DATE 04/05/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000024349

APPLICANT ROBERT BETTERTON PHONE 386.454.0627

ADDRESS 9170 SE 2ND ST RD TRENTON FL 32693

OWNER GENE MATHIS PHONE 386.454.5534

ADDRESS 211 SW HEFLIN AVENUE FT. WHITE FL 32038

CONTRACTOR ROBERT BETTERTON,HAS BLDRS PHONE 386.454.0627

LOCATION OF PROPERTY 47-S TO C-138,TL TO HEFLIN AVENUE,TR AND IT'S 1ST. HOME ON L.

TYPE DEVELOPMENT SFD ADDITION ESTIMATED COST OF CONSTRUCTION 18000.00

HEATED FLOOR AREA 360.00 TOTAL AREA 360.00 HEIGHT 35.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 4'12 FLOOR

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. 1 FLOOD ZONE XPS DEVELOPMENT PERMIT NO.

PARCEL ID 30-7S-17-10058-948 SUBDIVISION SANTA FE RIVER PLANTATION

LOT 48 BLOCK PHASE UNIT TOTAL ACRES 6.91

		CGC1505090	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
EXISTING	06-0297-E	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE. ONE FOOT ABOVE ROAD.

Check # or Cash 4767

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 $ 90.00 CERTIFICATION FEE $ 1.80 SURCHARGE FEE $ 1.80

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** 168.60

INSPECTORS OFFICE CLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

3/9/06 left message

For Office Use Only Application # 0602-67 Date Received 2-21-06 By LH Permit # 24345

Application Approved by - Zoning Official BLK Date 08.03.06 Plans Examiner OK JTH Date 3-6-06

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

Comments

Applicants Name Robert Betterton (H.A.S. Builders Inc) Phone 386 454-0627

Address 9170 SE 2nd St Rd. Trenton Fl. 32693

Owners Name Mr & Mrs. Gene Mathis Phone 386-454-5534

911 Address 211 SW Heflin Ave Ft. White Fl. 32038

Contractors Name H.A.S. Builders (Robert Betterton) Phone 386-454-0627

Address 9170 SE 2nd St. Rd. Trenton Fl. 32693

Fee Simple Owner Name & Address —

Bonding Co. Name & Address —

Architect/Engineer Name & Address MARTY ESKRIDGE, AE

Mortgage Lenders Name & Address CASH.

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

Property ID Number 30-75-17-00058-~~040~~ 040 Estimated Cost of Construction 40,000.00

Subdivision Name Santa Fe River Plantation Lot 40 Block ___ Unit ___ Phase ___

Driving Directions 27 441 ~~East~~ to CR 47 go South to 138 Turn Left go to Heflin Ave then Right 1st House on Left.

Type of Construction Addition Number of Existing Dwellings on Property 1

Total Acreage 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 125 ✓ Side 70 ✓ Side 400 ✓ Rear 325 ✓

Total Building Height 11' Number of Stories 1 Heated Floor Area 360 Roof Pitch 4 FT

TOTAL 360

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 H.A.S. Builders

Contractors License Number CGC 1505090

Competency Card Number ___

STATE OF FLORIDA
COUNTY OF COLUMBIA

LAURIE HODGES
MY COMMISSION # DD 333503
EXPIRES: June 25, 2008
Bonded Thru Notary Public Underwriters

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 21 day of 02 20 06.

Personally known ___ or Produced Identification ✓

Notary Signature

Check 4767

Columbia County Property Appraiser

DB Last Updated: 9/16/2005

2005 Proposed Values

Parcel: 30-7S-17-10058-948 HX

Tax Record | Property Card | Interactive GIS Map | Print

Search Result: 1 of 1

Owner & Property Info

Owner's Name	MATHIS KENNETH E & CAROL SUE
Site Address	HEFLIN
Mailing Address	211 SW HEFLIN AVE FORT WHITE, FL 32038
Brief Legal	LOT 48 SANTA FE RIVER PLANTATIONS. ORB 479-192, 854-522, 854-522, CD 857-244,

Use Desc. (code)	SINGLE FAM (000100)
Neighborhood	30717.01
Tax District	3
UD Codes	MKTA02
Market Area	02
Total Land Area	6.910 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	$66,564.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (1)	$79,132.00
XFOB Value	cnt: (7)	$4,513.00
Total Appraised Value		$150,209.00

Just Value		$150,209.00
Class Value		$0.00
Assessed Value		$99,758.00
Exempt Value	(code: HX)	$25,000.00
Total Taxable Value		$74,758.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vimp	Sale Qual	Sale RCode	Sale Price
2/19/1998	854/522	WD	I	Q		$110,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1989	CB Stucco (17)	1160	1860	$79,132.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	0	$408.00	272.000	4 x 68 x 0	(.00)
0166	CONC,PAVMT	0	$675.00	450.000	18 x 25 x 0	(.00)
0258	PATIO	0	$200.00	1.000	12 x 24 x 0	(.00)
0258	PATIO	0	$75.00	1.000	10 x 10 x 0	(.00)
0258	PATIO	0	$75.00	1.000	9 x 9 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	6.910 AC	1.00/1.00/.65/1.00	$9,633.00	$66,564.00

Columbia County Property Appraiser DB Last Updated: 9/16/2005

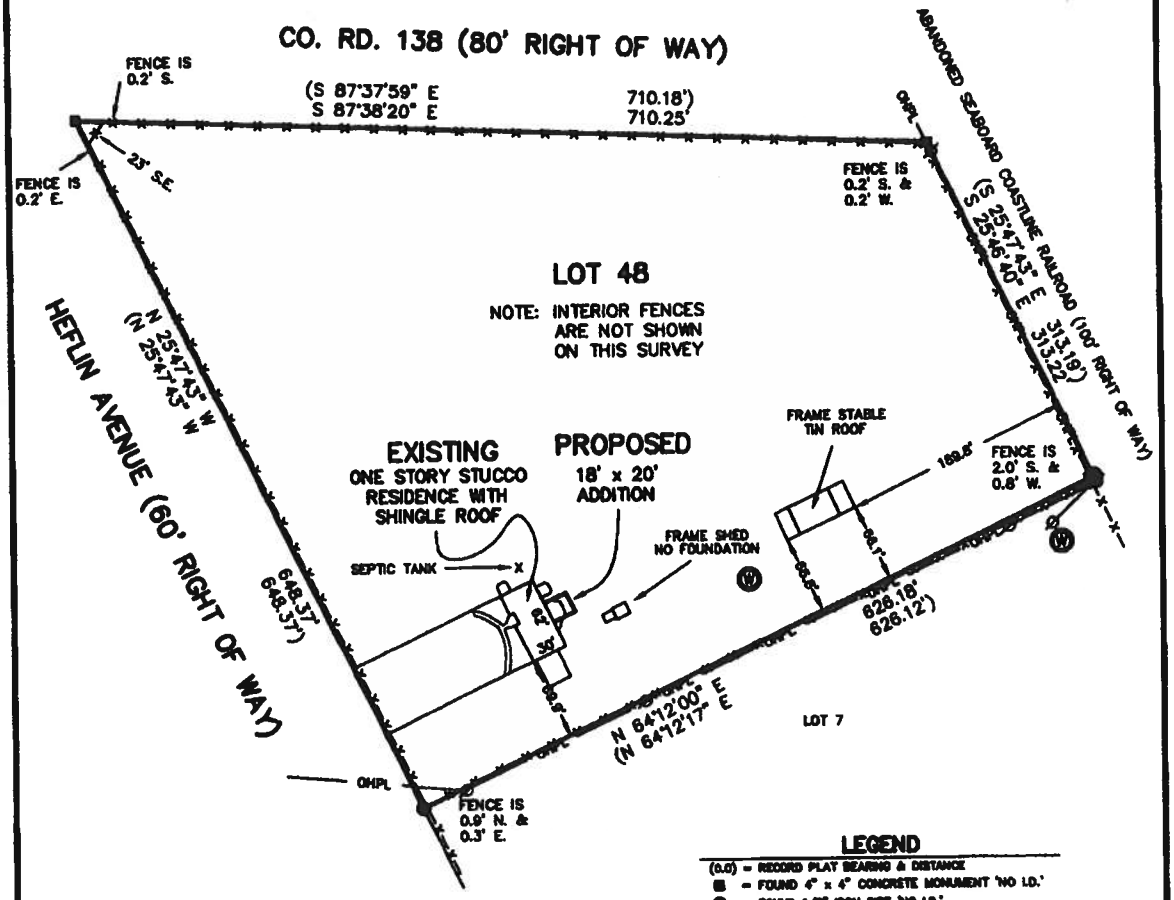
BOUNDARY SURVEY

LOT 48 OF SANTA FE RIVER PLANTATIONS, A SUBDIVISION AS PER PLAT THEREOF RECORDED IN PLAT BOOK 4, PAGES 55, 55A & 55B OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA

ADDRESS: 211 HEFLIN AVENUE FORT WHITE, FL 32038

0 36 120 480
12 60 240

GRAPHIC SCALE: 1" = 120'



LEGEND

- (0.0) = RECORD PLAT BEARING & DISTANCE
- ■ = FOUND 4" x 4" CONCRETE MONUMENT 'NO I.D.'
- ● = FOUND 1/2" IRON PIPE 'NO I.D.'
- ● = FOUND 3/4" IRON PIPE 'NO I.D.'
- ⌀ = POWER POLE
- OHPL = OVERHEAD POWER LINE
- -X- = WIRE FENCE
- ● = 4" WATER WELL

NOTE:
NO BUILDING SETBACK LINES SHOWN ON SAID RECORD PLAT

FLOOD CERTIFICATION

THE LOT SHOWN HEREON LIES WITHIN ZONE "X" AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP PANEL 120070-0270 B OF 290 FOR COLUMBIA COUNTY, FLORIDA. SAID MAP DESCRIBES ZONE "X" AS BEING AREAS OUTSIDE 500-YEAR FLOOD. EFFECTIVE DATE 1-6-1988

CERTIFIED TO: KENNETH E. MATHIS, CAROL S. MATHIS,

I HEREBY CERTIFY THAT A SURVEY OF THE HEREON DESCRIBED LAND WAS MADE UNDER MY RESPONSIBLE DIRECTION AND THAT THIS IS A TRUE AND CORRECT REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF AND FURTHER THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS IN CHAPTER 61G17-6 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

NOTES:

1. BEARINGS BASED ON SAID RECORD PLAT DATUM FOR HEFLIN AVENUE.
2. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS NOTED.
3. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS OF WAY, AND OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.

TYPE SURVEY	FIELD WORK COMPLETED	DRAWING COMPLETED	PROJECT NO.	FIELD BOOK	PAGE
BOUNDARY SURVEY	01-27-06	01-30-06	06-07	83	89
FOUNDATION SURVEY					
FINAL SURVEY					

DAVID D. PARRISH LAND SURVEYING, INC.
12606 N.W. 142nd TERRACE, ALACHUA FL 32615 (386)462-5427
FAX (386)462-7789
DAVID D. PARRISH, P.L.S.
Registered Florida Land Surveyor No. 4789

01-30-06
Date Signed

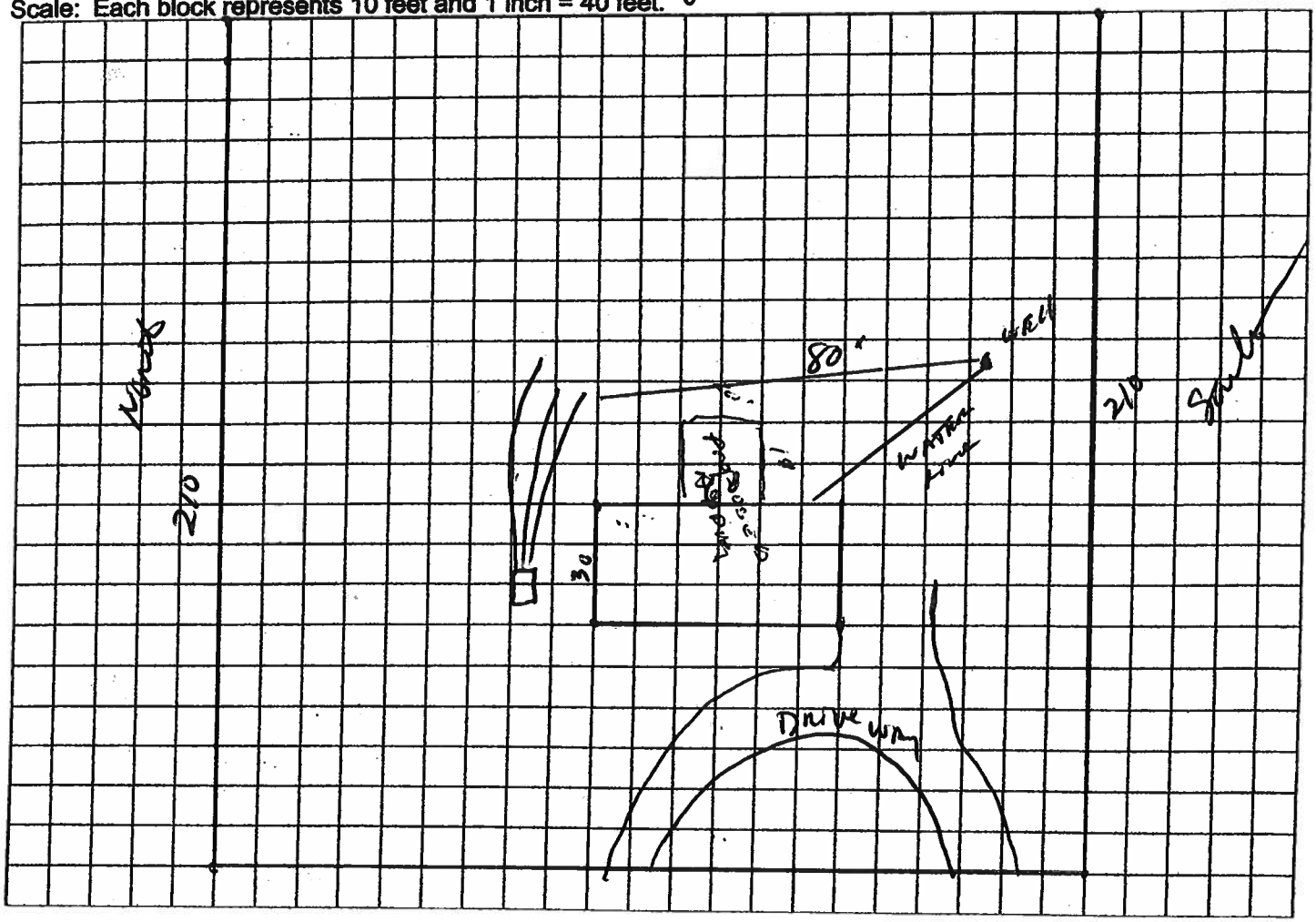
Mathis

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0392-E

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

Scale: Each block represents 10 feet and 1 inch = 40 feet. (est)



Notes: 1 - Acre ± 6.9 Acres

Site Plan submitted by: B Smith

Plan Approved Not Approved Date 4/3/06

By Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

NOTICE OF COMMENCEMENT

STATE OF: FLORIDA COUNTY OF: Columbia
CITY OF: Ft. White

THE UNDERSIGNED hereby gives notice that improvement(s) 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.

DESCRIPTION OF PROPERTY:

LOT: 45 BLOCK: _____
SECTION: 30 TOWNSHIP: 7S RANGE: 17
TAX PARCEL #: 30-7S-17-10058-948
SUBDIVISION: _____ PLATBOOK: _____ MAP PAGE # _____
STREET ADDRESS: 211 SW Heflin Ave Ft White 32038

GENERAL DESCRIPTION OF IMPROVEMENT:

TO CONSTRUCT: Addition to Existing house

OWNER INFORMATION

OWNER(S) NAME: Gene Mathis
ADDRESS: 211 SW Heflin Ave Ft White PHONE NO.: 386-454-5534
CITY: Ft White STATE: FL ZIP CODE: 32038
INTEREST IN THE PROPERTY: owner
FEE SIMPLE TITLEHOLDER NAME: _____
FEE SIMPLE TITLEHOLDER ADDRESS: _____
(if other than owner)

CONTRACTOR NAME: Robert Betterton DBA H.A.S Builders
ADDRESS: 9120 35 2nd St E PHONE NO.: 386-454-0627
CITY: Trenton STATE: FL ZIP CODE: 32693

BONDING COMPANY: _____
ADDRESS: _____
CITY: _____ AMOUNT OF BOND: _____

LENDER NAME: _____
ADDRESS: _____
CITY: _____

Inst:2006004219 Date:02/21/2006 Time:14:19
DC,P.DeWitt Cason,Columbia County B:1074 P:2178

* Persons within the State of Florida designated by Owner upon whom notices or ot documents may be served as provided by Section 713.13(1) (a) 7., Florida Statut
NAME: Gene Mathis ADDRESS: 211 SW Heflin Ave Ft White FL 32038
In addition to himself, Owner designates _____
of _____ to receive a copy of the Lienor's Notice provided in Section 713.13 (1) (b), Florida Statutes.

* Expiration date is 1 year from date of recording unless a different date specified.

SIGNATURE OF OWNER: Gene Mathis

Sworn to and subscribed before me this 15th day of Feb A. D. 2006
Notary Public Timothy W. Martin Signature My commission Expires: 2-14-2010

TIMOTHY W. MARTIN
Notary Public - State of Florida
My Commission Expires Feb 14, 2010
Commission # DD 513747
Bonded By National Notary Assn.

RESIDENTIAL WIND DESIGN & ANALYSIS

NO COPIES ARE TO BE PERMITTED \ FBC2004

PREPARED FOR:

H. A. S. BUILDERS \ THE MATHIS ADDITION

PREPARED BY:

MARTY R. ESKRIDGE
14952 MAIN ST
ALACHUA FL 32615
386-462-1340 / 352-375-6329

SUMMARY
OF WIND DESIGN & ANALYSIS

Trusses: Lumber type So. Pine Grade #1 #2 #3 Size 2 x 4 Spacing 24 in.

Hurricane anchors: Interior: Mfr * Model *
End: Mfr * Model *

Roof sheathing: Type OSB Size 7/16 Fastener type Nails Size 8d/131 [illegible]
Interior zone spacing: Interior 8 in. Periphery 4 in.
Edge and end zone spacing: Interior 8 in. Periphery 4 in.

Top double pl: Type Spruce Grade #1 #2 Size 2 x 4 Nail spacing 12 in.

Studs: Wood or Steel: Wood Type Spruce Grade #1 #2 Size 2 x 4
Interior stud spacing 16 in. Composite (yes or no) Y
End stud spacing 16 in. Composite (yes or no) Y

Shearwall siding: Type OSB Thickness 7/16 in.
12' — Trans: Fastener 8d / 131 Spacing: Int 8 in. Edge 4 in.
17' — Long: Fastener 8d / 131 Spacing: Int 8 in. Edge 4 in.

Wall tension transferred by: Siding nails 8d/131 @ 4 O.C. edges

Foundation anchor bolts: Concrete strength 3000 psi
Size 1/2 in. Shape L Washer 2" Embedment 7 in.
Location of first anchor bolt from corner 8 in.

Anchor Bolts @ 48" O.C.
Hold-down device: Mfr ________ Model A307 Loc. from corner 8 in.

Type of foundation: 1 #5 rebar continuous required in bond beam.

Floor slab 4 in. CMU: Size 8 x 16 in. Height 24 in. Reinf. # 5 at 96 in.
Monolithic footing: Depth 20 in. Bottom width 12 in.

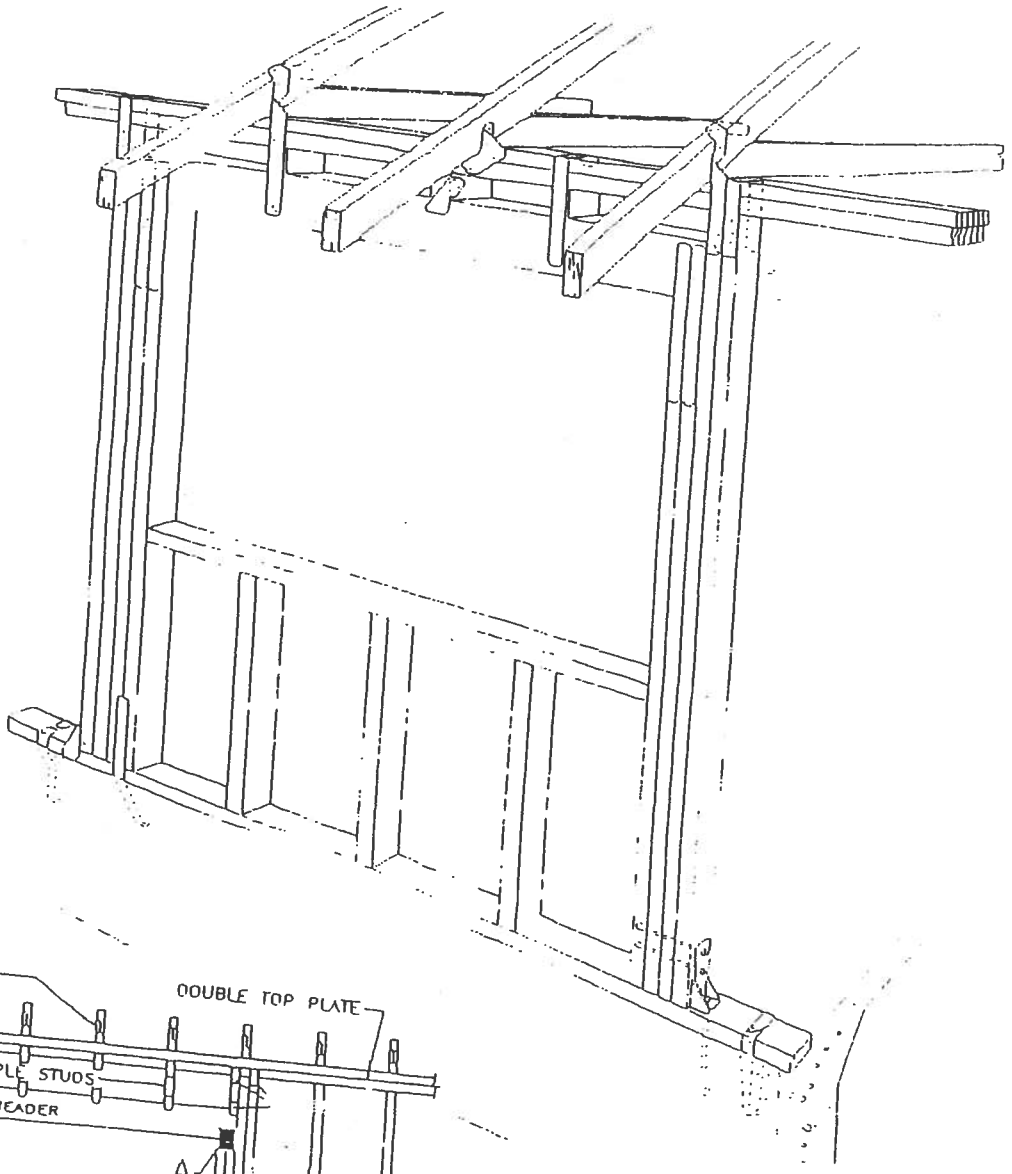
Footing: Width 20 in. Depth 10 in. Reinforcing 2 --# 5 bars
Interior Footings: 16" W X 10" D

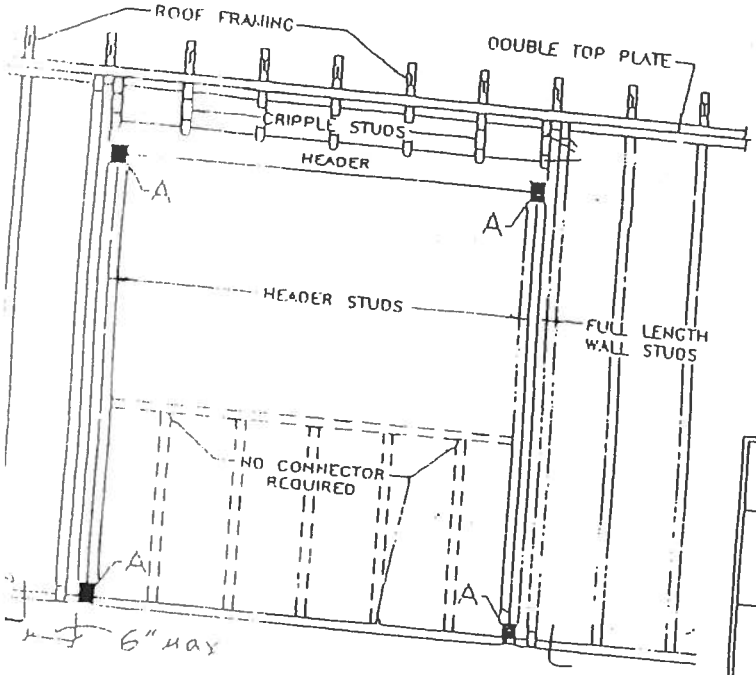
Porch Columns: NA

Porch Column Fasteners: NA

NOTE:
1. **Balloon frame ALL gable ends unless this summary is accompanied by Gable End Wall Brace detail.**
2. **All trusses must bear on exterior walls & porch beams.**
3. **All walls to be nailed with same nailing pattern as shearwalls.**
4. **This is a windload only, NOT a structural analysis.**
5. **This windload is not valid without a raised, embossed seal.**
6. **It is assumed that ideal soil conditions and pad preparations are provided.**
7. **Fiber mesh or WWM may be used in concrete slab.**
8. **Trusses must be anchored and supported in accordance to the truss engineering.**
9. **Wind design and analysis valid for one use only, no copies permitted.**

[illegible] AA003985 2/6/06





Unsupported Wall Height	Stud Spacing	Maximum Header Span (ft)					
		3'	6'	9'	12'	15'	18'
		Number of Header Studs Supporting End of Header					
		1[1]	1	2	2	2	2
		Number of Full-Length Studs at Each End of Header					
10' or less	12 in.	2	2	3	3	3	3
	16 in.	2	2	3	3	3	3
	24 in.	1	2	2	2	2	2
greater than 10'	12 in.	2	2	3	4	5	5
	16 in.	2	2	3	3	4	4
	24 in.	1	2	2	2	3	3

Total each truss uplift on the header divide by 2 for header anchorage

TIE-DOWN TABLES

HEADERS				
Uplift Force Lbs	Top Connector **	Rating Lbs	Bottom Connector **	Rating Lbs
to 455	LSTA9	725	H3	455
to 910	LSTA12	905	2-H3	910
to 1265	LSTA18	1265	LTT19	1350
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2565
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3700
Total uplift for each truss resting on the header and divide by 2 to determine the uplift force. Use proper bolt anchors sufficient to support required load.				

TRUSSES/GIRDERS		
Uplift Force Lbs	Top Connector **	Bottom Connector **
to 500	H2.5	N/A
501-1049	H10	N/A
1050-1350	TS22	LTT19
1351-1750	2-TS22	LTT20
1751-2570	2-TS22	HD2A
2571-3665	3-TS22	HD5A
3666-5260	2-MST148	HTT22
5261-8300	2-MST48	HD10A
Two 12d common toenails are required per truss/rafter per bearing point into plate. Use proper bolt anchors. Strap rafters to truss or at each end with minimum uplift resistance of 450# each end. Strap ridge beam at each end with minimum uplift resistance of 1000#. It is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation.		

	Top Connector **	Rating Lbs	Bottom Connector **	Rating
BEAM SEATS	LSTA18*	1200	LTT19*	1250
POSTS (max 17' spacing)	2-LSTA18	2400	ABU44	2300
*or per truss engineering Use proper bolt anchors All beams to be sheathed or strapped to Double Top Plate when applicable.				

CRIPPLES	Sheathing nailing alone adequate w/8d nails @ 3" O.C.

STUDS
Wall sheathing nailing Adequate exterior walls bottom w/8d nails @ 3" O.C.
Wall sheathing nailing Adequate exterior walls top w/8d nails @ 3" O.C., as long as sheathing covers top plate, otherwise use SP2 @ 32" O.C. in addition to sheathing nailing.
Use SP2 top and SP1 bottom each stud for all interior load bearing walls and anchor bolts @ 32" O.C.
Interior anchor bolts to be ½" x 8" A307 or ½" x 6" wedge anchor or equivalent.

** Equivalent Simpson hardware, or other manufacturer, may be substituted for any of the hardware specified on this page as long as it meets the required load capacities/uplift resistance.
NOTE: For nailing into SPF members, multiply table values by .86

ASCE 7-98

2/6/06

Wind Load Design per ASCE 7-98

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	18.4	Deg
Type of Roof	Hipped	
Eave Height (Eht)	8.00	ft
Ridge Height (RHt)	11.43	ft
Mean Roof Height (Ht)	10.91	ft
Width Perp. to Wind (B)	18.00	ft
Width Parallel to Wind (L)	20.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters		
Importance Factor	1	
Hurricane Prone Region (V>100 mph)		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.61
Flexible Structure	No

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.9360	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8873	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	161.33	ft/s
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s
NF1	NatFreq*Lzm/Vzm	4.37	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552	
Nh	4.6*NatFreq*Ht/Vzm	0.71	
Nb	4.6*NatFreq*B/Vzm	1.17	
Nd	15.4*NatFreq*Depth/Vzm	4.34	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.6570	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.5251	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.2037	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	1.0914	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.30	

Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.89	Gust Factor (G)	0.89

ASCE 7-98

2/6/06

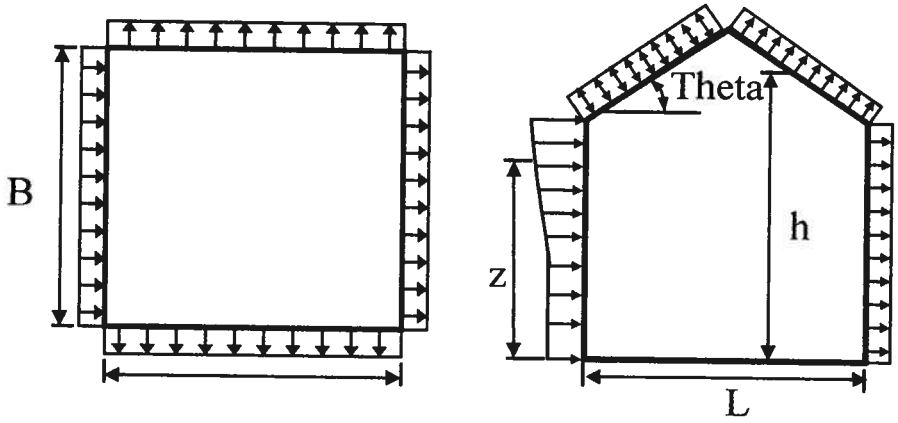
Wind Load Design per ASCE 7-98

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windward Wall*	
ft			1.00	lb/ft^2	+GCpi	-GCpi
15	0.70	1.00	1.00	21.70	12.20	18.61

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(15/zg)^(2/Alpha)	0.57	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	17.80	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 18 ft wall)	-0.48	-10.75	-4.34
Leeward Walls (Wind Dir Parallel to 20 ft wall)	-0.50	-11.10	-4.69
Side Walls	-0.70	-14.26	-7.85
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	-0.52	-11.47	-5.06
Windward - Max Positive	0.00	0.00	0.00
Leeward Normal to Ridge	-0.57	-12.22	-5.81
Overhang Top	-0.52	-8.27	-8.27
Overhang Bottom	0.80	0.71	0.71
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 5.455 ft	-0.94	-18.00	-11.59
Dist from Windward Edge: 5.455 ft to 10.91 ft	-0.88	-17.13	-10.72
Dist from Windward Edge: 10.91 ft to 21.82 ft	-0.52	-11.39	-4.98
	0.00	0.00	0.00

ASCE 7-98

2/6/06

Wind Load Design per ASCE 7-98

* Horizontal distance from windward edge

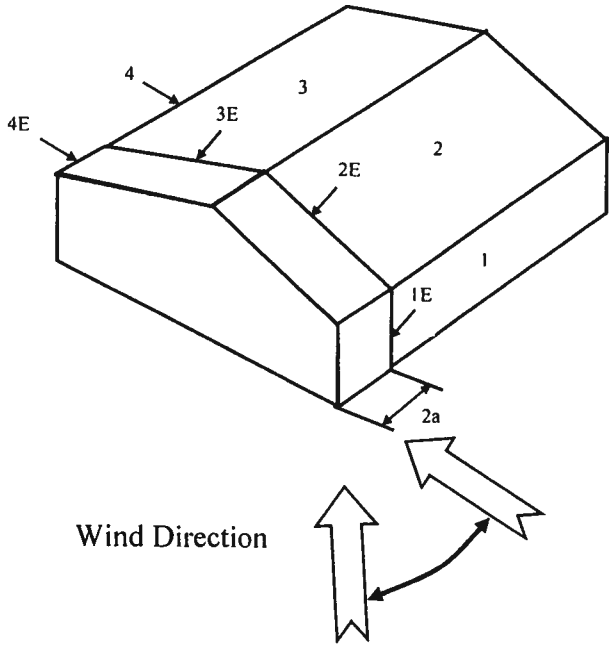
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	17.80

Case A						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	0.52	0.18	-0.18	21.70	7.29	15.11
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.47	0.18	-0.18	21.70	-14.07	-6.26
4	-0.42	0.18	-0.18	21.70	-12.91	-5.10
5	0.00	0.18	-0.18	21.70	-3.91	3.91
6	0.00	0.18	-0.18	21.70	-3.91	3.91
1E	0.78	0.18	-0.18	21.70	13.02	20.83
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.67	0.18	-0.18	21.70	-18.51	-10.70
4E	-0.62	0.18	-0.18	21.70	-17.31	-9.50
5E	0.00	0.18	-0.18	21.70	-3.91	3.91
6E	0.00	0.18	-0.18	21.70	-3.91	3.91

* p = qh * (GCpf - GCpi)



ASCE 7-98

Wind Load Design per ASCE 7-98

Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	17.80

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86
5	0.40	0.18	-0.18	21.70	4.77	12.59
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.61	0.18	-0.18	21.70	9.33	17.14
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43

* p = qh * (GCpf - GCpi)

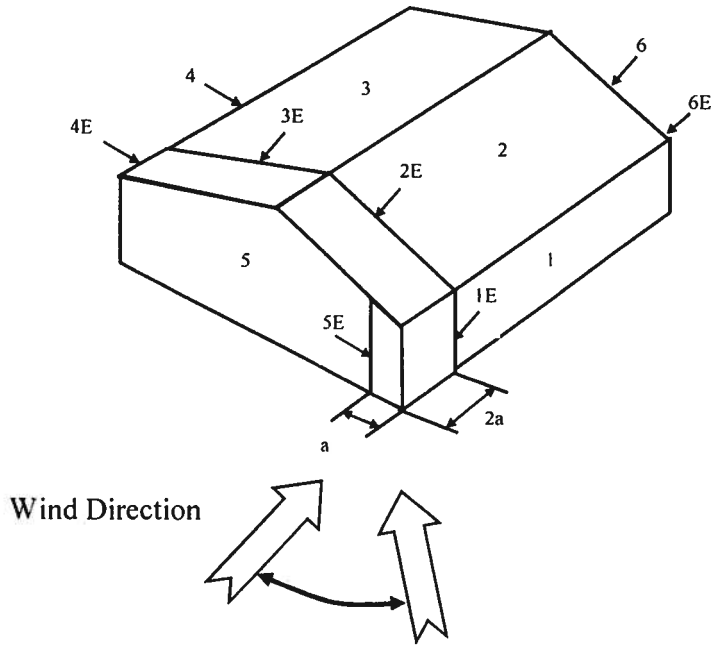
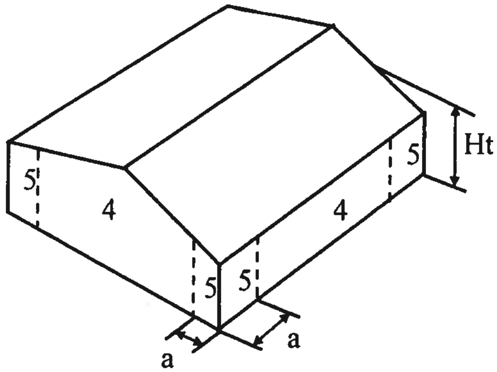


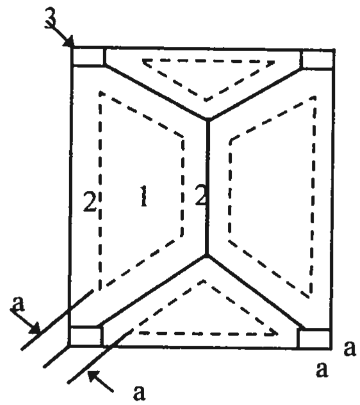
Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft

ASCE 7-98

Wind Load Design per ASCE 7-98





Hipped Roof
10 < Theta <= 30

a = 1.8 ==> 3.00 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp Max	GCp Min	Wind Press (lb/ft^2) Max	Wind Press (lb/ft^2) Min
	16	7	112.00	5	0.81	-1.03	17.71	-21.53
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

Condition	Gcpi Max +	Gcpi Max -
Open Buildings	0.00	0.00

ASCE 7-98

Wind Load Design per ASCE 7-98

Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

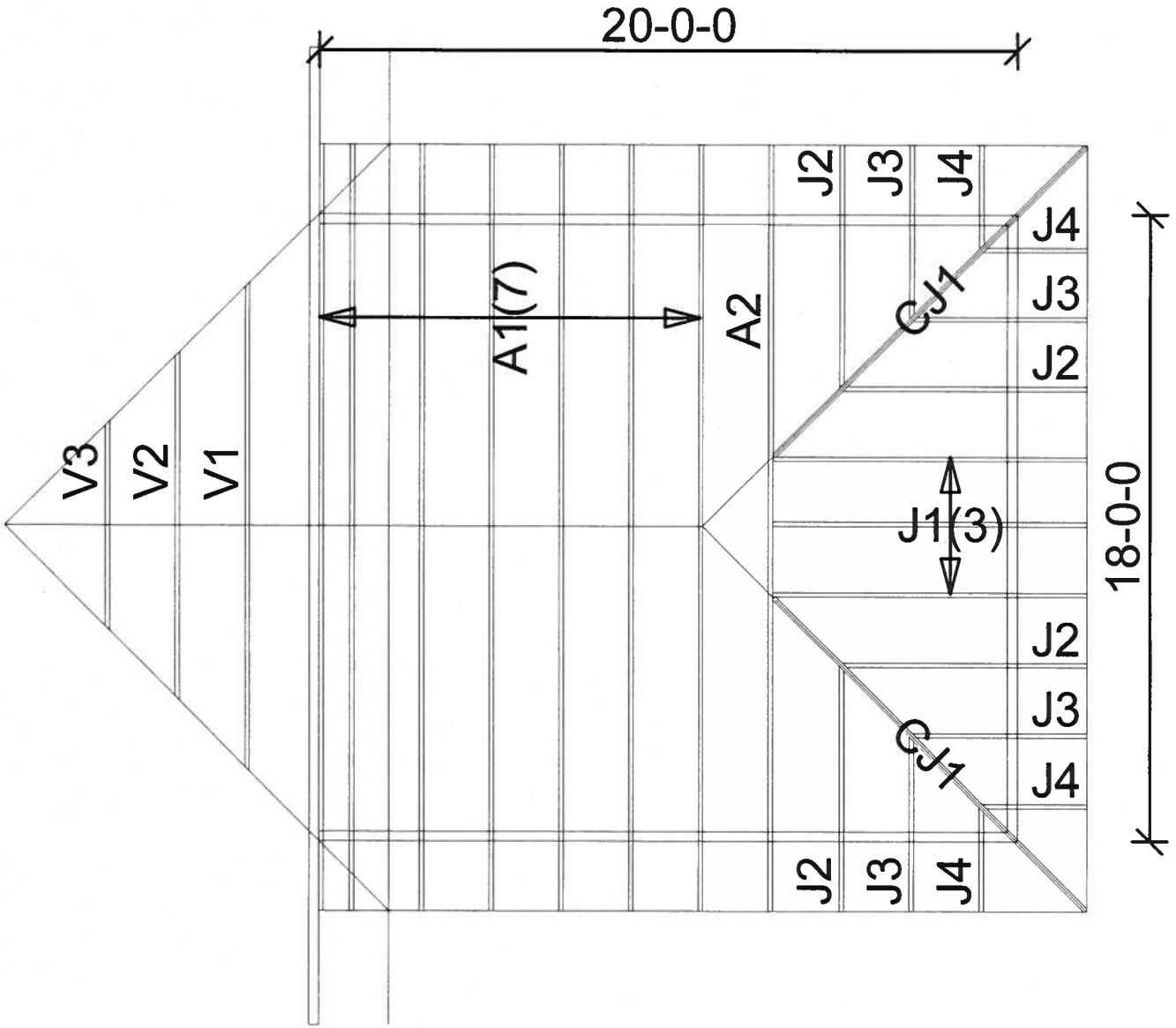
Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

r (Rise-to-Span Ratio) = 0.3

Condition	Variable	Cp		
		Windward Quarter	Center Half	Leeward Quarter
Roof on Elevated Structure	Cp	0.13	-1	-0.5
	P (+GCpi) - psf	-1.23	-19.00	-11.10
	P (-GCpi) -psf	5.18	-12.59	-4.69
Roof Springing from Ground	Cp	0.42	-1	-0.5
	P (+GCpi) - psf	3.43	-19.00	-11.10
	P (-GCpi) -psf	3.43	-19.00	-11.10

Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
L	Roof dimension normal to wind direction	20.00	ft
B	Roof dimension parallel to wind direction	18.00	ft
L/B	Ratio of L to B	1.111	
Theta	Slope of Roof	18.4	Deg
Cf	Force Coefficient	0.82	
X	Distance to center of pressure from windward edge	0.30	ft



Mayo Truss Co. Inc.
362 NE CLYDE AVE.
MAYO, FL 32066
(386)294-3988
(877)-558-6262

HAS BUILDERS, INC.

MATHIS ADDITION

110 MPH ASCE WIND LOAD (FBC2004)

Roof Loading	
TC Live:	20.00 psf
TC Dead:	10.00 psf
BC Live:	0.00 psf
BC Dead:	10.00 psf
TC Stress Inc:	25.00
BC Stress Inc:	25.00
Spacing:	2- 0- 0 o.c.

Account: CONTRACTORS
Job: HAS-MATHIS
Designer: M.MURRAY
Checker: M.MURRAY
Date: 02-07-06

Permit Number:_____ Lot Number:_____

Miscellaneous:_____ Address:_____

The information in this box is for administrative purposes only and is not part of the engineering review.

Truss Fabricator:Mayo Truss Company, Inc

Job Reference:HAS-MATHIS - MATHIS ADDITION

Standard Loading:

T.C. Live	20 psf
T.C Dead	10 psf
B.C Live	0 psf
B.C. Dead	10 psf
Total	40 psf

ANSI/ASCE 7-02
Wind Speed - 110 mph
Mean Roof Ht. - 15 ft.
Exposure Catergory - B
Occupancy Factor - 1.00
MWFRS
Enclosed

ROBBINS ENGINEERING, INC.
P.O. Box 280055
Tampa, FL 33682-0055
Phone: (813) 972-1135

Engineering Index Sheet

Index Page 1 of 1

Job Number	Date		Specification Quantity
T06020294	02/03/2006	FBC - 2004 Chapter 16 and 23	10

A Professional Engineer's seal affixed to this Index Sheet indicates the acceptance of Professional Engineering responsibilities for individual truss components fabricated in accordance with the listed and attached Truss Specification Sheets. Determination as to the suitability of these individual truss components for any structure is the responsibilty of the Building Designer, as defined in ANSI/TPI 1-1995, Section 2.2. Permanent files of the original Truss Specificstion Sheet are maintained by Robbins Engineering, Inc. Questions regarding this Index Sheet and/or the attached Specification Sheets may be directed to the truss fabricator listed above or Robbins Engineering, Inc. (Sofware - Online Plus)

Notes: Refer to individual truss design drawings for special loading conditions.

	Date	Mark		Date	Mark		Date	Mark		Date	Mark
1	02/03/06	A1	2	02/03/06	A2	3	02/03/06	CJ1	4	02/03/06	J1
5	02/03/06	J2	6	02/03/06	J3	7	02/03/06	J4	8	02/03/06	V1
9	02/03/06	V2	10	02/03/06	V3						

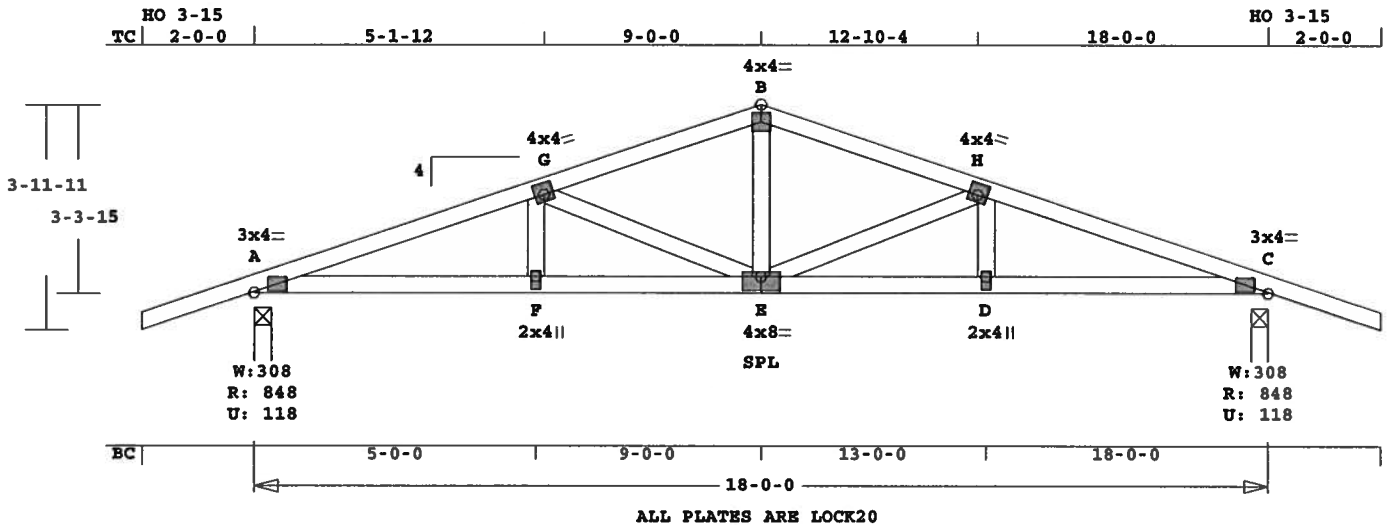
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

THOMAS ALBANI LICENSE No. 39380 STATE OF FLORIDA PROFESSIONAL ENGINEER

Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	A1	7	TR	180000	4	2- 0- 0	2- 0- 0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 103.8 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.18	2x 4	SP-#2
BC	0.34	2x 4	SP-#2
WB	0.11	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	18- 0- 0
BC	Cont.	0- 0- 0	18- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Size Req'd In-Sx
A	848	118	3- 8	1- 8
			Hz =	-39
C	848	118	3- 8	1- 8
			Hz =	40

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -G	0.18	1601	C	0.02	0.16
G -B	0.13	1123	C	0.00	0.13
B -H	0.13	1123	C	0.00	0.13
H -C	0.18	1601	C	0.02	0.16
Bottom Chords					
A -F	0.34	1522	T	0.25	0.09
F -E	0.30	1522	T	0.25	0.05
E -D	0.30	1522	T	0.25	0.05
D -C	0.34	1522	T	0.25	0.09
Webs					
F -G	0.02	169	T		
G -E	0.11	498	C		
E -B	0.08	477	T		
E -H	0.11	498	C		
D -H	0.02	169	T		

LL Defl -0.05" in E -D L/999
TL Defl -0.11" in E -D L/999
Shear // Grain in A -G 0.17

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

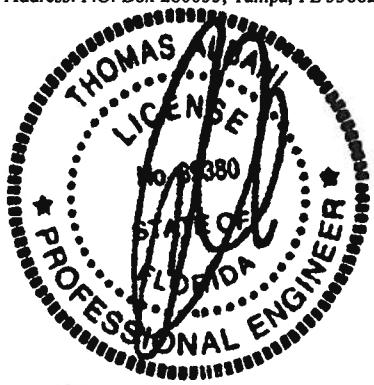
Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.80
G	LOCK	4.0x 4.0	-0.2	0.5	0.52
B	LOCK	4.0x 4.0	Ctr	Ctr	0.65
H	LOCK	4.0x 4.0	0.2	0.5	0.52
C	LOCK	3.0x 4.0	Ctr	Ctr	0.80
F	LOCK	2.0x 4.0	Ctr	-0.7	0.40
E	LOCK	4.0x 8.0	Ctr	-1.0	0.66
D	LOCK	2.0x 4.0	Ctr	-0.8	0.40

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 1601 Lbs
Quality Control Factor 1.25

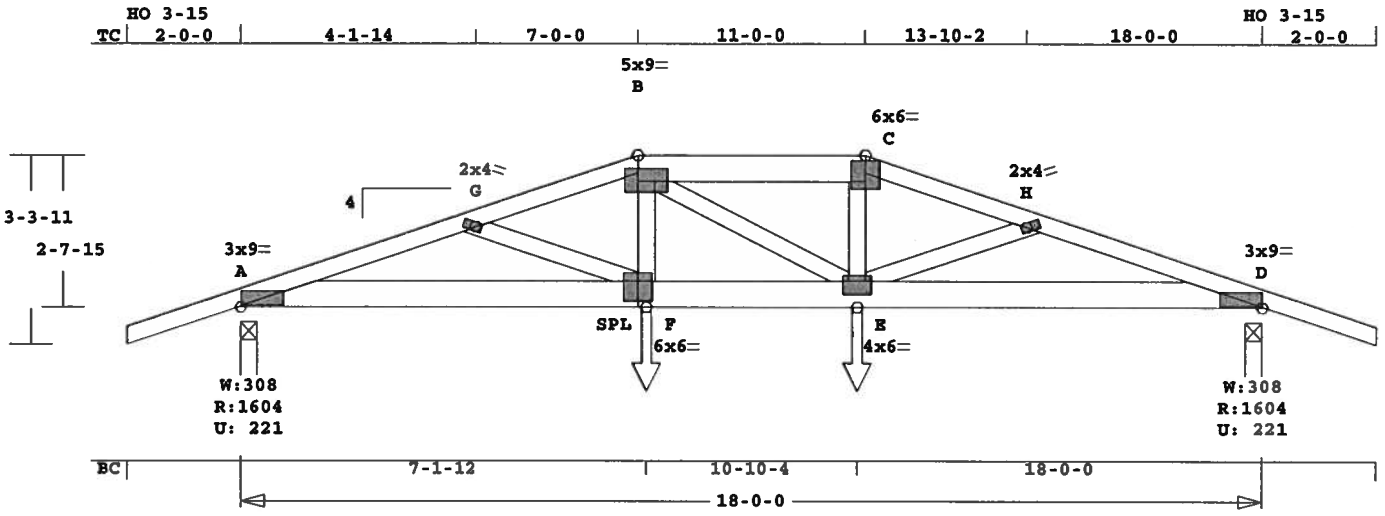
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	A2	1	HIPP	180000	4	2- 0- 0	2- 0- 0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 124.4 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.62	2x 4	SP-#2
EX B -C		2x 6	SP-#2
BC	0.75	2x 6	SP-#2
WB	0.13	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	18- 0- 0
BC Cont.	0- 0- 0	18- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25

plf -	Live	Dead	From	To
TC V	40	20	0.0'	18.0'
BC V	0	20	0.0'	18.0'
TC V	50	25	7.0'	11.0'
BC V	0	25	7.1'	10.9'
BC V	280	280	7.1'	CL-LB
BC V	280	280	10.9'	CL-LB

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	1604	221	3- 8	1-14
			Hz =	-29
D	1604	221	3- 8	1-14
			Hz =	30

Membr	CSI	P Lbs	Axl-CSI-Bnd

Top Chords

A -G	0.39	3889	C	0.13	0.26
G -B	0.62	3793	C	0.11	0.51
B -C	0.47	3703	C	0.04	0.43
C -H	0.62	3868	C	0.12	0.50
H -D	0.37	3955	C	0.14	0.23

Bottom Chords

A -F	0.75	3684	T	0.49	0.26
F -E	0.63	3593	T	0.48	0.15
E -D	0.71	3743	T	0.50	0.21

Webs

G -F	0.01	69	T
F -B	0.12	685	T
B -E	0.02	125	T
E -C	0.13	745	T
E -H	0.00	67	T

LL Defl -0.15" in F -E L/999
TL Defl -0.30" in F -E L/706
Shear // Grain in G -B 0.25

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

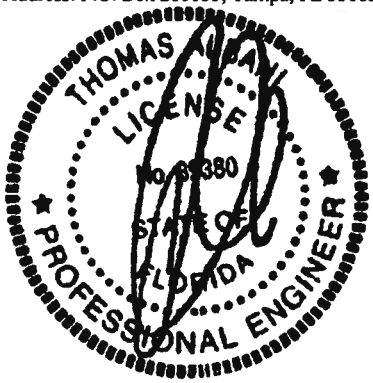
Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 9.0	4.5	1.6	0.93
G	LOCK	2.0x 4.0	-0.8	0.3	0.39
B	LOCK	5.0x 9.0	Ctr	0.2	0.95
C	LOCK	6.0x 6.0	Ctr	-0.3	0.47
H	LOCK	2.0x 4.0	0.8	0.3	0.39
D	LOCK	3.0x 9.0	-4.5	1.6	0.94
F	LOCK	6.0x 6.0	Ctr	-1.2	0.64
E	LOCK	4.0x 6.0	Ctr	-0.8	0.62

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder Step Down Hip
Framing King Jacks
Jack Open Faced
Setback 7- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 3955 Lbs
Quality Control Factor 1.25

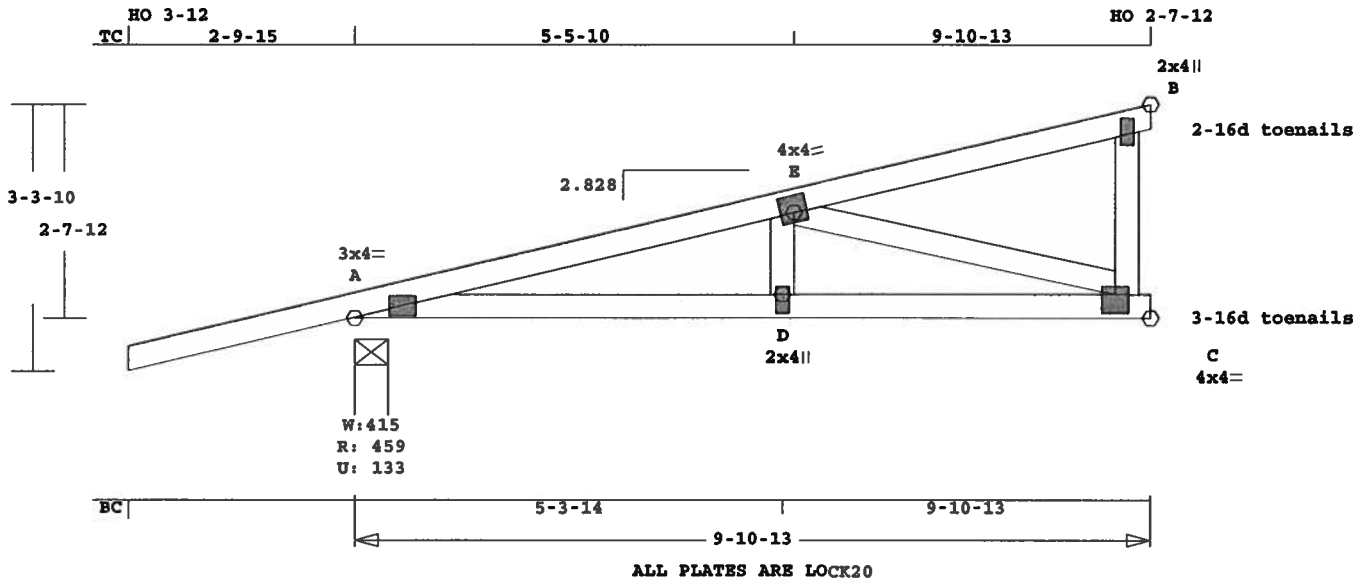
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	CJ1	2	MONO	91013	2.828	2- 9-15	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Scale: 0.421" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 57.0 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.34	2x 4	SP-#2
BC	0.29	2x 4	SP-#2
WB	0.22	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	9-10-13
BC Cont.	0- 0- 0	9-10-13

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.00	Fc=1.00	Ft=1.00	
BC Fb=1.00	Fc=1.00	Ft=1.00	

Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25

plf - Live	Dead	From	To
TC V 40	20	0.0'	9.9'
BC V 0	20	0.0'	9.9'
TC V -40	-20	0.0'	
45	22		9.9'
BC V 0	-20	0.0'	
0	22		9.9'

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	459	134	4-15	1- 8
			Hz =	65
B	214	89	3- 8	1- 8
			Hz =	108
C	337	18	3- 8	1- 8

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -E	0.26	882 C	0.00	0.26
E -B	0.34	64 T	0.00	0.34
--------Bottom Chords---------				
A -D	0.24	870 T	0.10	0.14
D -C	0.29	870 T	0.10	0.19
------------Webs------------				
D -E	0.03	232 T		
E -C	0.22	907 C		
C -B	0.01	0 T	WindLd	

LL Defl -0.02" in D -C L/999
TL Defl -0.05" in D -C L/999
Shear // Grain in E -B 0.27

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.70
E	LOCK	4.0x 4.0	-0.1	0.6	0.52
B	LOCK	2.0x 4.0	Ctr	0.4	0.38
D	LOCK	2.0x 4.0	Ctr	-0.8	0.38
C	LOCK	4.0x 4.0	Ctr	-0.8	0.71

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

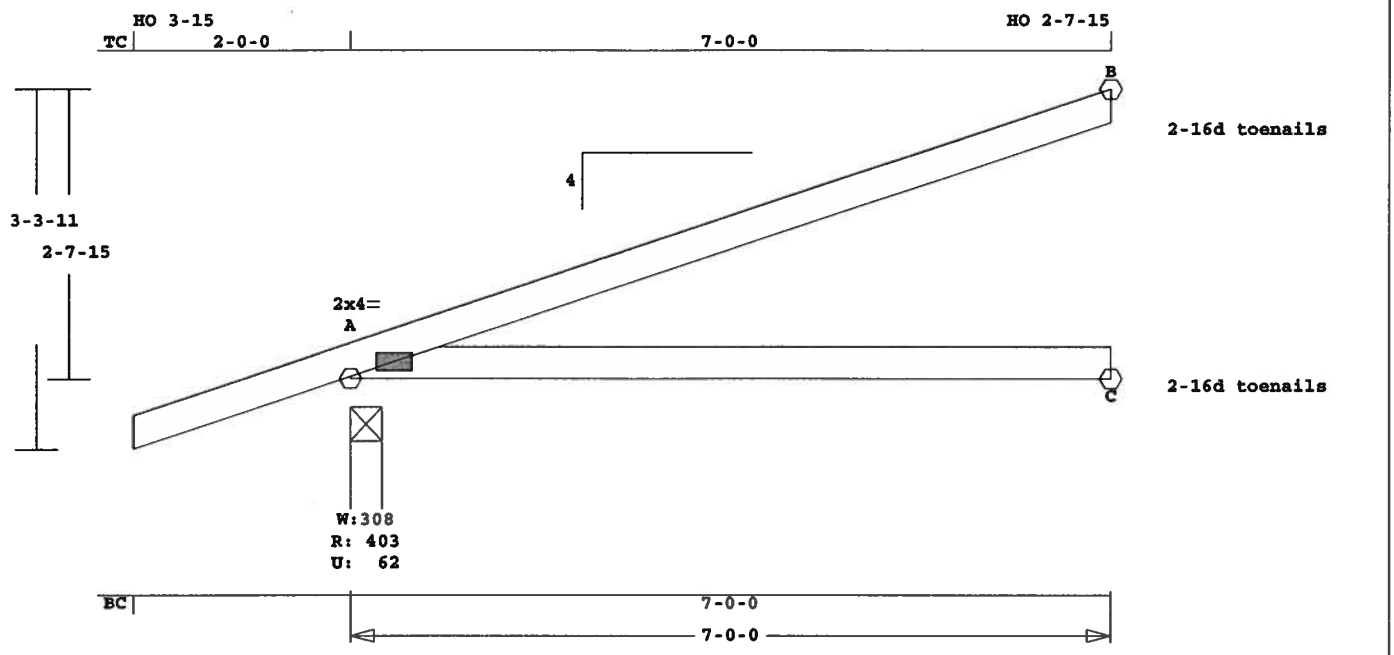
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder King Jack
Loading TC and BC
Setback 7- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Use properly rated hangers for loads framing into girder truss.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 907 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	J1	3	JCA2	70000	4	2- 0- 0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 31.3 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.47	2x 4	SP-#2
BC	0.35	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	7- 0- 0
BC Cont.	0- 0- 0	7- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	404	62	3- 8	1- 8
			Hz =	70
B	195	70	3- 8	1- 8
C	130	0	3- 8	1- 8
			Hz =	48

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.47	32 C	0.00 0.47
--------Bottom Chords---------			
A -C	0.35	47 T	0.00 0.35

LL Defl -0.07" in A -C L/999
TL Defl -0.17" in A -C L/440
Shear // Grain in A -B 0.22

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.78

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

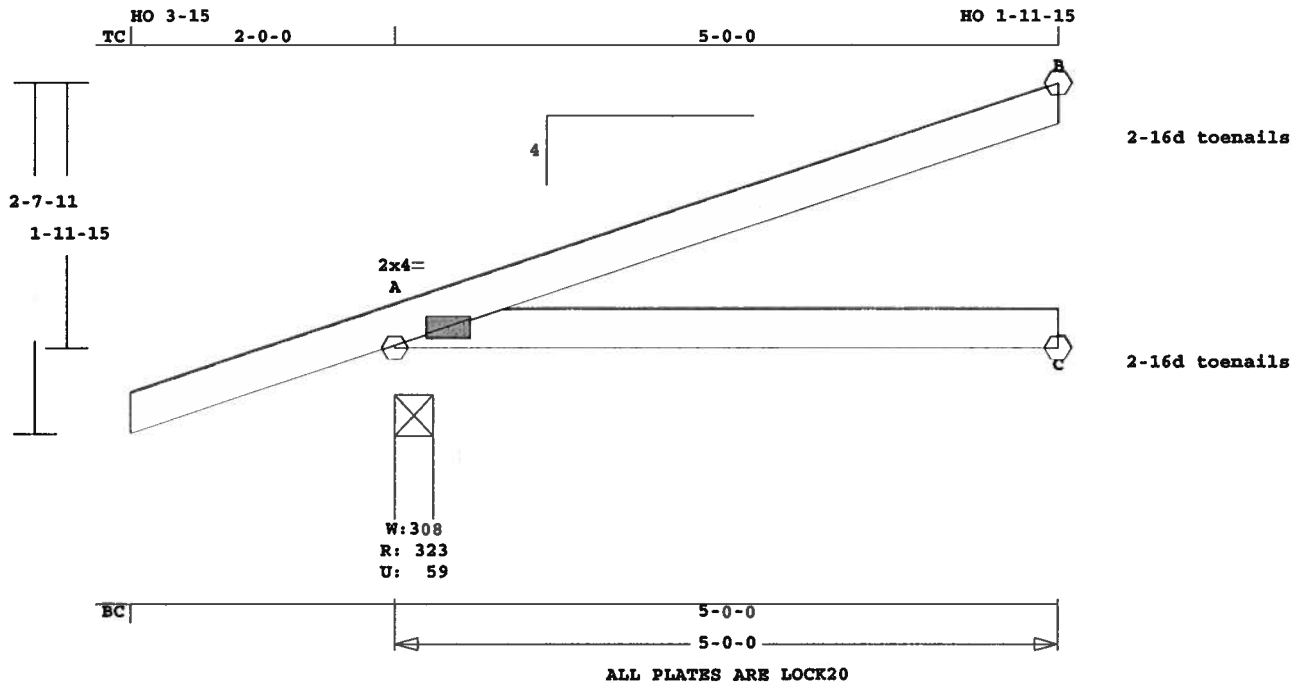
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 32 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	J2	4	JCA2	50000	4	2- 0- 0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Scale: 0.693" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 23.6 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.22	2x 4	SP-#2
BC	0.17	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	5- 0- 0
BC Cont.	0- 0- 0	5- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Size Req'd In-Sx
A	324	59	3- 8	1- 8
			Hz =	50
B	141	50	3- 8	1- 8
C	92	0	3- 8	1- 8
			Hz =	34

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.22	23 C	0.00 0.22
--------Bottom Chords---------			
A -C	0.17	33 T	0.00 0.17

LL Defl -0.02" in A -C L/999
TL Defl -0.04" in A -C L/999
Shear // Grain in A -B 0.15

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.74

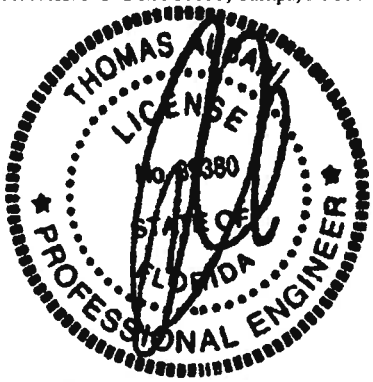
REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 23 Lbs
Quality Control Factor 1.25

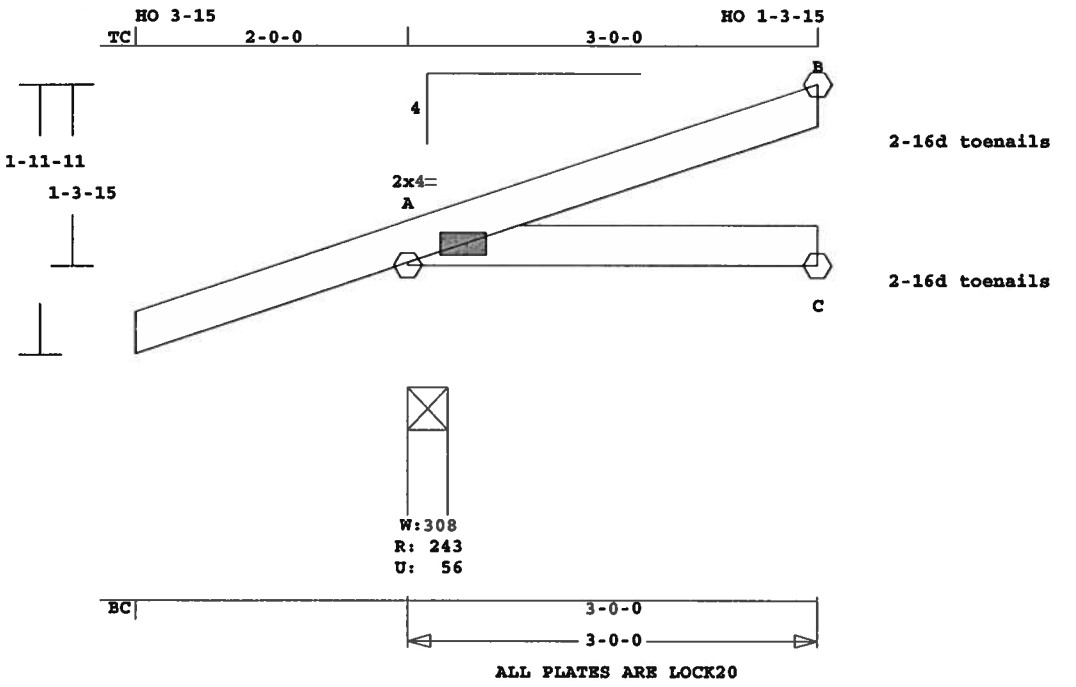
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	J3	4	JCA2	30000	4	2- 0- 0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Scale: 0.713" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 15.8 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.06	2x 4	SP-#2
BC	0.05	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	3- 0- 0
BC Cont.	0- 0- 0	3- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	Size Req'd In-Sx
A	243	56	3- 8	1- 8
			Hz =	29
B	87	31	3- 8	1- 8
C	54	0	3- 8	1- 8
			Hz =	20

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.06	13 C	0.00 0.06
--------Bottom Chords---------			
A -C	0.05	19 T	0.00 0.05

LL Defl 0.00" in A -C L/999
TL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.08

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size X	Y	JSI
A	LOCK	2.0x 4.0 Ctr	Ctr	0.73

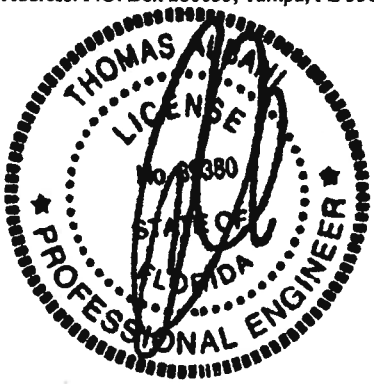
REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 13 Lbs
Quality Control Factor 1.25

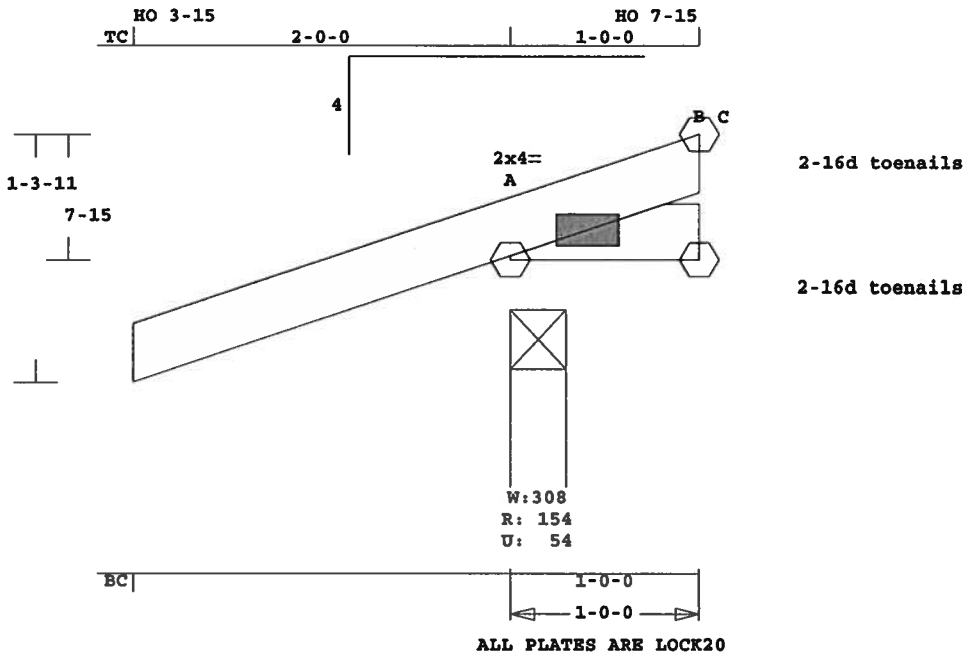
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	J4	4	JCA2	10000	4	2- 0- 0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Scale: 0.988" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 8.0 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.00	2x 4	SP-#2
BC	0.00	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	1- 0- 0
BC Cont.	0- 0- 0	1- 0- 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
A	155	54	3- 8	1- 8
C	44	6	1- 8	1- 8
B	5	2	1- 8	1- 8

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.00	5	T
--------Bottom Chords---------			
A -C	0.00	0	T

LL Defl 0.00" in A -C L/999
TL Defl 0.00" in A -C L/999
Shear // Grain in C -C 0.01

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt Type	Plt Size X	Y	JSI
A LOCK	2.0x 4.0 Ctr	Ctr	0.73

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02

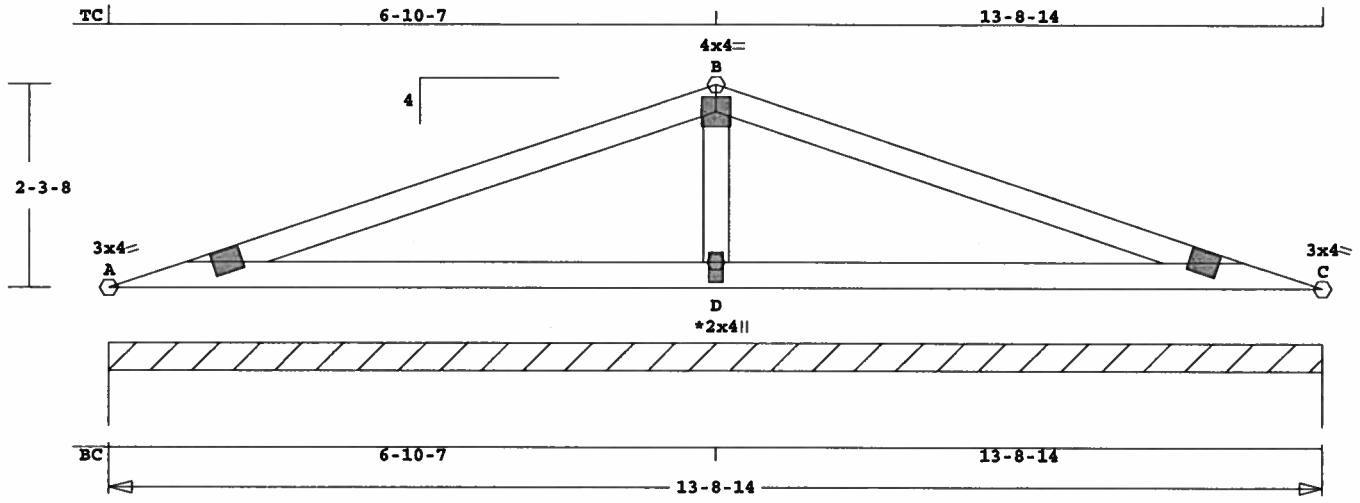
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 0 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	V1	1	VL.SB	130814	4	0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.463" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 53.0 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.26	2x 4	SP-#2
BC	0.26	2x 4	SP-#2
GW	0.03	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	13- 8-14
BC	Cont.	0- 0- 0	13- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25

TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont. Brg	0- 0- 0 to 13- 8-14			
	1178	162 Hz =	94	

Membr	CSI	P Lbs	Axl	CSI	Bnd
----------Top Chords----------					
A -B	0.26	91	C	0.00	0.26
B -C	0.26	91	C	0.00	0.26
--------Bottom Chords---------					
A -D	0.26	0	T	0.00	0.26
D -C	0.26	0	T	0.00	0.26
----------Gable Webs----------					
D -B	0.03	309	C		

LL Defl -0.02" in D -C L/999
TL Defl -0.05" in D -C L/999
Shear // Grain in A -B 0.22

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.72
B	LOCK	4.0x 4.0	Ctr	Ctr	0.59
C	LOCK	3.0x 4.0	Ctr	Ctr	0.72
D	LOCK	2.0x 4.0	Ctr-0.8		0.38

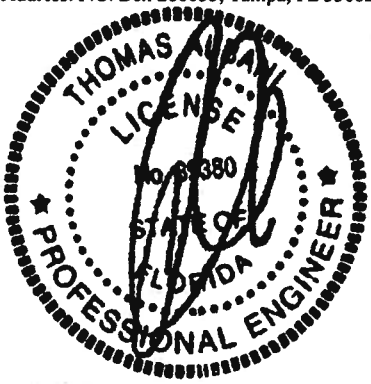
REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed

Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 309 Lbs
Quality Control Factor 1.25

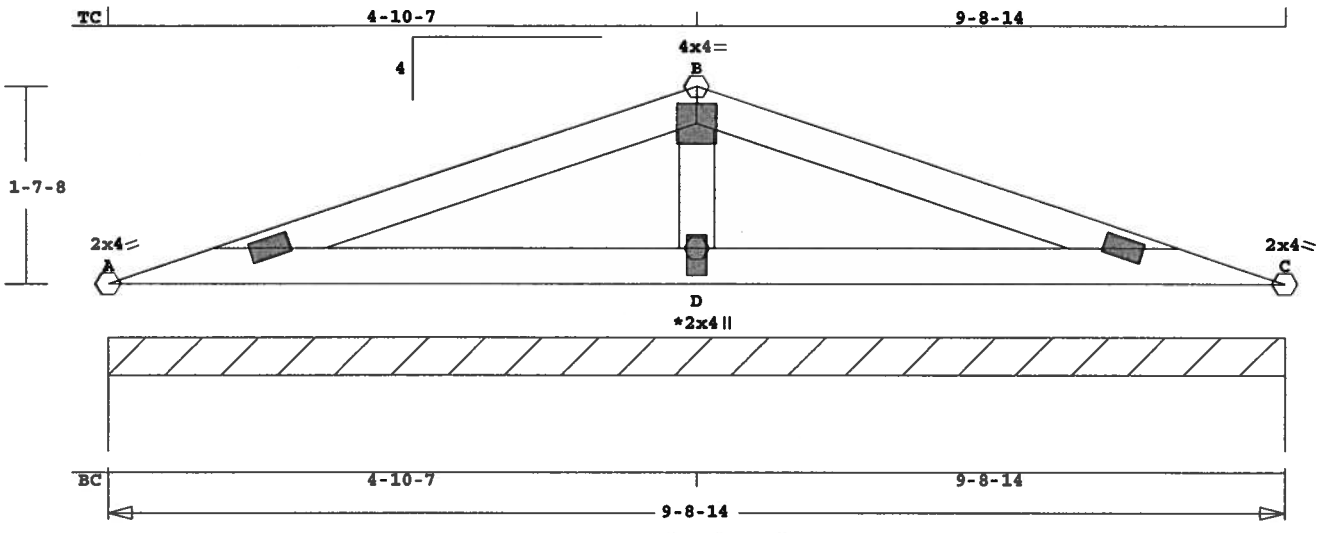
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	V2	1	VL.SB	90814	4	0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



ALL PLATES ARE LOCK20

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.634" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 36.2 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.11	2x 4	SP-#2
BC	0.12	2x 4	SP-#2
GW	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	9- 8-14
BC	Cont.	0- 0- 0	9- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont.	Brg 0- 0- 0 to 9- 8-14			
	782	107	Hz =	55

Membr	CSI	P Lbs	Axl	CSI	Bnd
----------Top Chords----------					
A -B	0.11	52	C	0.00	0.11
B -C	0.11	52	C	0.00	0.11
--------Bottom Chords---------					
A -D	0.12	0	T	0.00	0.12
D -C	0.12	0	T	0.00	0.12
----------Gable Webs----------					
D -B	0.01	202	C		

LL Defl 0.00" in A -D L/999
TL Defl -0.01" in A -D L/999
Shear // Grain in A -B 0.13

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.84
B	LOCK	4.0x 4.0	Ctr	Ctr	0.53
C	LOCK	2.0x 4.0	Ctr	Ctr	0.84
D	LOCK	2.0x 4.0	Ctr-0.8		0.38

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0

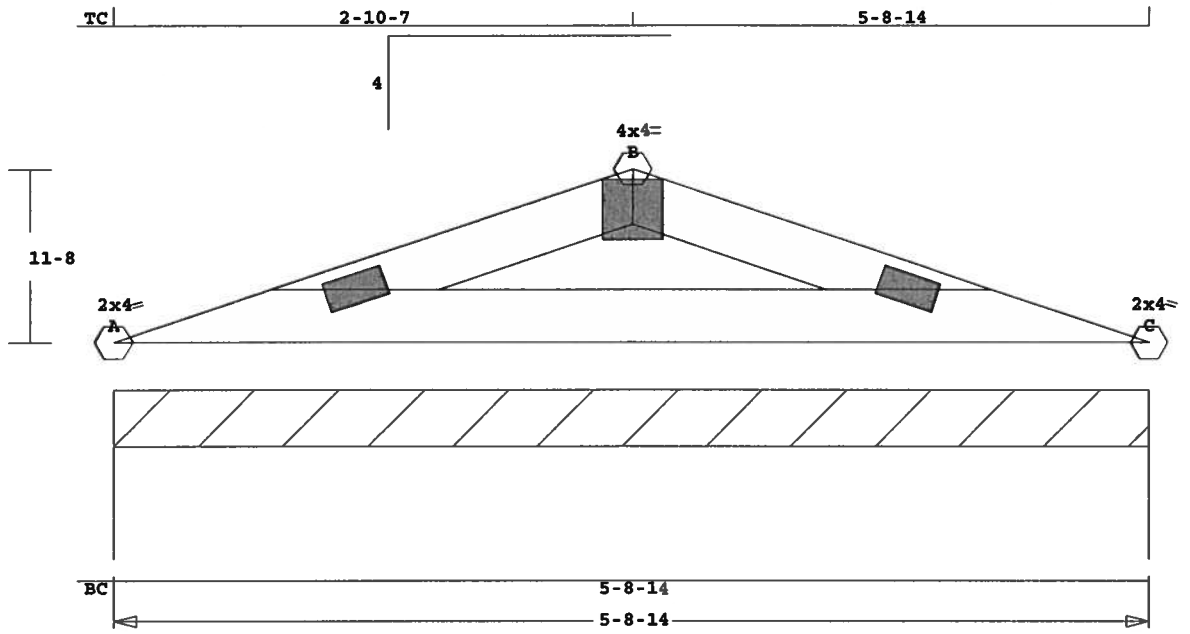
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 202 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 2/3/2006

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
HAS-MATHIS	V3	1	VL.SB	50814	4	0	0	T06020294

U# J#HAS-MATHIS MATHIS ADDITION



Scale: 0.943" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 18.8 LBS

Online Plus -- Version 18.5.027
RUN DATE: 03-FEB-06

	CSI	-Size-	----Lumber----
TC	0.05	2x 4	SP-#2
BC	0.04	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	5- 8-14
BC	Cont.	0- 0- 0	5- 8-14

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

Plus 6 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Jt	React Lbs	Uplft Lbs	Size Req'd In-Sx	In-Sx
Cont.	Brg 0- 0- 0 to		5- 8-14	
	315	42	Hz =	9

Membr	CSI	P Lbs	Axl-CSI-Bnd	
Top Chords				
A -B	0.05	229	C 0.00	0.05
B -C	0.05	229	C 0.00	0.05
Bottom Chords				
A -C	0.04	0	T 0.00	0.04

LL Defl 0.00" in A -C L/999
TL Defl -0.01" in A -C L/999
Shear // Grain in B -B 0.08

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

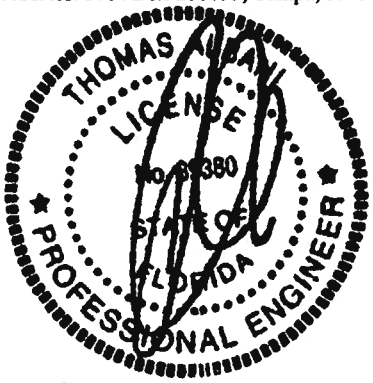
Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.75
B	LOCK	4.0x 4.0	Ctr	-0.8	0.34
C	LOCK	2.0x 4.0	Ctr	Ctr	0.75

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 229 Lbs
Quality Control Factor 1.25

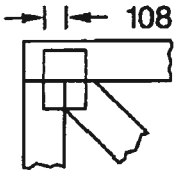
Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 2/3/2006

ROBBINS ENG. GENERAL NOTES & SYMBOLS

PLATE LOCATION



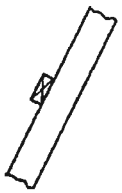
Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108).

PLATE SIZE

6 x 8

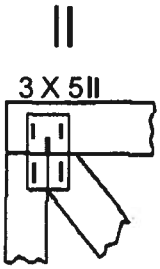
The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots.

LATERAL BRACING



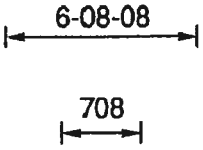
Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restained to prevent simultaneous buckling of adjacent truss members.

PLATE ORIENTATION



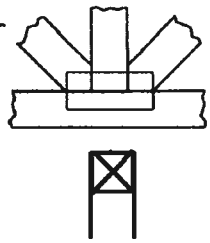
Shown next to plate size, indicates direction of slots in connector plate.

DIMENSIONS



All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).

BEARING



When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearings at each end, unless indicated otherwise. Cutting and fabrication shall be performed on equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and these designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted. These designs were prepared in accordance with "National Design Specifications for Wood Construction" (AF & PA), " National Design Standard for Metal Plate Connected Wood Truss Construction" (TPI), and HUD Design Criteria for Trussed Rafters.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by the Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that the design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THESE DESIGNS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE TRUSS DESIGN DRAWINGS & VERIFY THAT DATA INCLUDING DIM. & LOADS CONFORM TO ARCH. PLAN/SPECS & FAB. TRUSS PLACEMENT DIAGRAM.

Robbins Engineering, Inc.

Corporate Headquarters

6904 Parke East Blvd
Tampa, FL 33610-4115
813-972-1135 Fax:813-971-6117

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☒	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☒	☐	a) All sides
☒	☐	b) Roof pitch
☒	☐	c) Overhang dimensions and detail with attic ventilation

☐ ☐ d) Location, size and height above roof of chimneys.
☐ ☐ e) Location and size of skylights
☒ ☐ f) Building height
☐ ☐ e) Number of stories

Floor Plan including:

☒ ☐ a) Rooms labeled and dimensioned.
☐ ☐ b) Shear walls identified.
☒ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ d) Show safety glazing of glass, where required by code.
☐ ☐ e) Identify egress windows in bedrooms, and size.
☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☐ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

☒ ☐ a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
☐ ☐ b) All posts and/or column footing including size and reinforcing
☐ ☐ c) Any special support required by soil analysis such as piling
☐ ☐ d) Location of any vertical steel.

Roof System:

☒ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☐ ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☐ ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☒ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☐ ☐ **Plumbing Fixture layout**

Electrical layout including:

☒ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☒ ☐ b) Ceiling fans

☐ ☐ c) Smoke detectors

☐ ☐ d) Service panel and sub-panel size and location(s)

☐ ☐ e) Meter location with type of service entrance (overhead or underground)

☐ ☐ f) Appliances and HVAC equipment

☐ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☐ ☐ h) Exhaust fans in bathroom

HVAC information

☒ ☐ a) Energy Calculations (dimensions shall match plans)

☒ ☐ b) Manual J sizing equipment or equivalent computation

☐ ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☒ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done

☐ ☐ **Private Potable Water**

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval: If the project is to be located within the city limits of the Town of Fort White,** prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. **(386) 497-2321**

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is **$50.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit **($25.00)** must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver **($50.00)**. All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

- Series 165/3000 Single Hung and Fixed Windows
- Series 740/744/3740 Single Hung and Fixed Windows
- Series 168/3168 Horizontal Slider and Fixed Windows
- Series 680 Horizontal Slider and Fixed Windows

NOTE: SEE INDIVIDUAL TEST REPORT(S) FOR DP RATINGS AND MAXIMUM ALLOWABLE SIZES.

INSTALLATION INSTRUCTIONS FOR "APPROVED FOR FLORIDA" ALUMINUM FIN WINDOWS

BetterBilt Windows & Doors appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1. Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin. Place a continuous bead of caulk on the back side of nail fin (mounting flange).
2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit frequently as fasteners are set.
3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to 35, do not exceed 24" spacing of additional screws. For DPs from 35.1 to 50, do not exceed 18" spacing.
4. Caulk entire perimeter of fin to mounting surface joint and caulk over screw heads.
   Note: this step can be eliminated if 4" wide adhesive type flashing is used (sill 1st., jambs 2nd., head 3rd.).
5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.
6. Remove plaster, mortar, paint, and debris that has collected on the unit and make sure that sash/vent tracks and interlocks are also clean. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass; scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent.

- CAUTION -

BetterBilt Windows & Doors or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. BetterBilt window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be aware of other code requirements such as emergency egress and structural / energy performance.

Corporate Headquarters:
M.I. Home Products
650 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

www.mihp.com

STEVEN M. URICH CERTIFICATE No. 57795 STATE OF FLORIDA PROFESSIONAL ENGINEER

St 221
July 29, 2003

Rev. 7-24-03

MI HOME PRODUCTS
- PRIME ALUMINUM WINDOWS -
INSTALLATION INSTRUCTIONS FOR "NAIL FIN" PRODUCTS

MI Home Products appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1. Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin.

2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit before any and all fasteners are set.

3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to 35, do not exceed 24" spacing of additional screws. For DPs from 35.1 to 50, do not exceed 18". Install load bearing shim adjacent to each anchor. Use shim where space exceeds 1/16".

4. Flash over head and caulk outside perimeter in accordance with code requirements and good installation practices.

5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.

6. Remove plaster, mortar, paint and any other debris that may have collected on the unit and make sure that sash/vent tracks and interlocks are also clear. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass; scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent as you would you automobile.

- CAUTION -

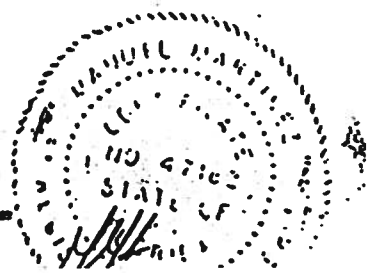
MI Home Products or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. MI Home Products window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing near doors, bathtubs, and shower enclosures. Also be aware of emergency egress code requirements.

Corporate Headquarters:
650 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

CENTRAL FLORIDA B.O.A.F.

MANUFACTURER NAME:
BETTER BILT / MI HOMES

MASTER FILE # 5



MI HOME PRODUCTS / BETTER-BILT

V43

VERTICAL MULLION DESIGN LOAD CAPACITIES

CA980582-A

FOR ALUMINUM V43 TUBE MULLION (DIE # 5766; APROX. SIZE: 1 5/8" X 2 1/8" X 1/8")

07-Feb-2002

WHEN USED TO MULL FIN FRAME WINDOWS

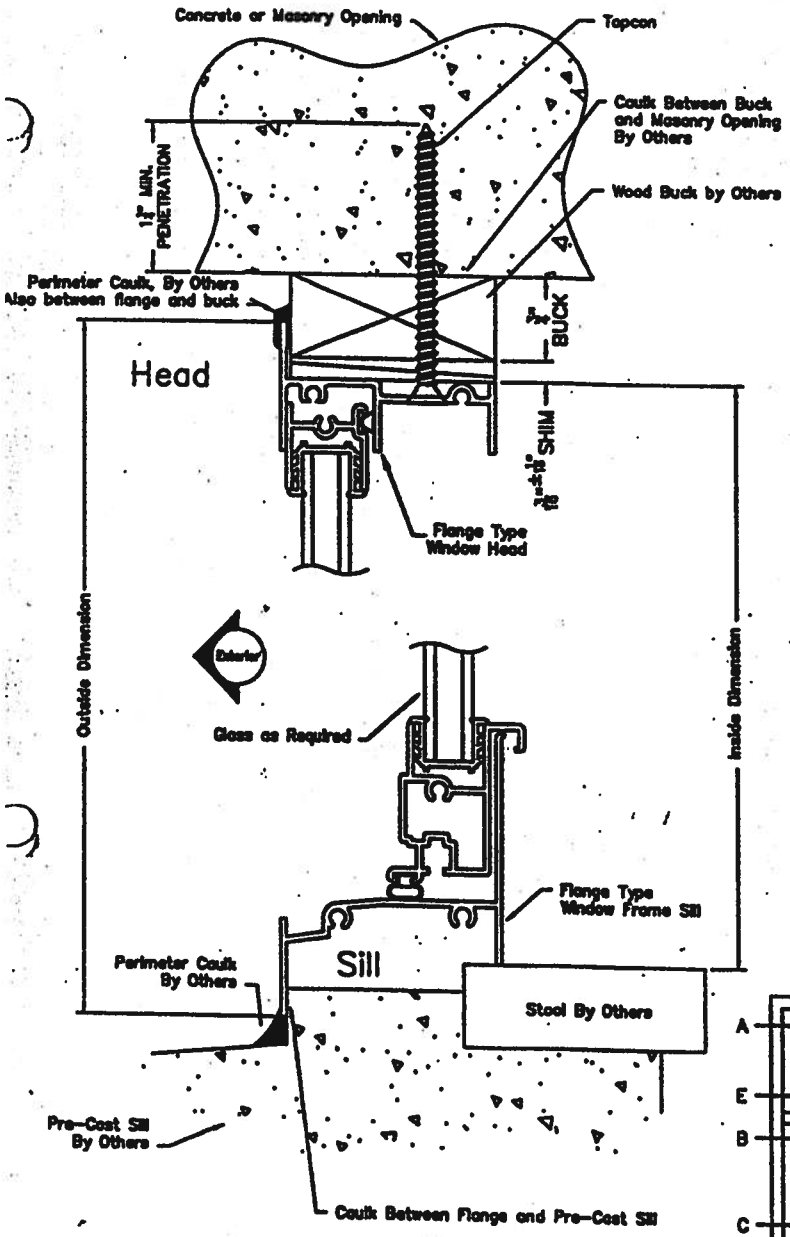
98-1012

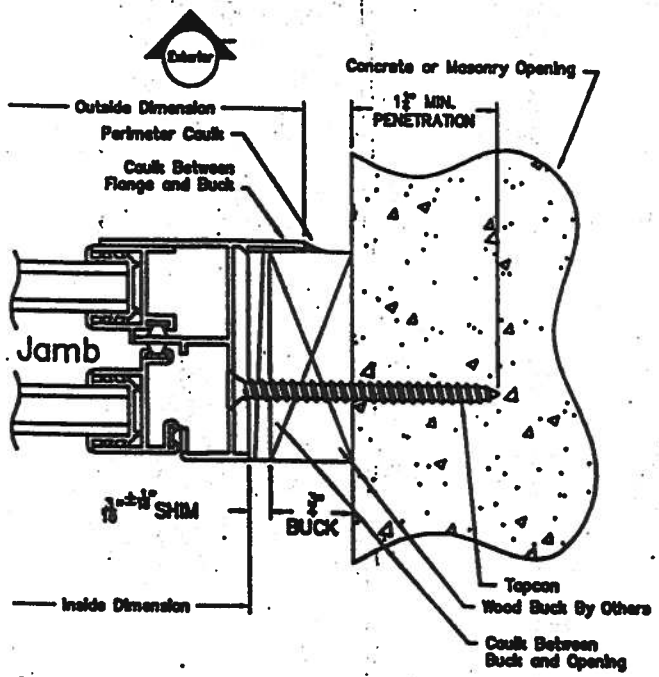
WDW. WTH. > MULL SPAN V	24.000	30.000	36.000	37.000	42.000	48.000	53.125
36.000	240.0	218.2	213.3	213.3	213.3	213.3	213.3
42.000	192.0	171.4	160.0	160.0	157.4	157.4	157.4
48.000	160.0	139.1	128.0	126.3	121.5	120.0	120.0
50.625	150.0	129.7	117.1	115.7	111.6	107.9	107.9
54.000	137.1	118.5	106.7	105.5	100.0	96.0	95.0
60.000	110.0	93.8	83.8	82.5	77.3	73.3	71.3
63.000	93.9	79.8	70.9	69.8	65.1	61.4	59.4
72.000	61.1	51.4	45.2	44.4	41.1	38.2	36.4

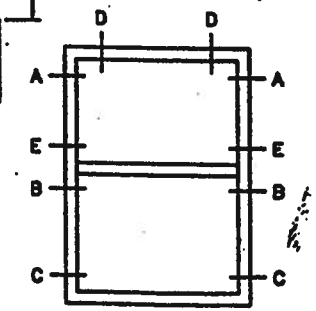
NOTES:

* CHART APPLIES ONLY TUBE MULLION #5766 WHEN USED TO VERTICAL MULL SERIES 542/05X PW AND / OR SERIES 700/704/740/744 SH WINDOWS
* READ WINDOW WIDTH AND MULL SPAN IN INCHES
* WINDOW WIDTH DIMENSIONS REPRESENT THE WIDTH OF EACH WINDOW IN A SINGLE OPENING, NOT THE OVERALL WIDTH OF THE OPENING.
* DESIGN PRESSURE VALUES ARE NOT LIMITED TO TWO WINDOWS IN A SINGLE OPENING, AND APPLY WHERE ANY NUMBER OF MULLIONS ARE EMPLOYED IN A SINGLE OPENING.
* DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
* Dmax = L/175
* MULLION MUST BE ANCHORED TO SUBSTRATE WITH CLIP NUMBER SECT5795 USING TWO #10 X 1-1/2 SCREWS IN WOOD OR TWO 3/16 IN DIA. X 1-1/2 RAWL TAPPERS OR APPROVED EQUAL IN MASONRY OR CONCRETE.

PREPARED BY:
PRODUCT & APPLICATION ENGINEERING, INC.
250 INTERNATIONAL PARKWAY
SUITE 250
HEATHROW, FLORIDA 32746
PHONE 407 805-0365 / FAX 407 805-0366







EXTERIOR ELEVATION

1. Shim as required at each installation anchor as shown, with load bearing shim.
2. Anchor must be of sufficient length to provide 1 1/4" min. embedment into masonry or concrete.
3. Caulk between window flange and buck.
4. Caulk full perimeter of window.
5. If exact window size is not given, use anchor quantity for next larger window in chart.
6. Glass thickness will vary with window size and design load, and must comly with ASTM E1300.
7. Letter designations on the tapcon location chart indicate where anchors are to be installed using the elevation as a key.
8. All factory applied holes not designated for tapcon* should be filled with #8 screws of sufficient lth. to provide 5/8" min. embedment into wood buck.

BetterBilt

TAPCON * LOCATION CHART			
CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS DP36 TO DP52	FASTENER LOCATIONS DP52.1 TO DP70.8
12	18 1/8 x 25	A, C	A, C
13	18 1/8 x 37 3/8	A, C	A, C
14	18 1/8 x 49 5/8	A, C	A, C
15	18 1/8 x 62	A, C	A, B, C
16	18 1/8 x 71 1/4	A, C	A, B, C
1/2 32	25 1/2 x 25	A, C	A, C
1/2 33	25 1/2 x 37 3/8	A, C	A, C
1/2 34	25 1/2 x 49 5/8	A, C	A, B, C
1/2 35	25 1/2 x 62	A, B, C	A, B, C
1/2 36	25 1/2 x 71 1/4	A, B, C	A, B, C
22	36 x 25	A, C	A, C
23	36 x 37 3/8	A, C	A, B, C
24	36 x 49 5/8	A, B, C	A, B, C
245	36 x 55 1/4	A, B, C	A, B, C
25	36 x 62	A, B, C	A, B, C
26	36 x 71 1/4	A, B, C	A, B, C, D
32	52 1/8 x 25	A, C	A, C
33	52 1/8 x 37 3/8	A, C	A, B, C
34	52 1/8 x 49 5/8	A, B, C	A, B, C
345	52 1/8 x 55 1/4	A, B, C	A, B, C, D
35	52 1/8 x 62	A, B, C	A, B, C, D
36	52 1/8 x 71 1/4	A, B, C, D	A, B, C, D, E

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

Design Pressure values listed above are in PSF

CENTRAL FLORIDA B.O.A.F.

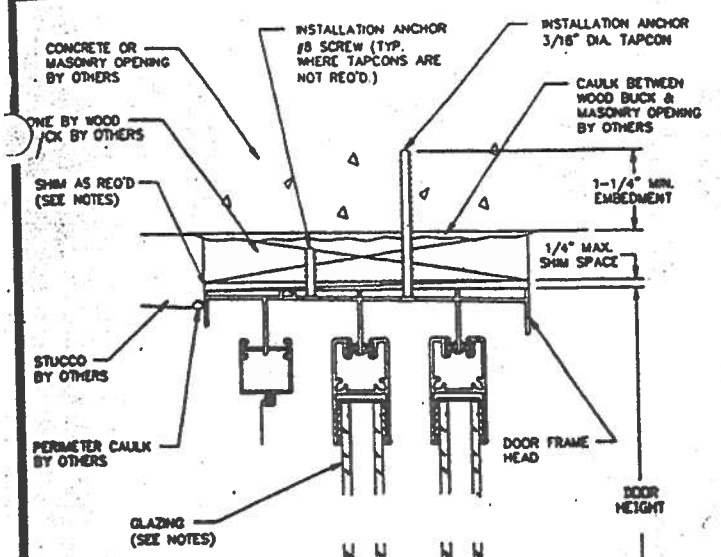
MANUFACTURER NAME: BETTER BILT/M.I HOMES

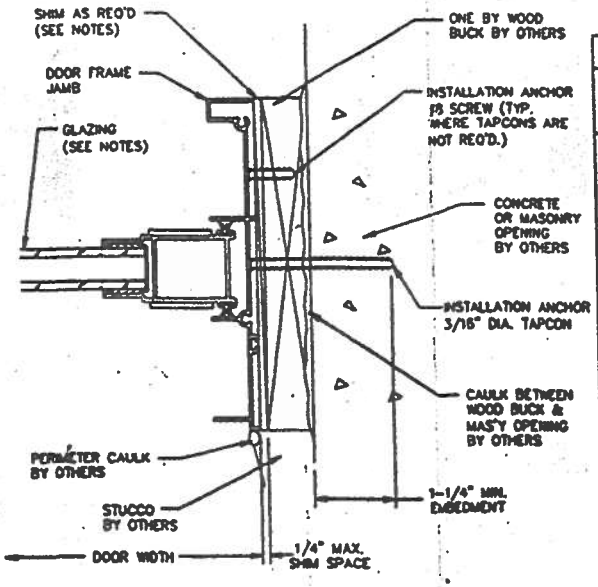
MASTER FILE # 3

TITLE: INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE

PRODUCT: 740/744 SINGLE HUNG

DRAWN BY	DATE
S.W.	1/15/02
CHECKED	DATE
SCALE	SHEET
NONE	1 OF 1
DWG. NO.	REV.
INST740	-





SECTION B-B

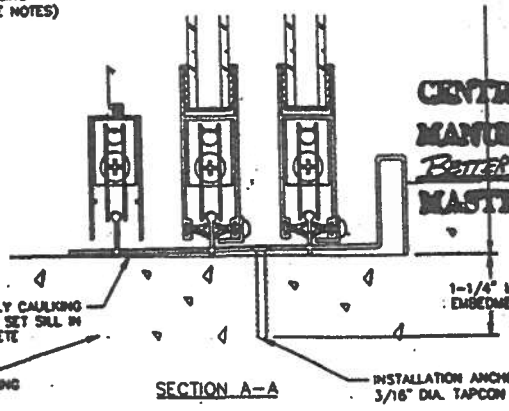
TAPCON INSTALLATION CHART

CALL SIZE	DOOR SIZE	LOCATION IN HEAD & SILL EA. JAMB				QT'Y. IN HOOK STRIP		
		UP TO 45 PSF DP	46 PSF TO 60 PSF DP	61 PSF TO 70 PSF DP	UP TO 70 PSF DP	UP TO 45 PSF DP	46 PSF TO 60 PSF DP	61 PSF TO 70 PSF DP
5068 XO, OX, XX	60 X 80	3	3	3	4	3	4	4
6068 XO, OX, XX	72 X 80	4	4	4	4	3	4	5
8068 XO, OX, XX	96 X 80	5	5	5	4	3	4	5
10068 XO, OX, XX	120 X 80	6	6	7	4	3	4	5
5080 XO, OX, XX	60 X 96	3	3	3	5	4	5	6
6080 XO, OX, XX	72 X 96	3	3	3	5	4	5	6
8080 XO, OX, XX	96 X 96	4	4	5	5	4	6	6
10080 XO, OX, XX	120 X 96	6	6	7	5	4	6	6
7668 OXO	91-3/4 X 80	5	5	5	4	3	4	5
9068 OXO	109-3/4 X 80	5	5	6	4	3	4	5
12068 OXO	145-3/4 X 80	7	7	9	4	3	4	5
15068 OXO	181-3/4 X 80	8	10	11	4	3	4	5
7680 OXO	91-3/4 X 96	5	5	5	5	4	6	6
9080 OXO	109-3/4 X 96	5	5	6	5	4	6	6
12080 OXO	145-3/4 X 96	7	8	9	5	4	6	6
15080 OXO	181-3/4 X 96	8	11	13	5	4	6	6
7668 XXX	88-9/16 X 80	5	5	5	4	3	4	5
9068 XXX	106-9/16 X 80	5	5	6	4	3	4	5
12068 XXX	142-9/16 X 80	7	7	8	4	3	4	5
15068 XXX	178-9/16 X 80	8	10	11	4	3	4	5
7680 XXX	88-9/16 X 96	5	5	5	5	4	6	6
9080 XXX	106-9/16 X 96	5	5	6	5	4	6	6
12080 XXX	142-9/16 X 96	7	8	9	5	4	6	6
15080 XXX	178-9/16 X 96	8	11	13	5	4	6	6
10068 OXXO, XXXX	120-5/8 X 80	6	6	7	4	3	4	5
12068 OXXO, XXXX	144-5/8 X 80	7	7	8	4	3	4	5
15068 OXXO, XXXX	192-5/8 X 80	9	10	12	4	3	4	5
10080 OXXO, XXXX	120-5/8 X 96	6	6	7	5	4	6	6
12080 OXXO, XXXX	144-5/8 X 96	7	8	9	5	4	6	6
15080 OXXO, XXXX	192-5/8 X 96	9	12	14	5	4	6	6

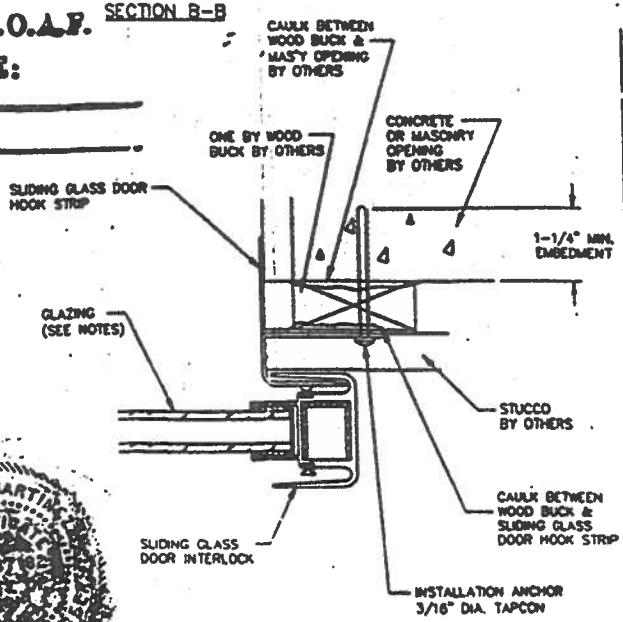
CENTRAL FLORIDA B.O.A.F.

MANUFACTURER NAME: Better Bilt / MI Homes

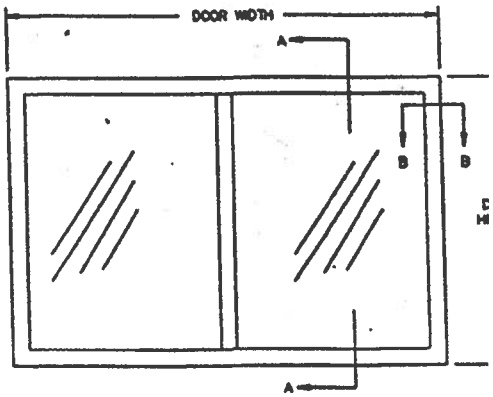
MASTER FILE # 1



SECTION A-A



HOOK STRIP DETAIL



EXTERIOR ELEVATION

NOTES:
1) DOOR MATERIAL: ALUMINUM ALLOY 6063.
2) TAPCON TYPE INSTALLATION ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE MIN. EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE.
3) ALTERNATE TAPCON INSTALLATION ANCHORS FRONT TO BACK IN ALL FRAME MEMBERS.
4) USE LATEX CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF DOOR.
5) IF EXACT DOOR SIZE IS NOT LISTED IN ANCHOR CHART, USE ANCHOR QUANTITY LISTED WITH NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D
6) FOR POCKET DOOR SIZES USE CLOSEST BYPASS DOOR SIZE & CONFIGURATION TO FINISHED OPENING.
7) INSULATED GLASS SHOWN, SINGLE GLAZING ALSO APPROVED. TEMPERED GLASS THICKNESS MAY VARY PER REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
8) ALL FACTORY APPLIED HOLES NOT DESIGNED FOR TAPCON ANCHOR SHOULD BE FILLED WITH #8 SCREWS OF SUFFICIENT LENGTH TO PROVIDE MIN. 5/8" EMBEDMENT INTO WOOD BUCK.
9) JAMB / SILL CORNERS ARE TO BE SEALED WITH A SMALL JOINT SEAM SEALER.
10) SHIM AS REQ'D. AT EA. SET OF INSTALLATION ANCHORS. MAX ALLOWABLE SHIM STACK TO BE 1/4"
11) ALL INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS.
12) WHERE "X" REPRESENTS MOVING PANEL AND "O" REPRESENTS FIXED PANEL APPROVED CONFIGURATIONS ARE AS LISTED ON INSTALLATION CHART.
13) NOT ALL CONFIGURATIONS LISTED ABOVE ARE SHOWN ON THIS DRAWING, HOWEVER INSTALLATION SECTIONS "A-A", "B-B" & HOOK STRIP DETAIL APPLY TO INSTALLATION OF ALL APPROVED CONFIGURATIONS.
14) MAX ALLOWABLE SPACING BETWEEN TAPCON ANCHORS TO BE 24" O.C.
15) SERIES 420 SLIDING GLASS DOOR IS SHOWN THIS PRINT ALSO APPLIES TO 430 & 440 SERIES.
16) WHERE DOOR IS INSTALLED IN WOOD FRAME STRUCTURE, USE #10 SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO SUBSTRATE. PLACE #10 SCREWS 6" FROM CORNERS & 24" O.C. MAX.

MI HOME PRODUCTS
GRATZ, PA.

TITLE: SERIES 420/430/440 SLIDING GLASS DOOR INSTALLATION WITH TAPCONS

ENGINEER: MANUAL MARTINEZ	DRWN: BB	DATE: 12/1	
DISCIPLINE: CIVIL	SCALE: N.T.S.	DWG. NO: MIH	
FL REG NO: 47182	REV. LETTER:	SHEET: 1 OF	

PREPARED BY: PRODUCT & APPLICATION ENGINEERING, INC. 250 INTERNATIONAL BLVD., SUITE 298, HEATHROW, FLORIDA 32746 PHONE 407 805-0363 FAX 40

Page: [ ]

App/Seq #	Product Model # or Name	Model Description	Limits of Use
663.21	740/3740	Flange Frame Oriel 36x88 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.22	740/3740	Flange Frame Oriel 52x71 R-35 DP35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.23	740/3740	Fin Frame Oriel 52x71 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.24	740/3740	Flange Frame 52x71 R-45 DP+45/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com

Page: 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
663.1	165	Flange Frame 53x73 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.2	165	Fin Frame Oriel 47x89 R-30 DP+33.4/-42.7	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.3	165	Fin Frame Oriel 40x90 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.4	165/3000	Flange Frame Oriel 47x89 R-25 DP+25.9/-34.7	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.5	165/3000	Flange Frame Oriel 36x88 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.6	165/3000	Flange Frame in Beveled Buck 53x72 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.7	165/3000	Triple with Continuous Head and Sill 106x72 R-20 DP+24.2/-31.4	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.8	165/3000	Fin Frame 52x72 R-35 DP+35.3/-43.1	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.9	3240/4250HP	Fin Frame 48x78 R-40 DP+47/-47	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.10	3240/4250HP	Flange Frame 53x83 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.11	740/3740	Triple with Continuous Head and Sill 106x71 R-30 DP+31.5/-39.7	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.12	740/3740	Fin Frame 52x71 R-45 DP+45/-45	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.13	740/3740	Fin Frame 52x72 R-45	Per manufacturer's installation instructions. More information available

		DP+45/-45	at: www.mihp.com
663.14	740/3740	Flange Frame 53x73 R-45 DP+45/-45	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.15	740/3740	Flange Frame 52x71 R-45 DP+45/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.16	740/3740	Fin Frame 52x71 R-45 DP+45/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.17	740/3740	Fin Frame 47x89 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.18	740/3740	Fin Frame 39x90 R-35 DP+35.3/-47.2	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.19	740/3740	Flange Frame 47x89 R-35 DP+35.3/-42.7	Per manufacturer's installation instructions. More information available at: www.mihp.com
663.20	740/3740	Flange Frame Oriel 47x89 R-35 DP+35.3/-42.7	Per manufacturer's installation instructions. More information available at: www.mihp.com

CAMPBELL'S PEST CONTROL, INC.

Post Office Box 1619 Newberry, Florida 32669 (352) 332-0048 • (352) 472-5455

NOTICE OF PREVENTIVE TREATMENT FOR TERMITES

As required by Florida Building Code (FBC) 104.2.6

Date 4/11/06 Job # _____ Permit # 00024349 Retreat Date _____

Owner 211 SW Hellin Ave Sq. Ft. 360 Linear Ft. 76

Address of house to be treated H. White 32038 Applicator: Steve

owner Gene Mathis

Builder's Name HHS Buildas Lot # _____ Subdivision _____

STAGE OF TREATMENT

Chemical used: Dimon TC Percent Concentration: 1.25% Gallons of water applied: 360

	Main Body	Porches	Garages	Patios	Brick Veneer	AC Pad	Driveways	Walks	Out Building	Other Addition	Final
Date										4/11/06	
Time										9:30 A	
Initials										SM	

Remarks: Mendells

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

If this notice is for final exterior treatment, initial and date this line: _____

Installation Instructions Pre-Hung Door Systems In High Wind Velocity Areas

These instructions apply to all Therma-Tru wood-framed door systems. Some apply specifically to:

Inswing Doors 

Outswing Doors 

Doors with sidelights 

Double Doors 

Patio Doors 

Read all instructions before starting.

THERMA-TRU® DOORS

The Most Preferred Brand in the Business℠

P.O. Box 8780 Maumee, Ohio 43537

Printed 3/02

Questions? Comments? Call 1-800-THERMATRU (1-800-843-7628)

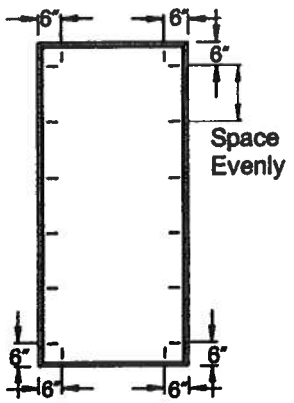
Part No. MSDRISTH

THERMA-TRU

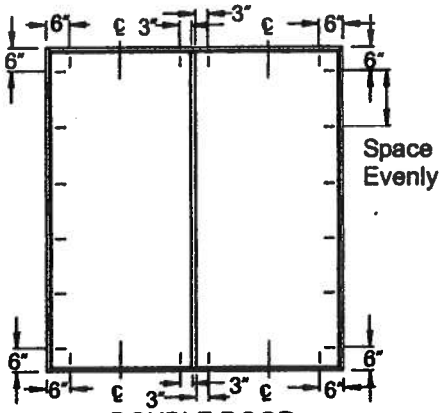
Product Approval L

Product Description

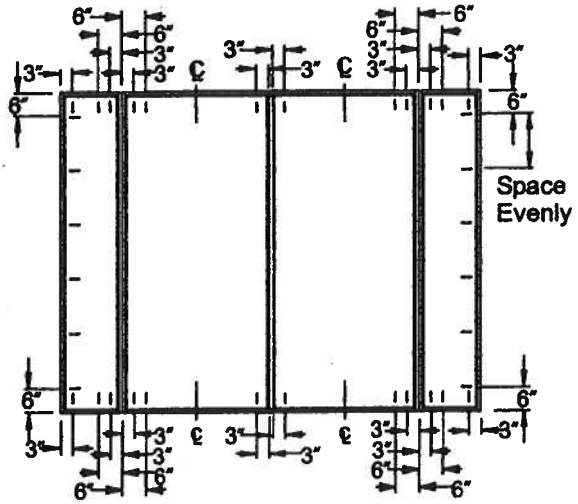
Premium Series 6'8 Opaque Steel Door w & wo sidelites (OS)
Premium Series 6'8 Inswing Opaque Insulated Steel Door w & wo sidelites
8/4 x 6/8 Outswing Construction Series Steel Doors - Impact Resistant
8/4 x 6/8 Inswing Construction Series Steel Doors - Impact Resistant
Fiber-Classic & Smooth- Star Inswing Residential Ins. Fiberglass Door
Fiber-Classic & Smooth-Star Outswing Residential Ins. Fiberglass Door
Fiber-Classic Outswing Opaque Fiberglass Door
8/4 x 6/8 Outswing Fiber-Classic/Smooth-Star Fiberglass Door
8/4 x 6/8 Outswing Classic-Craft Fiberglass Door
8/4 x 6/8 Inswing Classic-Craft Fiberglass Door
8/4 x 6/8 Inswing Fiber-Classic/Smooth-Star Fiberglass Door
8/4 x 8/0 Outswing Classic-Craft Glazed Fiberglass Door
8/4 x 8/0 Inswing Classic-Craft Glazed Fiberglass Door
8/4 x 6/8 Outswing Classic-Craft Glazed Fiberglass Door
8/4 x 6/8 Inswing Classic-Craft Glazed Fiberglass Door
"Fiber Classic"/"Smooth Star" 8'0 Outswing Opaque Fiberglass Door w/Sidelites
8/4 x 8/0 Inswing Fiber-Classic/Smooth-Star Fiberglass Door
"Classic Craft" 8'0 Outswing Opaque Fiberglass Door w & w/o Sidelites
8/4 x 8/0 Inswing Classic-Craft Fiberglass Door
Premium & Construction Series Outswing Glazed Residential Ins. Steel Doors - Double Doors
Premium Series Outwing Steel Door with Steel Frame
Premium Series Inwing Steel Door with Steel Frame
Outswing Glazed Residential Insulated Steel Door w/Sidelites
Outswing Insulated Residential Steel Door - Large Missile Impact Resistant & Non-Impact Resistant Sidelites
Inswing W/E Glazed Insulated Steel Door w/Sidelites
Series "Construction & Premium" Flush Outswing Insulated Steel Double Door
Construction Series Flush Outswing Residential Insulated Steel Door - Impact



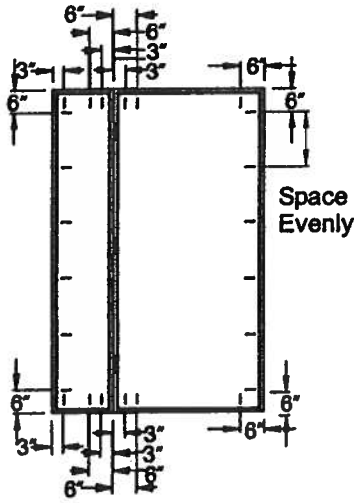
SINGLE DOOR



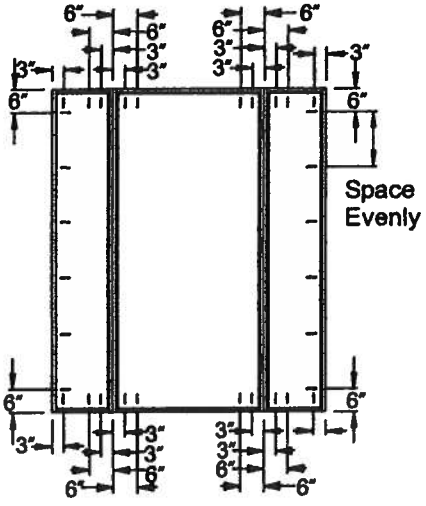
DOUBLE DOOR



DOUBLE DOOR W/SIDELITES



SINGLE DOOR W/SIDELITE



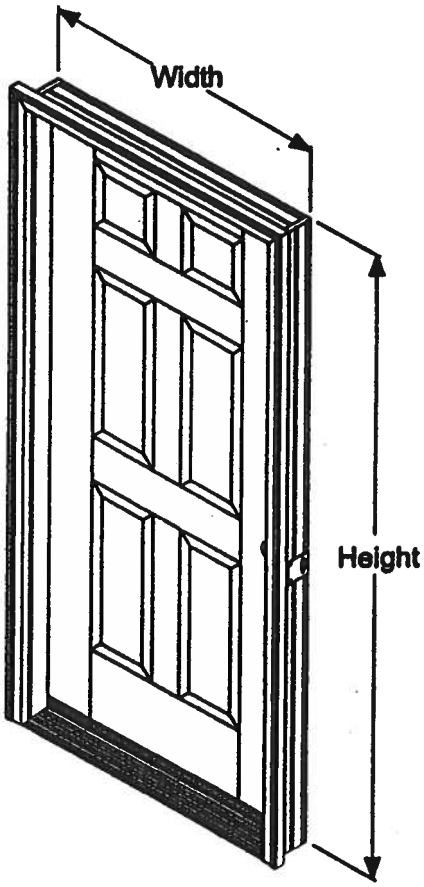
SINGLE DOOR W/SIDELITES

1 CHECK DOOR UNIT.

Check width and height.

Measure size of frame (width and height), not brickmold.

Remove cleats and packaging, but keep door fastened closed with transport clip. Do not remove clip or open door until instructed to do so.



2 CHECK AND PREPARE OPENING.

Is subfloor level and solid? *Provide a flat, level, clean bearing surface so the sill may be caulked and sealed to the opening. Scrape, sand, or fill as required.*

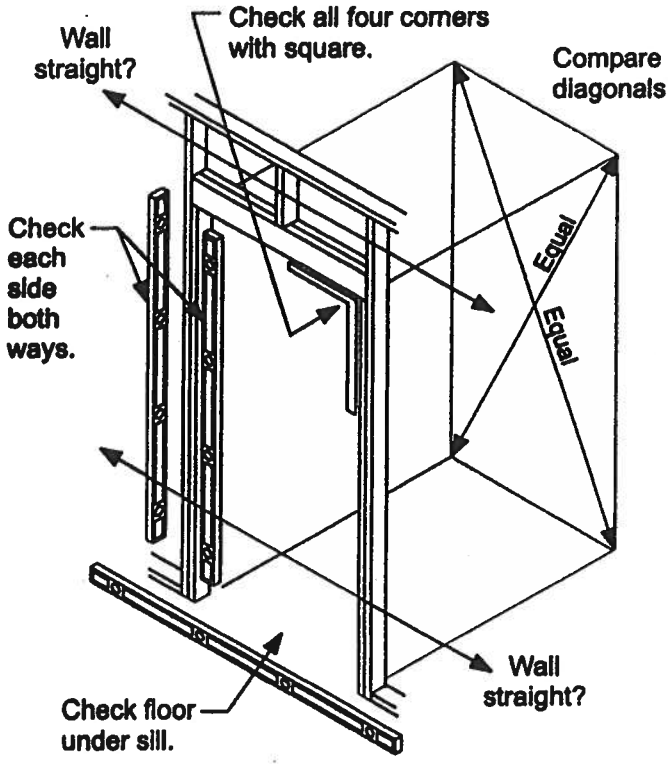
Shim subfloor for floor covering clearance, if required. *If shimming, caulk under shims.*

Is opening square? Check all corners with a framing square. Double-check by comparing diagonal measurements. *Fix any problems now.*

Are framing and walls plumb? Use a 6-foot level and check both sides of opening, both ways. *Fix any problems now.*

Are the wall surfaces around the opening in the same plane? There must be no "warps" or "jogs". *Fix any problems now.*

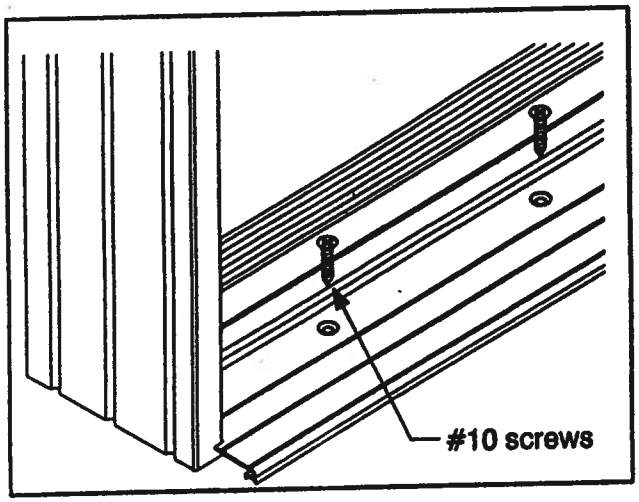
Is the opening the correct size? Check it against the door frame size now, before installation. Opening should be frame height plus **1/4"**, and frame width plus **1/2"**. Remember to use only 1/4" shims.



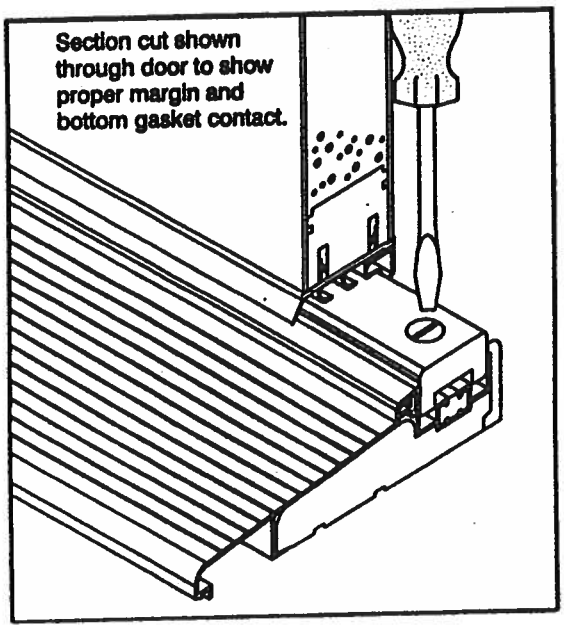
8 ANCHOR SILL, ADJUST SILL.

For sills prepared for anchor screws, place #10 screws through sill into subfloor. If not prepared, pre-drill 1/8" holes 6" from each end and at the center of each door. Countersink as needed.

If a sidelite is used, drill an additional pilot hole 3" from end where the door and sidelight meet.



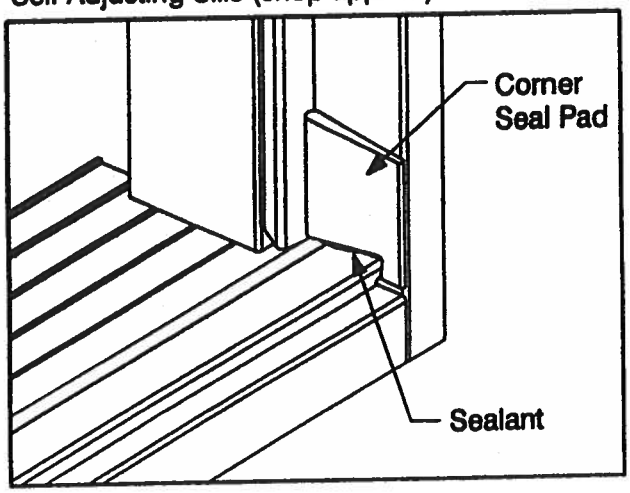
For sill with screw-adjustable thresholds, follow directions on sill to adjust threshold to meet door bottom gasket.



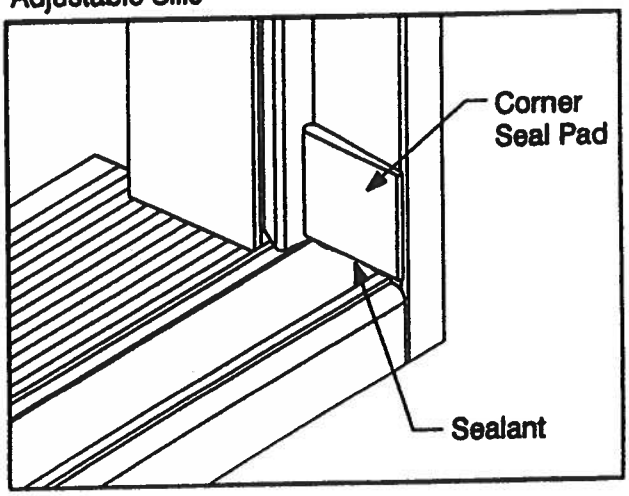
9 CHECK OR INSTALL CORNER SEAL PADS. (SWING-IN DOORS ONLY)

Corner seal pads are an important part of a swing-in door's weatherproofing integrity. Check to see that they are installed properly, in place and with sealant under the pad at the jamb and sill joint.

Self-Adjusting Sills (shop applied)



Adjustable Sills



For sills with adjustable thresholds, pads are sent in a poly bag with unit, not installed. They are installed after final threshold adjustment. Follow directions with pads to install.

PROCEED TO STEP 10.

4 PLACE UNIT IN OPENING AND TEMPORARILY FASTEN HINGE JAMB. DO NOT FASTEN THROUGH BRICKMOULD.

If the jamb and head does not come with pilot holes, drill 1/8" pilot holes before using screws.

For single or double doors, note hinge locations and mark jamb faces near door surface, for fastener placement later.

Lift unit up. With top edge tilted away from opening, center unit and place sill down onto caulk beads. Tilt into place.

Work from the side of the door that is weather-stripped. (*outside* for inswing doors, *inside* for outswing doors)

Plumb hinge side jamb both ways. Use a 6-foot level.

Use shims totaling a maximum of 1/4" thickness, not the usual 1/2".

Use 2-1/2" wood screws. Do NOT substitute nails, deck screws, or drywall screws. Place six #8 wood screws through jambs into "two-by" studs, at each location where shown in diagrams. For single or double doors, refer to marks on jambs and place fasteners *below* each hinge location, so that shims may be placed behind hinges. Fasteners will keep shims from falling down while adjustments are made.

Do not drive screws completely in at this time.

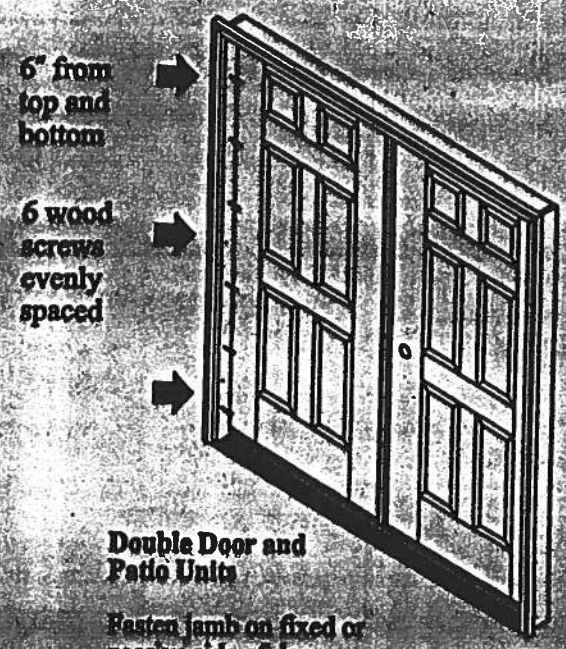
Single Units

Fasten hinge jamb.

All screws used outside should be coated or galvanized to prevent rusting and staining.

Sidelights Units

Fasten sidelight jamb on hinge side of door.



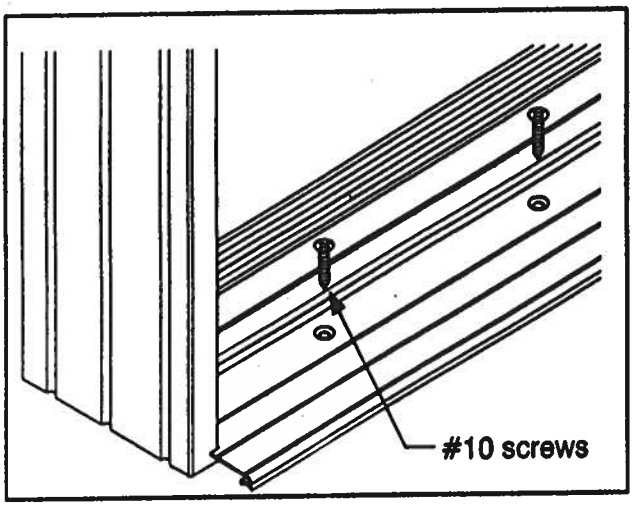
Double Door and Patio Units

Fasten jamb on fixed or passive side of door.

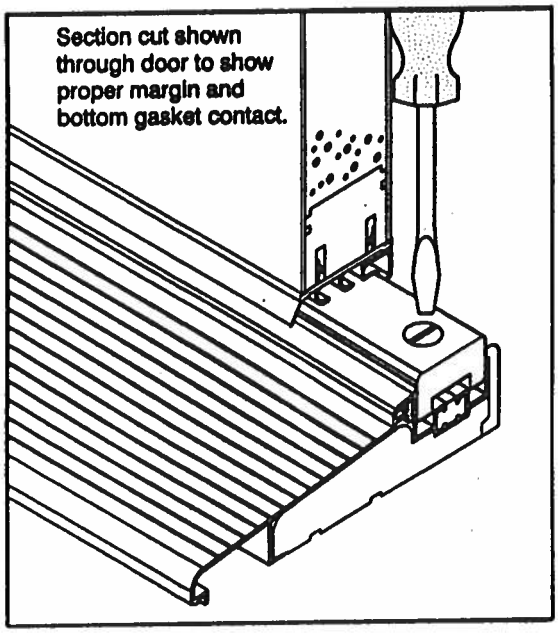
8 ANCHOR SILL, ADJUST SILL.

For sills prepared for anchor screws, place #10 screws through sill into subfloor. If not prepared, pre-drill 1/8" holes 6" from each end and at the center of each door. Countersink as needed.

If a sidelite is used, drill an additional pilot hole 3" from end where the door and sidelight meet.



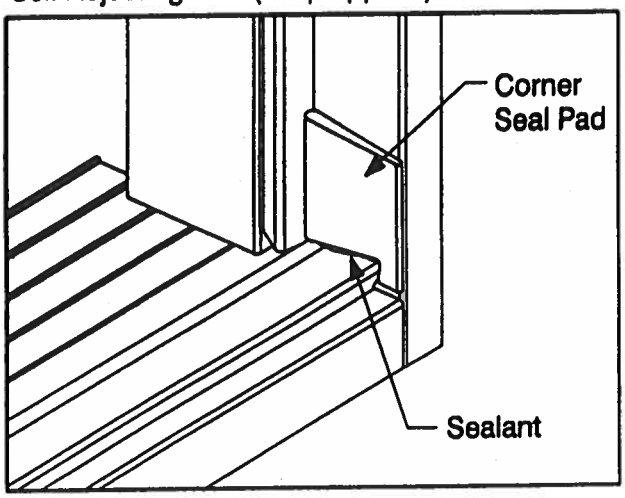
For sill with screw-adjustable thresholds, follow directions on sill to adjust threshold to meet door bottom gasket.



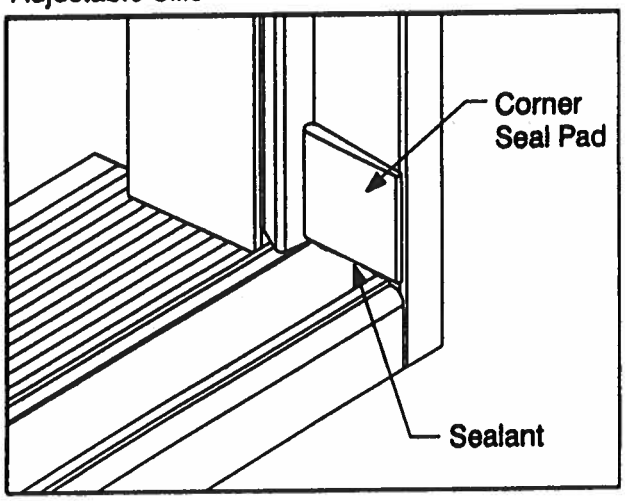
9 CHECK OR INSTALL CORNER SEAL PADS. (SWING-IN DOORS ONLY)

Corner seal pads are an important part of a swing-in door's weatherproofing integrity. Check to see that they are installed properly, in place and with sealant under the pad at the jamb and sill joint.

Self-Adjusting Sills (shop applied)



Adjustable Sills



For sills with adjustable thresholds, pads are sent in a poly bag with unit, not installed. They are installed after final threshold adjustment. Follow directions with pads to install.

PROCEED TO STEP 10.

Project Summary
Entire House
HOGLE'S HEATING & AIR

Job: MR &MRS.GENE MATHIS
Date: 01/25/06
By: W.D.HOGLE

Project Information

For: HAS BUILDERS INC.

Notes: ADDITION TO HOME @ 211 SW HEFIJN AVE
FORT WHITE,FL.32038

Design Information

Weather: Gainesville, FL , US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	52	gr/lb

Heating Summary

Building heat loss	9019	Btuh
Ventilation air	24	cfm
Ventilation air loss	955	Btuh
Design heat load	9975	Btuh

Sensible Cooling Equipment Load Sizing

Structure	6627	Btuh
Ventilation	439	Btuh
Design temperature swing	3.0	°F
Use mfg. data	n	
Rate/swing multiplier	0.97	
Total sens. equip. load	6854	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	360	360
Volume (ft³)	2880	2880
Air changes/hour	1.05	0.55
Equiv. AVF (cfm)	50	26

Latent Cooling Equipment Load Sizing

Internal gains	0	Btuh
Ventilation	830	Btuh
Infiltration	928	Btuh
Total latent equip. load	2475	Btuh
Total equipment load	9329	Btuh
Req. total capacity at 0.70 SHR	0.8	ton

Heating Equipment Summary

Make
Trade

Efficiency	0	HSPF
Heating input		
Heating output	0	Btuh @ 47°F
Heating temp rise	0	°F
Actual heating fan	319	cfm
Heating air flow factor	0.035	cfm/Btuh

Space thermostat

Cooling Equipment Summary

Make
Trade

Efficiency	0	EER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual cooling fan	319	cfm
Cooling air flow factor	0.048	cfm/Btuh
Load sensible heat ratio	74	%

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Short Form
Entire House
HOGLE'S HEATING & AIR

Job: MR &MRS.GENE MATHIS
Date: 01/25/06
By: W.D.HOGLE

Project Information

For: HAS BUILDERS INC.

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration	
Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make
Trade

Efficiency	0 HSPF	
Heating input		
Heating output	0	Btuh @ 47°F
Heating temperature rise	0	°F
Actual heating fan	319	cfm
Heating air flow factor	0.035	cfm/Btuh

Space thermostat

COOLING EQUIPMENT

Make
Trade

Efficiency	0 EER	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual cooling fan	319	cfm
Cooling air flow factor	0.048	cfm/Btuh
Load sensible heat ratio	74	%

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
ADDITION	360	9019	6627	319	319
Entire House d	360	9019	6627	319	319
Ventilation air		955	439		
Equip. @ 0.97 RSM			6854		
Latent cooling			2475		
TOTALS	360	9975	9329	319	319

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 30-7S-17-10058-948 **Building permit No.** 000024349

Use Classification SFD ADDITION **Fire:** 0.00

Permit Holder ROBERT BETTERTON,HAS BLDRS **Waste:**

Owner of Building GENE MATHIS **Total:** 0.00

Location: 211 SW HEFLIN AVE(SANTA FE RIVER PLANT., LOT 48)

Date: 06/21/2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Climate Zones 1, 2, 3

TABLE 6C-1: PRESCRIPTIVE REQUIREMENTS FOR SMALL ADDITIONS (600 Sq. Ft. and Less), RENOVATIONS TO EXISTING BUILDINGS AND SITE-INSTALLED COMPONENTS OF MANUFACTURED HOMES

	COMPONENT	MINIMUM INSULATION	INSULATION INSTALLED
WALLS	Concrete Block	R-7	
	Frame, 2' x 4'	R-11	
	Frame, 2' x 6'	R-19	
	Common, Frame	R-11	
	Common, Masonry	R-3	
CEILINGS	Under Attic	R-30	
	Single Assembly; Enclosed		
	Frame	R-19	
	Metal Pans	R-13	
	Single Assembly; Open	R-10	
	Common, Frame	R-11	
FLOORS	Slab-on-grade	No Minimum	
	Raised Wood	R-19	
	Raised Concrete	R-7	
	Common, Frame	R-11	
DUCT	In unconditioned space	R-6	
	In conditioned space	No minimum	

	EQUIPMENT	MINIMUM EFFICIENCY	INSTALLED EFFICIENCY
COOLING	Central A/C - Split	SEER = 10.0	SEER =
	- Single Pkg.	SEER = 9.7	SEER =
	Room unit or PTAC	EER = 8.5*	EER =
SPACE HEATING	Electric Resistance	ANY	
	Heat pump - Split	HSPF = 6.8	HSPF =
	- Single Pkg.	HSPF = 6.6	HSPF =
	Room unit or PTHP	COP = 2.7*	HSPF/ COP =
	Gas, natural or propane	AFUE = .78	
	Fuel Oil	AFUE = .78	AFUE =
			AFUE =
HOT WATER	Electric Resistance	EF = .92	EF =
	Gas; natural or LP	EF = .59	EF =
	Fuel Oil	EF = .54	EF =

* See Table 13-607.1.ABC.3.2 and 13-608.1.ABC.3.2

TABLE 6C-2: PRESCRIPTIVE REQUIREMENTS FOR GLASS AREAS IN ADDITIONS ONLY

Maximum percentage glass to floor area allowed is selected by type, overhang length, and solar heat gain coefficient. Maximum % = 40 Installed % = 32

GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED

UP TO 20%		UP TO 30%		UP TO 40%		UP TO 50%	
Single	Double	Single	Double	Single	Double	Single	Double
OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC
1' - .87 0' - .75	0' - .78	2' - .87 1' - .75 0' - .57	1' - .78 0' - .61	NOT ALLOWED	2' - .78 1' - .61 0' - .44	NOT ALLOWED	3' - .78 2' - .61 1' - .44 0' - .35

Get certified SHGC from the manufacturer or use defaults: Single clear SHGC = .75, double clear SHGC = .66, and single tint SHGC = .64

TABLE 6C-3 MINIMUM REQUIREMENTS FOR ALL PACKAGES

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Exterior Joints & Cracks	606.1	To be caulked, gasketed, weather-stripped or otherwise sealed.	
Exterior Windows & Doors	606.1	Max. 0.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Sole & Top Plates	606.1	Sole plates and penetrations through top plates of exterior walls must be sealed.	
Recessed Lighting	606.1	Type IC rated with no penetrations (two alternatives allowed).	
Multistory Houses	606.1	Air barrier on perimeter of floor cavity between floors.	
Exhaust Fans	606.1	Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork.	
Combustion Heating	606.1	Combustion space and water heating systems must be provided with outside combustion air, except for direct vent appliances.	
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker electric or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have minimum thermal efficiency of 78%.	
Hot Water Pipes	612.1	Insulation is required for hot water circulating systems (including heat recovery units).	
Shower Heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 psig.	
HVAC Duct Construction, Insulation & Installation	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 610.1. Ducts in attics must be insulated to a minimum of R-6.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	

GENERAL DIRECTIONS:

1. On Table 6C-1 indicate the R-value of the insulation being added to each component and the efficiency levels of the equipment being installed. All R-values and efficiencies installed must meet or exceed the minimum values listed. Components and equipment neither being added nor renovated may be left blank.
2. ADDITIONS ONLY. Determine the percentage of new glass to conditioned floor area in the addition as follows. Total the areas of all glass windows, sliding glass doors and glass door panels. Double the area of all nonvertical roof glass and add it to the previous total. When glass in existing exterior walls is being removed or enclosed by the addition, an amount equal to the total area of this glass may be subtracted from the total glass area. Divide the adjusted glass area total by the conditioned floor area of the addition. Multiply by 100 to get the percent. Find the largest glass percentage under which your calculated percentage falls on Table 6C-2. Prescriptives are given by the type of glass (single or double pane) and the overhang (OH) paired with a solar heat gain coefficient (SHGC). For a given glass type and overhang, the minimum solar heat gain coefficient allowed is specified. Actual glass windows and doors previously in the exterior walls of the house and being reinstalled in the addition do not have to comply with the overhang and solar heat gain coefficient requirements on Table 6C-2. All new glass in the addition must meet the requirement for one of the options in the glass percentage category you indicated. The overhang (OH) distance is measured perpendicularly from the face of the glass to a point directly under the outermost edge of the overhang.
3. RENOVATIONS ONLY. Replacement glass needs to meet the following requirements. Any glass type and solar heat gain coefficient may be used for glass areas which are under at least a 2-foot overhang and whose lowest edge does not extend further than 8 feet from the overhang. Glass areas being renovated that do not meet this criteria must be either single-pane tinted, double-pane clear or double-pane tinted.
4. BUILDING SYSTEMS. Comply when new system is installed for system installed.
5. Complete the information requested on the top half of page 1.
6. Read "Minimum Requirements for Small Additions and Renovations," Table 6C-3, and check all applicable items.
7. Read, sign and date the "Owner/Agent" certification statement on page 1.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 600C-04 — **Residential Limited Applications Prescriptive Method C** — **NORTH 1 2 3**

Small Additions, Renovations & Building Systems

Compliance with Method C of Sub-Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600C-04 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single- and multiple-family residences. Alternative methods are provided for additions by use of Form 600B-04 or 600A-04.

PROJECT NAME AND ADDRESS:	Mathis Res. 211 300 Heflin Ave Ft. White FL. 32038	**BUILDER:** AAS Builders	
		PERMITTING OFFICE:	**CLIMATE ZONE:** 1 ☒ 2 ☐ 3 ☑
OWNER:		**PERMIT NO.:** 2439	**JURISDICTION NO.:** 221008

SMALL ADDITIONS TO EXISTING RESIDENCES (600 square feet or less of conditioned area). Prescriptive requirements in Tables 6C-1, 6C-2, and 6C-3 apply only to the components of the addition, not to the existing building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components separating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. RENOVATIONS (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 6C-1 and 6C-2 apply only to the components and equipment being renovated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covered by this form. BUILDING SYSTEMS. Comply when complete new system is installed.

	Please Print	CK
1. **Renovation, Addition, New System or Manufactured Home**	1. Addition	
2. **Single-family detached or Multiple-family attached**	2. S.F.D	
3. **If Multiple-family–No. of units covered by this submission**	3. —	
4. **Conditioned floor area (sq. ft.)**	4. 360 ft²	
5. **Predominant eave overhang (ft.)**	5. 2	
6. **Glass type and area:**	Single Pane / Double Pane	
a. Clear glass	6a. ____ sq. ft. 114 sq. ft.	
b. Tint, film or solar screen	6b. ____ sq. ft. ____ sq. ft.	
7. **Percentage of glass to floor area**	7. 32 %	
8. **Floor type and insulation:**		
a. Slab-on-grade (R-value)	8a R = 0 58 lin. ft.	
b. Wood, raised (R-value)	8b. R = ____ ____ sq. ft.	
c. Wood, common (R-value)	8c. R = ____ ____ sq. ft.	
d. Concrete, raised (R-value)	8d. R = ____ ____ sq. ft.	
e. Concrete, common (R-value)	8e. R = ____ ____ sq. ft.	
9. **Wall type and insulation:**		
a. Exterior: 1. Masonry (Insulation R-value)	9a-1 R = ____ ____ sq. ft.	
2. Wood frame (Insulation R-value)	9a-2 R = 19 464 sq. ft.	
b. Adjacent: 1. Masonry (Insulation R-value)	9b-1 R = ____ ____ sq. ft.	
2. Wood frame (Insulation R-value)	9b-2 R = N/A sq. ft.	
c. Marriage Walls of Multiple Units* (Yes/No)	9c N/A	
10. **Ceiling type and insulation:**		
a. Under attic (Insulation R-value)	10a. R = 30 360 sq. ft.	
b. Single assembly (Insulation R-value)	10b. R = ____ ____ sq. ft.	
11. **Cooling system*** (Types: central, room unit, package terminal A.C., gas, existing, none)	11. Type: Existing SEER/EER: ____	
12. **Heating system*** (Types: heat pump, elec. strip, natural gas, LP-gas, gas h.p., room or PTAC, existing, none)	12. Type: ____ HSPF/COP/AFUE: 1	
13. **Air distribution system***		
a. Backflow damper or single package systems* (Yes/No)	13a. N/A	
b. Ducts on marriage walls adequately sealed* (Yes/No)	13b. N/A	
14. **Hot water system:** (Types: elec., natural gas, other, existing, none)	14. Type: N/A EF: ____	

* Pertains to manufactured homes with site-installed components.

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

PREPARED BY: _____ DATE: 11/23/06

I hereby certify that this building is in compliance with the Florida Energy Code:

OWNER AGENT: _____ DATE: 1-27-06

Review of 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 in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____