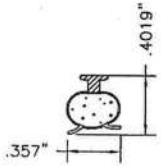
② SILL FIN



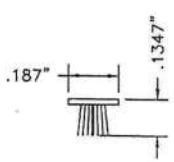
⑦ SASH STILE



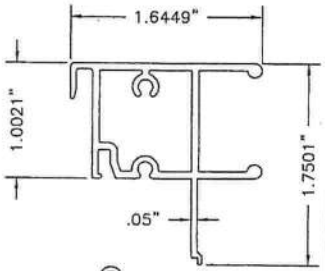
⑮ SASH GUIDE



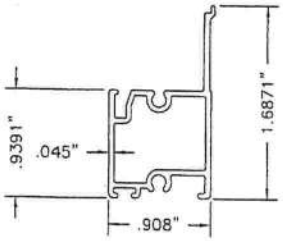
⑱ BULB SEAL



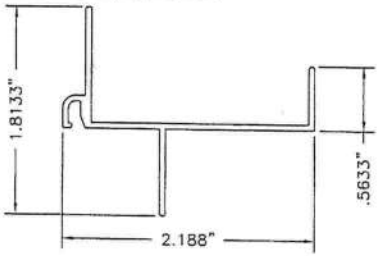
⑰ FIN WEATHERSTRIPPING



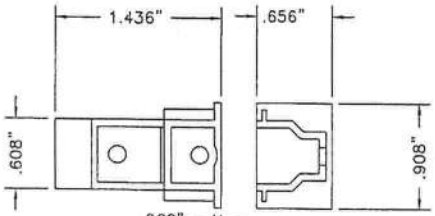
⑤ LOCK RAIL



⑥ SASH BOTTOM RAIL



① HEAD FLANGE



⑧ SASH CAM

Approved as complying with the Florida Building Code
Date: 03/04/04
NOA# 03-1215.02
Miami Dade Product Control Division
By:

Product Approval 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. 9813
Wendell Honey, P.E. No. 34758
2/10/04

PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREIAL

PART OR ASSEMBLY: BILL OF MATERIALS & UNIT COMPONENTS

NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 5 OF 5

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Mi Home Products, Inc.
650 West Market Street
Gratz, PA 17030

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Betterbilt D485/D3485" Aluminum Sliding Patio Door

APPROVAL DOCUMENT: Drawing No. **S-2425,** titled "Non-Impact Aluminum Sliding Patio Door Up to 6'0 x 6'8", sheets 1 through 5 of 5, prepared by R.W. Building Consultants, Inc., dated 12/18/03, signed and sealed by Lyndon F. Schmidt, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

2/13/2004

PRODUCT CONTROL ACCEPTED

NOA No 03-1224.01
Expiration Date: March 04, 2009
Approval Date: March 04, 2004
Page 1

Mi Home Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.

Drawing No. **S-2425,** titled "Non-Impact Aluminum Sliding Patio Door Up to 6'0 x 6'8", sheets 1 through 5 of 5, prepared by R.W. Building Consultants, Inc., dated 12/18/03, signed and sealed by Lyndon F. Schmidt, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum patio door, prepared by Architectural Testing, Test Report No. **ATI-03064** dated 12/17/03, signed and sealed by Steven M. Urich, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/22/03, signed and sealed by Lyndon Schmidt, P.E.

2. Revised Anchor Calculations and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/03, signed and sealed by Lyndon Schmidt, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of compliance and of no financial interest, dated 12/18/03, signed and sealed by Lyndon F. Schmidt, P.E.

2. Letter from MI Home Products, Inc., dated 11/08/03, stating that they have no financial interest with the laboratory that performed the testing of their products, singed by Stu White.

G. OTHER

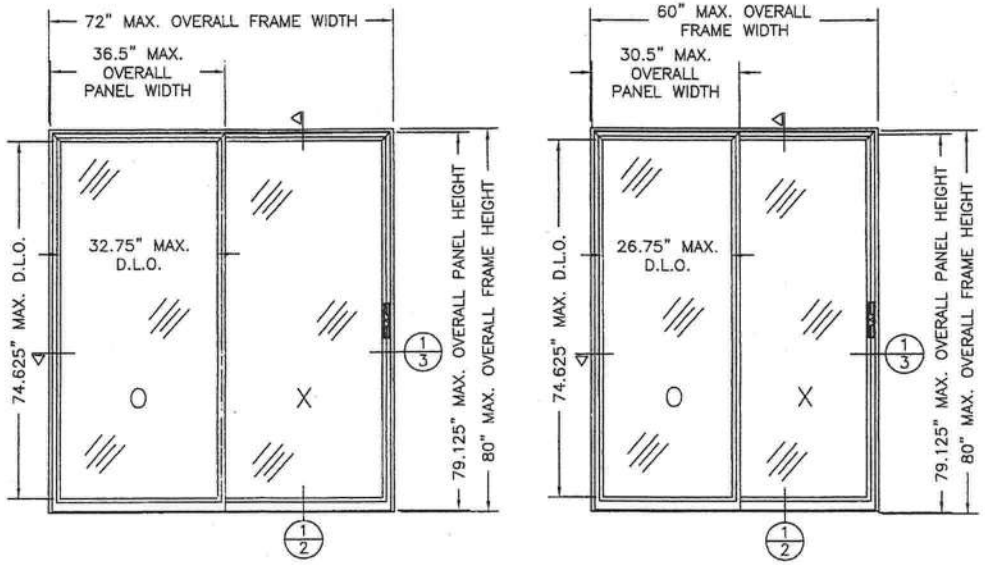
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code.

Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-1224.01
Expiration Date: March 04, 2009
Approval Date: March 04, 2004

MI HOME PRODUCTS

650 WEST MARKET STREET • GRATZ, PA • 17030-0370

SERIES BETTERBILT D485/D3485
ALUMINUM SLIDING PATIO DOOR



ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

GENERAL NOTES:

1. *THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HVHZ FLORIDA BUILDING CODE.*
2. *WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.*
3. *PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.*
4. *FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.*
5. *INSTALLATION OF THIS SYSTEM IN HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS; INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.*
6. *THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.*

TABLE OF CONTENTS

DESIGN PRESSURE RATING
+57.52 PSF -74.0 PSF

Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1224.01
Miami Dade Product Control
Division
By

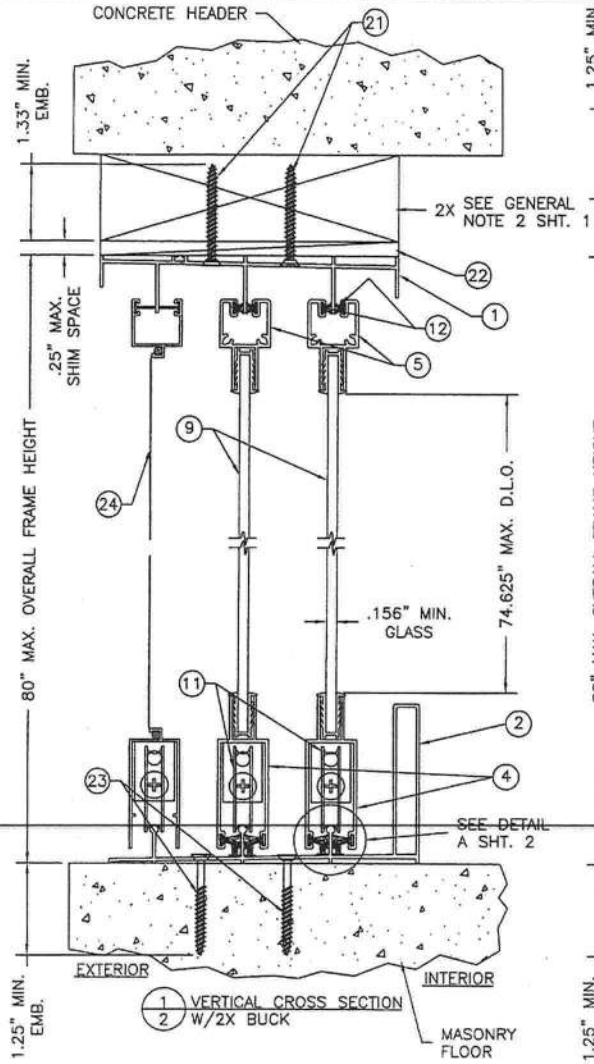
Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8

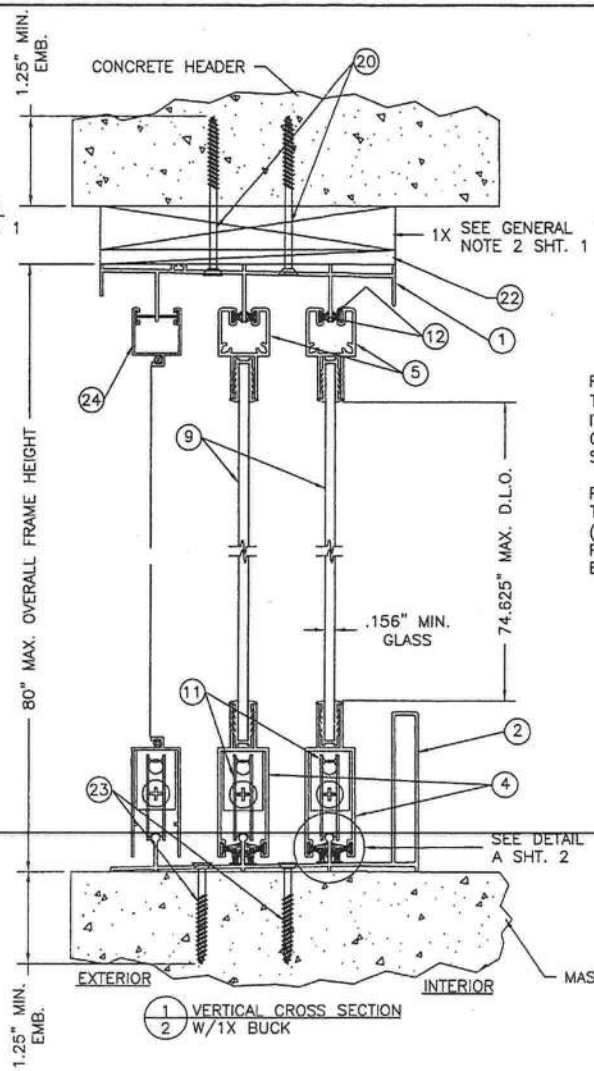
PART OR ASSEMBLY: GENERAL NOTES & TYPICAL ELEVATIONS

NO.	DATE	BY	REVISIONS

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 1 OF 5



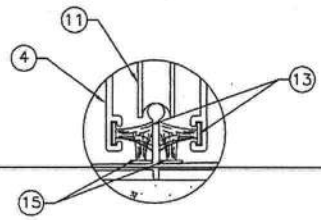
1/2 VERTICAL CROSS SECTION W/2X BUCK



1/2 VERTICAL CROSS SECTION W/1X BUCK

FRAME CONSTRUCTION NOTE:
THE FRAME CORNERS ARE BUTTED AND SECURED WITH (2) ITEM #19, A #8 x 5/8" FLAT HEAD SCREW, AT EACH CORNER THROUGH THE HEAD AND SILL INTO THE JAMB SCREW BOSS.

PANEL CONSTRUCTION NOTE:
THE PANELS CORNERS ARE BUTTED AND SECURED WITH (2) 8 x 3/4" PAN HEAD SCREWS LOCATED THROUGH THE PANEL JAMBS AND INTO THE PANEL HEAD AND SILL SCREW BOSS.



DETAIL A WEATHERSTRIP AT PANEL BOTTOM, TYP.

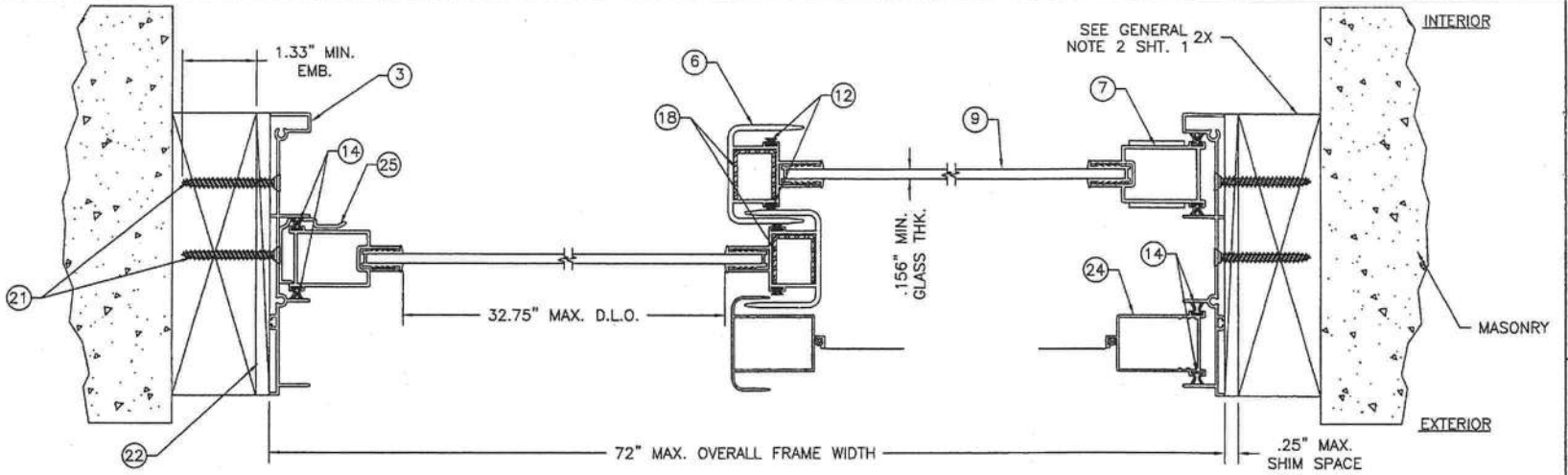
Approved as complying with the Florida Building Code
Date 02/04/04
NOA 03-1224.01
Miami-Dade Product Control
Division
By

Product Approval 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. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

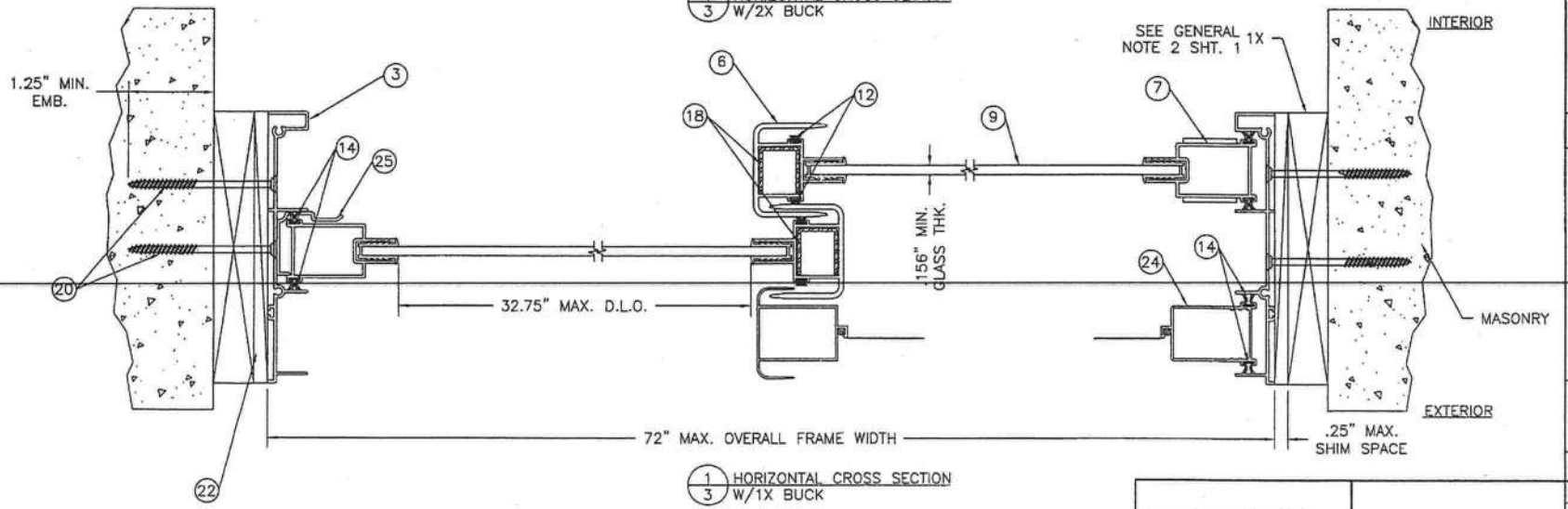
PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 60 x 68
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS & CONSTRUCTION NOTES

NO	DATE	REVISIONS	BY

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 2 OF 5



1/3 HORIZONTAL CROSS SECTION W/2X BUCK



1/3 HORIZONTAL CROSS SECTION W/1X BUCK

Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1229.01
Miami Dade Product Control
Division
By

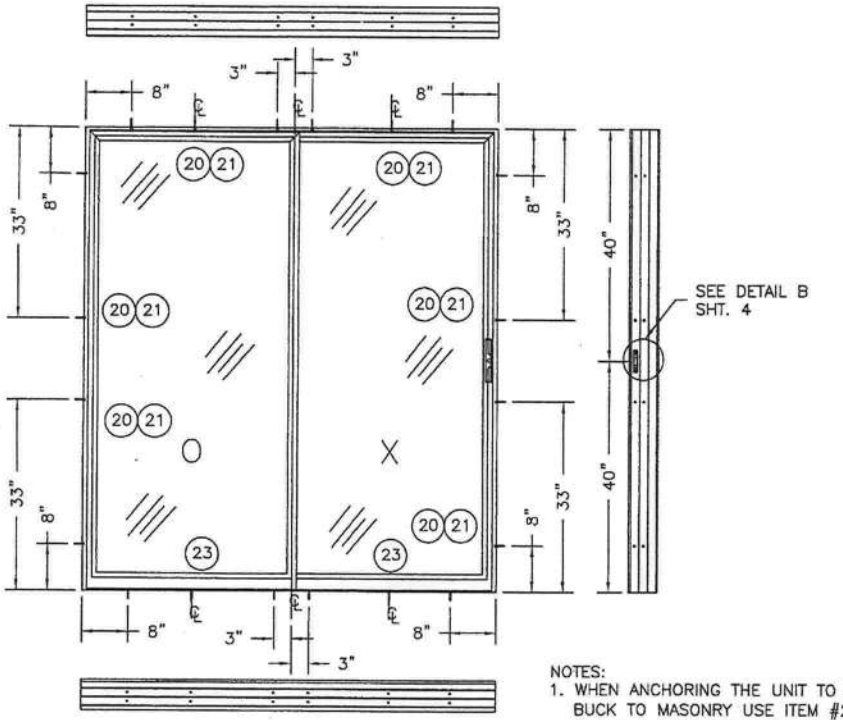
Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8

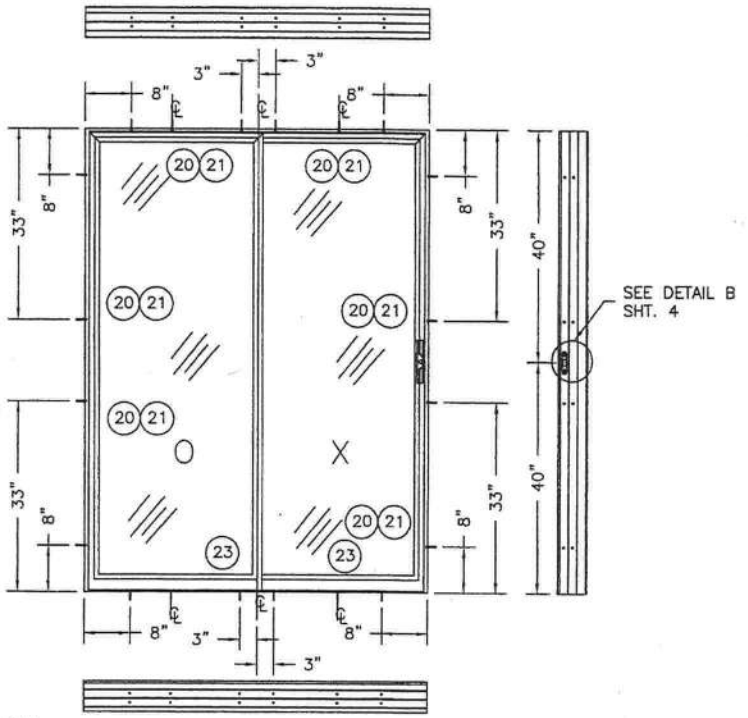
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	BY
REVISIONS		

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 3 OF 5

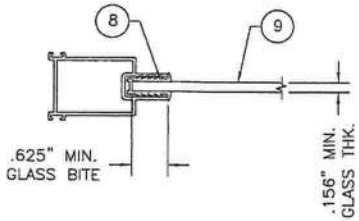


6'0 x 6'8 PATIO DOOR
SEE NOTES SHT. 4

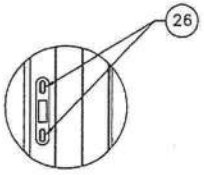


5'0 x 6'8 PATIO DOOR
SEE NOTES SHT. 4

NOTES:
1. WHEN ANCHORING THE UNIT TO A 2X BUCK TO MASONRY USE ITEM #21, A #10 x 1 3/4" PHILLIPS FLAT HEAD SHEET METAL SCREW AT THE HEAD AND SIDES.
2. WHEN ANCHORING THE UNIT THROUGH A 1X ~~BUCK INTO MASONRY USE ITEM #20, A~~ 3/16" x 2 3/4" TAPCON ANCHOR AT THE HEAD AND SIDES.
3. USE (2) ANCHORS PER EACH ANCHORING LOCATION SHOWN ABOVE.



5/32" TEMPERED GLASS
GLAZING DETAIL



DETAIL B
JAMB KEEPER ATTACHMENT

Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1229.01
Miami-Dade Product Control
Division
By

Product Approval Documents Prepared By:
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8

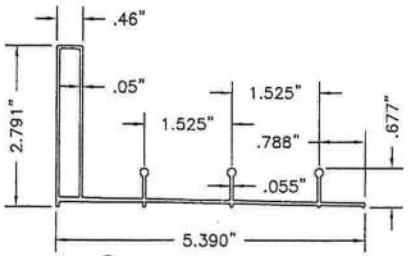
PART OR ASSEMBLY: ANCHORING LOCATIONS & GLAZING DETAILS

NO.	DATE	BY
	REVISIONS	

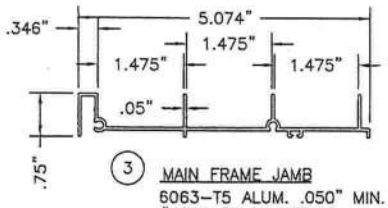
DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 4 OF 5

BILL OF MATERIALS

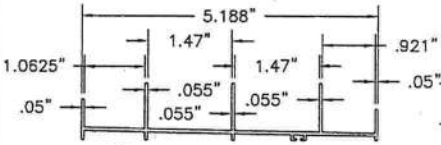
ITEM	DESCRIPTION	MATERIAL
1	EXTRUDED ALUM. MAIN FRAME HEAD #4208 BY MI METALS	ALUM.
2	EXTRUDED ALUM. MAIN FRAME SILL #4235 BY MI METALS	ALUM.
3	EXTRUDED ALUM. MAIN FRAME JAMB #4210 BY MI METALS	–
4	EXTRUDED ALUM. PANEL SILL #4200 MI METALS	ALUM.
5	EXTRUDED ALUM. PANEL HEAD #4202 BY MI METALS	ALUM.
6	EXTRUDED ALUM. PANEL INTERLOCK #4204 BY MI METALS	ALUM.
7	EXTRUDED ALUM. PANEL LOCK JAMB #4206 BY MI METALS	ALUM.
8	GLAZING CHANNEL #80–02–4202 BY MI PLASTICS	V–FLEX
9	GLAZING 5/32" TEMPERED GLASS	GLASS
10	MORTISE HANDLE SET #99–04–150 BY THRUTH HARDWARE	STEEL
11	TANDEM PANEL ROLLER #99–17–195 BY ULTRA	STEEL
12	CENTER FIN SEAL .180 x .250 PANEL HEAD & INTERLOCK BY AMESBURY	SYN. PILE
13	SIDE FIN SEAL .180 x .350 PANEL SILL BY AMESBURY	SYN. PILE
14	CENTER FIN SEAL .187 x .290 PANEL JAMB BY AMESBURY	SYN. PILE
15	NO FIN SEAL .270 x .290 SILL BY AMESBURY	SYN. PILE
16	#6 x 3/4" SQ. DR. SCREW PANEL HEAD TO JAMB	STEEL
17	1/4"–20 x 3/4" SQ. DR. SCREW FOR PANEL ASSEMBLY	STEEL
18	INTERLOCK REINFORCEMENT #99–17–525 BY MAGNOLIA METALS	STEEL
19	#8 x 5/8" FLAT HEAD SCREW FRAME CORNERS	STEEL
20	3/16" x 2 3/4" TAPCON ANCHOR	STEEL
21	#10 x 1 3/4" SHEET METAL SCREW	STEEL
22	1/4" MAX. SHIM MATERIAL	–
23	3/16" x 1 3/4" TAPCON ANCHOR	STEEL
24	ROLLING SCREEN DOOR ASSEMBLY	–
25	EXTRUDED ALUM. PANEL RETAINER #4222 BY MI METALS	ALUM.
26	#8 x 2" PHILLIPS PAN HEAD SHEET METAL SCREW	STEEL



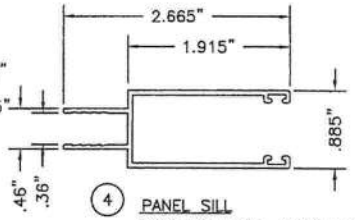
(2) MAIN FRAME SILL
6063–T5 ALUM. .050" MIN.
#4235 BY MI METALS



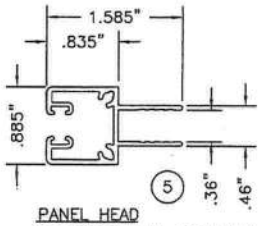
(3) MAIN FRAME JAMB
6063–T5 ALUM. .050" MIN.
#4210 BY MI METALS



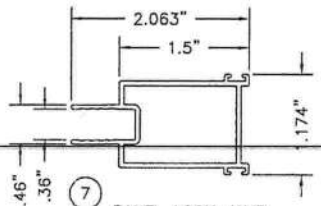
(1) MAIN FRAME HEAD
6063–T5 ALUM. .050" MIN.
#4208 BY MI METALS



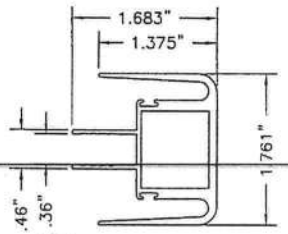
(4) PANEL SILL
6063–T5 ALUM. .055" MIN.
#4200 BY MI METALS



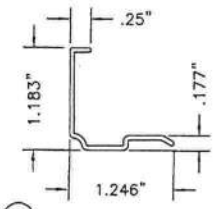
(5) PANEL HEAD
6063–T5 ALUM. .055" MIN.
#4202 BY MI METALS



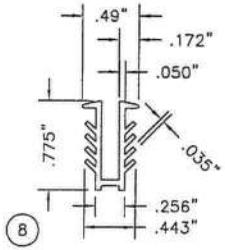
(7) PANEL LOCK JAMB
6063–T5 ALUM. .055" MIN.
#4206 BY MI METALS



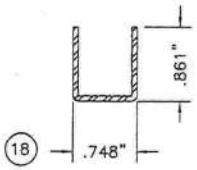
(6) PANEL INTERLOCK
6005–T5 ALUM. .055" MIN.
#4204 BY MI METALS



(25) PANEL RETAINER
6063–T5 ALUM. .055" MIN.
#4222 BY MI METALS



(8) GLAZING CHANNEL
V–FLEX
#80–02–4202
BY MI PLASTICS



(18) INTERLOCK REINFORCEMENT
.060" THK. GALVANIZED STEEL
#99–17–525 BY MAGNOLIA METALS

Approved as complying with the Florida Building Code
Date 05/04/04
NOA# 03-1224.01
Miami-Dade Product Control Division
By

Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
12/22/03
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT: NON-IMPACT ALUMINUM SLIDING PATIO DOOR UP TO 6'0 x 6'8

PART OR ASSEMBLY: BILL OF MATERIALS & UNIT COMPONENTS

NO	DATE	BY
REVISIONS		

DATE: 12/18/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2425
SHEET 5 OF 5

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

Outswing

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Therma-Tru Corporation
1687 Woodlands Drive
Maumee, Ohio 43537

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Classic Craft" 8'0 Outswing Opaque Fiberglass Door w & w/o Sidelites

APPROVAL DOCUMENT: Drawing No. **S-2162**, titled "Classic Craft Opaque" Single & Double Outswing 8'0 Fiberglass Door, sheets 1 through 7, prepared by RW Building Consultants, Inc., dated 11/10/01, with revision #2 dated 5/27/02, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA consists of this page 1 as well as approval document mentioned above
The submitted documentation was reviewed by **Manuel Perez, P.E.**

PRODUCT CONTROL ACCEPTED

NOTES
O MEET THE FLORIDA

IST BE ANCHORED PROPERLY
STRUCTURE.

AS LISTED AND SPACED AS
EMBEDMENT TO BASE MATERIAL
SSING OR STUCCO.

SEE TABLE SHEET 1.

TER REQUIREMENTS FOR
S" WITH USE OF HIGH DAM

IN AREAS REQUIRING WIND
ORIDA BUILDING CODE
SHUTTERS ARE REQUIRED.

) CAN BE USED IN A
ATION.

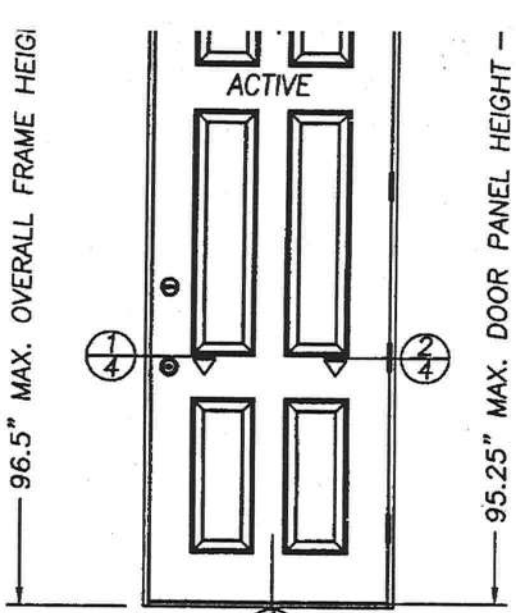
FIBERGLASS DOOR
me conditions)

1:
25" minimum thickness,
0 psi
core,

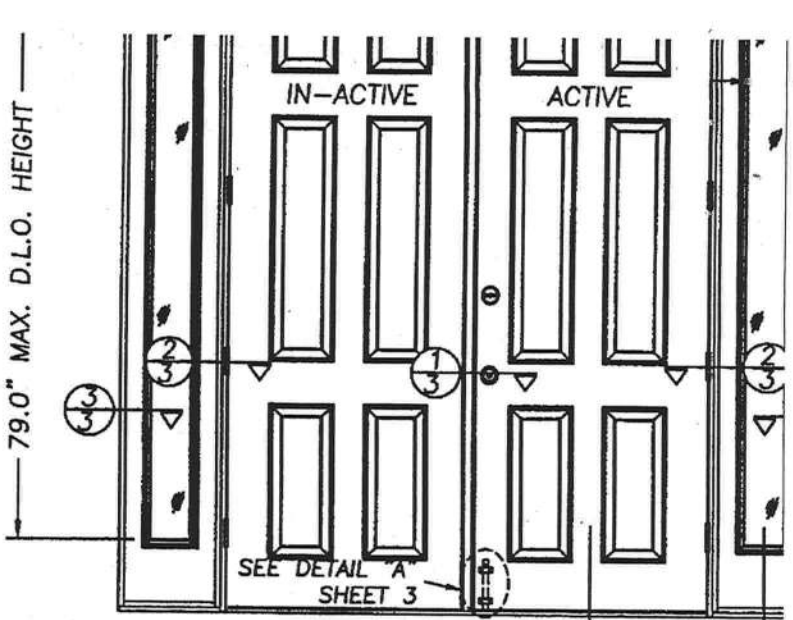
in is constructed from a
nd (SMC). The interior cavity
SF polyurethane foam. The
he wood stiles and rails.
/L or LSL. The latch stile
atch reinforcement. The top
composite material. In the
ive door is fitted with an
6060-T6 alloy.

cted from finger jointed pine. The
(3) #8 x 2 1/2" long Phillips flathead
red together in a sidelite application
) screws per each mullion. The units
a Low Profile or High Water Dam type.

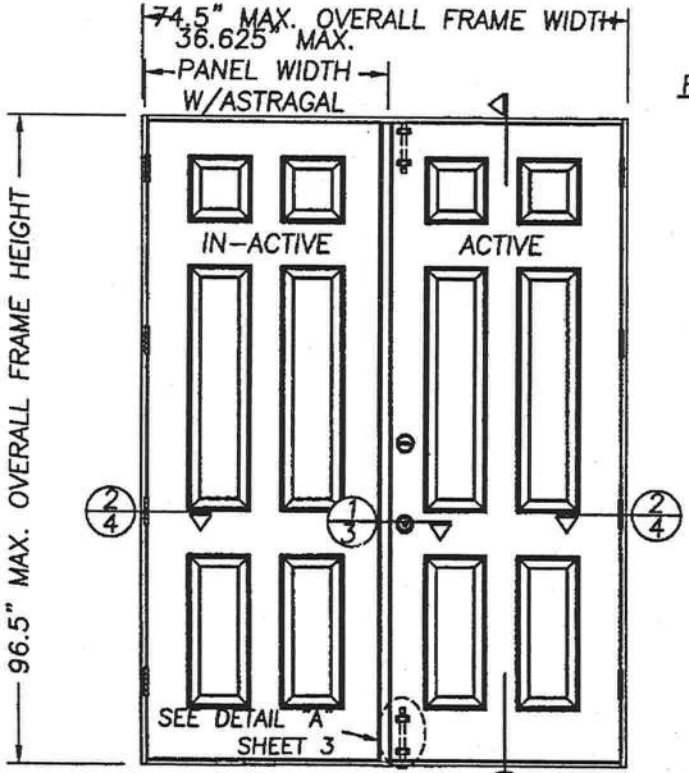
andwich glazed using a two piece
exterior with an 1/8" thk. cellular
Silicon Compound. The lite frames are
Plascrew or a #6-18 1 3/4" long



SINGLE OUTSWING UNIT

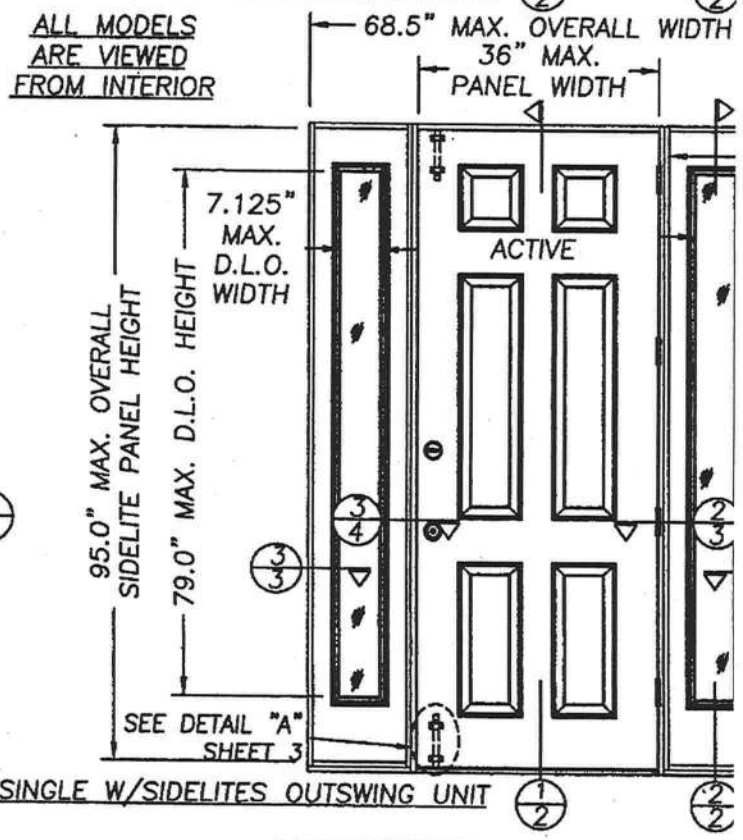


DOUBLE W/SIDELITES OUTSWING UNIT



DOUBLE OUTSWING UNIT

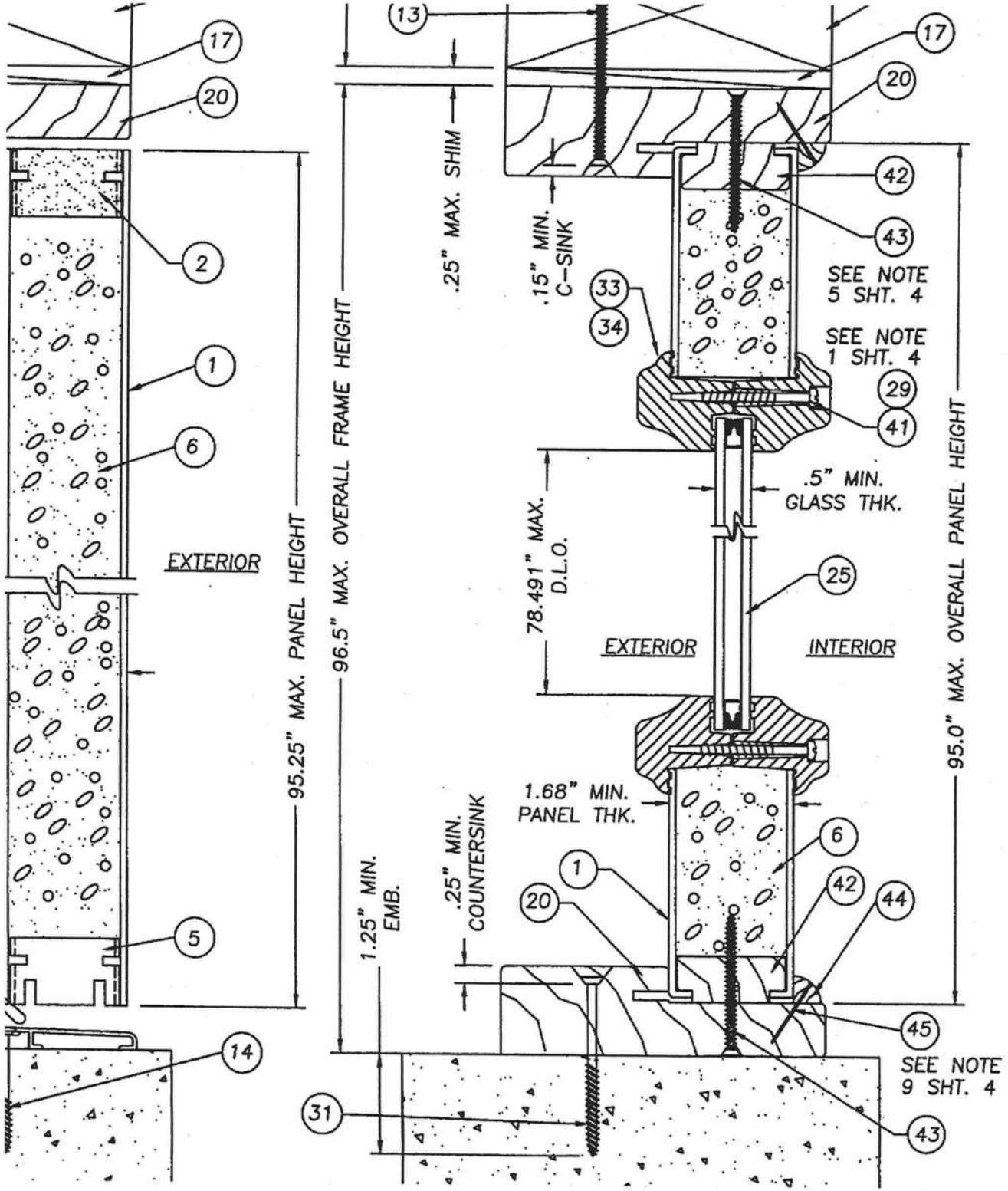
ALL MODELS ARE VIEWED FROM INTERIOR



SINGLE W/SIDELITES OUTSWING UNIT

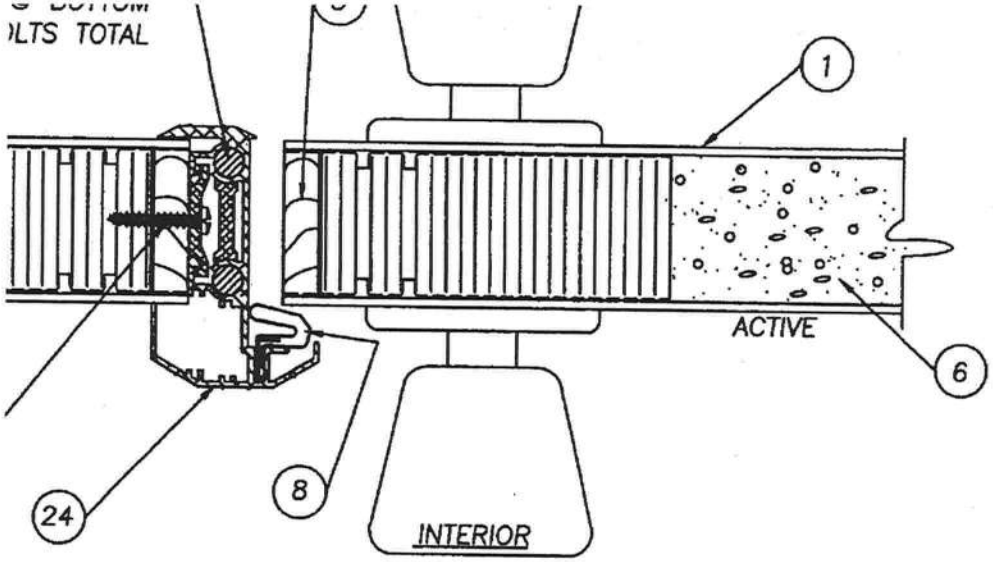
DESIGN PRESSURE RATING
WHERE WATER INFILTRATION IS REQUIRED

A1

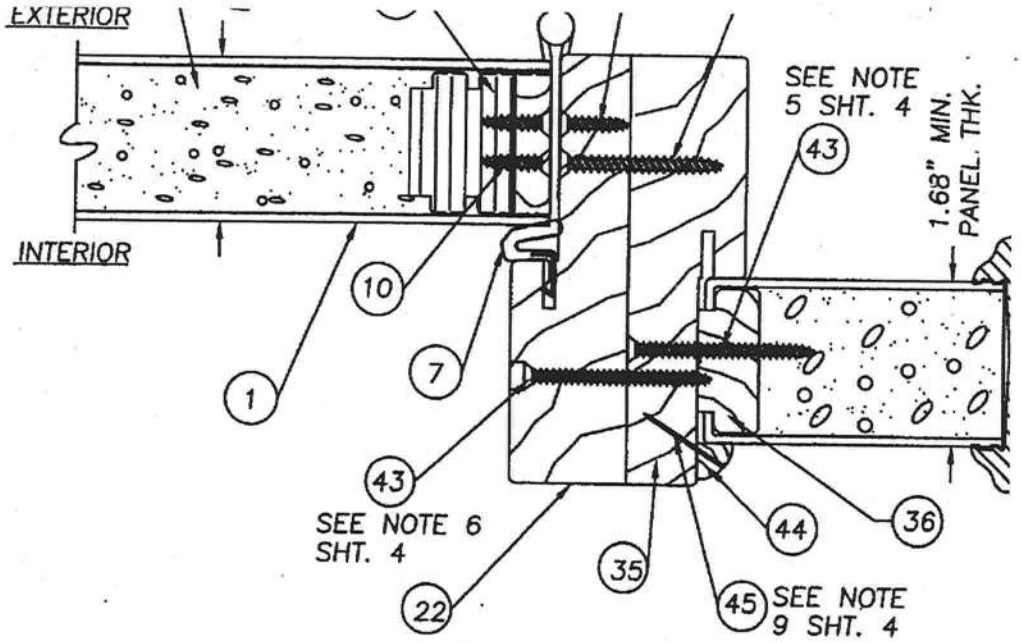


4	HINGE STILE (THERMA-TRU, LVL OR LSL & OAK 1.50" x
5	BOTTOM RAIL (1.50" x .94" THERMA-TRU WOOD COMPOSI
6	POLYURETHANE FOAM (BASF, 1.9lbs. DENSITY)
7	SHORT REACH COMPRESSION WEATHERSTRIP (THERMA-TRU
8	LONG REACH COMPRESSION WEATHERSTRIP (THERMA-TRU)
9	4" x 4" HINGE .097" THK. (THERMA-TRU)
10	#10 x 3/4" lg. PFH WOOD SCREW (Hinge to Frame)
11	NOT USED
12	#10 x 2" LG. PFH WOOD SCREW
13	#8 x 2 1/2" LG. PFH WOOD SCREW
14	3/16" TAPCON ANCHOR (ELCO)
15	NOT USED
16	2x INNER WOOD BUCK
17	MAX. 1/4" SHIM MATERIAL
18	KWIKSET TITAN 700 SERIES PASSAGE LOCK
19	ONE PIECE BUMP FACE THRESHOLD (THERMA-TRU) (NOT FOR USE IN "HIGH VELOCITY HURRICANE ZONES"
20	HEADER 4.656" x 1.211" (THERMA-TRU, PINE)
21	4.563" x 1.25" STRIKE JAMB (THERMA-TRU, PINE)
22	4.563" x 1.25" HINGE JAMB (THERMA-TRU, PINE)
23	KWIKSET TITAN 700 SERIES DEADBOLT
24	ASTRAGAL WINDJAMBER II WR80T (.052" WALL)
25	GLAZING, 1/2" INSULATED TEMPERED GLASS
26	NOT USED
27	#8 x 1" LG. PANHEAD SHEET METAL SCREW
28	NOT USED
29	#6-18 x 1 3/4" PHILLIPS FLATHEAD SCREW (FOR ITEM
30	NOT USED
31	3/16" TAPCON ANCHOR (ELCO, 2.5" MIN. LG.)
32	1/8 THK. CELLULAR GLAZING TAPE (STIK-II TAPE)
33	PLASTIC LIP LITE FRAME (PVC, THERMA-TRU)
34	PLASTIC LIP LITE FRAME (SMC THERMA-TRU)
35	4.656" x 1.211" BLANK JAMB (THERMA-TRU, PINE)
36	SIDELITE SIDE STILE (THERMA-TRU, 1.531" x .656" PINE)
37	#10 x 1 3/4" LG. PFH WOOD SCREW
38	SS. LATCH STILE (THERMA-TRU, WOOD COMPOSITE 1.531" x 4
39	HIGH WATER DAM THRESHOLD (USE IS REQUIRED IN "HIGH VELOCITY HURRICANE ZONES
40	SILICONE CAULK (DOW 795)
41	#8-10 x 1 1/2" PLASCREW (FOR ITEM #34)
42	SIDELITE TOP & BOTTOM RAIL (THERMA-TRU, 1.531" x .656"
43	#8 x 2" LG. PFH WOOD SCREW
44	3/8" x 3/8" QUARTER ROUND FINGER JOINTED PINE
45	1" L. x .040" DIA. BRAD TRIM NAIL
46	IVES SURFACE BOLT #454 8.0" L. x .25" THK. STEEL
47	1/4-20 SEX BOLT W/1/4-20 FEMALE END x 1 3/4" L.

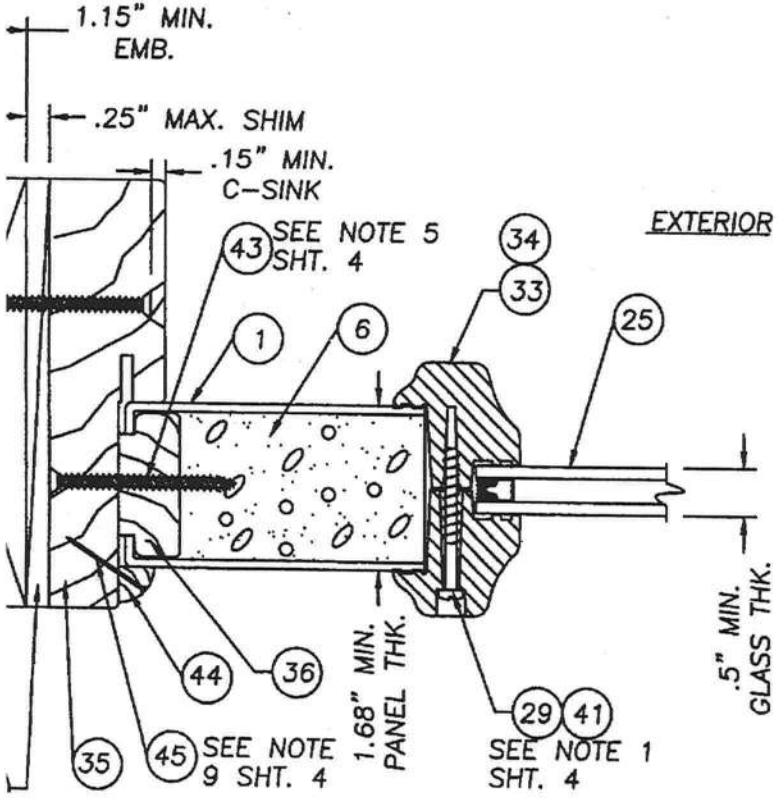
Appr

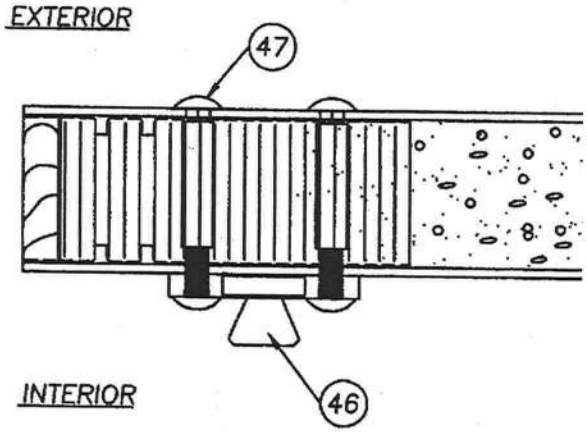


1/3 HORIZONTAL CROSS SECTION
@ ASTRAGAL
(SEE DESIGN PRESSURE RATE CHART)

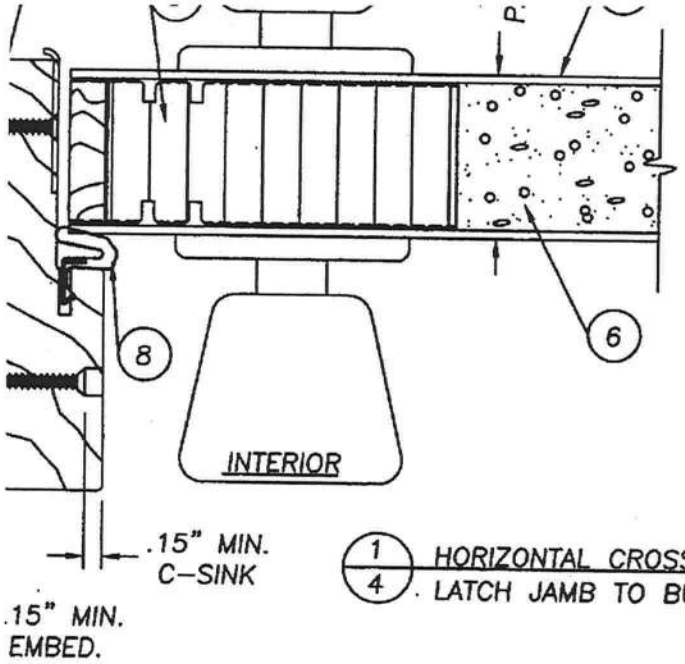


2/3 HORIZONTAL CROSS SI
@ HINGE JAMB TO SIL

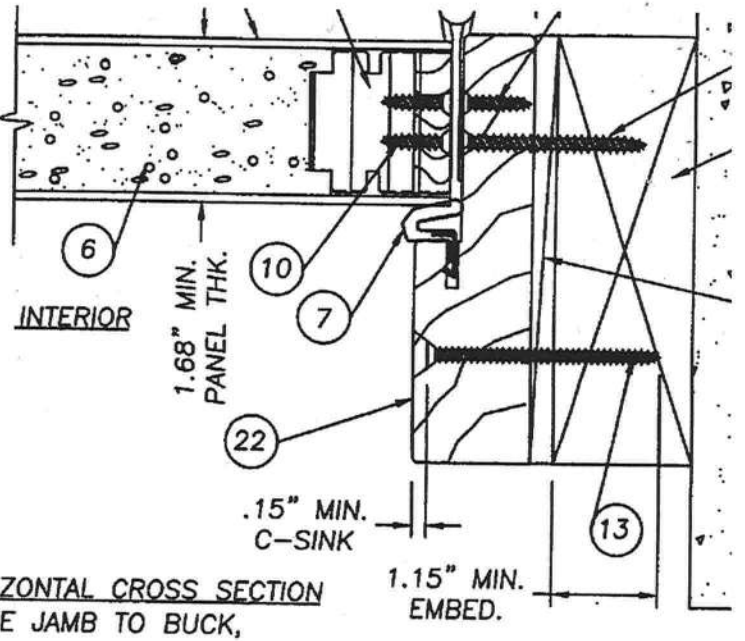




DETAIL "A"
OPTIONAL SURFACE BOLTS IN ACTIVE
(SEE DESIGN PRESSURE CHART)



1/4 HORIZONTAL CROSS SECTION
LATCH JAMB TO BUCK,

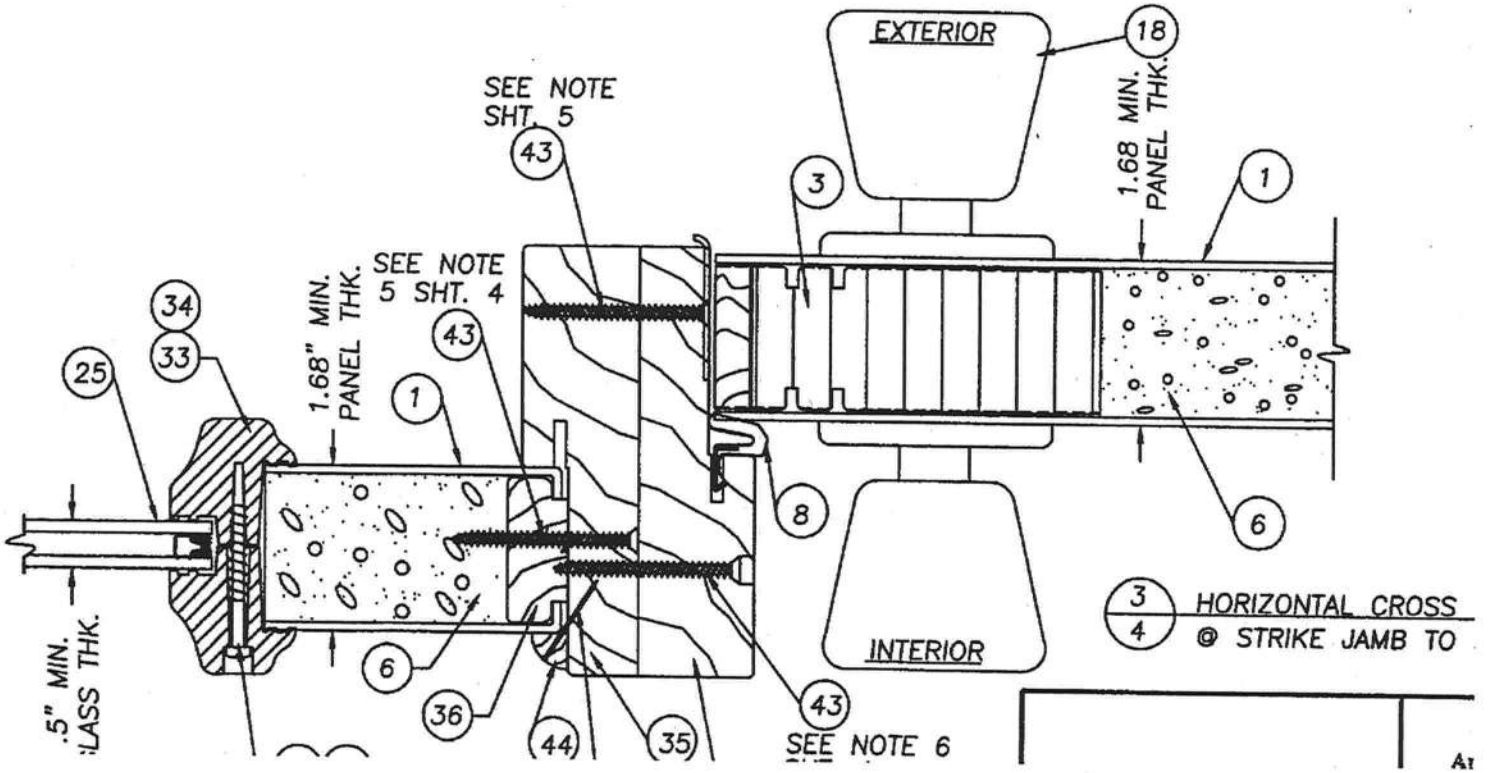


2/4 HORIZONTAL CROSS SECTION
HINGE JAMB TO BUCK,

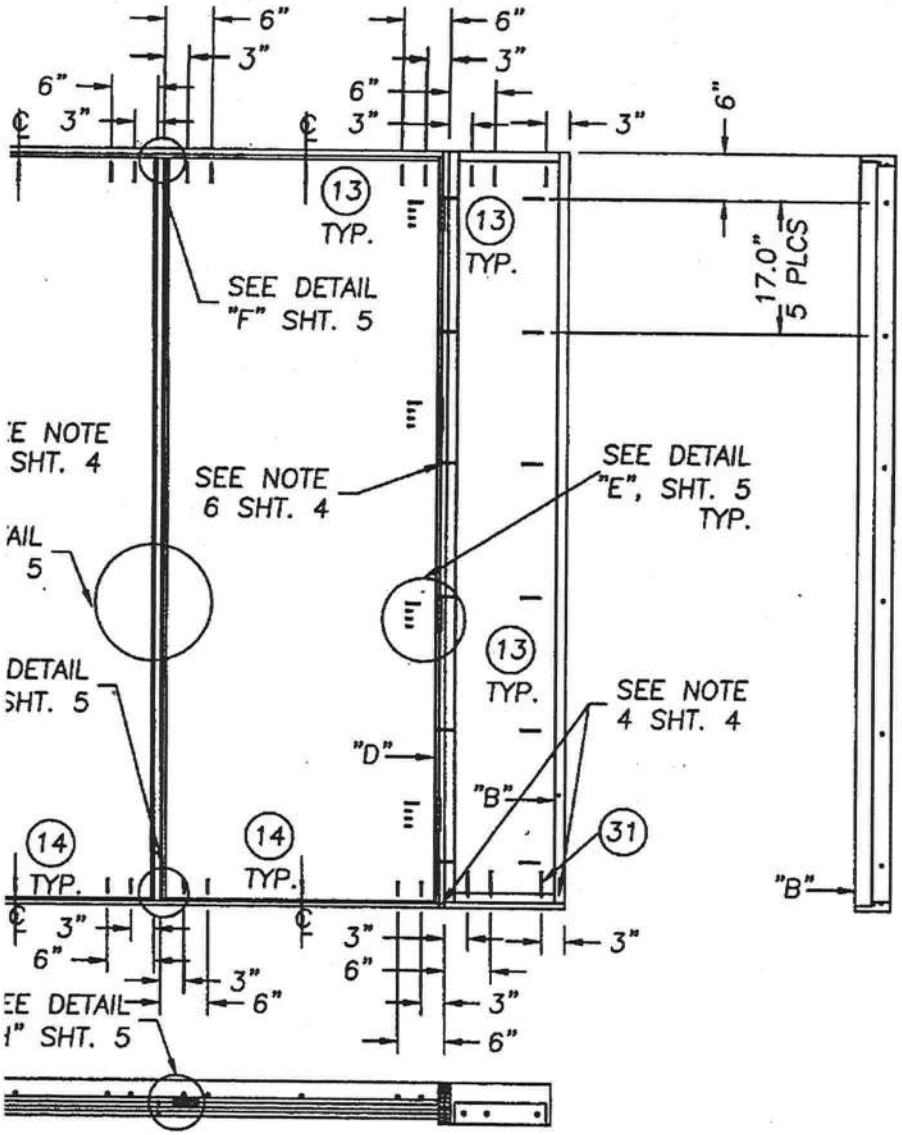
CREWS) IS AS FOLLOWS: FROM
6.5", WITH (7) MORE SPACED
(2) SCREW BOTH TOP AND
EACH CORNER.
1" PANHEAD SCREW
) THE INACTIVE DOOR IS AS
OWN 1", 3", 5", 18.25", 54"
;".
) TO THE SIDE JAMBS WITH

) TO THE SIDE JAMBS WITH

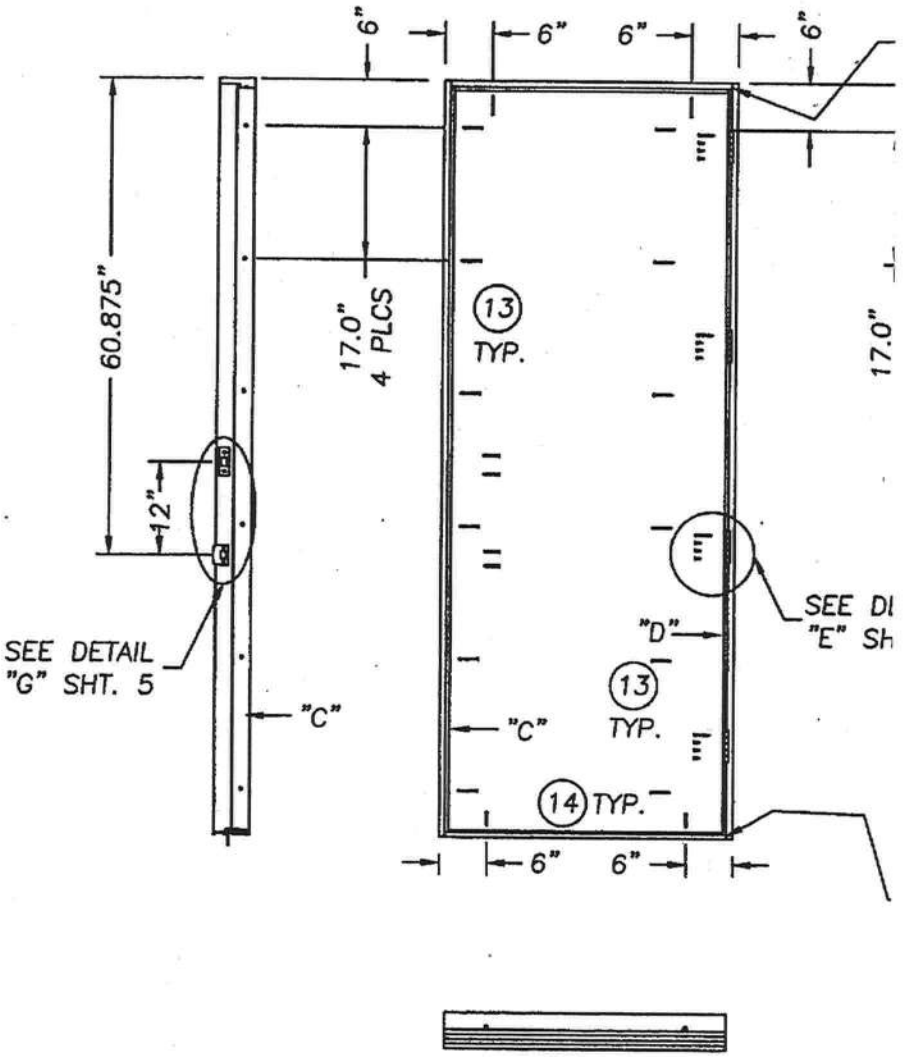
INTO THE JAMB WITH (12)
. THERE ARE (4) AT
THE TOP DOWN AT 13.5",
(2) AT THE HEADER AT 4"
S OF THE FRAME. THERE ARE
THE OUTSIDE CORNERS.
W SECURING THE MULLIONS
THE PERIMETER ANCHORING
IE TOP AND UP FROM THE
ACED AT 16.9" O.C.
TO THE JAMB AND THE BUCK
N ATTACHING THE HINGE TO
AT THE MULLION USE ITEM



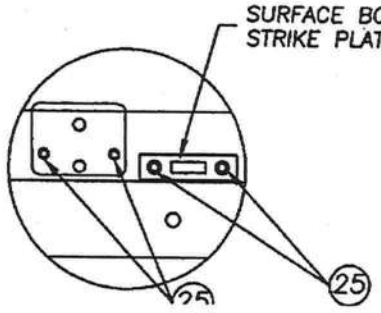
3/4 HORIZONTAL CROSS
@ STRIKE JAMB TO

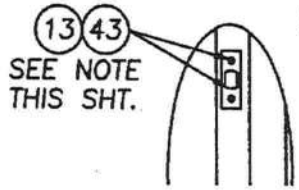


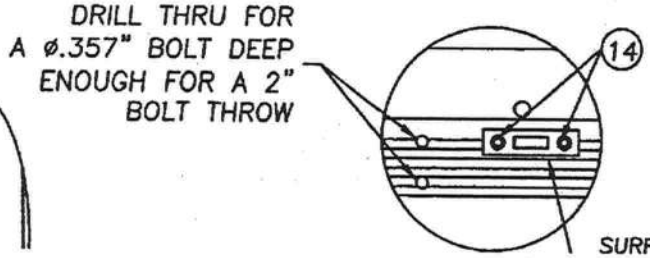
UBLE DOOR W/SIDELITES



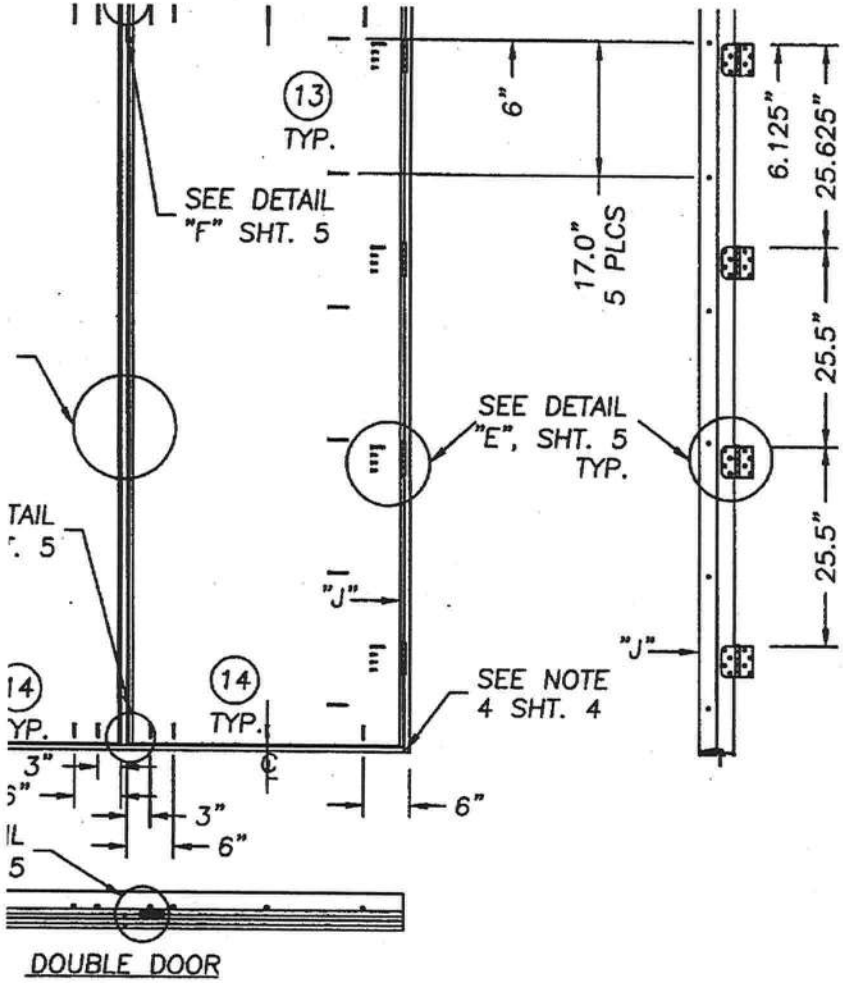
SINGLE DOOR



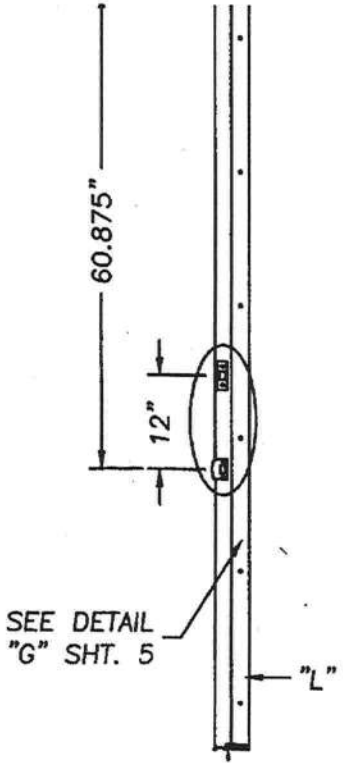


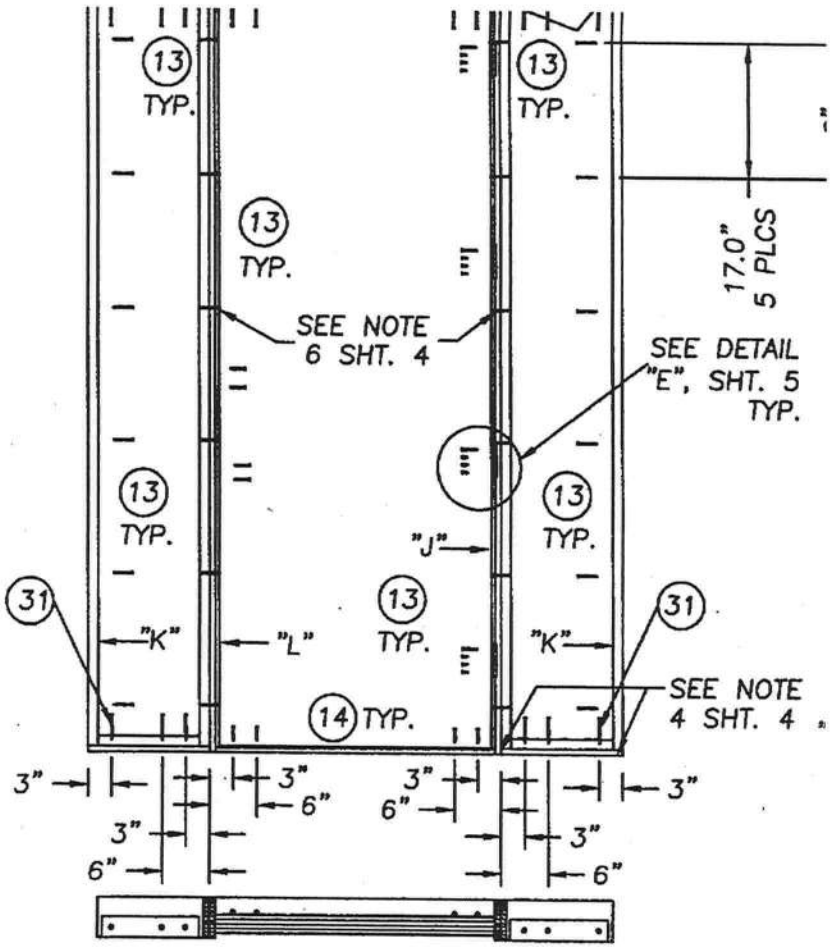


NOTE:
USE #8 x 2 1/2" PFH WOOD SCR
STRIKE AND DEADBOLT PLATES TO
ASTRAGAL EXCEPT IN THE MULLED
THE SIDELITE USE #8 x 2" PFH W

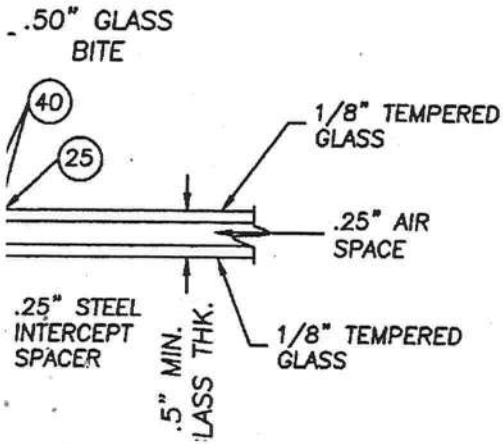


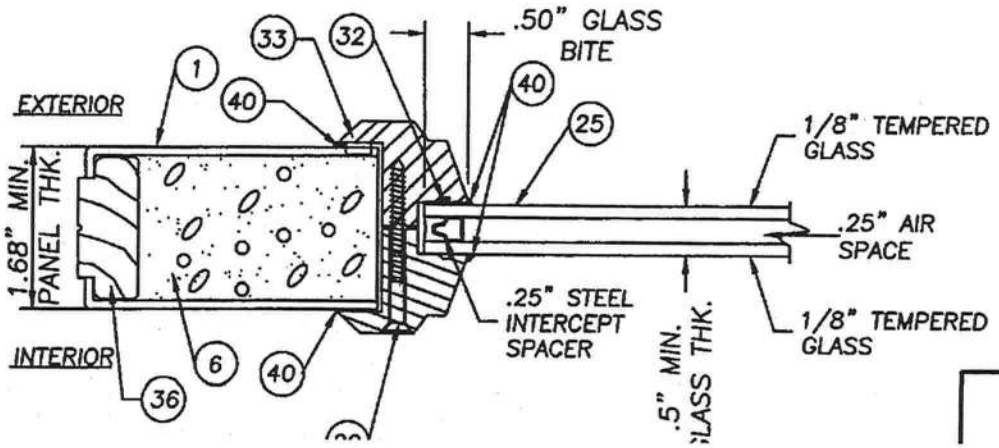
DOUBLE DOOR





SINGLE DOOR W/SIDELITES





.711

E

.246"

HOLD

ZONES"

.528"

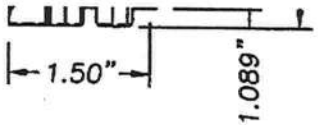
03"

.246"

OUTSWING

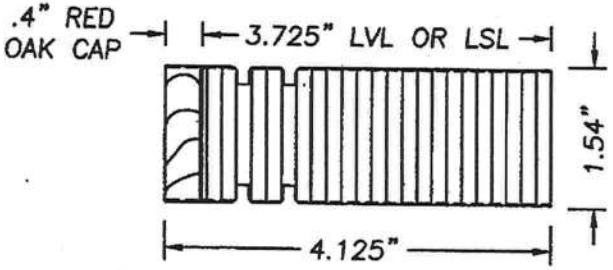
D THRESHOLD

IE ZONES"

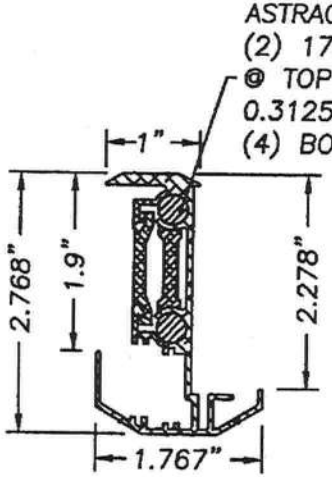


(4) HINGE SIDE STILE

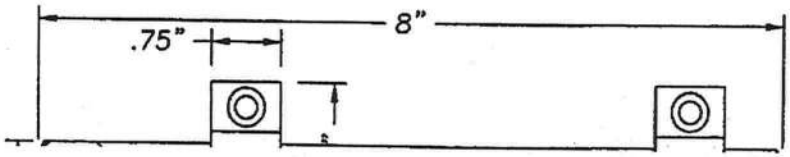
CORE MATERIAL: LVL OR LSL
ALTERNATE CORE MATERIAL: PONDEROSA, RADIATA, PULAI, ELLIOTTII, TAEDA OR SUGAR PINE, DOUGLAS OR WHITE FIR, CEDAR, INCENSE CEDAR OR REDWOOD.



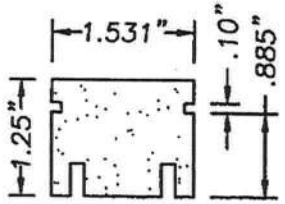
(3) LATCH SIDE STILE/ LOCK BLOCK
LVL OR LSL W/ KILN DRIED RED OAK CAP



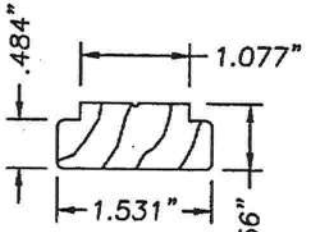
(24) WINDJAMBER II WR80T
ASTRAGAL (ALUMINUM .052" WALL TYP.)



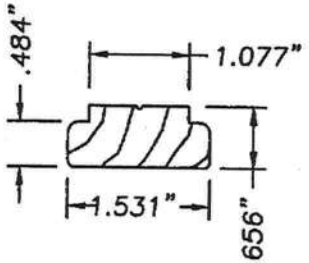
(2) TOP RAIL
WOOD COMPOSITE



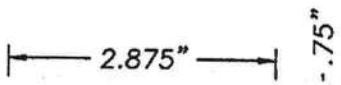
(5) BOTTOM RAIL
WOOD COMPOSITE

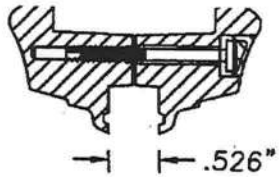


(42) SIDELITE TOP & BOTTOM RAIL
FINGER JOINTED PONDEROSA PINE

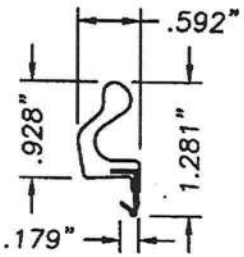


(36) SIDELITE BLANK SIDE STILE
FINGER JOINTED PONDEROSA PINE

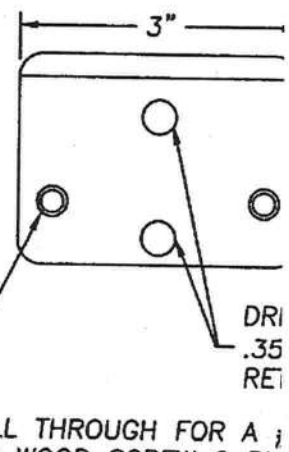




(34) PLASTIC LIP LITE FRAME
EXTRUDED SMC



(8) LONG REACH COMPRESSION WEATHERSTRIP
FOAM CELL CORE
W/VINYL JACKET



WINDJAMBER II WR80T

(33) PL

4.327"

(7) COMPRES
BY
FOAM
W/

Exposure 5¼"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood. Gallery Collection: Balsam Forest™, Weathered Sage™, Sienne Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

***See actual limited warranty for conditions and limitations.**
****Check for product availability.**

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.com

SSOOT 01/02

Michael Jenkins

From : Ed Gutin - Lake City Industries

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1T4O8228Z0307133028

Truss Fabricator:	Anderson Truss Company
Job Identification:	7-039--Jenkins Contracting WILLIAMSON RES. -- , **
Truss Count:	18
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.24.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A11015EE-GBLLETIN-

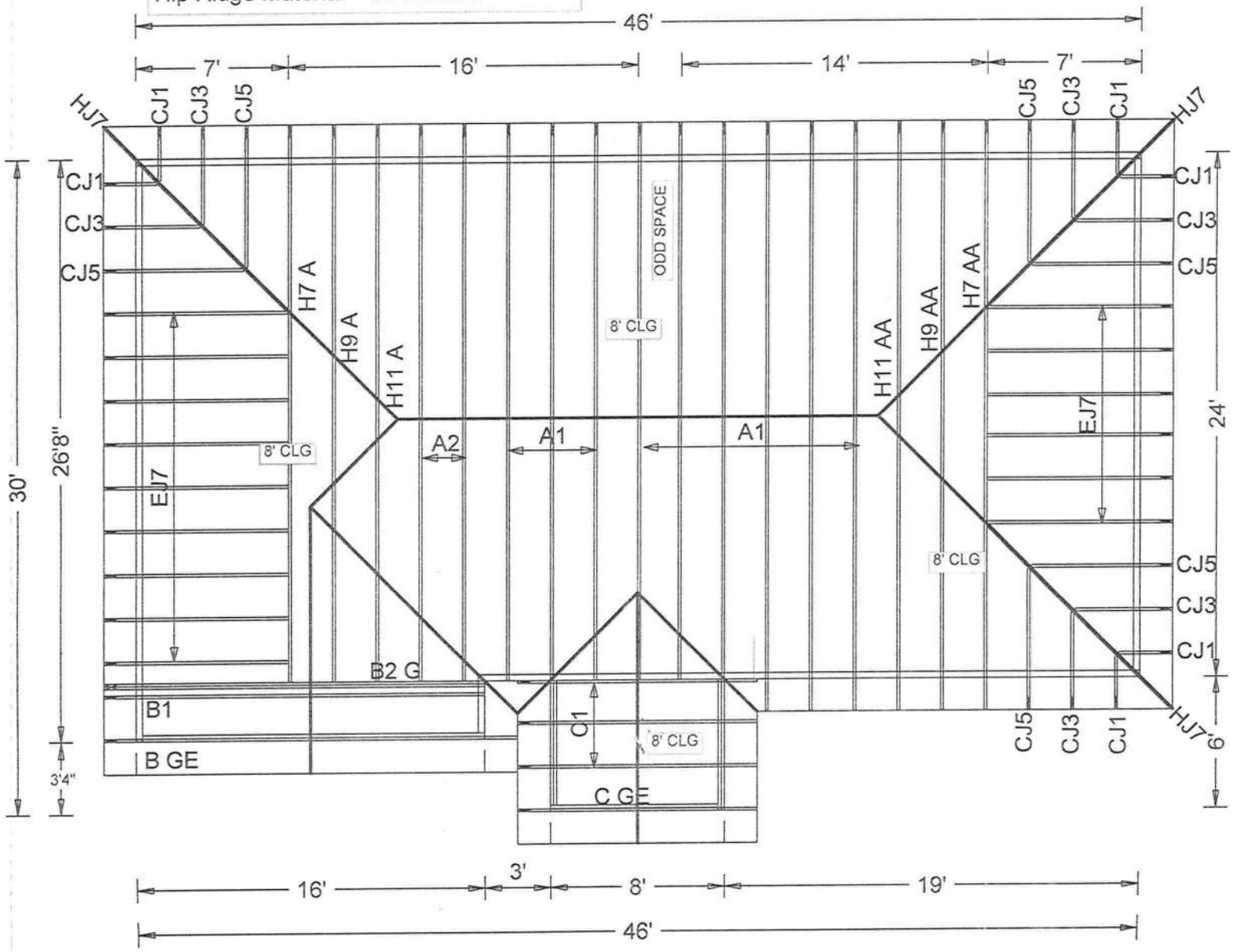
Seal Date: 02/07/2007

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	48888	H7 AA	07038042	02/07/07
2	48889	H7 A	07038043	02/07/07
3	48890	H9 A	07038044	02/07/07
4	48891	H9 AA	07038045	02/07/07
5	48892	H11 A	07038046	02/07/07
6	48893	H11 AA	07038047	02/07/07
7	48894	A2	07038048	02/07/07
8	48895	A1	07038049	02/07/07
9	48896	B2 G	07038050	02/07/07
10	48897	B1	07038051	02/07/07
11	48898	B GE	07038052	02/07/07
12	48899	C GE	07038053	02/07/07
13	48900	C1	07038054	02/07/07
14	48901	EJ7	07038055	02/07/07
15	48902	CJ5	07038059	02/07/07
16	48903	HJ7	07038056	02/07/07
17	48904	CJ3	07038057	02/07/07
18	48905	CJ1	07038058	02/07/07

Roof Plane Sheathing Area = 1610 sq. ft
Gable Sheathing Area = 48 sq. ft
Total Sheathing Area = 1658 sq. ft
Fascia Material = 173 linear ft
Valley Flashing Material = 31 linear ft
Ridge Cap Material = 46 linear ft
Hip Ridge Material = 67 linear ft

JENKINS CONST. WILLIAMSON RES.
JOB#7-039 02/07/07 JFB



JOB DESCRIPTION:: Jenkins Contracting
/: WILLIAMSON RES.

JOB NO:
7-039

PAGE NO:
1 OF 1

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3

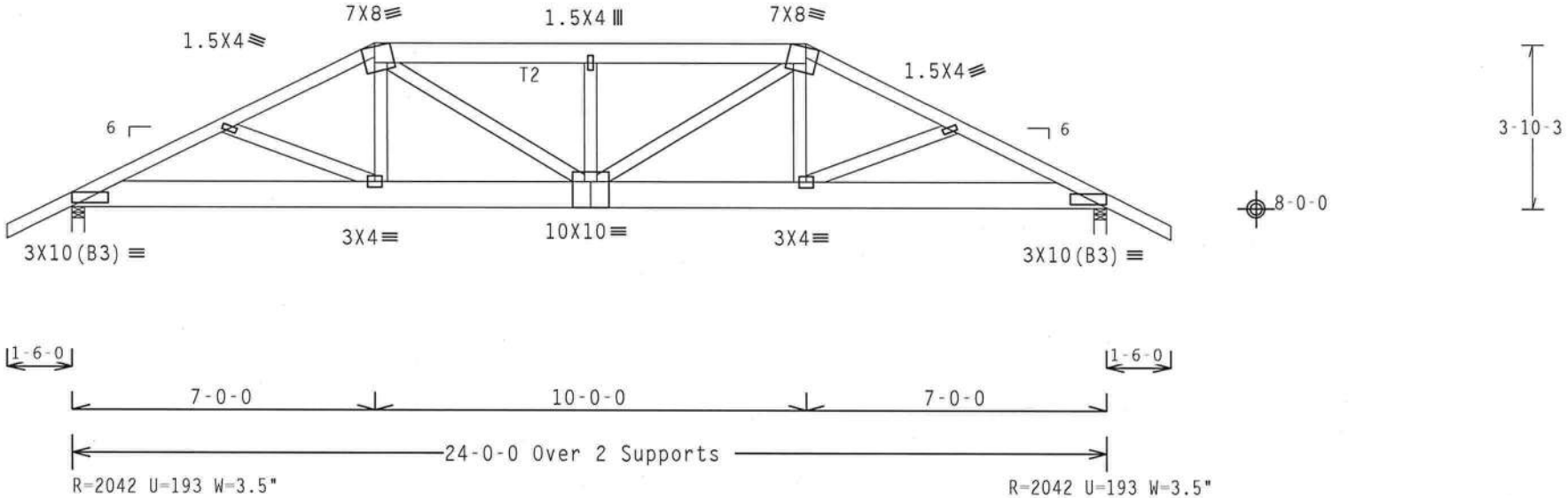
Wind reactions based on MWFRS pressures.

#1 hip supports 7-0-0 jacks with no webs.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible]Y:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.25"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (H, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb [illegible] '07

TC LL	20.0 PSF	REF R8228- 48888
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038042
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19639
DUR.FAC.	1.25	FROM JFB
SPACING	SEE ABOVE	JREF- 1T408228Z03

Top chord 2x6 SP #2 :T1 2x4 SP #2 Dense:
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3 :W7 2x4 SP #2 Dense:

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

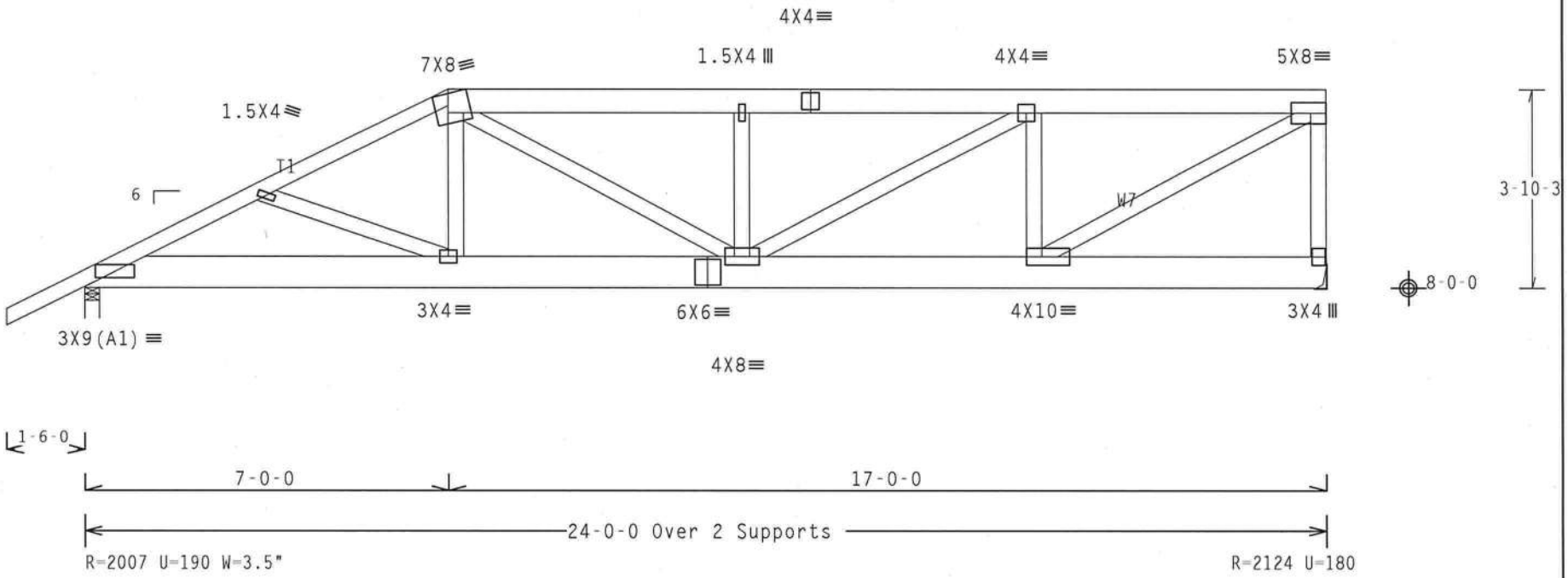
Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

#1 hip supports 7-0-0 jacks with no webs.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang. Right side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible] Y:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.3125"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48889
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038043
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	19644
DUR.FAC.	1.25	FROM	JFB
SPACING	SEE ABOVE	JREF-	1T408228Z03

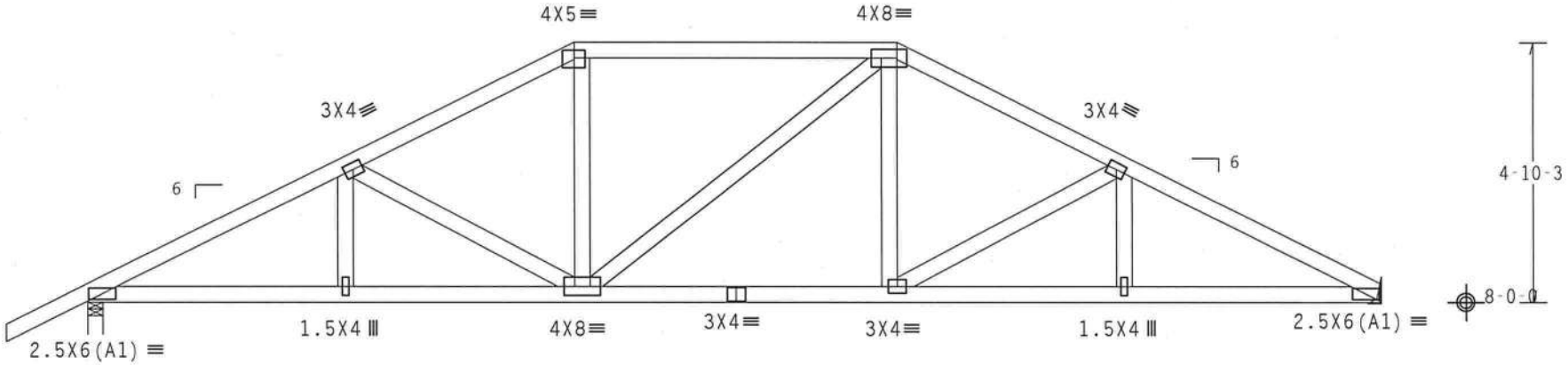
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

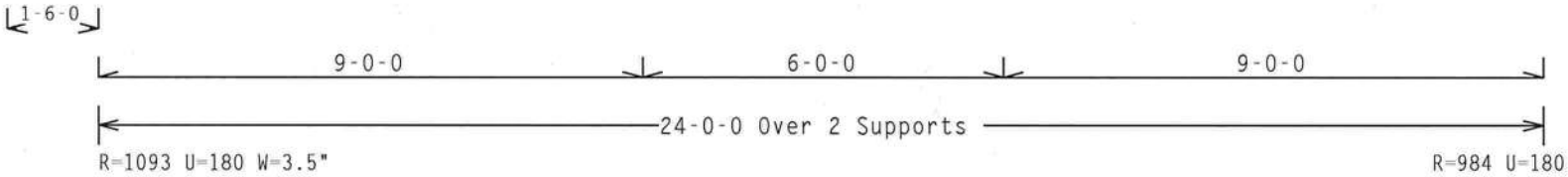
Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 [illegible]:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #567

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48890
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038044
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19649
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

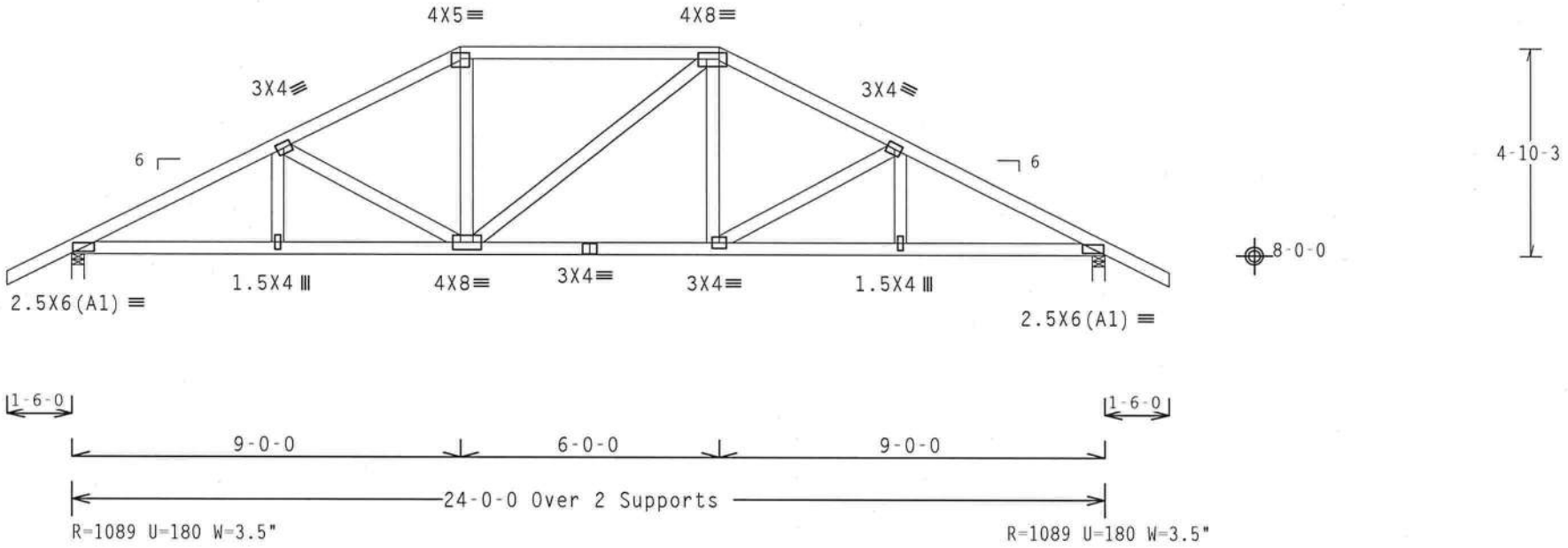
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.12 [illegible]Y:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group, Inc.
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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48891
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038045
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 19653
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

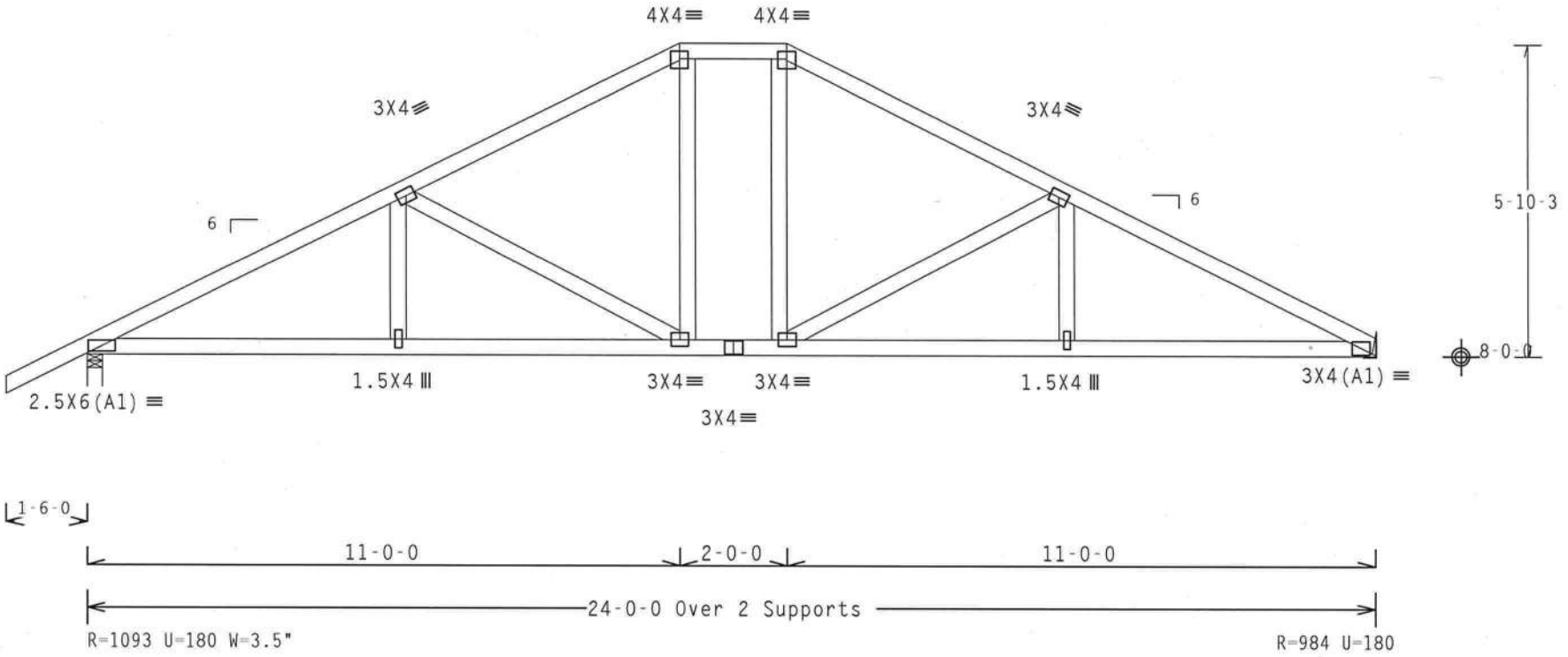
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.12 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48892
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038046
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19657
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

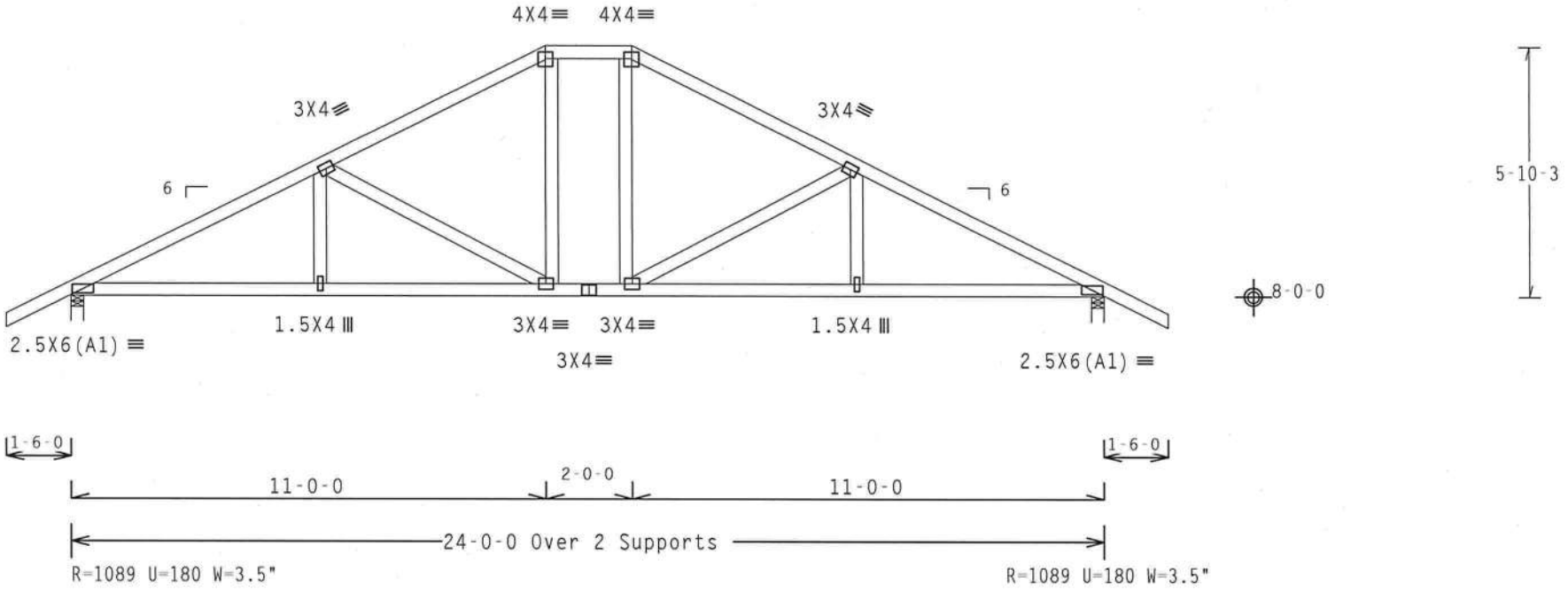
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.24.1[illegible]Y:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48893
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038047
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 19661
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

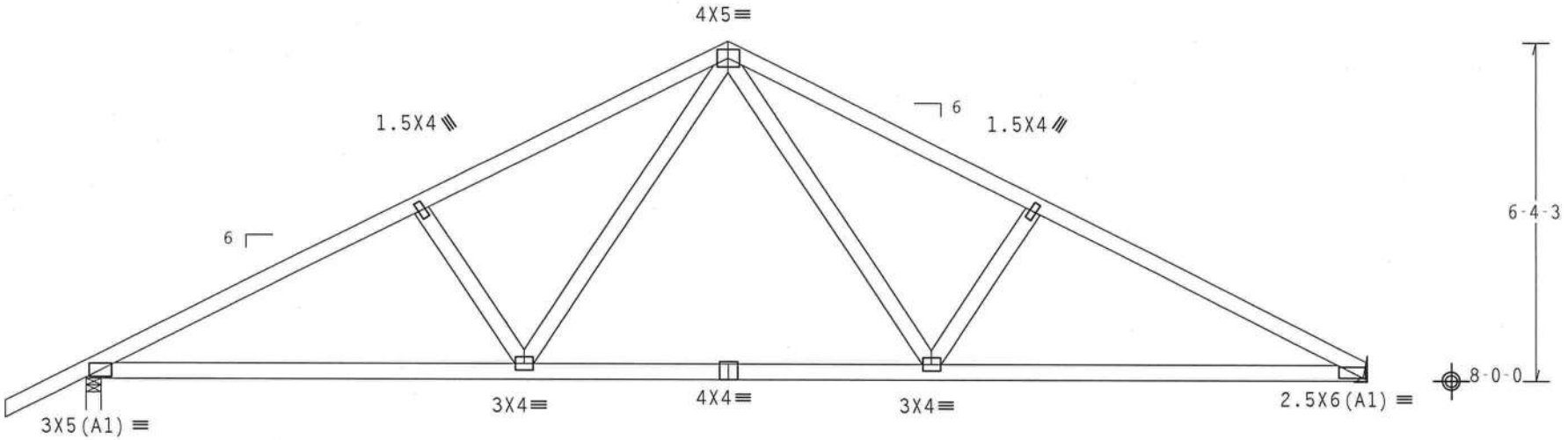
TC - From	62	PLF	at	-1.50	to	62 PLF	at 12.00
TC - From	62	PLF	at	12.00	to	62 PLF	at 24.00
BC - From	4	PLF	at	-1.50	to	4 PLF	at 0.00
BC - From	20	PLF	at	0.00	to	20 PLF	at 8.18
BC - From	70	PLF	at	8.18	to	70 PLF	at 15.99
BC - From	20	PLF	at	15.99	to	20 PLF	at 24.00

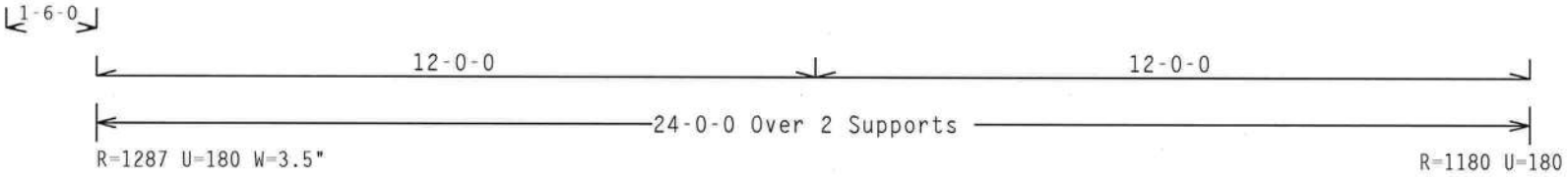
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.3125"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0	PSF
TC DL	10.0	PSF
BC DL	10.0	PSF
BC LL	0.0	PSF
TOT.LD.	40.0	PSF
DUR.FAC.	1.25	
SPACING	SEE ABOVE	

REF	R8228- 48894
DATE	02/07/07
DRW	HCUSR8228 07038048
HC-ENG	TCE/AF
SEQN-	19665
FROM	JFB
JREF-	1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

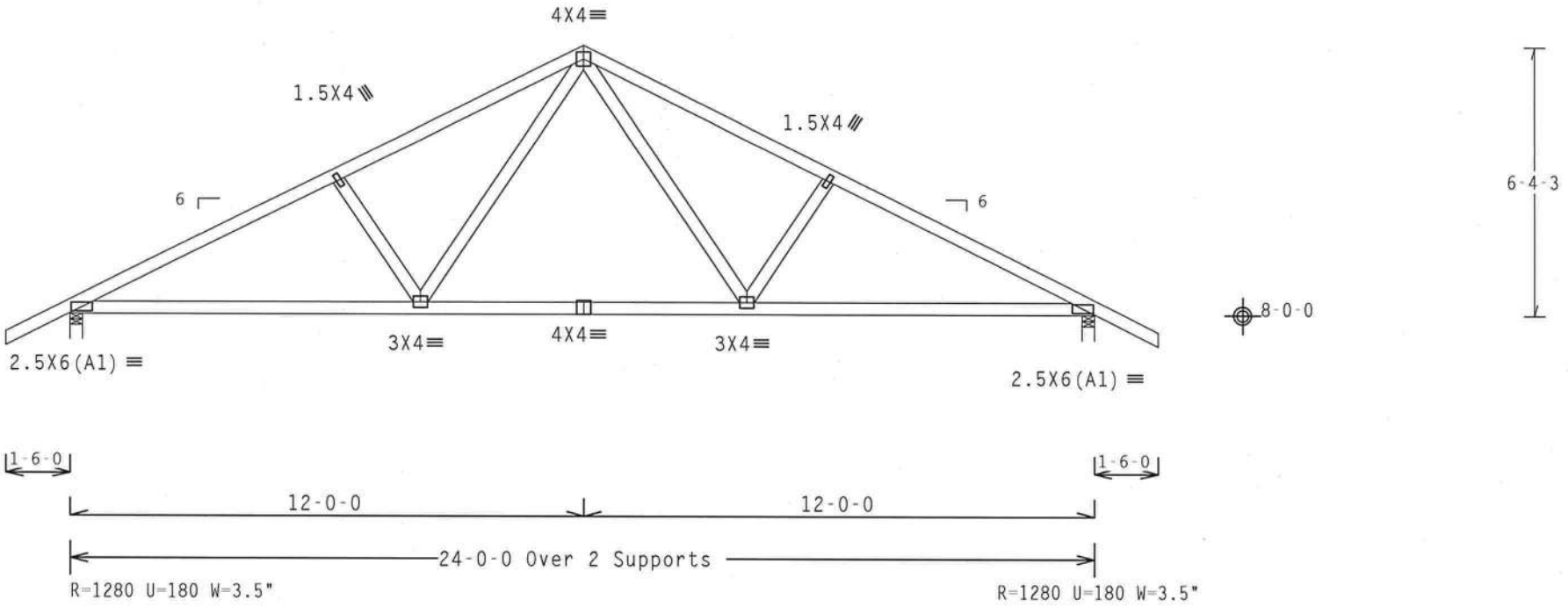
TC - From	62 PLF	at	-1.50	to	62 PLF	at 12.00
TC - From	62 PLF	at	12.00	to	62 PLF	at 25.50
BC - From	4 PLF	at	-1.50	to	4 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 8.18
BC - From	70 PLF	at	8.18	to	70 PLF	at 15.82
BC - From	20 PLF	at	15.82	to	20 PLF	at 24.00
BC - From	4 PLF	at	24.00	to	4 PLF	at 25.50

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48895
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038049
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	19669
DUR.FAC.	1.25	FROM	JFB
SPACING	SEE ABOVE	JREF-	1T408228Z03

(7-039--Jenkins Contracting WILLIAMSON RES. -- , ** - B2 G)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP #1 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -1.50 to 62 PLF at 8.00
TC - From 62 PLF at 8.00 to 62 PLF at 16.00
BC - From 4 PLF at -1.50 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 16.00
BC - 2124 LB Conc. Load at 7.06
BC - 984 LB Conc. Load at 9.06, 11.06
BC - 1180 LB Conc. Load at 13.06, 15.06

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

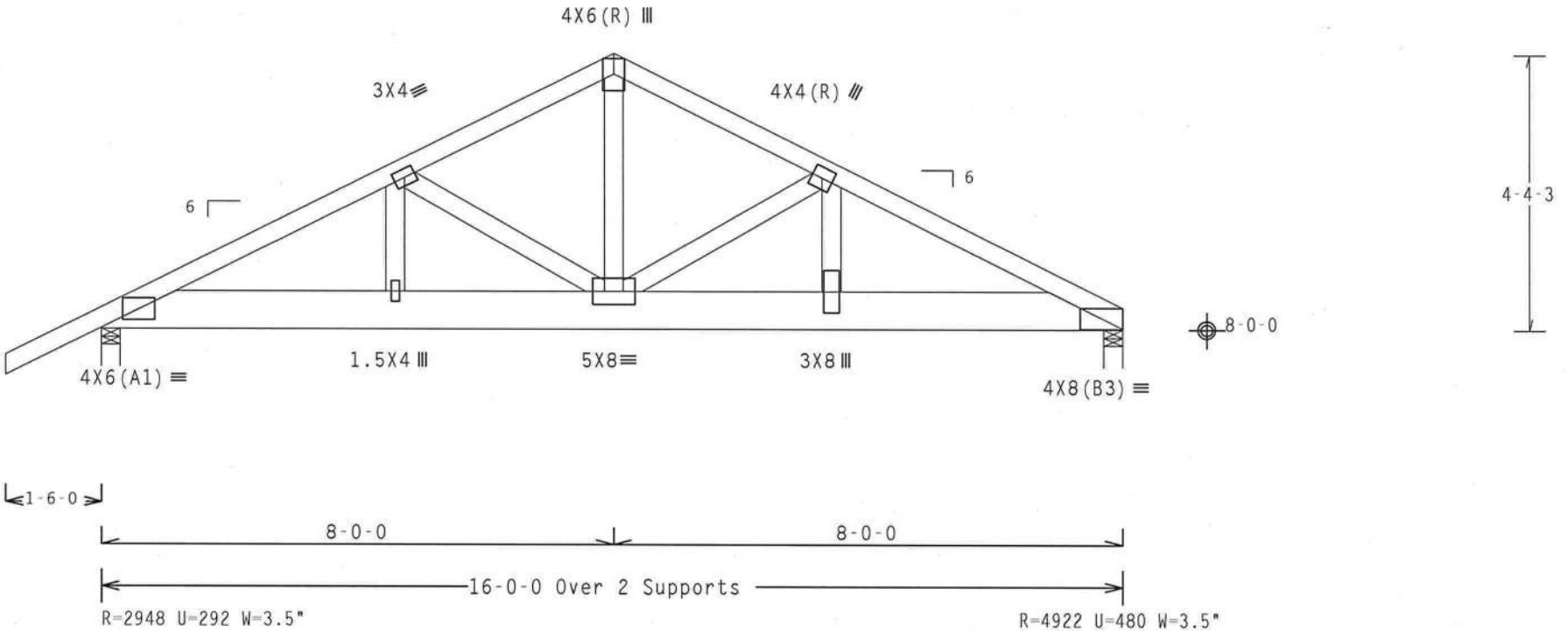
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48896
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038050
BC LL	0.0 PSF		HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN-	19673
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T408228Z03

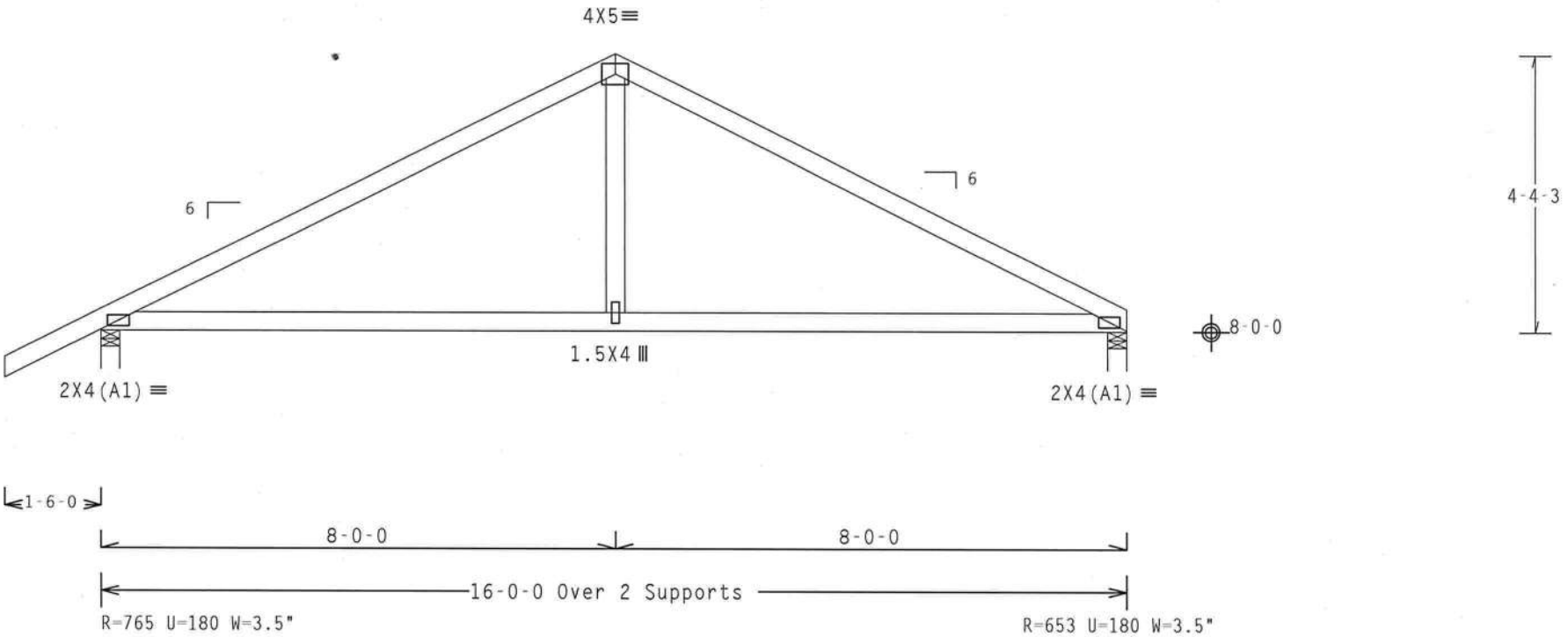
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48897
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038051
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	19676
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

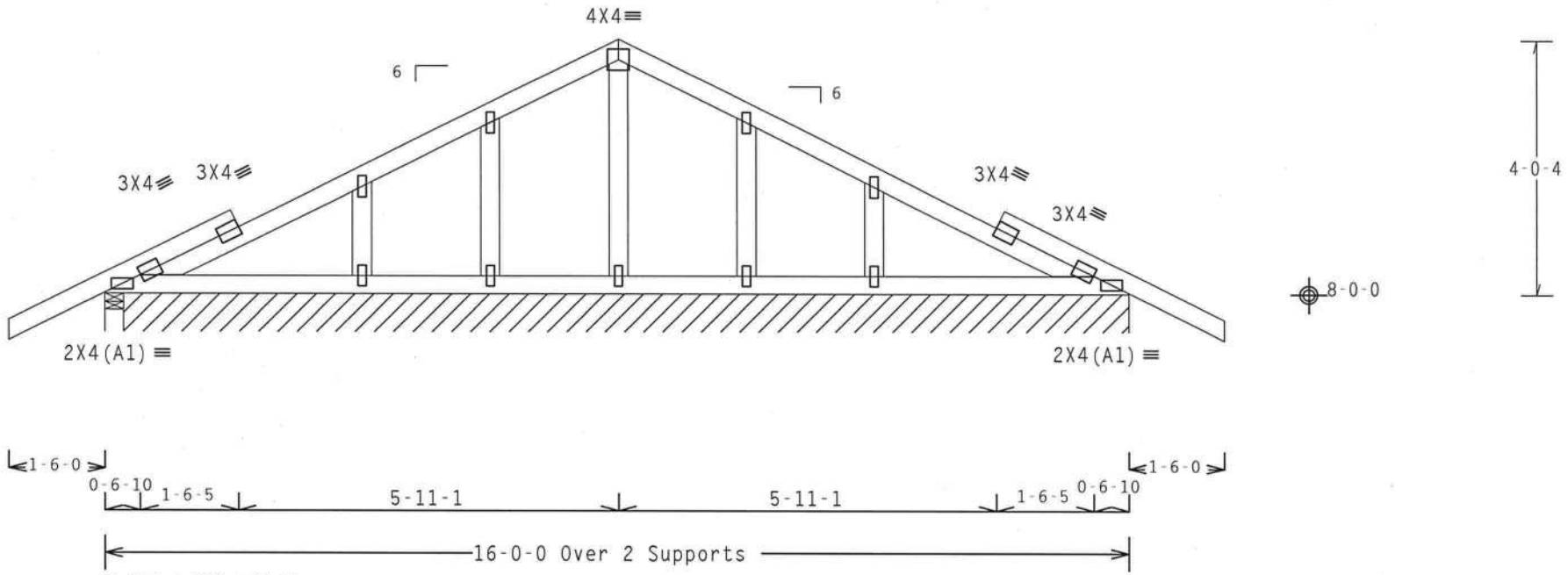
See DWGS A11015EE1106 & GBLLETIN1106 for more requirements.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.24.[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

Feb 07 '07

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TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038052
BC LL	0.0 PSF	HC-ENG	TCE/AF
TOT.LD.	40.0 PSF	SEQN-	19680
DUR.FAC.	1.25	FROM	JFB
SPACING	SEE ABOVE	JREF-	1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

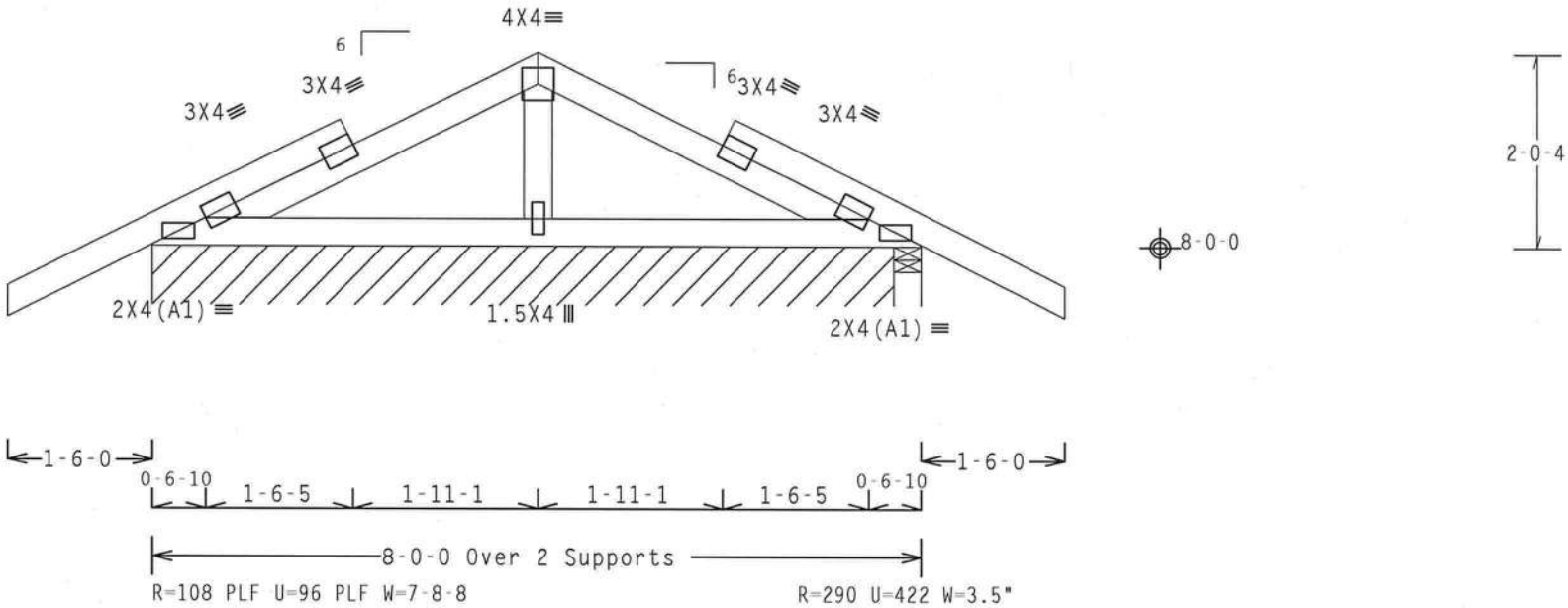
See DWGS A11015EE1106 & GBLLETIN1106 for more requirements.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48899
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038053
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19684
DUR.FAC.	1.25	FROM JFB
SPACING	SEE ABOVE	JREF- 1T408228Z03

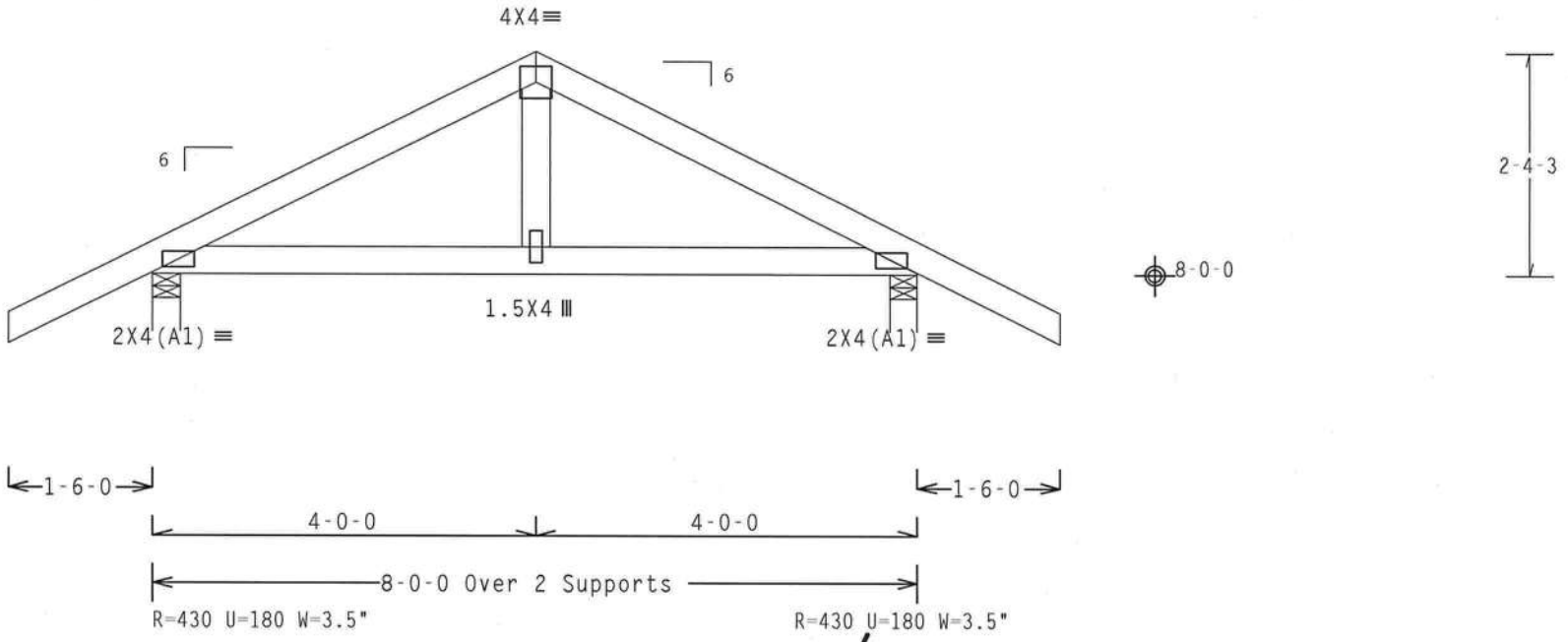
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE

TW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No. 39687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48900
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038054
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 19687
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

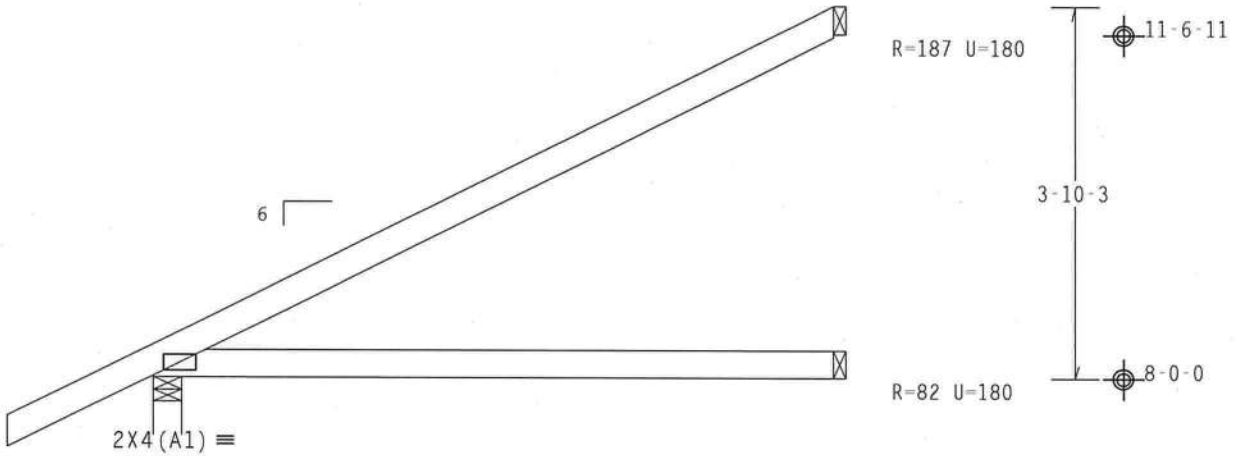
Wind reactions based on MWFRS pressures.

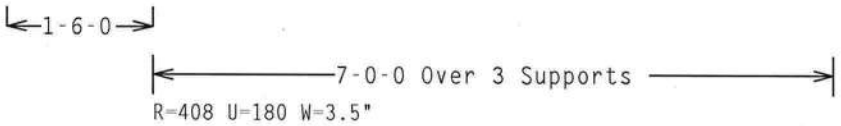
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

TW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48901
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038055
BC LL	0.0 PSF	HC-ENG TCE/AF *
TOT.LD.	40.0 PSF	SEQN- 19690
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

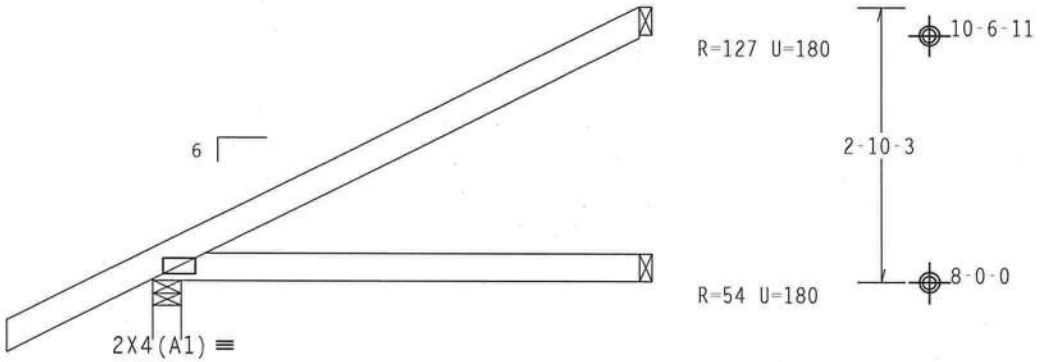
Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.24.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
TW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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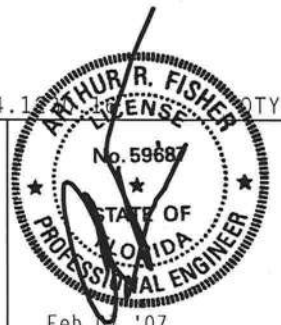


Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48902
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038059
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	19693
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.

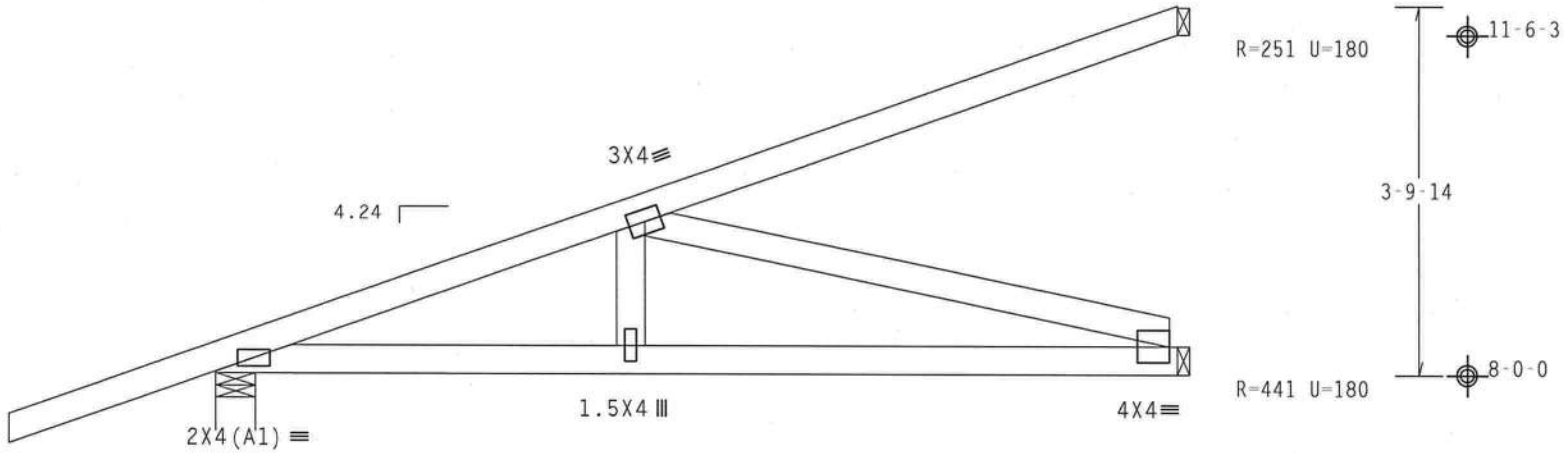
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC	From	61 PLF	at	-2.12	to	61 PLF	at 9.90
BC	From	4 PLF	at	-2.12	to	4 PLF	at 0.00
BC	From	20 PLF	at	0.00	to	20 PLF	at 9.90
TC		-111 LB	Conc. Load	at	1.48		
TC		124 LB	Conc. Load	at	4.31		
TC		255 LB	Conc. Load	at	7.13		
BC		-31 LB	Conc. Load	at	1.48		
BC		48 LB	Conc. Load	at	4.31		
BC		108 LB	Conc. Load	at	7.13		

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (3) 0.162x3.5" 16d Common toe-nails at Bottom Chord.



2-1-7

9-10-13 Over 3 Supports

R=643 U=222 W=4.95"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R FISHER LICENSE No.59887 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF R8228- 48903
TC DL	10.0 PSF	DATE 02/07/07
BC DL	10.0 PSF	DRW HCUSR8228 07038056
BC LL	0.0 PSF	HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN- 19709
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

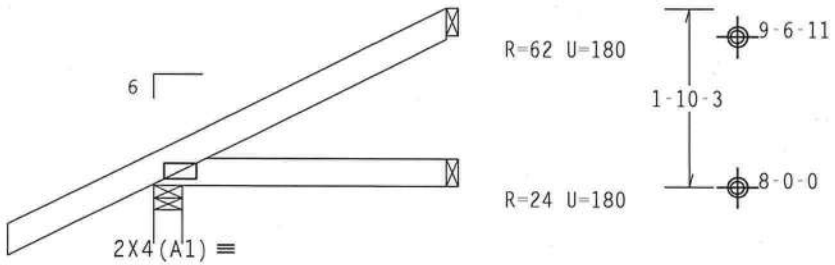
Wind reactions based on MWFRS pressures.

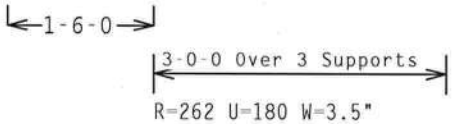
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

TW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER
LICENSE
No. 39687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48904
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038057
BC LL	0.0 PSF	HC-ENG	TCE/AF *
TOT.LD.	40.0 PSF	SEQN-	19697
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T408228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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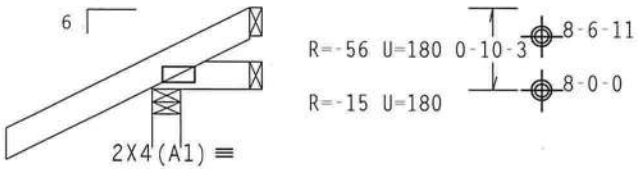

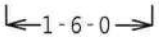

1-0-0 Over 3 Supports

R=254 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1 TY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

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FL Certificate of Authorization # 567

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IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ARTHUR R. FISHER
LICENSE
No.59667
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Feb 07 '07

TC LL	20.0 PSF	REF	R8228- 48905
TC DL	10.0 PSF	DATE	02/07/07
BC DL	10.0 PSF	DRW	HCUSR8228 07038058
BC LL	0.0 PSF		HC-ENG TCE/AF
TOT.LD.	40.0 PSF	SEQN-	19700
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T408228Z03

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

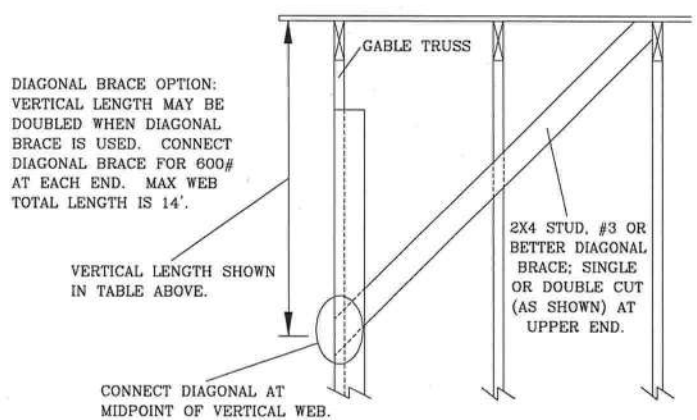
SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

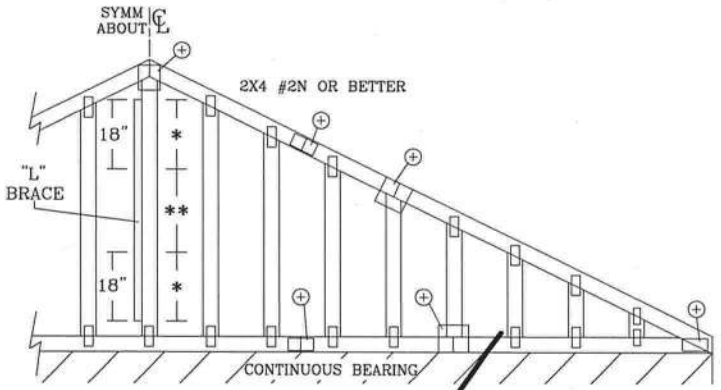
DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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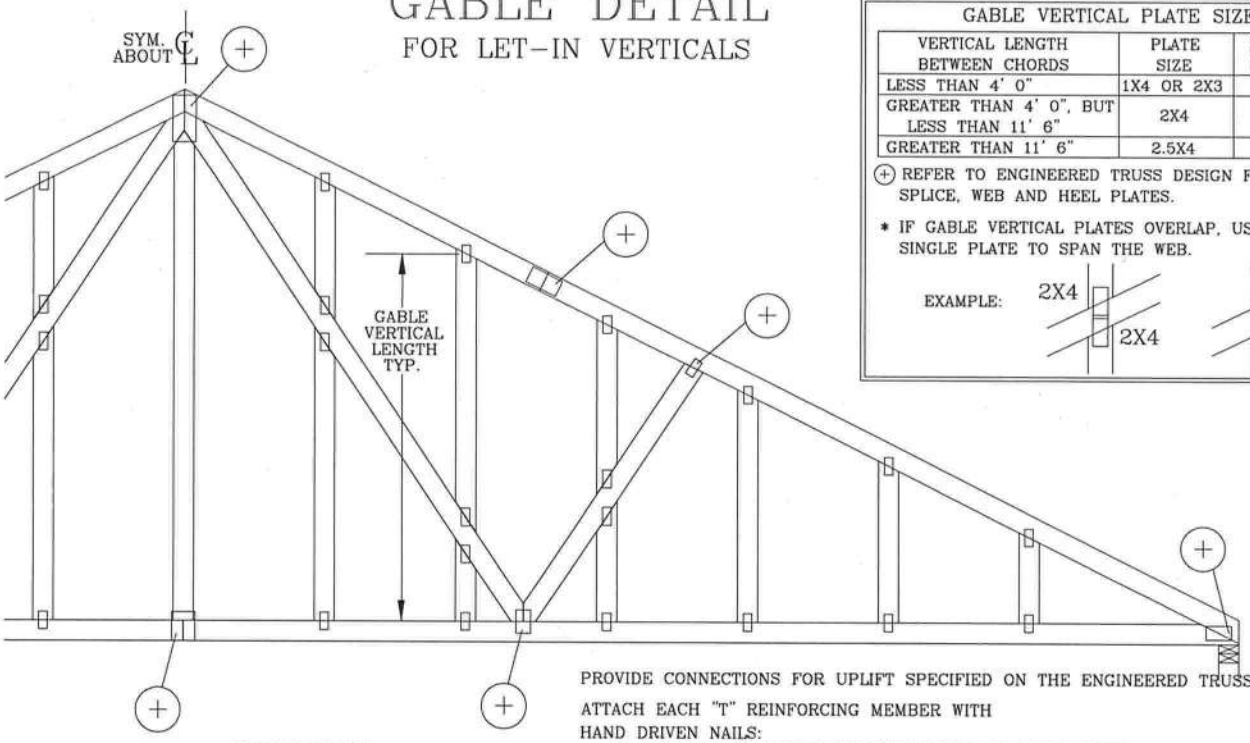
ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Feb 6

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	11/1/06
DRWG	A11015EE1106
-ENG	

GABLE DETAIL
FOR LET–IN VERTICALS

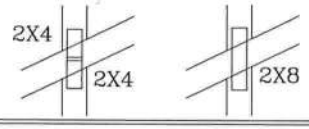


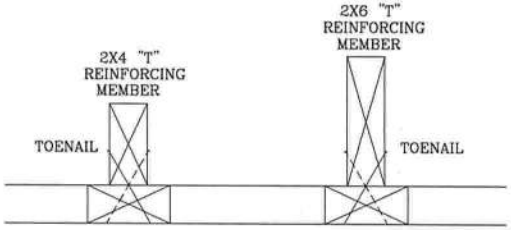
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:





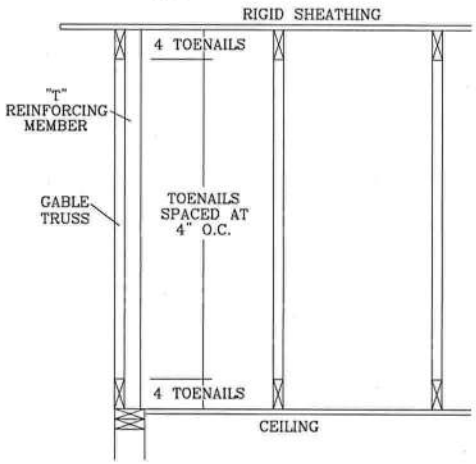
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7–93 GABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7–98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
ASCE 7–02 GABLE DETAIL DRAWINGS
A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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ARTHUR R. FISHER LICENSE No. 58687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Feb 07

MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

REF	LET–IN VERT
DATE	11/1/06
DRWG	GBLLETIN1106
–ENG	DLJ/KAR