DATE 05/02/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000025766

APPLICANT JERRY RYE PHONE 352 258-8603

ADDRESS 3817 NW 28TH TERR GAINESVILLE FL 32605

OWNER WALT & KRISSY SMITH PHONE 755-4235

ADDRESS 1214 SW WALTER AVE LAKE CITY FL 32055

CONTRACTOR RYE CONSTRUCTION PHONE 352 258-8603

LOCATION OF PROPERTY 47S, TL ON WALTER AVE, 1 MILE ON RIGHT, RCCI SIGN ON RIGHT

TYPE DEVELOPMENT WORKSHOP ESTIMATED COST OF CONSTRUCTION 20000.00

HEATED FLOOR AREA _____ TOTAL AREA 900.00 HEIGHT _____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 3/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT _____

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO. _____

PARCEL ID 02-5S-16-03437-003 SUBDIVISION _____

LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES _____

		CGC1511121		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
EXISTING	07-271-N	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1068

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 $ 100.00 CERTIFICATION FEE $ 4.50 SURCHARGE FEE $ 4.50

MISC. FEES $ 0.00 ZONING CERT. FEE $ _____ FIRE FEE $ 0.00 WASTE FEE $ _____

FLOOD DEVELOPMENT FEE $ _____ FLOOD ZONE FEE $ _____ CULVERT FEE $ _____ **TOTAL FEE** 109.00

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.

TMO

Inst:2007004952 Date:03/01/2007 Time:15:06
D.T. DC,P.DeWitt Cason,Columbia County B:1112 P:963

NOTICE OF COMMENCEMENT

To Whom It May Concern:

The undersigned hereby informs you that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is stated in this NOTICE OF COMMENCEMENT.

Description of Property: ATTACHED SCHEDULE A.

General Description of Improvements: CONSTRUCTION

Owner and Address: WALTER G SMITH
KRISTINE A SMITH

Property Address: 289 SW KAMAN DRIVE
LAKE CITY, FL 32024

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Sharon Feagle
Deputy Clerk
Date 03-01-2007

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

Owner's Interest in Site of the Improvement: Fee Simple

Contractor and Address: JERRY C RYE CONSTURCTION
3817 NW 28th Terrace
Gainesville, FL 32605

Surety (if any): NA

Address: _____ Amount of Bond $_____

Name and address of person within the State of Florida designated by owner upon whom notices or other documents may be served:

In addition to himself, owner designated the following person to receive a copy of Lienor's Notice as provided in Section 713.06 (2) (b) Florida Statutes:

Name and Address: Ameris Bank
P O Box 899
Newberry, FL 32669

Walter G Smith
WALTER G SMITH

Kristine A Smith
KRISTINE A SMITH

State of Florida
County of Alachua

I hereby certify that on this day, before me, an officer duly authorized to administer oaths and take acknowledgements, personally appeared Walter G Smith and Kristine A Smith who is known to me to be the person(s) described in and who executed the foregoing instrument, who acknowledged before me that they executed the same.

Witness my hand and official seal in the County and State aforesaid this 23rd day of FEBRUARY, 2007..

MICHELLE M. BRADY
MY COMMISSION # DD 418991
EXPIRES: April 17, 2009
Bonded Thru Notary Public Underwriters

Michelle M Brady
Notary Public

Columbia County Building Permit Application

For Office Use Only Application # 0704-81 Date Received 4/30/07 By LT Permit # 25766

Application Approved by - Zoning Official LH Date 5-2-07 Plans Examiner OKTH Date 5-2-07

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

Comments SITE PLAN ON PLANS (Information Taken from 0704-22 by BK)

NOC ☐ EH ☑ Deed or PA ☑ Site Plan NA ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Jerry Rye Phone 352-378-3006 Fax 352-378-9003

Address 3819 N.W. 28TH Terrace GAINESVILLE FL. 32605

Owners Name WALTER AND KRISSY Smith LAKE CITY FL. 32024 Phone 386-755-4235

911 Address 1214 S.W. WALTER AVE.

Contractors Name RYE CONST. CO. INC Phone CELL-352-258-8603 352-378-3006

Address 3819 N.W. 28 TER GAINESVILLE FL 32605

Fee Simple Owner Name & Address WALTER G. Smith & KRISTINE A. Smith

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address BRAD MUNN - P.O. BOX 773063 - OCALA, FL. 34477

Mortgage Lenders Name & Address AMERIS BANK - 25365 W. Newberry Rd. Newberry FL. 32669

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

Property ID Number 02-5S-16-03437-003 Estimated Cost of Construction 20,000.00

Subdivision Name N/A Lot ____ Block ____ Unit ____ Phase ____

Driving Directions HWY 41 South Approx 1.3 miles South of I-75 - LEFT on WALTER AVE Approx .75 mi-1mi To property on RIGHT 1214 on GATE POST - RCLI and AMERIS BANK SIGN AT PROPERTY GATE

Type of Construction ~~FRAME on CONC. SLAB~~ SHED Number of Existing Dwellings on Property NONE

Total Acreage 10 Lot Size 1.2 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 117'± Side 144'± Side 25'± Rear 50'±

Total Building Height 14' WORKSHOP Number of Stories 1 Heated Floor Area ~~900~~ TOTAL 900 Roof Pitch 3/12

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

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

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

Owner Builder or Authorized Person by Notarized Letter

Jerry Rye
Contractor Signature
Contractors License Number CGC151112
Competency Card Number
NOTARY STAMP/SEAL.

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 25 day of April 2006.

Personally known X or Produced Identification ____

Comm# DD0540681 Expires 4/16/2010 Florida Notary Assn., Inc

Notary Signature

(Revised Sept. 2006)

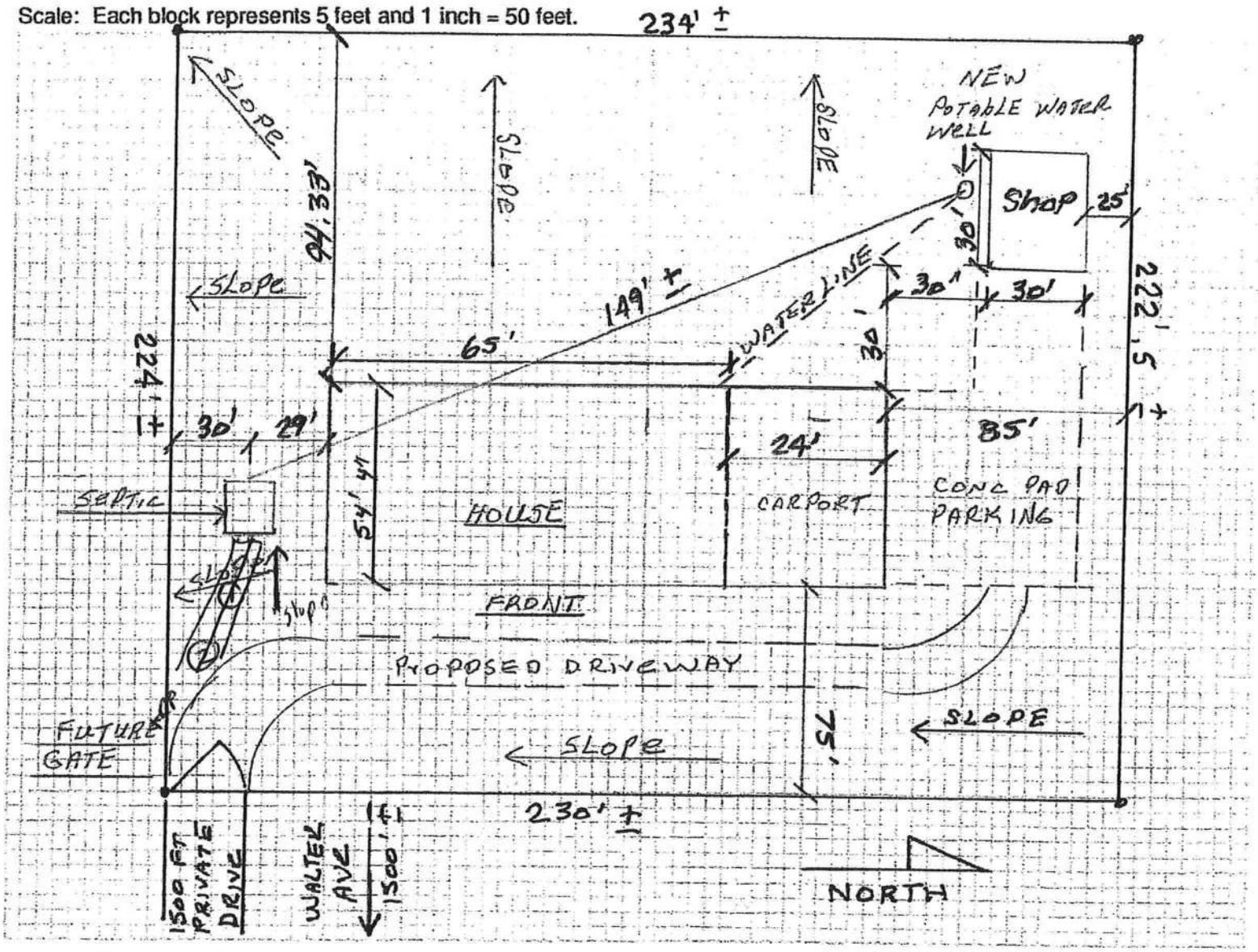
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-271N

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: HOUSE PAD Approx 1500' OFF WALTER AVE - PRIVATE ROAD BACK TO PAD. 1.2 ACRES ± PART OF 10 ACRE TRACT

Site Plan submitted by: Jerry Rye RCCT
Signature

PRESIDENT
Title

Plan Approved ✓ Not Approved ____

Date 3-26-07

By _____ County Health Departm

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

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

DATE REQUESTED: 2/5/2007 **DATE ISSUED:** 3/5/2007

ENHANCED 9-1-1 ADDRESS:

1214 SW WALTER AVE

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

02-5S-16-03437-003

Remarks:

Address Issued By: _____
Columbia County 9-1-1 Addressing / GIS Department

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

649

Approved Address

MAR 0 5 2007

911Addressing/GIS Dept

GEO-TECH, INC.

25765
25766 (change)

Engineering Consultants in Geotechnical • Environmental • Construction Materials Testing

FIELD DENSITY WORKSHEET

CLIENT RYE CONST. DATE 9 MAY 07

PROJECT NO.

PROJECT NAME SMITH RES. LAKE CITY PERMIT NO. #00002546S

~~EARTH CONTRACTOR~~ 1214 SW WALKER AVE TESTED BY JMC

COMPACTION REQUIREMENT (%) 95% ☐ Standard Proctor ☑ Modified Proctor FIELD CONTACT JERRY

TOTAL ON-SITE TIME MILES FROM OFFICE

☐ Limerock ☐ Subgrade ☐ Pipe Backfill ☐ ~~Building Pad~~ ☑ Building Footing ☐ Other

TEST LOCATION	LAB PROCTOR DENS.	LAB PROCTOR OMC	TEST DEPTH	PROBE DEPTH	% MOIST.	WET DENSITY (PCF)	DRY DENSITY (PCF)	% COMP.
HOUSE FTGS.								
CTR. of W. FTG.	110.4	10.1	FG	12"	4.6	112.6	107.6	97.5
CTR. of C. FTG					4.0	112.5	108.2	98.0
CTR. of S. FTG					4.2	112.2	107.7	97.6
CTR. of INT. FTG					3.8	112.1	108.0	97.8
SHOP FTGS.								
CTR of N. FTG					3.6	112.3	108.4	98.2
CTR of S. FTG.					4.4	113.5	108.7	98.5

REMARKS

* Density failed to meet minimum project requirement

** Retest indicates minimum density requirement was obtained.

( ) Client is aware of unsatisfactory test results.

DESCRIPTION – 10 ACRES **Wednesday, January 31, 2007**

FOR: Walter Smith

BEGIN at the Southeast corner of the Southwest 1/4 of the Southeast 1/4 of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run S.88°26'27"W. along the South line of said Section 2 a distance of 666.82 feet; thence N.00°17'12"W. parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N.88°26'27"E. parallel to the South line of said Section 2 a distance of 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S.00°17'12"E. along said East line 653.25 feet to the POINT OF BEGINNING. Containing 10.00 acres, more or less.

TOGETHER WITH: An Easement 30.00 feet in width, for ingress and egress lying 30.00 feet left (North) of and adjacent to the following described line: COMMENCE at the Southwest corner of the Southeast 1/4 of the Southeast 1/4 (being also the Southeast corner of the Southwest 1/4 of the Southeast 1/4) of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run N.00°17'12"W. along the West line of said Southeast 1/4 of the Southeast 1/4 a distance of 424.16 feet to the Northwest corner of the South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 and the POINT OF BEGINNING; thence N.88°26'55"E. along the North line of said South 424.16 feet of the Southeast 1/4 of the Southeast 1/4 a distance of 1249.33 feet to a point on the Westerly maintained Right-of-Way line of SW Walter Avenue and the TERMINAL POINT of herein described line and easement.

COPY

THIS INSTRUMENT WAS PREPARED BY:

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

RETURN TO:

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

File No. 07-59

Recording Fee $ 18.50
Documentary Stamp $ .70

Inst:2007003854 Date:02/15/2007 Time:14:48
Doc Stamp-Deed : 0.70
D.C,P.DeWitt Cason,Columbia County B:1110 P:2714

Property Appraiser's
Parcel Identification No. 02-55-16-03437-003 Cheryl

WARRANTY DEED

THIS INDENTURE, made this 15th day of February, 2007, BETWEEN GLADYS L. SMITH, a single woman, whose post office address is 1018 SW Walter Avenue, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantor*, and WALTER G. SMITH, whose post office address is 289 SW Kaman Drive, Lake City, Florida 32024, of the County of Columbia, State of Florida, grantee*.

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

TOWNSHIP 5 SOUTH - RANGE 16 EAST

SECTION 2: BEGIN at the Southeast corner of the Southwest 1/4 of the Southeast 1/4 of Section 2, Township 5 South, Range 16 East, Columbia County, Florida and run S 88°26'27"W along the South line of said Section 2 a distance of 666.82 feet; thence N 00°17'12" W parallel to the East line of said Southwest 1/4 of the Southeast 1/4 a distance of 653.25 feet; thence N 88°26'27" E parallel to the South line of said Section 2, a distance of 666.82 feet to a point on the East line of said Southwest 1/4 of the Southeast 1/4; thence S 00°17'12" E along said East line 653.25 feet to the POINT OF BEGINNING.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

DeEtte F. Brown
(First Witness)
DeEtte F. Brown
Printed Name

(Second Witness)
Crystal L. Brunner
Printed Name

Gladys L. Smith (SEAL)
GLADYS L. SMITH

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 15th day of February, 2007, by GLADYS L. SMITH, who is personally known to me and who did not take an oath.

My Commission Expires:

DeEtte F. Brown
Notary Public
Printed, typed, or stamped name:

DE ETTE F. BROWN
MY COMMISSION # DD 576151
EXPIRES: October 22, 2010
Bonded Thru Notary Public Underwriters

RE: B0700414 - 30' X30' BLDG

Site Information:
Project Customer: RYE CONSTRUCTION Project Name: 30' X30' BLDG
Lot/Block: Subdivision:
Address: 1214 SW WALTER AVE
City: LAKE CITY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2004/TPI2002 Design Program: MiTek 20/20 6.5
Wind Code: ASCE 7-02 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 47.0 psf

This package includes 2 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T2505177	1A	3/22/07
2	T2505178	1B	3/22/07

The truss drawing(s) referenced above have been prepared by Robbins Engineering, Inc. under my direct supervision based on the parameters provided by HD Supply-Ocala, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2009.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 22,2007

ORegan, Philip

6904 Parke East Boulevard
Tampa, FL 33610-4115
Phone: 813-972-1135 Fax: 813-971-6117
www.robbinseng.com

Job	Truss	Truss Type	Qty	Ply	30' X30' BLDG	T2505177
B0700414	1A	ROOF TRUSS	14	1	Job Reference (optional)	

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Thu Mar 22 12:33:18 2007 Page 1

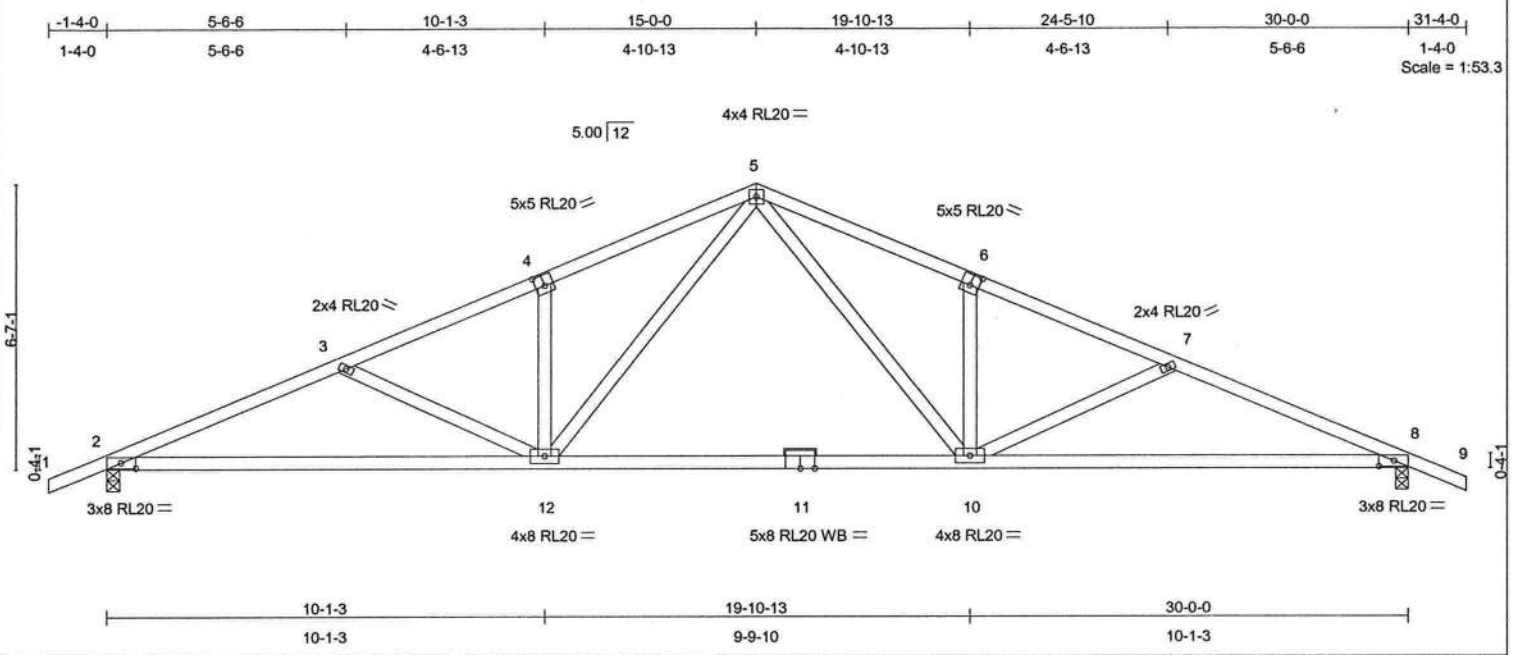


Plate Offsets (X,Y): [2:0-4-2,0-1-8], [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-4-2,0-1-8]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0		Plates Increase 1.33	TC 0.37	Vert(LL) -0.88 10-12 >404 360	RL20 253/171
TCDL 7.0		Lumber Increase 1.33	BC 0.78	Vert(TL) -1.11 10-12 >320 180	
BCLL 10.0	*	Rep Stress Incr NO	WB 0.40	Horz(TL) 0.13 8 n/a n/a	
BCDL 10.0		Code FBC2004/TPI2002	(Matrix)		Weight: 147 lb

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-11 oc bracing.

REACTIONS (lb/size) 2=1800/0-3-8, 8=1800/0-3-8
Max Horz 2=-109(LC 6)
Max Uplift2=-435(LC 5), 8=-435(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3711/738, 3-4=-3306/590, 4-5=-3298/689, 5-6=-3298/689, 6-7=-3306/590, 7-8=-3711/739, 8-9=0/36
BOT CHORD 2-12=-687/3332, 11-12=-283/2169, 10-11=-283/2169, 8-10=-579/3332
WEBS 3-12=-380/247, 4-12=-339/223, 5-12=-290/1326, 5-10=-290/1326, 6-10=-339/223, 7-10=-380/248

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.33 plate grip DOL=1.33.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 2 and 435 lb uplift at joint 8.
6) Load case(s) 1, 9 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-74, 5-9=-74, 2-12=-20, 10-12=-80, 8-10=-20
9) User defined: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-74(F), 5-9=-74(F), 2-12=-20(F), 10-12=-80(F=-20), 8-10=-20(F)

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 22,2007

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	30' X30' BLDG	T2505178
B0700414	1B	GABLE	2	1	Job Reference (optional)	

HD SUPPLY LBM, OCALA, FL. 6.500 s Mar 8 2007 MiTek Industries, Inc. Thu Mar 22 12:33:20 2007 Page 1

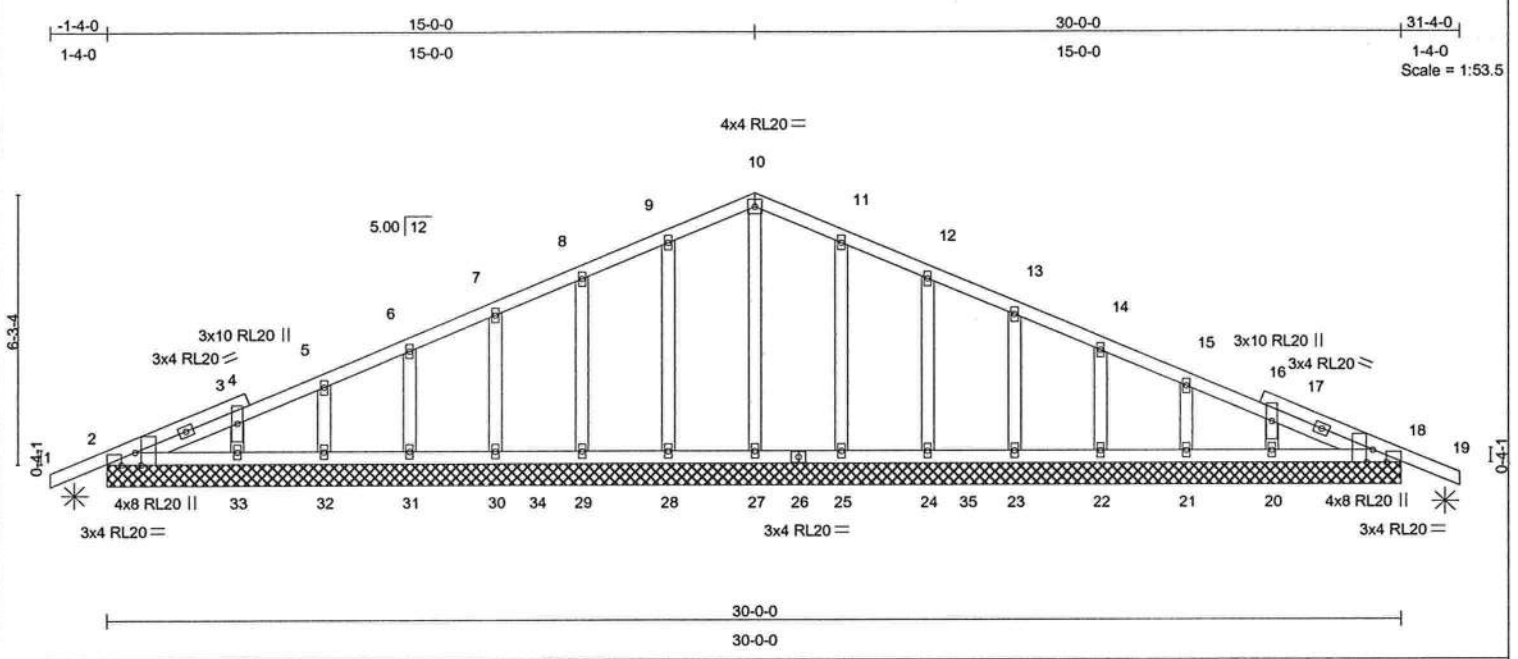


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [18:0-3-8,Edge], [18:0-3-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0		Plates Increase	1.33	TC	0.12	Vert(LL)	-0.00	19	n/r	180	RL20	253/171
TCDL 7.0		Lumber Increase	1.33	BC	0.05	Vert(TL)	-0.01	19	n/r	120		
BCLL 10.0	*	Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.00	18	n/a	n/a		
BCDL 10.0		Code FBC2004/TPI2002		(Matrix)							Weight: 164 lb	

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

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

REACTIONS (lb/size) 2=248/30-0-0, 18=248/30-0-0, 27=295/30-0-0, 28=310/30-0-0, 29=301/30-0-0, 30=198/30-0-0, 31=190/30-0-0, 32=172/30-0-0, 33=245/30-0-0, 25=311/30-0-0, 24=296/30-0-0, 23=192/30-0-0, 22=191/30-0-0, 21=172/30-0-0, 20=245/30-0-0
Max Horz 2=-104(LC 6)
Max Uplift2=-97(LC 5), 18=-113(LC 6), 28=-66(LC 5), 29=-74(LC 5), 30=-71(LC 5), 31=-72(LC 5), 32=-67(LC 5), 33=-67(LC 5), 25=-64(LC 6), 24=-75(LC 6), 23=-71(LC 6), 22=-72(LC 6), 21=-70(LC 6), 20=-68(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-104/29, 3-4=-74/38, 4-5=-66/56, 5-6=-42/84, 6-7=-43/114, 7-8=-43/142, 8-9=-43/173, 9-10=-43/197, 10-11=-43/192, 11-12=-43/153, 12-13=-43/111, 13-14=-43/69, 14-15=-42/35, 15-16=-37/8, 16-17=-30/0, 17-18=-57/23, 18-19=0/36
BOT CHORD 2-33=0/114, 32-33=0/114, 31-32=0/114, 30-31=0/114, 30-34=0/114, 29-34=0/114, 28-29=0/114, 27-28=0/114, 26-27=0/114, 25-26=0/114, 24-25=0/114, 24-35=0/114, 23-35=0/114, 22-23=0/114, 21-22=0/114, 20-21=0/114, 18-20=0/114
WEBS 10-27=-137/0, 9-28=-148/86, 8-29=-148/94, 7-30=-147/91, 6-31=-151/93, 5-32=-138/84, 3-33=-192/95, 11-25=-148/84, 12-24=-148/95, 13-23=-147/91, 14-22=-151/93, 15-21=-138/86, 17-20=-192/97

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 RL20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 2, 113 lb uplift at joint 18, 66 lb uplift at joint 28, 74 lb uplift at joint 29, 71 lb uplift at joint 30, 72 lb uplift at joint 31, 67 lb uplift at joint 32, 67 lb uplift at joint 33, 64 lb uplift at joint 25, 75 lb uplift at joint 24, 71 lb uplift at joint 23, 72 lb uplift at joint 22, 70 lb uplift at joint 21 and 68 lb uplift at joint 20.
10) Load case(s) 1, 9 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

March 22,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	30' X30' BLDG
B0700414	1B	GABLE	2	1	T2505178
					Job Reference (optional)

LOAD CASE(S) Standard Except:
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-74, 10-19=-74, 2-34=-20, 34-35=-80, 18-35=-20
9) User defined: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-74(F), 10-19=-74(F), 34-35=-60

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

Wind Load Analysis and Certification

Smith Garage by Rye Construction

2004 Florida Building Code (Residential) section 1609 according to ASCE 7-02
Basic Wind Speed = 110 MPH
Importance Factor = 1.0
Exposure Category = B
Applicable Internal Pressure Coefficient = .18
Design Wind Pressure for use of External Components = 31.1 psf
Mean Roof Height = 14.5'

4/23/07

Roof Decking
7/16" OSB, 5/8" CDX or ¾" CDX Decking; 48"x96" Sheets, Perpendicular to Roof Framing Members
8d common (.131" dia) nails at 4" O.C. on Ends, 8" O.C. in Interior or 8d (.113") ring shank nail @ 4" O.C. ends, 6" O.C. interior.
Trusses or Rafters at 2' O.C. (horizontal distance), No Intermediate Blocking Required
Rafters: 2x6 SYP #2 up to 10' horizontal span, 2x8 SYP #2 up to14' horizontal span

Shear Wall Segments
7/16" OSB, 48" Wide Sheets Placed Vertical - Sheathing Continuous from Top Plate down to Pressure Treated Sole Plate Bearing on Foundation.
8d common (.131" dia) nails at 3" O.C. on Edges and Ends, 8" O.C. in Interior
Transverse Shearwall = 30', Longitudinal Shearwall = 24'
2x4 SPF (No. 1&2) Studs at 16" O.C., up to 12' wall height
or: 2x6 SPF (No. 1&2) Studs at 16" O.C., up to 18' wall height
See attached detail for stud and jack requirements for wall openings
Nail Together Double Top Plate 6" O.C. w/12-d Common Nails (SYP top plates)
Other Wall Segments - Same as Shear Walls

Gabled End Wall Framing
Balloon Frame (see detail) or see attached alternate details.

Special Notes: Other than double sheathed sections as shown on plans, no special corner framing required. Garage Door header to be 2 ply 16" LVL.

Footings and Foundations (Based on Truss Engineering)
20" deep x 14" wide monolithic with 2-#5's, Continuous
or: 20" Wide x 10" Deep 2500 psi Concrete Strip Footing with 2-#5's, Continuous
8"x8"x16" Concrete Masonry Stemwall, Minimum 2 Courses, Maximum 5 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners and 8'-0" O.C. (10" hook top and bottom) (min 25" lap all #5 rebar) **(1) #5 continuous top course. All 4" slabs requires 6x6 WWM**
Note: footer design based on continuous bearing. Continuous footers (grade beams) for pier foundation systems must be designed by pier foundation subcontractor.

Hurricane-Resistance Hardware (Based on Truss Engineering)
Truss Clips/Headers/Top and Bottom of Wall Unit - See Table
Anchor Bolts- A-307 (1/2"Dia. x 8" with min 6" embedment) at 48"O.C. (First bolt at 9" from Corner, then 48" O.C.) and at each end of Each Shearwall Segment (2" round or square washers).

I hereby certify that the accompanying Wind Load Analysis for the **Smith Garage**, demonstrates compliance with the 2004 FBC section 1609 according to ASCE 7-02, to the best of my knowledge.

Frank J. Sapienza Jr.
License Professional Engineer
Florida License Number 48566

HOLD-DOWN TABLE **Smith Garage** **4/23/2007**

Wood Sections	Uplift Force Lbs	Top Connector Simpson **	Rating Lbs	Bottom Connector Simpson **	Rating Lbs
HEADERS					
	up to 455 lbs	LSTA9	775	H3	455
	up to 910 lbs	LSTA12	970	2-H3	910
	up to 1235 lbs	LSTA18	1235	LTT19	1350
	up to 1750 lbs	2-LSTA12	1940	LTT20	1750
	up to 2470 lbs	2-LSTA18	2470	HD2A-2.5	2565
	up to 2775 lbs	3-LSTA18	3705	HD2A-3.5	2775
	up to 3705 lbs	3-LSTA18	3705	HD5A-3	3705

To determine uplift force on header at each end, total the uplifts for each truss resting on the header and divide by 2 (assumes uniform load) Note: must use proper bolt anchors sufficient to support required load

Trusses/Girders -

up to 600 lbs - use H2.5A top, no special device required at bottom
over 600 lbs but under 990 lbs use H10 top, no special device required at bottom
up to 1215 lbs use TS22 or equivalent at top and LTT19 at bottom
up to 1750 lbs use 2-TS22 or equivalent at top and LTT20 at bottom
up to 2430 lbs use 2-TS22 or equivalent at top and HD2A bottom
up to 3645 lbs use 3-TS22 or equivalent at top and HD5A bottom
Must Use proper bolt anchors

Note: it is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation

Strap rafters to truss or at each end with min uplift resistance of 450 lbs each end
Strap ridge beam at each end with min uplift resistance of 1800 lbs

Note: Four (4) 12d comm toenails (2 on each side) required per truss/rafter per bearing point into plate to resist both lateral loads (wall to truss) and transverse loads (max plate height =12', not including gable)

Horizontal Resistance (from truss loads) - Note: these devices are in addition to required toe-nails

up to 110 lbs - use H2.5A
up to 525 lbs use H10
up to 1090 lbs use H10 plus A23

Note: hardware to be used must satisfy both uplift and horizontal resistance, combination of devices is acceptable

Note: for combination of loads (uplift and horizontal/lateral) on a single device, the ratio of actual uplift/allowable uplift + actual horizontal load/allowable horizontal cannot exceed 1

STUDS

Wall Sheathing Nailing Adequate Exterior Walls bottom (8d nails at 3"O.C.)
Wall Sheathing Nailing Adequate Exterior Walls Top (8d nails at 3"O.C.), as long as sheathing covers top plate, otherwise use SP2 @32" O.C. in addition to sheathing nailing,

**an equivalent device of same or other manufactures can be substituted for any of the devices specified on this page as long as it meets the required load capacities

Note: For nailing into SPF members, multiply table values by .86

4/23/07

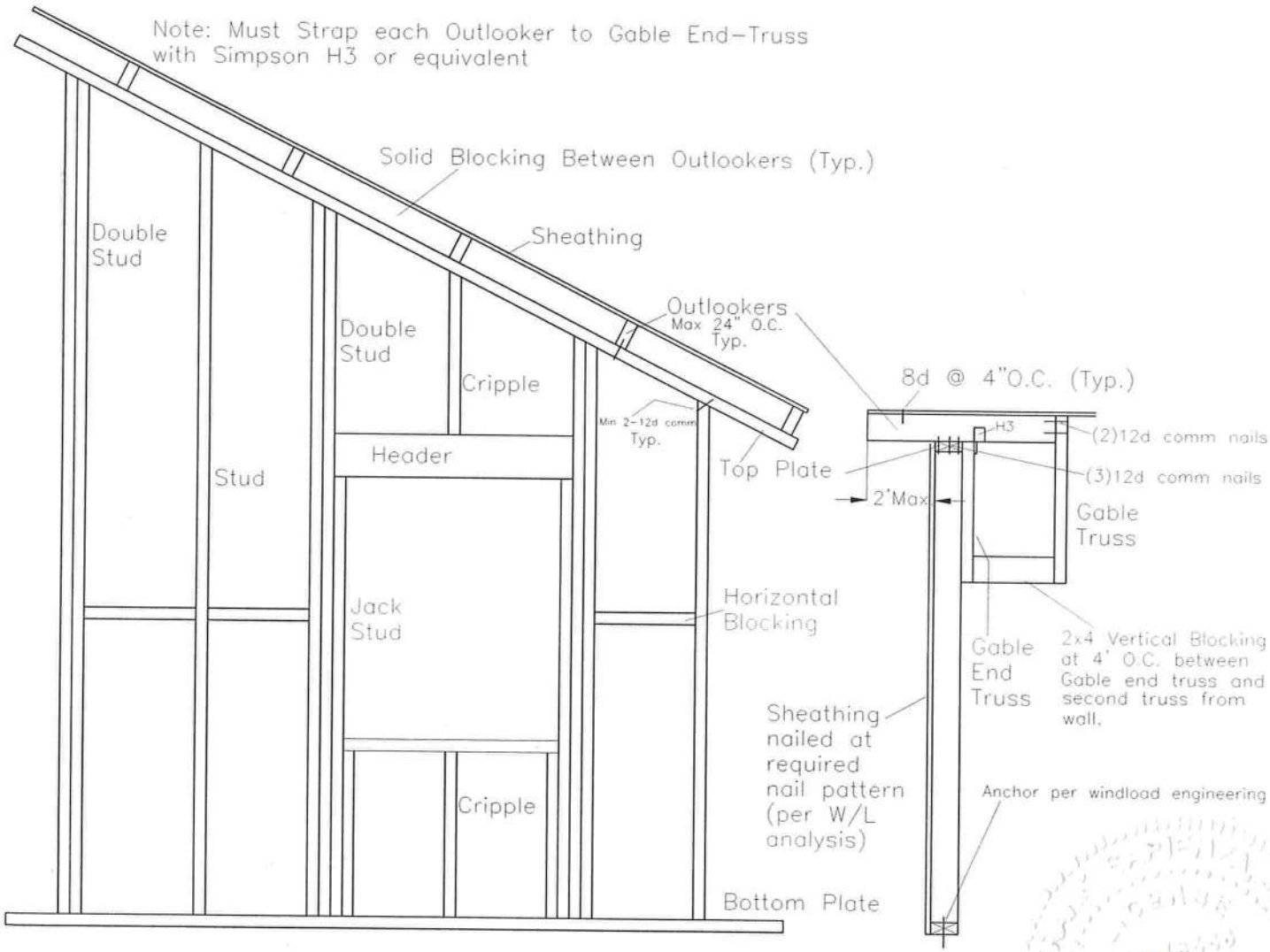
Acceptable Framing Method for Balloon Framed Gable End–Wall with trusses

Balloon Frame with 2x4 SPF No.1&2 @ 16" O.C. with the Following Conditions:
Up to 12' – Block at 8'
Over 12' but Under 14' – 2x4 SYP #2 at 16" O.C. and Block at 4',8'&12'
Over 14' but Under 17' – Double 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'
Over 17' but Under 20' – Triple 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'
Over 20' but Under 23' – Quadruple 2x4 SYP #2 at 16" O.C.and block at 4',8',12',16'&20'
Over 23' – Must be Engineered

In all cases a minimum of a double full length stud is required at each side of openings such as doors and windows

Blocking must be parallel to top and bottom plates with a minimum of 2–12d comm nails

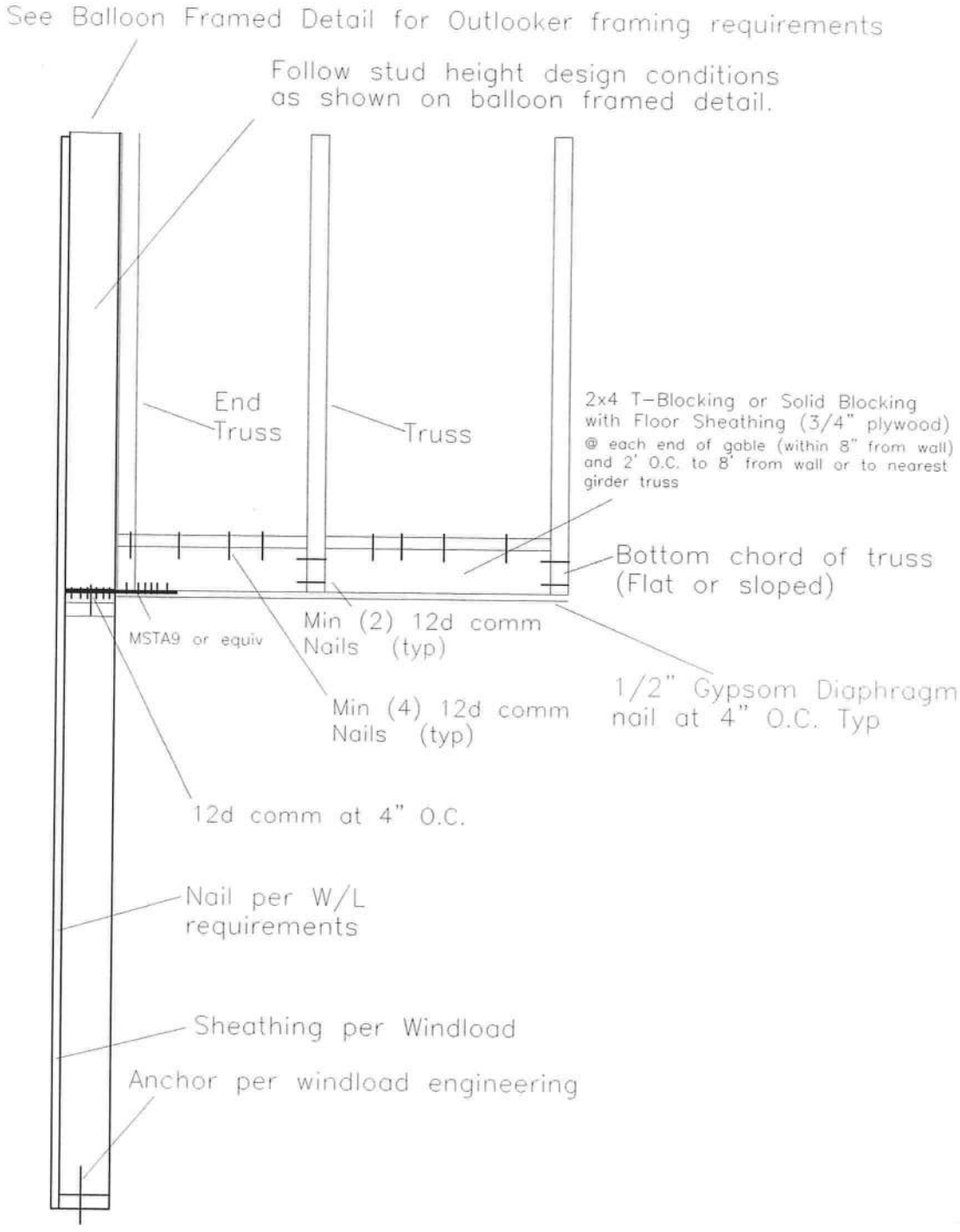
Note: Must Strap each Outlooker to Gable End–Truss with Simpson H3 or equivalent



F. Sapienza, P.E. 4/07

4/23/07

Gable Endwall Framing
with Gable End–Truss



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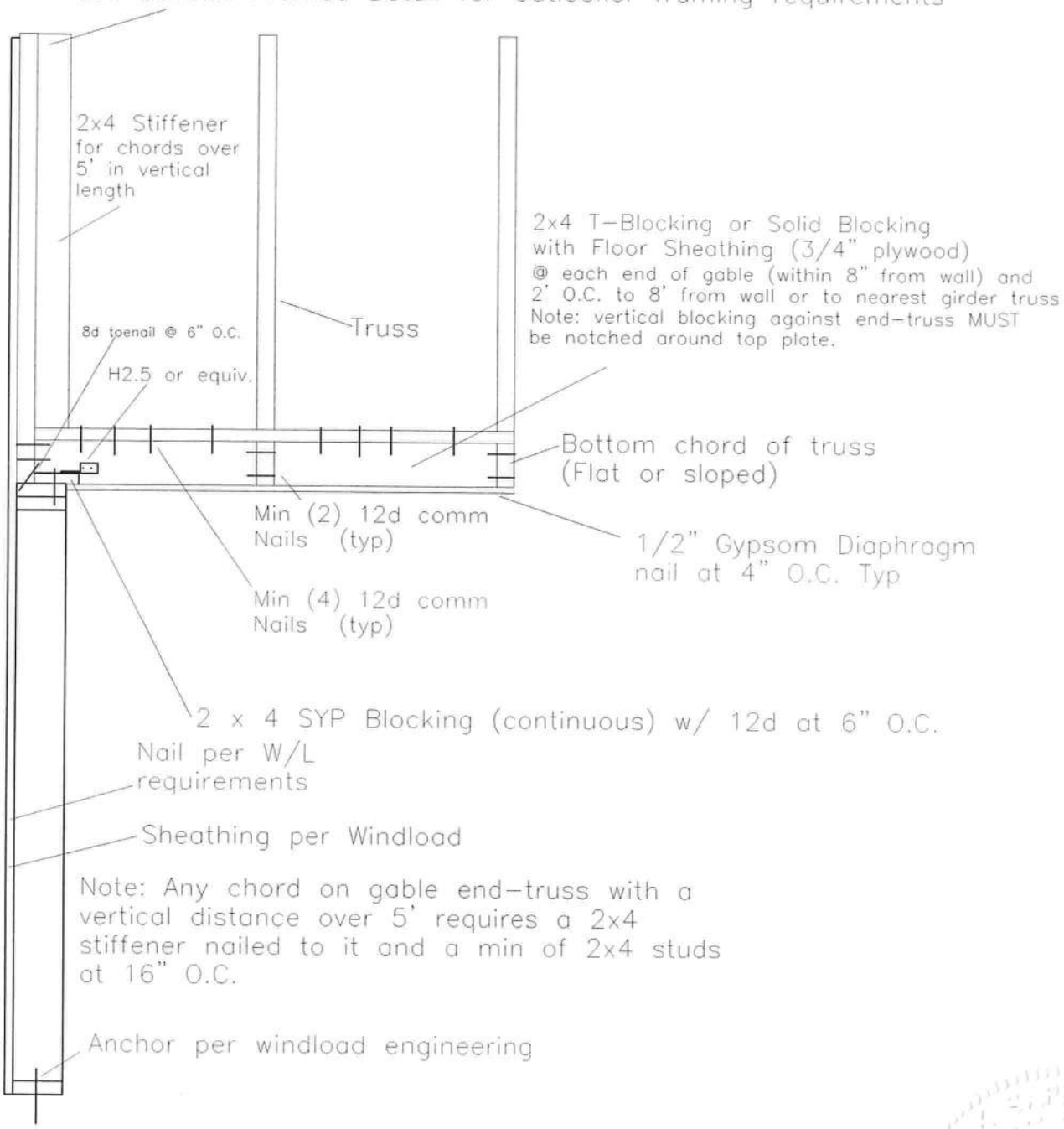
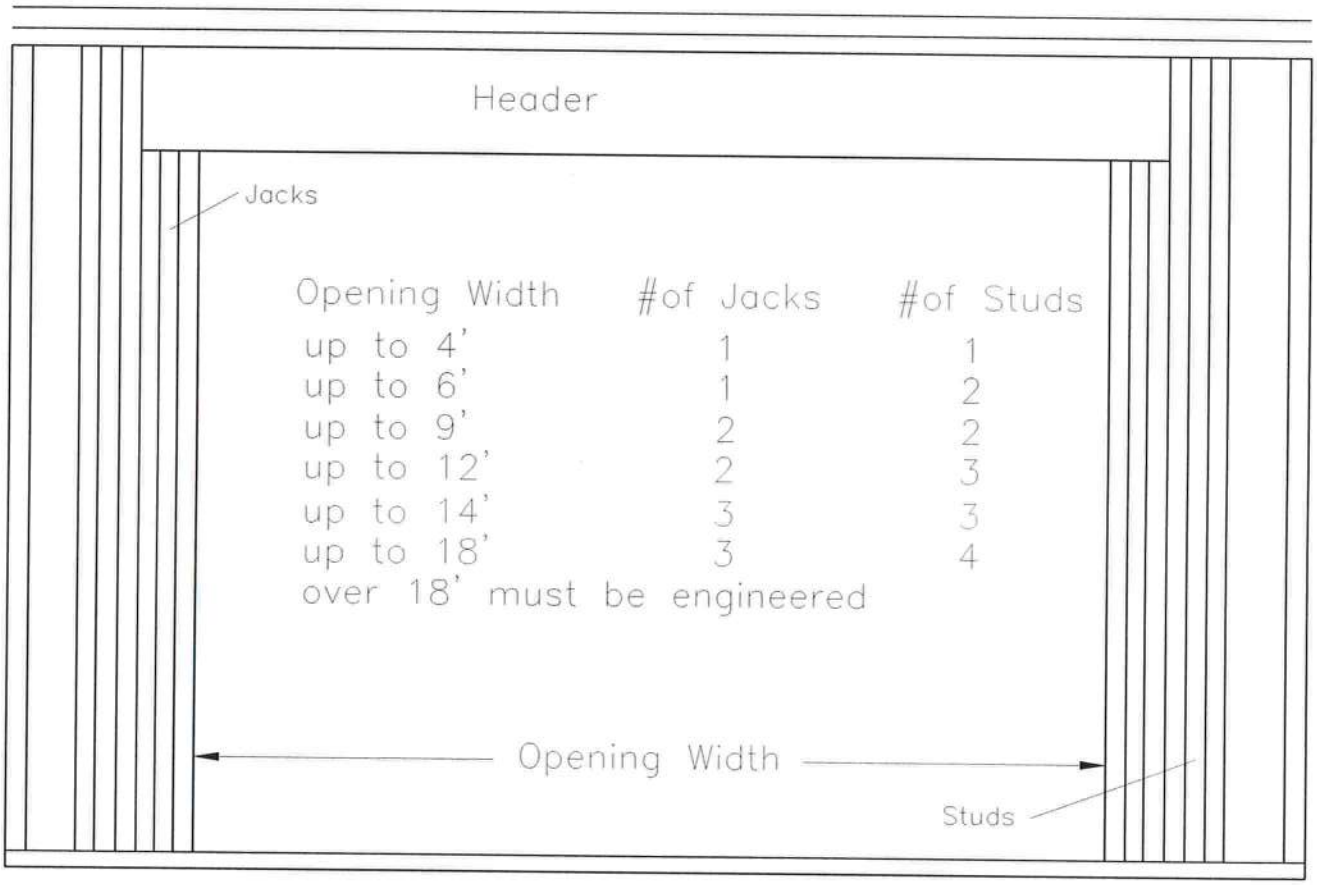
Gable Endwall Framing with Gable End–Truss



4/23/07

Number of Jack and Stud Requirements per Opening Width
2x4 or 2x6 SPF #1&2 Construction – max Wall Height=12'
(based on 16" O.C. Stud Spacing)



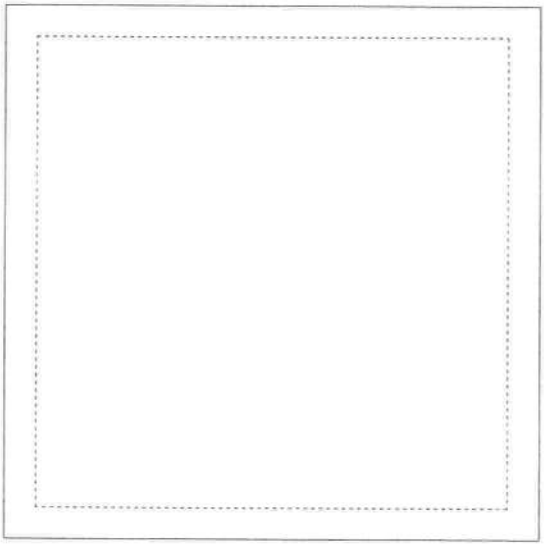
Opening Width	#of Jacks	#of Studs
up to 4'	1	1
up to 6'	1	2
up to 9'	2	2
up to 12'	2	3
up to 14'	3	3
up to 18'	3	4

over 18' must be engineered

Note – Based on uniform loads. Heavy concentrated loads require engineering review

4/23/07

Project Name: Smith Garage



Location:

By: F Sapienza

Start Date: 4/24/2007

Comments:

Local Information

Wind Dir.	Exposure
1	B
2	B
3	B
4	B

Basic Wind Speed: 110 mph

Topography: None

Optional Factors

This project uses load combinations from ASCE 7.

Section - Main Section

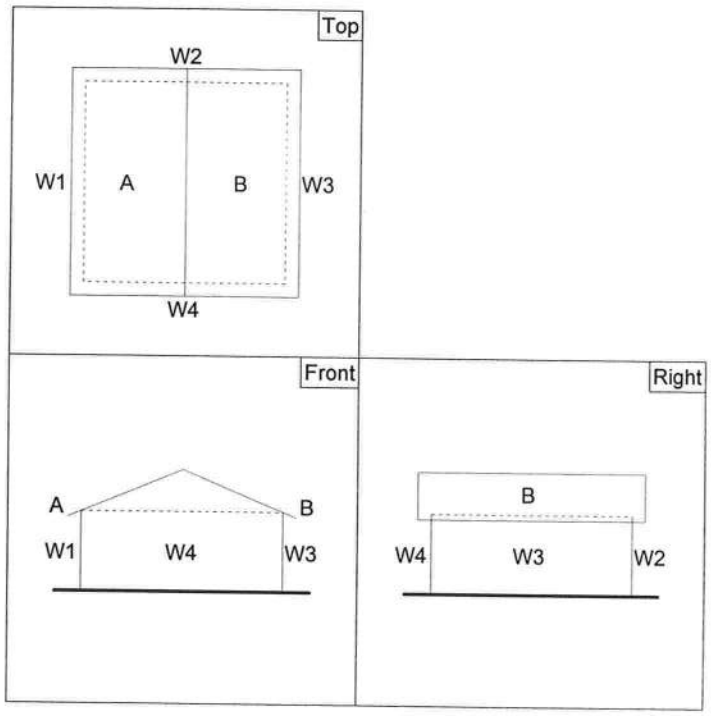
Enclosure Classification: Enclosed
Building Category: II

Wall	Length(ft)	Overhang(ft)
1	30.0	2.0
2	30.0	2.0
3	30.0	2.0
4	30.0	2.0

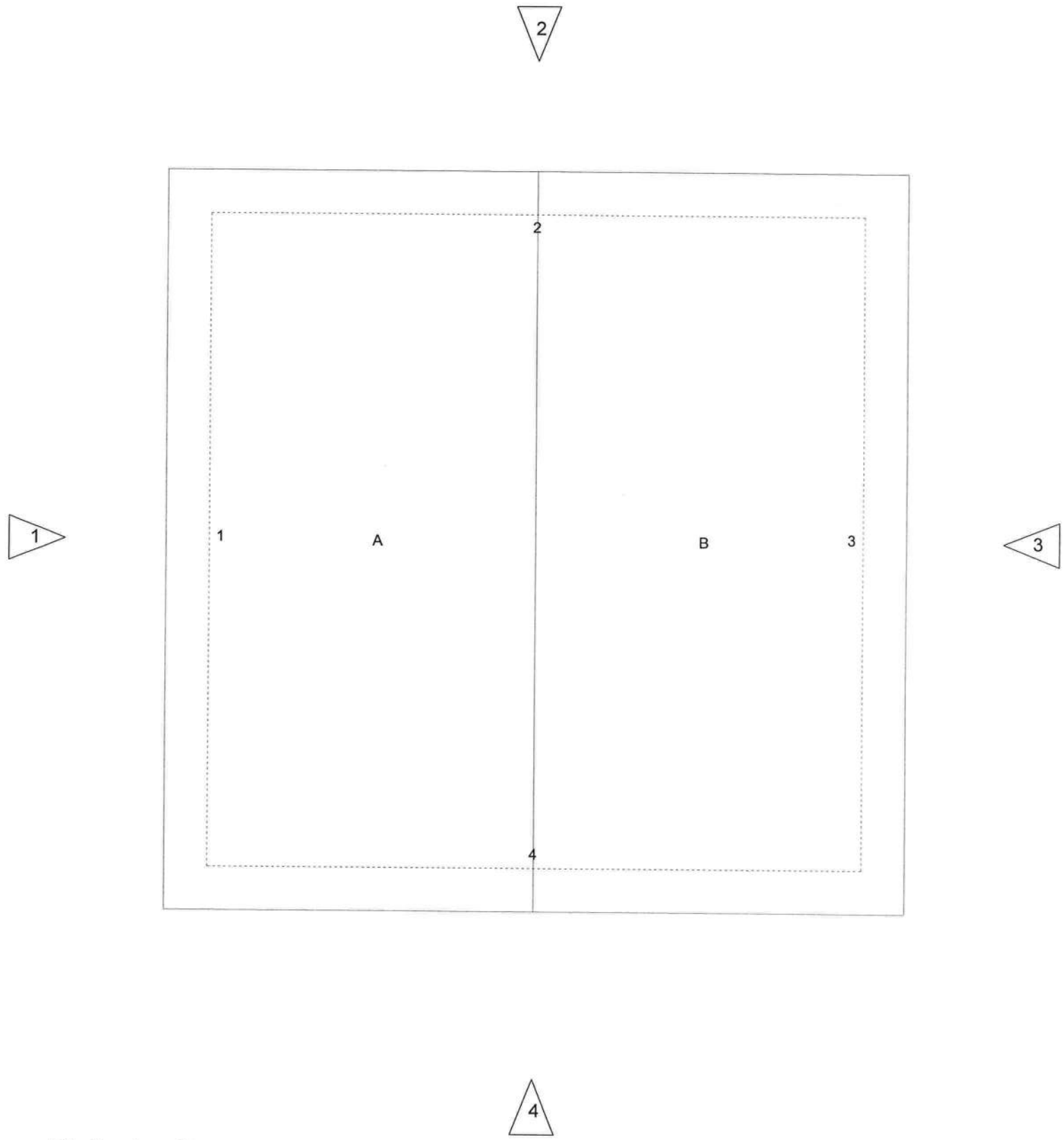
Eave Height: 12 ft
Parapet Height: 0 ft
Parapet Enclosure: Solid

Roof Shape: Gabled

Roof	Slope(:12)
A&B	5.0



Composite Drawing



ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 1

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Windward Wall	12.0	15.1	0.88	0.80	0.18	10.6	7.9	13.4
	Overhang Top	15.1	15.2		0.10	0	1.3		
		15.1	15.2		-0.35		-4.7		
	Overhang Bot	12.0	15.1		0.80		10.6		
2	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
3	Leeward Wall	15.1	15.2	0.88	-0.50	0.18	-6.7	-9.4	-4.0
4	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
A	Windward Roof	15.1	15.2	0.88	0.10	0.18	1.3	-1.4	4.1
		15.1	15.2		-0.35		-4.7	-7.4	-1.9
B	Leeward Roof	15.1	15.2	0.88	-0.60	0.18	-8.0	-10.8	-5.3

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 2

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
2	Windward Wall	15.0	15.1		0.80		10.6	7.9	13.4
		15.1	15.2				10.7	8.0	13.4
		18.3	16.0				11.3	8.5	14.0
	Overhang Top	15.1	15.2		-0.90	0	-12.0		
	Overhang Bot	15.1	15.2		0.80		10.7		
3	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
4	Leeward Wall	15.1	15.2	0.88	-0.50	0.18	-6.7	-9.4	-4.0
A&B	Roof	0 to 7.6 *	15.2	0.88	-0.90	0.18	-12.0	-14.8	-9.3
		7.6 to 15.1 *	15.2				-12.0	-14.8	-9.3
		15.1 to 30.0 *	15.2		-0.50		-6.7	-9.4	-4.0
		0 to 30.0 *	15.2		-0.18		-2.4	-5.1	0.3

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

* Distance from windward edge.

ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 3

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Leeward Wall	15.1	15.2	0.88	-0.50	0.18	-6.7	-9.4	-4.0
2	Side Wall	15.1	15.2		-0.70		-9.4	-12.1	-6.6
3	Windward Wall	12.0	15.1	0.88	0.80	0.18	10.6	7.9	13.4
	Overhang Top	15.1	15.2		0.10	0	1.3		
		15.1	15.2		-0.35		-4.7		
	Overhang Bot	12.0	15.1		0.80		10.6		
4	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
B	Windward Roof	15.1	15.2	0.88	0.10	0.18	1.3	-1.4	4.1
		15.1	15.2		-0.35		-4.7	-7.4	-1.9
A	Leeward Roof	15.1	15.2	0.88	-0.60	0.18	-8.0	-10.8	-5.3

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

ASCE7-02

MWFRS Net Pressures

This data was calculated using the building of all heights method.

Wind Direction 4

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
2	Leeward Wall	15.1	15.2		-0.50		-6.7	-9.4	-4.0
3	Side Wall	15.1	15.2	0.88	-0.70	0.18	-9.4	-12.1	-6.6
4	Windward Wall	15.0	15.1	0.88	0.80	0.18	10.6	7.9	13.4
		15.1	15.2				10.7	8.0	13.4
		18.3	16.0				11.3	8.5	14.0
	Overhang Top	15.1	15.2		-0.90	0	-12.0		
	Overhang Bot	15.1	15.2		0.80		10.7		
A&B	Roof	0 to 7.6 *	15.2	0.88	-0.90	0.18	-12.0	-14.8	-9.3
		7.6 to 15.1 *	15.2				-12.0	-14.8	-9.3
		15.1 to 30.0 *	15.2		-0.50		-6.7	-9.4	-4.0
		0 to 30.0 *	15.2		-0.18		-2.4	-5.1	0.3

This is load case 1 in ASCE 7-02 Figure 6-9. See Figure 6-9 for other cases.

* Distance from windward edge.

J.L. Rye
Rye Construction
Re: Smith Residence

Mr. Rye,

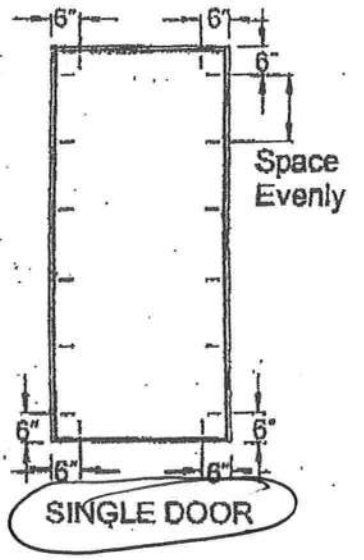
Regarding the Smith residence, for the garage door header for the main house, it shall be a double 2x12 SYP #2 and strapped at each end for a min of 450 lbs uplift resistance (Simpson LSTA9 top, H3 bottom). Also, all other headers and beams are to be double 2x12 SYP #2. For the separate garage, the 18'garage door header is to be a 2 ply 16" LVL and strapped per the wind load engineering.

If you have any questions regarding this matter please feel free to contact me.

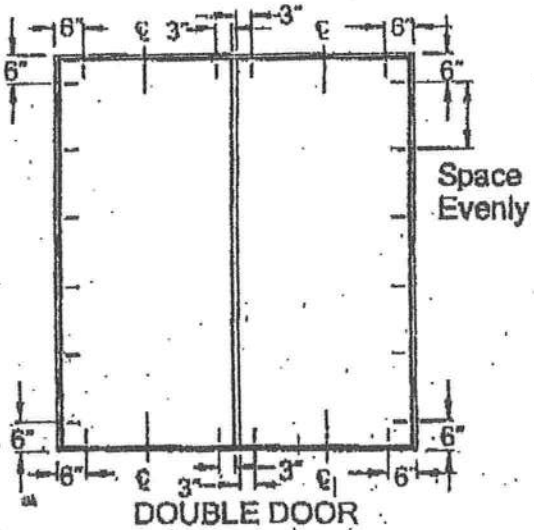
Sincerely,

Frank J. Sapienza Jr.
License Professional Engineer
Florida License Number 48566

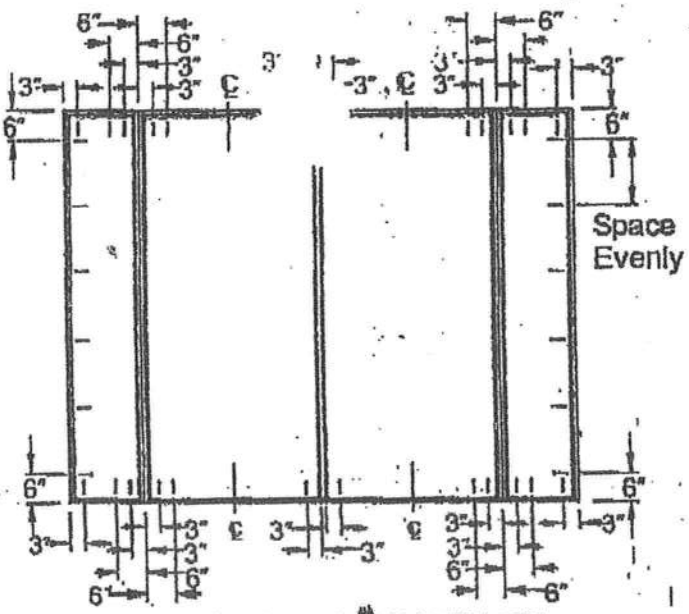
4/23/07



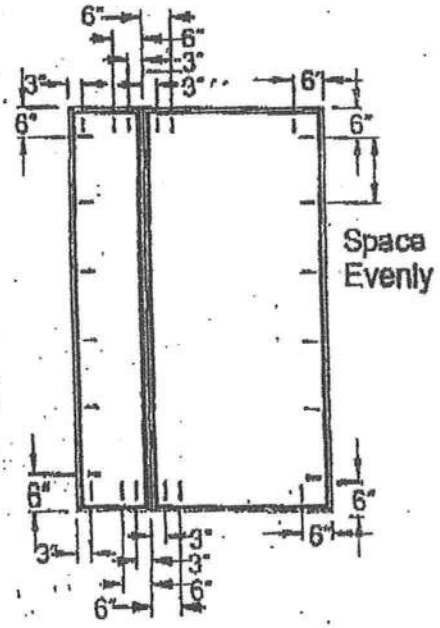
SINGLE DOOR



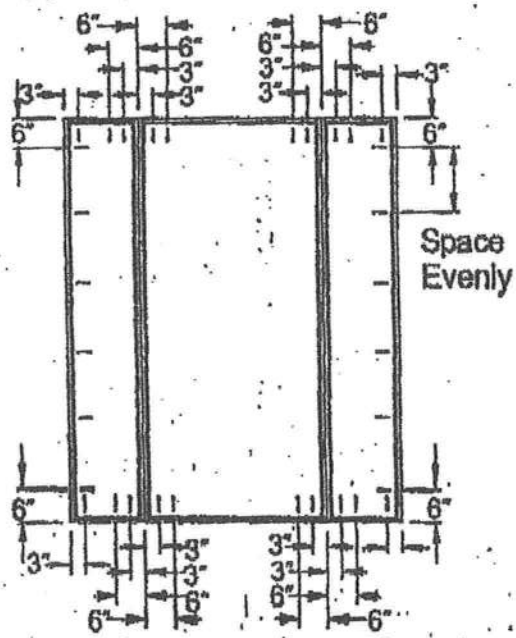
DOUBLE DOOR



DOUBLE DOOR W/SIDELITES



SINGLE DOOR W/SIDELITE



SINGLE DOOR W/SIDELITES

window&glass options

Add a touch of elegance to the outside of your home with the addition of decorative window & glass options from C.H.I. Our glass options are designed to enhance the natural beauty of your exterior while adding to the value of your home.

Color Selections*

White

Almond

Sandstone

Brown

PANEL CONSTRUCTION

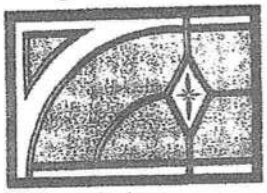
Chosen for its weather resistant feature, the tongue and groove design was engineered to ensure a secure fit while strengthening the structural integrity of the door.

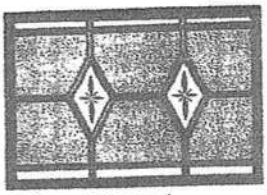
2250/4250
Uninsulated.

2251/4251
1 3/8" Polystyrene insulation with a vinyl back.

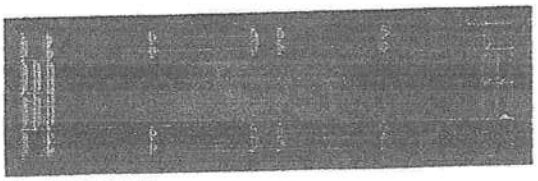
2255/4255
9/16" Polystyrene insulation with a vinyl back.

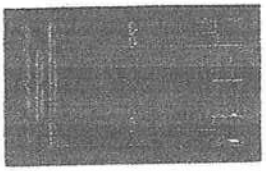
Designer Lites**

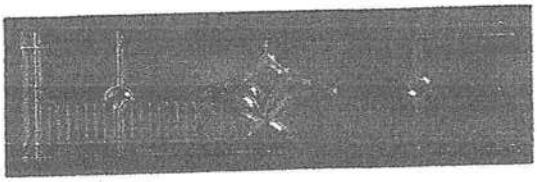

V-Groove Sunburst

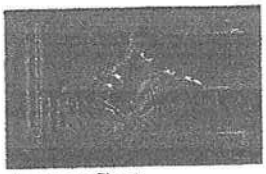

V-Groove Diamond


V-Groove Cathedral


Hawthorne Long


Hawthorne Short


Somerset Long


Somerset Short

***Note:** Hawthorne and Somerset glazing options are transparent.*

MODEL
☐ 2250 ☐ 4250 ☐ 2251 ☐ 4251 ☐ 2255 ☐ 4255 **WIDTH** _____ x **HEIGHT** _____

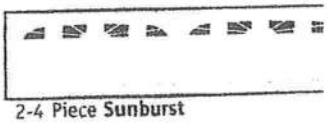
NOTES _____

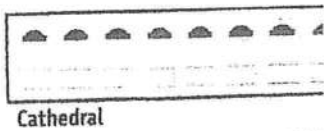
TOTAL $ _____

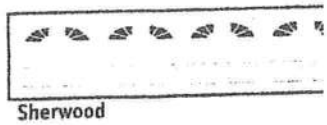
Standard Window Design Trims

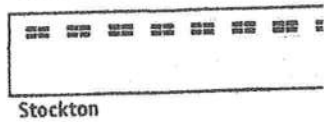
SHORT PANEL

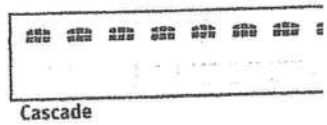

8 Piece Sunburst


2-4 Piece Sunburst

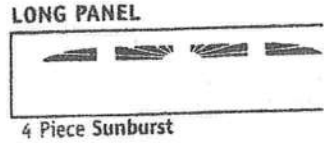

Cathedral

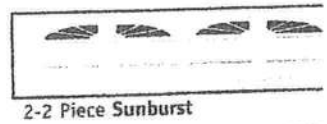

Sherwood

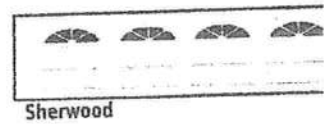

Stockton

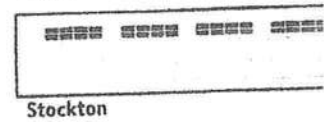

Cascade

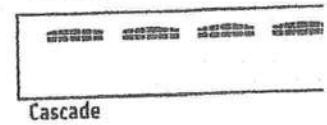
LONG PANEL

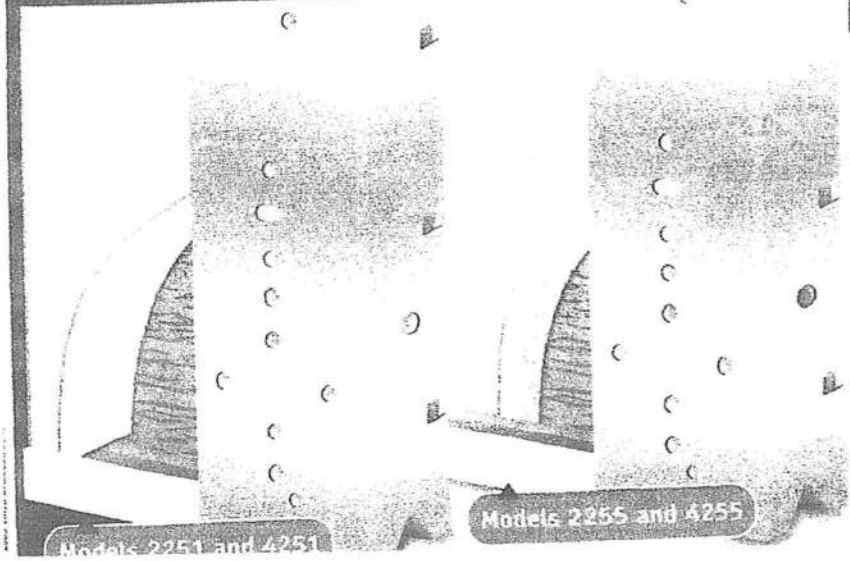

4 Piece Sunburst


2-2 Piece Sunburst


Sherwood


Stockton


Cascade



C.H.I. Doors Distributed by:

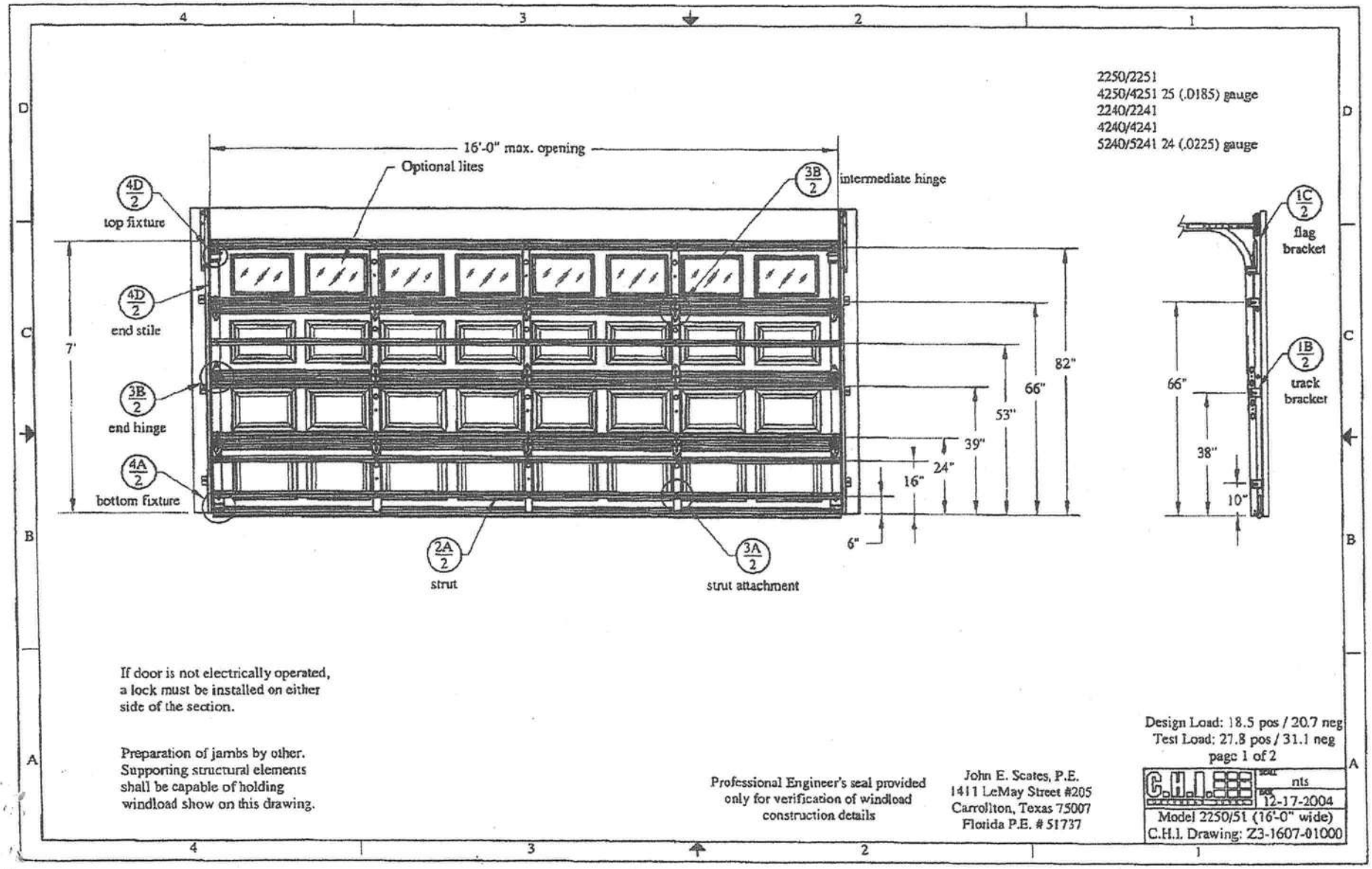
See your distributor for information about C.H.I.'s **Limited Lifetime Warra**
C.H.I. doors are manufactured in Arthur, Illinois, USA.

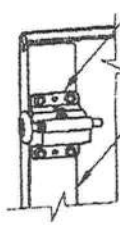
* Refer to samples at your local C.H.I. Distributor for exact color match.

** For all available window options, please see our Glass Options Brochure, or visit your

C.H.I. OVERHEAD DOORS
1485 SUNRISE DRIVE, ARTHUR, I
www.chiohd.com

FL 3610 STATIC WIND LOAD #





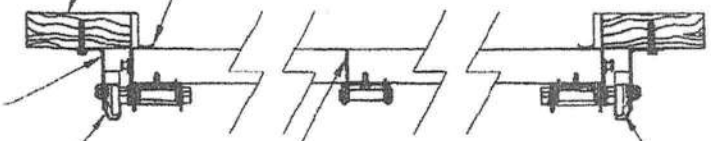
14 gauge (.070) galvanized steel top fixture manufactured by C.H.I. Each fixture attached with four 1/4" x 3/4" screws.

20 gauge (.036) end stile manufactured by C.H.I.

Strut, if applicable, not shown for clarity.

The 2x6 vertical wood jambs are to be grade 2 or better southern pine. Fasteners may be countersunk to provide a flush mounting surface.

2" x 7/16" (nominal) Stop molding required (not supplied by C.H.I.)



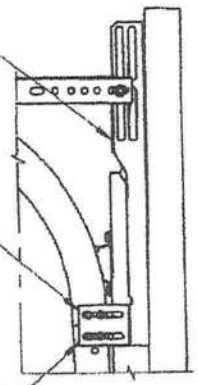
12 gauge (.097) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

20 gauge (.036) center stile manufactured by C.H.I.

2" steel roller

2" x .051 min. galvanized steel track fastened to track brackets. Each track bracket attached with one 1/4" x 5/8" track bolt and nut.

Details on some views may have been omitted for clarity.

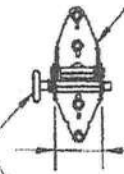


12 gauge (.097) galvanized steel flag bracket fastened to wood jamb with four 5/16" x 1-5/8" wood lag screws.

Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts.

End Hinge
16 gauge (.055) galvanized steel end hinge fastened to section with four 1/4" x 3/4" screws.

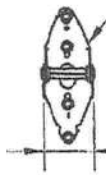


2" steel track roller.

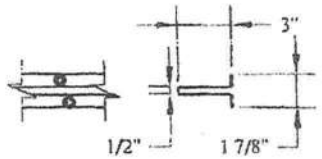
2 3/4"

3-1/2' (min.) stem

Intermediate Hinge
16 gauge (.055) galvanized steel intermediate hinge fastened to section with four 1/4" x 3/4" screws.



2 3/4"

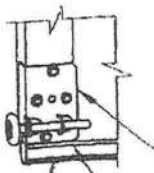


3"

1/2"

1 7/8"

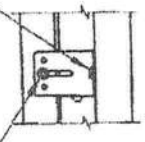
20 gauge (.034) 33 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.



12 gauge (.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

Vinyl weatherstrip

Aluminum extrusion



12 gauge (.097) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

Design Load: 19.2 pos / 22.0 neg
Test Load: 28.8 pos / 33.0 neg
page 2 of 2

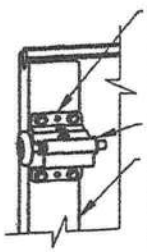
Professional Engineer's seal provided only for verification of windload construction details

John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

C.H.I.

SCALE nts
DATE 12-17-2004

Model 2250/51 (9'-0" wide)
C.H.I. Drawing: Z3-0907-01000



14 gauge (.070) galvanized steel top fixture manufactured by C.H.I. Each fixture attached with four 1/4" x 3/4" screws.

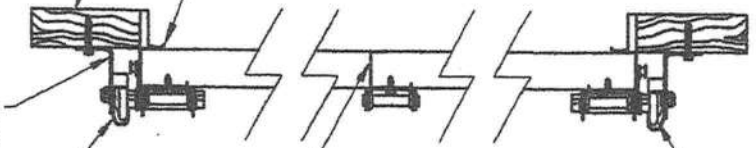
push nut

20 gauge (.036) end stile manufactured by C.H.I.

Strut, if applicable, not shown for clarity.

The 2x6 vertical wood jambs are to be grade 2 or better Southern Pine. Fasteners may be countersunk to provide a flush mounting surface.

2" x 7/16" (nominal) Stop molding required (not supplied by C.H.I.)

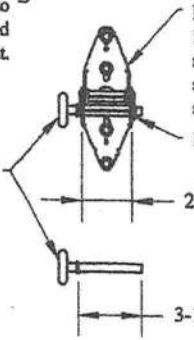


12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

20 gauge (.036) center stile manufactured by C.H.I.

2" steel roller

2" x .051 min. galvanized steel track fastened to track brackets. Each track bracket attached with one 1/4" x 5/8" track bolt and nut.



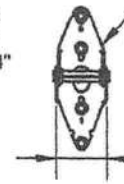
End Hinge
14 gauge (.069) galvanized steel end hinge fastened to section with four 1/4" x 3/4" screws.

push nut

2" steel track roller.

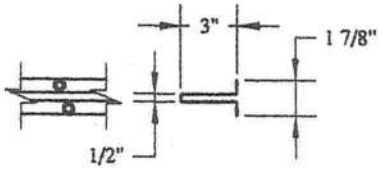
2 3/4"

3-1/2" (min.) stem3 1/2"



Intermediate Hinge
18 gauge (.047) galvanized steel intermediate hinge fastened to section with four 1/4" x 3/4" screws.

2 3/4"

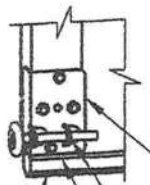


3"

1 7/8"

1/2"

18 gauge (.047) 50 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.



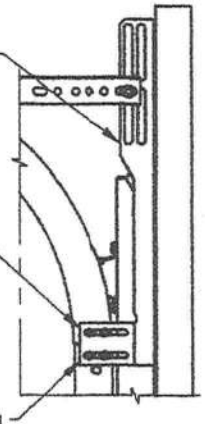
12 gauge (.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

Vinyl weatherstrip

push nut

Aluminum extrusion

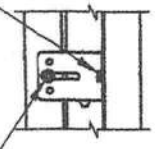
Details on some views may have been omitted for clarity.



12 gauge (.086) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.

Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts.



12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

Design Load: 30 pos / 33.5 neg
Test Load: 45 pos / 50.3 neg
page 2 of 2

Professional Engineer's seal provided only for verification of windload construction details

John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

C.H.I.

SCALE nts

DATE 8-15-2005

Model 2250/51 (18'-0" wide)
C.H.I. Drawing: Z6-1807-01000

FLORIDA DEPARTMENT OF Community Affairs

FLORIDA DEPARTMENT OF Community Affairs

Product Approval

USER: Public User

FL #	FL250-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	
Product Manufacturer	CertainTeed Corporation-Roofing
Address/Phone/Email	PO Box 1100 1400 Union Meeting Rd Blue Bell, PA 19422 (610) 341-6678 allan.r.snyder@saint-gobain.com
Authorized Signature	Richard Snyder allan.r.snyder@saint-gobain.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Miami-Dade BCCO - CER

Referenced Standard and Year (of Standard)	**Standard** ASTM D3462 ASTM E108 TAS 100 TAS 107 TAS 110 UL 790
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	09/08/2005
Date Validated	09/08/2005
Date Pending FBC Approval	09/27/2005
Date Approved	10/11/2005

Summary of Products

FL #	Model, Number or Name	Description
250.1	Carriage House Shangle	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** PTID_250_R1_I_010503(Series.pdf PTID_250_R1_I_010516(PTID_250_R1_I_010612(PTID_250_R1_I_020110(Series.pdf PTID_250_R1_I_021216(CT20_XT25_XT30_Patriot PTID_250_R1_I_021219(Series.pdf PTID_250_R1_I_040616(Grand Manor.pdf Verified By:
250.2	Classic Horizon Shangle	Fiberglass 3 tab overlay s
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:

250.3	CT 20 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.4	Grand Manor Shangle	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.5	Hatteras	Fiberglass 4 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.6	Landmark 30 (and AR)	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.7	Landmark 40 (and AR)	Fiberglass laminate shingl
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.8	Landmark 50 (and AR)	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instruction** Verified By:
250.9	Landmark TL	Fiberglass laminated shin
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:**		**Certification Agency Ce** **Installation Instruction** Verified By:

Impact Resistant: **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		
250.10	Patriot AR	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.11	Presidential Shake (and AR)	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.12	Presidential Shake TL	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.13	Presidential Shake TL AR	Fiberglass architectural sh
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.14	XT 25 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:
250.15	XT 30 (and AR)	Fiberglass 3 tab shingle
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** Refer to current Miami-Dade NOA.		**Certification Agency Ce** **Installation Instructior** Verified By:

Back Next

DCA Administration

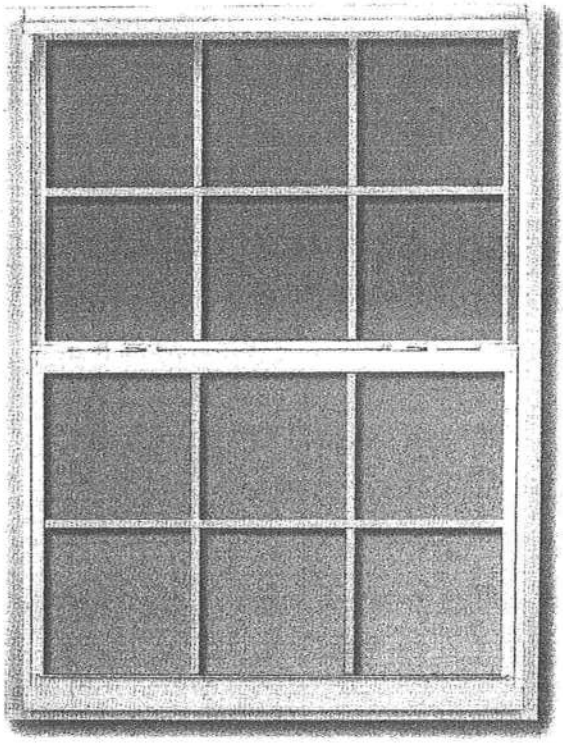
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

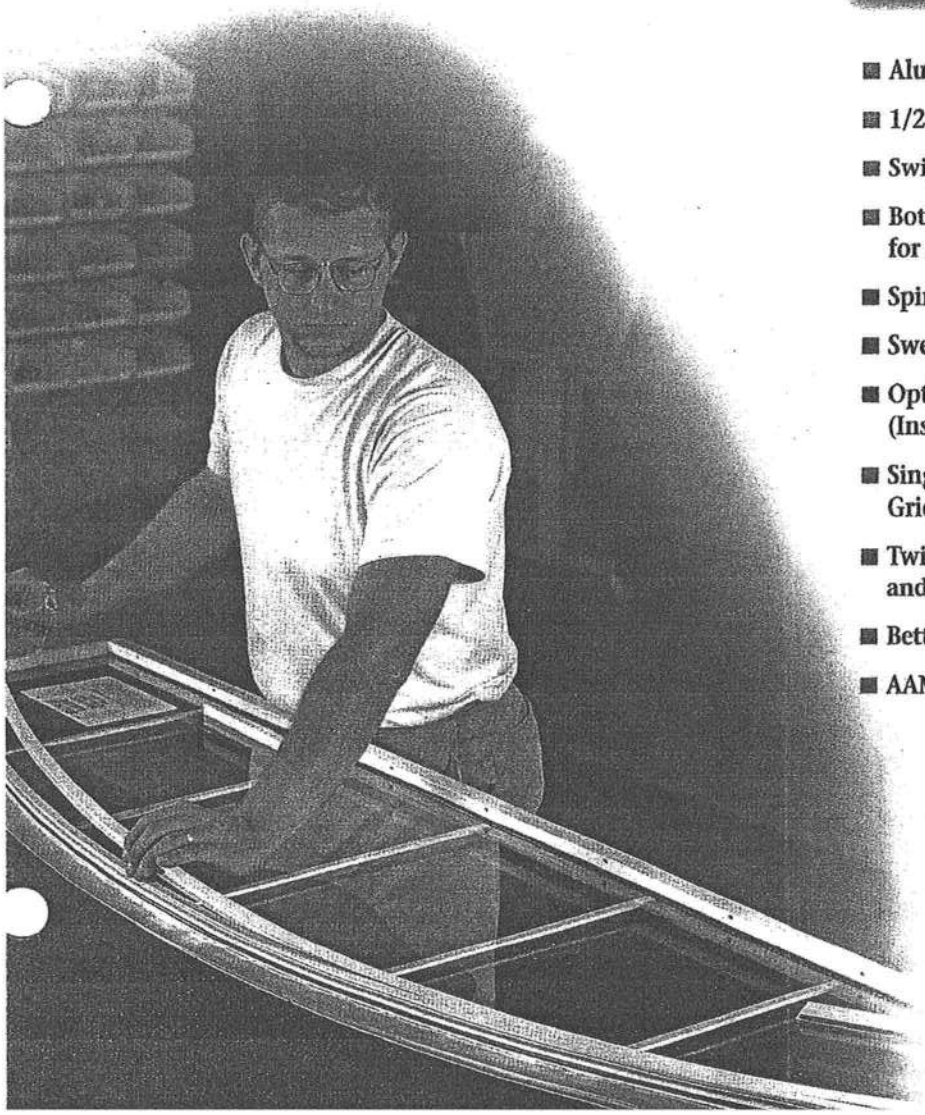
Product Approval Accepts:

SERIES

740

Insulated Single Hung Aluminum Windows



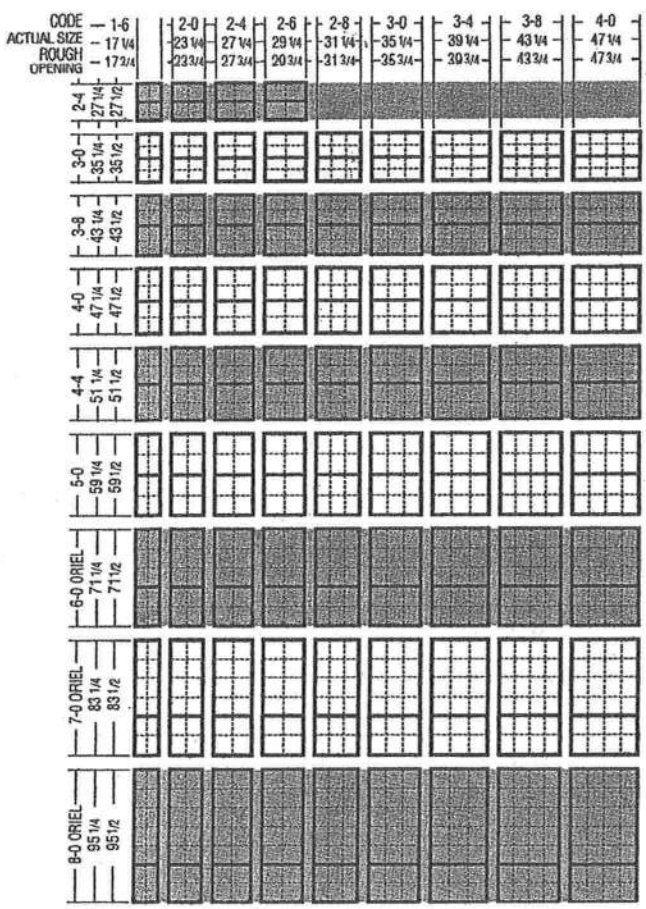


- Aluminum Single Hung Window
- 1/2" Insulated Glass
- Swiggle® Seal Glass Spacer System
- Bottom Sash Tilts, Top Sash Removable for Drywall Pass-Through
- Spiral Balances
- Sweep Lock System at Meeting Rail
- Optional Decorative Grids Between the Glass (Insulated Glass Units)
- Single Glazed Available with Snap-In Grid System
- Twin and Triple Units in One Continuous Header and Sill Frame
- BetterBilt 10 Year Limited Warranty
- AAMA Labeled and NFRC Certified

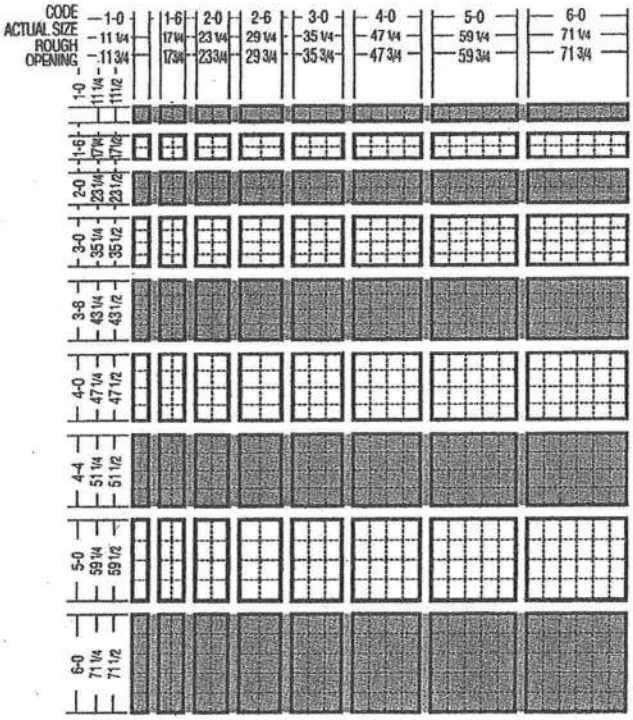
BetterBilt®
DOORS AND WINDOWS

740 Insulated Single Hung Aluminum Windows

SINGLE HUNG WINDOW SIZES

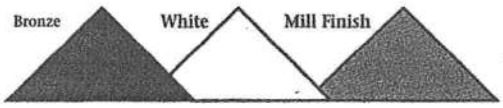


PICTURE WINDOW SIZES



Also available: Series 744 High Performance Window with DH-R50 Rating

Colors



AAMA MEMBER

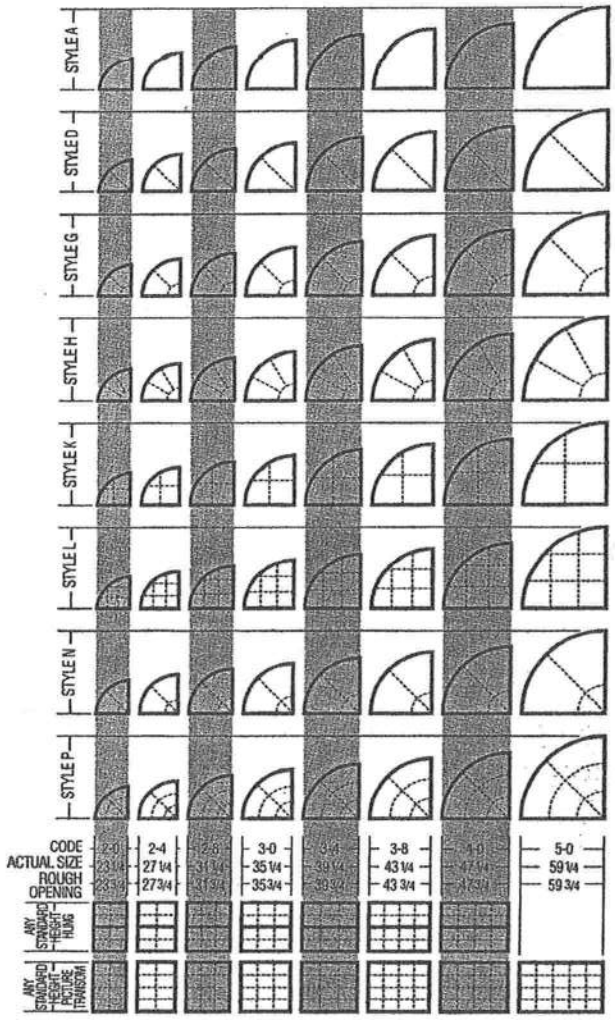
QUALITY CONTROL & TESTING
AAMA CERTIFICATION PROGRAM
ACCREDITED BY: AMERICAN NATIONAL STANDARDS INSTITUTE
Validator: ALI®
CODE: BB-1

NFRC National Fenestration Rating Council CERTIFIED

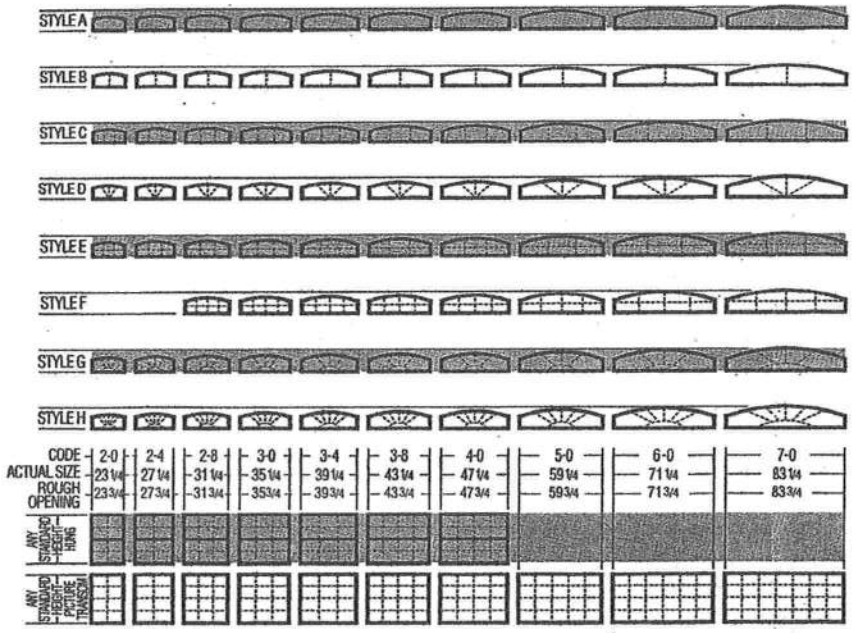
energy EPA DOE

Some products may require special glazing options to meet certain Energy Star criteria. Contact your sales representative for more information.

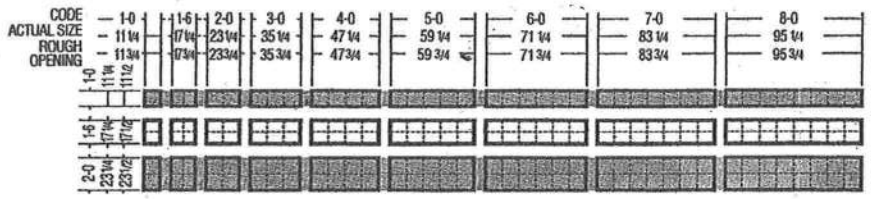
QUARTER CIRCLE WINDOW SIZES



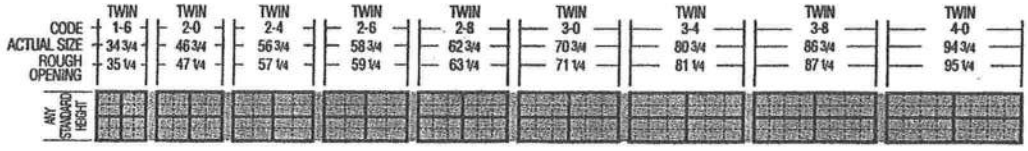
EYEBROW WINDOW SIZES



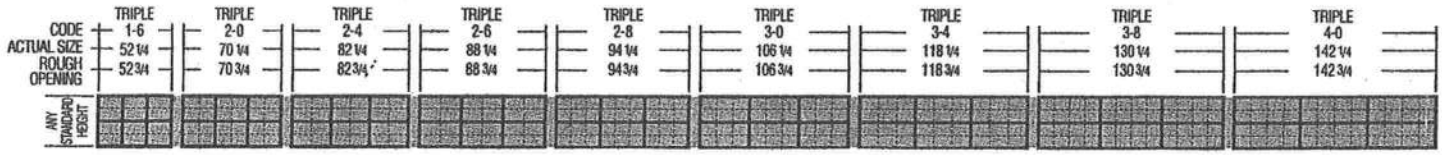
TRANSOM WINDOW SIZES



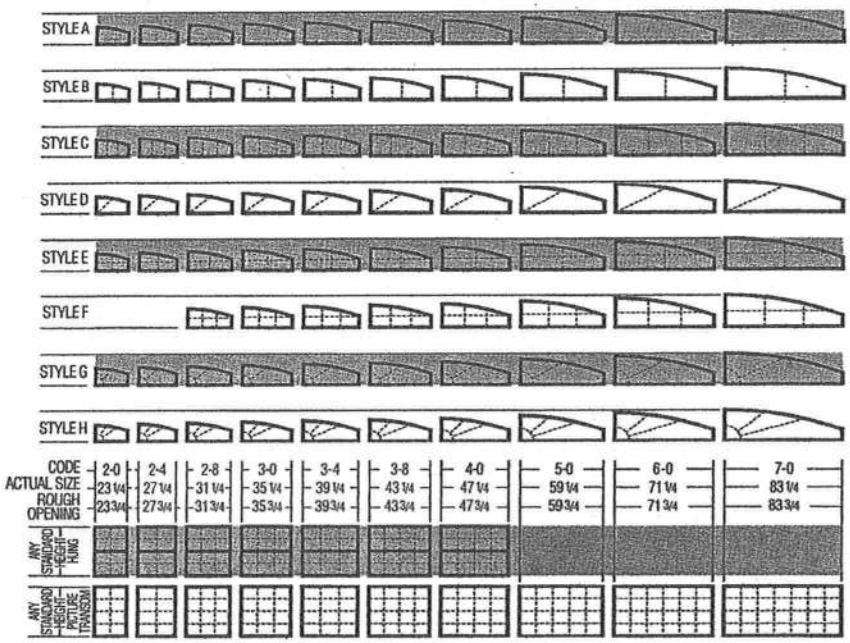
TWIN SINGLE HUNG UNIT SIZES



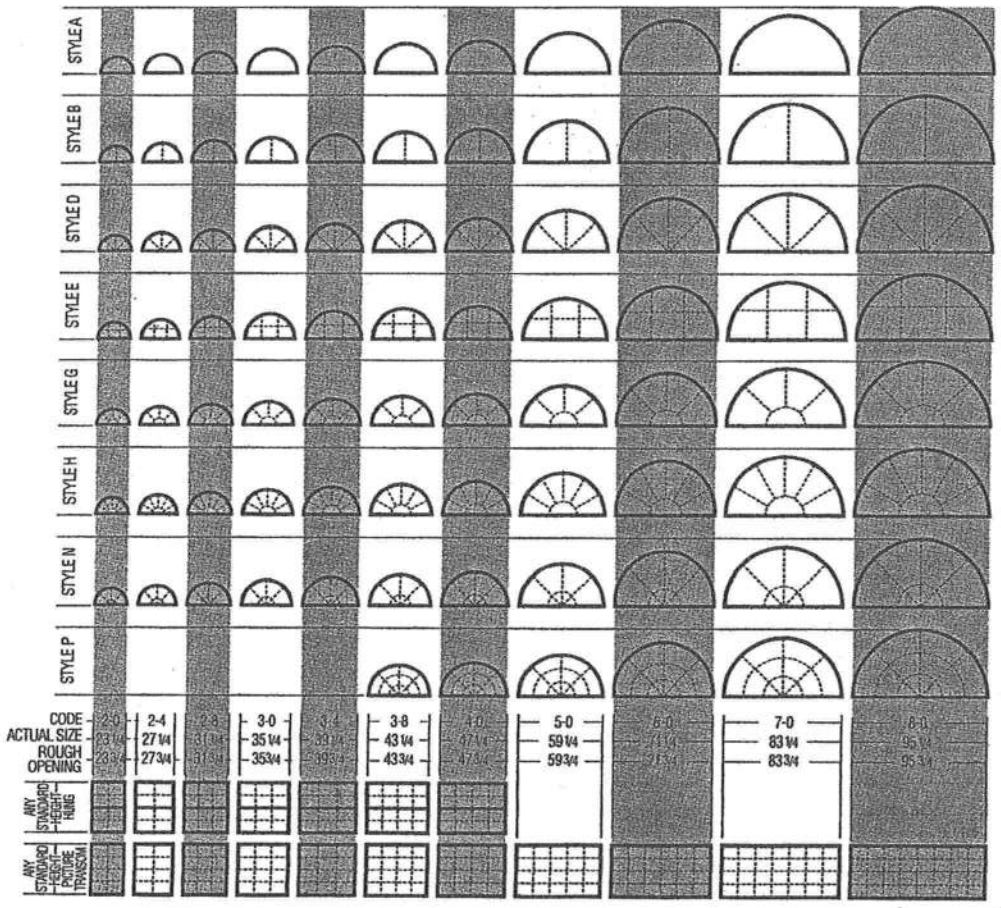
TRIPLE SINGLE HUNG UNIT SIZES



HALF EYEBROW WINDOW SIZES



CIRCLE TOP WINDOW SIZES



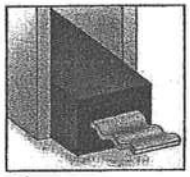
Swiggle® Seal Glass Spacer System

Swiggle Seal is a revolutionary seal system which works two ways to prevent condensation and the transference of heat and cold between panes of glass:

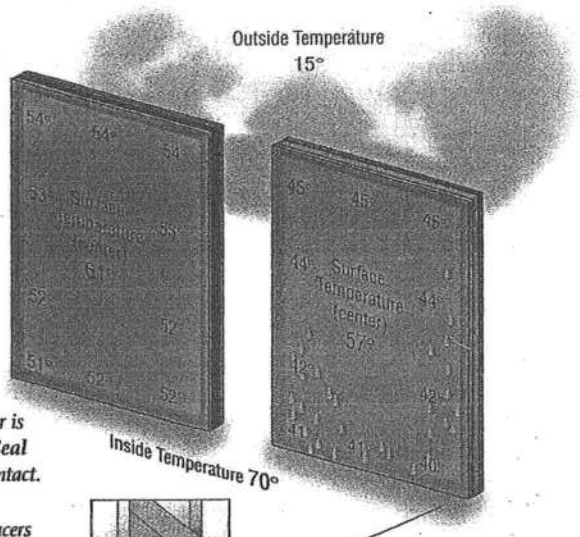
1 The advanced seal uses a specially formulated desiccant to actually absorb stray moisture and prevent damaging condensation.

2 A corrugated aluminum spacer is completely surrounded by the seal, eliminating the conductive metal to glass contact that causes traditional windows to lose much of their insulating properties.

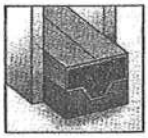
You'll enjoy a clearer view and less energy loss with BetterBilt windows using Swiggle Seal.



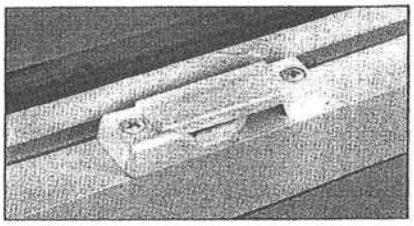
A corrugated aluminum spacer is encapsulated in the Swiggle Seal to eliminate glass to metal contact.



Traditional aluminum spacers directly contact the glass and allow heat and cold to be conducted through the window.

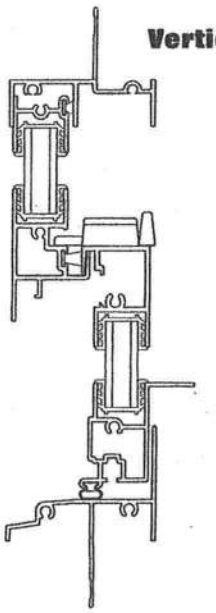


Bottom sash tilts for easy cleaning.

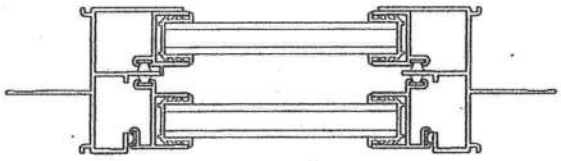


Two sweep locks at the meeting rail provide extra security.

Vertical Detail

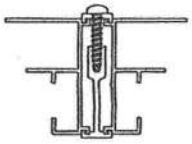


Horizontal Detail



Mullion Available

TWO PIECE MULL SYSTEM
INTERIOR-558, EXTERIOR-557, #10 x 1" SCREW
1/4" ADD ON



SINGLE HUNG OPENING SPECIFICATIONS

CODE SIZE	ACTUAL WINDOW SIZE	SASH RAISED Clear Opening Sq. Ft.	SASH RAISED Clear Opening Width x Height	SCREEN SIZE Width x Height	TOP GLASS SIZE Width x Height	BTM GLASS SIZE Width x Height
1624	17 1/4 x 27 1/4	1.01	14 1/2 x 10 1/16	15 1/8 x 13 7/16	15 x 11 3/4	15 x 11 3/4
1630	17 1/4 x 35 1/4	1.42	14 1/2 x 14 1/16	15 1/8 x 17 7/16	15 x 15 3/4	15 x 15 3/4
1638	17 1/4 x 43 1/4	1.82	14 1/2 x 18 1/16	15 1/8 x 21 7/16	15 x 19 3/4	15 x 19 3/4
1640	17 1/4 x 47 1/4	2.02	14 1/2 x 20 1/16	15 1/8 x 23 7/16	15 x 21 3/4	15 x 21 3/4
1644	17 1/4 x 51 1/4	2.22	14 1/2 x 22 1/16	15 1/8 x 25 7/16	15 x 23 3/4	15 x 23 3/4
1650	17 1/4 x 59 1/4	2.62	14 1/2 x 26 1/16	15 1/8 x 29 7/16	15 x 27 3/4	15 x 27 3/4
1660 Oriel	17 1/4 x 71 1/4	2.54	14 1/2 x 25 3/16	15 1/8 x 29 7/16	15 x 39 3/4	15 x 27 3/4
2024	23 1/4 x 27 1/4	1.43	20 1/2 x 10 1/16	21 1/8 x 13 7/16	21 x 11 3/4	21 x 11 3/4
2030	23 1/4 x 35 1/4	2.00	20 1/2 x 14 1/16	21 1/8 x 17 7/16	21 x 15 3/4	21 x 15 3/4
2038	23 1/4 x 43 1/4	2.57	20 1/2 x 18 1/16	21 1/8 x 21 7/16	21 x 19 3/4	21 x 19 3/4
2040	23 1/4 x 47 1/4	2.86	20 1/2 x 20 1/16	21 1/8 x 23 7/16	21 x 21 3/4	21 x 21 3/4
2044	23 1/4 x 51 1/4	3.14	20 1/2 x 22 1/16	21 1/8 x 25 7/16	21 x 23 3/4	21 x 23 3/4
2050	23 1/4 x 59 1/4	3.71	20 1/2 x 26 1/16	21 1/8 x 29 7/16	21 x 27 3/4	21 x 27 3/4
2060 Oriel	23 1/4 x 71 1/4	3.59	20 1/2 x 25 3/16	21 1/8 x 29 7/16	21 x 39 3/4	21 x 27 3/4
2424	27 1/4 x 27 1/4	1.71	24 1/2 x 10 1/16	25 1/8 x 13 7/16	25 x 11 3/4	25 x 11 3/4
2430	27 1/4 x 35 1/4	2.39	24 1/2 x 14 1/16	25 1/8 x 17 7/16	25 x 15 3/4	25 x 15 3/4
2438	27 1/4 x 43 1/4	3.07	24 1/2 x 18 1/16	25 1/8 x 21 7/16	25 x 19 3/4	25 x 19 3/4
2440	27 1/4 x 47 1/4	3.41	24 1/2 x 20 1/16	25 1/8 x 23 7/16	25 x 21 3/4	25 x 21 3/4
2444	27 1/4 x 51 1/4	3.75	24 1/2 x 22 1/16	25 1/8 x 25 7/16	25 x 23 3/4	25 x 23 3/4
2450	27 1/4 x 59 1/4	4.43	24 1/2 x 26 1/16	25 1/8 x 29 7/16	25 x 27 3/4	25 x 27 3/4
2460 Oriel	27 1/4 x 71 1/4	4.29	24 1/2 x 25 3/16	25 1/8 x 29 7/16	25 x 39 3/4	25 x 27 3/4
2624	29 1/4 x 27 1/4	1.85	29 1/2 x 10 1/16	27 1/8 x 13 7/16	27 x 11 3/4	27 x 11 3/4
2630	29 1/4 x 35 1/4	2.59	29 1/2 x 14 1/16	27 1/8 x 17 7/16	27 x 15 3/4	27 x 15 3/4
2638	29 1/4 x 43 1/4	3.32	29 1/2 x 18 1/16	27 1/8 x 21 7/16	27 x 19 3/4	27 x 19 3/4
2640	29 1/4 x 47 1/4	3.69	29 1/2 x 20 1/16	27 1/8 x 23 7/16	27 x 21 3/4	27 x 21 3/4
2644	29 1/4 x 51 1/4	4.06	29 1/2 x 22 1/16	27 1/8 x 25 7/16	27 x 23 3/4	27 x 23 3/4
2650	29 1/4 x 59 1/4	4.80	29 1/2 x 26 1/16	27 1/8 x 29 7/16	27 x 27 3/4	27 x 27 3/4
2660 Oriel	29 1/4 x 71 1/4	5.16	29 1/2 x 25 3/16	27 1/8 x 29 7/16	27 x 39 3/4	27 x 27 3/4
2830	31 1/4 x 35 1/4	2.78	28 1/2 x 14 1/16	29 1/8 x 17 7/16	29 x 15 3/4	29 x 15 3/4
2838	31 1/4 x 43 1/4	3.57	28 1/2 x 18 1/16	29 1/8 x 21 7/16	29 x 19 3/4	29 x 19 3/4
2840	31 1/4 x 47 1/4	3.97	28 1/2 x 20 1/16	29 1/8 x 23 7/16	29 x 21 3/4	29 x 21 3/4
2844	31 1/4 x 51 1/4	4.37	28 1/2 x 22 1/16	29 1/8 x 25 7/16	29 x 23 3/4	29 x 23 3/4
2850	31 1/4 x 59 1/4	5.16	28 1/2 x 26 1/16	29 1/8 x 29 7/16	29 x 27 3/4	29 x 27 3/4
2860 Oriel	31 1/4 x 71 1/4	4.99	28 1/2 x 25 3/16	29 1/8 x 29 7/16	29 x 39 3/4	29 x 27 3/4
3030	35 1/4 x 35 1/4	3.17	32 1/2 x 14 1/16	33 1/8 x 17 7/16	33 x 15 3/4	33 x 15 3/4
3038	35 1/4 x 43 1/4	4.08	32 1/2 x 18 1/16	33 1/8 x 21 7/16	33 x 19 3/4	33 x 19 3/4
3040	35 1/4 x 47 1/4	4.53	32 1/2 x 20 1/16	33 1/8 x 23 7/16	33 x 21 3/4	33 x 21 3/4
3044	35 1/4 x 51 1/4	4.98	32 1/2 x 22 1/16	33 1/8 x 25 7/16	33 x 23 3/4	33 x 23 3/4
3050	35 1/4 x 59 1/4	5.88	32 1/2 x 26 1/16	33 1/8 x 29 7/16	33 x 27 3/4	33 x 27 3/4
3060 Oriel	35 1/4 x 71 1/4	5.68	32 1/2 x 25 3/16	33 1/8 x 29 7/16	33 x 39 3/4	33 x 27 3/4
3070 Oriel	35 1/4 x 83 1/4	5.68	32 1/2 x 25 3/16	33 1/8 x 29 7/16	33 x 51 3/4	33 x 27 3/4
3080 Oriel	35 1/4 x 95 1/4	5.68	32 1/2 x 25 3/16	33 1/8 x 29 7/16	33 x 63 3/4	33 x 27 3/4
3430	39 1/4 x 35 1/4	3.56	36 1/2 x 14 1/16	37 1/8 x 17 7/16	37 x 15 3/4	37 x 15 3/4
3438	39 1/4 x 43 1/4	4.58	36 1/2 x 18 1/16	37 1/8 x 21 7/16	37 x 19 3/4	37 x 19 3/4
3440	39 1/4 x 47 1/4	5.09	36 1/2 x 20 1/16	37 1/8 x 23 7/16	37 x 21 3/4	37 x 21 3/4
3444	39 1/4 x 51 1/4	5.59	36 1/2 x 22 1/16	37 1/8 x 25 7/16	37 x 23 3/4	37 x 23 3/4
3450	39 1/4 x 59 1/4	6.61	36 1/2 x 26 1/16	37 1/8 x 29 7/16	37 x 27 3/4	37 x 27 3/4
3460 Oriel	39 1/4 x 71 1/4	6.38	36 1/2 x 25 3/16	37 1/8 x 29 7/16	37 x 39 3/4	37 x 27 3/4
3470 Oriel	39 1/4 x 83 1/4	6.38	36 1/2 x 25 3/16	37 1/8 x 29 7/16	37 x 51 3/4	37 x 27 3/4
3480 Oriel	39 1/4 x 95 1/4	6.38	36 1/2 x 25 3/16	37 1/8 x 29 7/16	37 x 63 3/4	37 x 27 3/4
3830	43 1/4 x 35 1/4	3.96	40 1/2 x 14 1/16	41 1/8 x 17 7/16	41 x 15 3/4	41 x 15 3/4
3838	43 1/4 x 43 1/4	5.08	40 1/2 x 18 1/16	41 1/8 x 21 7/16	41 x 19 3/4	41 x 19 3/4
3840	43 1/4 x 47 1/4	5.64	40 1/2 x 20 1/16	41 1/8 x 23 7/16	41 x 21 3/4	41 x 21 3/4
3844	43 1/4 x 51 1/4	6.21	40 1/2 x 22 1/16	41 1/8 x 25 7/16	41 x 23 3/4	41 x 23 3/4
3850	43 1/4 x 59 1/4	7.33	40 1/2 x 26 1/16	41 1/8 x 29 7/16	41 x 27 3/4	41 x 27 3/4
3860 Oriel	43 1/4 x 71 1/4	7.08	40 1/2 x 25 3/16	41 1/8 x 29 7/16	41 x 39 3/4	41 x 27 3/4
3870 Oriel	43 1/4 x 83 1/4	7.08	40 1/2 x 25 3/16	41 1/8 x 29 7/16	41 x 51 3/4	41 x 27 3/4
3880 Oriel	43 1/4 x 95 1/4	7.08	40 1/2 x 25 3/16	41 1/8 x 29 7/16	41 x 63 3/4	41 x 27 3/4
4030	47 1/4 x 35 1/4	4.35	44 1/2 x 14 1/16	45 1/8 x 17 7/16	45 x 15 3/4	45 x 15 3/4
4038	47 1/4 x 43 1/4	5.58	44 1/2 x 18 1/16	45 1/8 x 21 7/16	45 x 19 3/4	45 x 19 3/4
4040	47 1/4 x 47 1/4	6.20	44 1/2 x 20 1/16	45 1/8 x 23 7/16	45 x 21 3/4	45 x 21 3/4
4044	47 1/4 x 51 1/4	6.82	44 1/2 x 22 1/16	45 1/8 x 25 7/16	45 x 23 3/4	45 x 23 3/4
4050	47 1/4 x 59 1/4	8.05	44 1/2 x 26 1/16	45 1/8 x 29 7/16	45 x 27 3/4	45 x 27 3/4
4060 Oriel	47 1/4 x 71 1/4	7.78	44 1/2 x 25 3/16	45 1/8 x 29 7/16	45 x 39 3/4	45 x 27 3/4
4070 Oriel	47 1/4 x 83 1/4	7.78	44 1/2 x 25 3/16	45 1/8 x 29 7/16	45 x 51 3/4	45 x 27 3/4
4080 Oriel	47 1/4 x 95 1/4	7.78	44 1/2 x 25 3/16	45 1/8 x 29 7/16	45 x 63 3/4	45 x 27 3/4

BetterBilt DOORS AND WINDOWS

BetterBilt Doors & Windows
East Region: 704 12th Avenue • Smyrna, TN 37167 • 1-800-545-5413 • Fax: 1-800-255-8106
West Region: 7555 East Highway 69 • Prescott Valley, AZ 86314 • 1-800-468-0304 • Fax: 1-800-635-2718
www.mihomeproducts.com

A division of MI Home Products, Inc.

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

BetterBilt Nail Fin Alum Windows.pdf
PTID_5418_I_Installation instructions - BetterBilt Nail Fin Vinyl Windows.pdf
PTID_5418_I_Installation instructions - Capitol Nail Fin Alum Windows.pdf
PTID_5418_I_Installation instructions - Capitol Nail Fin Vinyl Windows.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 10/14/2005
Date Approved: 10/17/2005
Date Certified to the 2004 Code:

Page: Go

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App/Seq #	Product Model # or Name	Model Description	Limits of Use
5418.1	165 Fin Frame	72x72 Single Glazed 3/16" Tempered	C-35 DP -47.2 Per manufacturers installation instructions.
5418.2	165 Fin Frame	71x71 Single Glazed DSB Tempered	R-45 DP -47.2 Per manufacturers installation instructions.
5418.3	165 Fin Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.4	165 Flange Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.5	165/3000 Flange Beveled Frame	72x72 Single Glazed 3/16" Tempered	C-45 DP -47.2 Per manufacturers installation instructions.
5418.6	4300/4340 Fin Frame	60x72 DSB Annealed	LC-45 DP -50 Per manufacturers installation instructions.
5418.7	4300/4340 Fin Frame	48x48 SSB Annealed	LC-60 DP -60 Per manufacturers installation instructions.
5418.8	4300/4340 Fin Frame	65x84 DSB Annealed	LC-30 DP -35 Per manufacturers installation instructions.
5418.9	650 Flange Frame	60x80 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.10	740 Fin Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.11	740 Fin Frame	71x71 Single Glazed DSB Tempered	R-45 DP -47.2 Per manufacturers installation instructions.
5418.12	740 Flange Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.

5418.13	740 Flange Frame	71x71 Insulated DSB Tempered	R-35 DP -45.3 Per manufacturers installation instructions.
5418.14	740 Flange Frame	59x72 Insulated 3/16" Annealed	R-45 DP -47.2 Per manufacturers installation instructions.
5418.15	740/3740 Flange Frame	109x53 Single Glazed DSB Tempered	R-40 DP -40 Per manufacturers installation instructions.
5418.16	8500 Fin Frame	65x84 Insulated DSB Annealed	R-30 DP -40 Per manufacturers installation instructions.
5418.17	8500/1250 Finless Frame	72x96 Insulated DSB Tempered	R-30 DP -35 Per manufacturers installation instructions.
5418.18	8500/1250 Finless Frame	62x80 Insulated DSB Annealed	R-45 DP -45 Per manufacturers installation instructions.
5418.19	8500/1250 Finless Frame	48x48 Insulated DSB Annealed	R-65 DP -70 Per manufacturers installation instructions.
5418.20	Insight Series	62x63 Insulated DSB Annealed	R-25 DP -34.7 Per manufacturers installation instructions.

Next

Hung Windows.pdf
PTID_5438_I_Installation instructions - BetterBilt Nail Fin Alum Windows.pdf
PTID_5438_I_Installation instructions - BetterBilt Nail Fin Vinyl Windows.pdf
PTID_5438_I_Installation instructions - Capitol Nail Fin Alum Windows.pdf
PTID_5438_I_Installation instructions - Capitol Nail Fin Vinyl Windows.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 10/14/2005
Date Approved: 10/17/2005
Date Certified to the 2004 Code:

App/Seq #	Product Model # or Name	Model Description	Limits of Use
5438.21	740/3740 Fin Frame	52x71 Insulated DSB Annealed	R-45 DP-47.2 Per manufacturers installation instructions.
5438.22	740/3740 Fin Frame	52x71 Single Glazed 3/16" Annealed	R-35 DP-47.2 Per manufacturers installation instructions.
5438.23	740/3740 Fin Frame Oriel	52x71 Single Glazed 3/16" Annealed	R-35 DP-47.2 Per manufacturers installation instructions.
5438.24	740/3740 Fin Frame Oriel	47x89 Single Glazed 3/16" Annealed	R-35 DP-47.2 Per manufacturers installation instructions.
5438.25	740/3740 Fin Frame Oriel	39x90 Single Glazed 3/16" Annealed Sash / DSB Tempered Fixed	R-35* DP-47.2 Per manufacturers installation instructions.
5438.26	740/3740 Flange Frame	52x71 Single Glazed DSB Tempered	R-45 DP-47.2 Per manufacturers installation instructions.
5438.27	740/3740 Flange Frame	52x71 Insulated DSB Annealed	R-45 DP-47.2 Per manufacturers installation instructions.
5438.28	740/3740 Flange Frame	53x72 Single Glazed 3/16" Annealed	R-25 DP-34.7 Per manufacturers installation instructions.
5438.29	740/3740 Flange Frame Oriel	47x89 Single Glazed DSB Tempered	R-35 DP-42.9 Per manufacturers installation instructions.
5438.30	740/3740 Flange Frame Oriel	47x89 Insulated 3/16" Annealed	R-35 DP-42.7 Per manufacturers installation instructions.
	740/3740 Flange Frame	36x88 Insulated 3/16" Annealed	R-35* DP-47.2 Per

PRODUCT APPROVAL SPECIFICATION SHEET

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	THERMA-TRU	EXT FIBERGLASS 1 3/4	FL-5262
A. SWINGING	" "	EXT STEEL 1 3/4	
B. SLIDING			
C. SECTIONAL/ROLL UP	RAYNOR		FL 3610
D. OTHER			
2. WINDOWS	BETTER-BILT	SERIES 740 FRAME FIN	FL 5438.23
A. SINGLE/DOUBLE HUNG	N/A		
B. HORIZONTAL SLIDER	N/A		
C. CASEMENT			
D. FIXED	N/A		
E. MULLION	BETTER-BILT	SERIES 740 FRAME FIN	FL 5438.23
F. SKYLIGHTS	N/A		
G. OTHER	N/A		
3. PANEL WALL			
A. SIDING	JAMES HARDI	7 1/4 X 12 PLANK	FL 889, 122
B. SOFFITS	REYNOLDS	VENTED ALUM	
C. STOREFRONTS	N/A		
D. GLASS BLOCK	N/A		
E. OTHER	N/A		
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	CERTAIN-TEED	ARCHITECTURAL 30 YR	FL 250-R-1
B. NON-STRUCT METAL			
C. ROOFING TILES	N/A		
D. SINGLE PLY ROOF	N/A		
E. OTHER	FELT TAMKO	30 LB. ASPHALT	FL 1814.3
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	Simpson/Hughes	AS PER STRUCTURAL ENG	
B. WOOD ANCHORS		AS PER " "	
C. TRUSS PLATES		AS PER TRUSS ENG	
D. INSULATION FORMS	N/A		
E. LINTELS	N/A		
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.	G.P.	7/16 4X10 WINDSTORM OSB	

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

APPLICANT SIGNATURE

DATE

R-1305 01-04