DATE 06/06/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027069

APPLICANT FRANK ABRAM PHONE 615 740-1543

ADDRESS 1231 NELSON ROAD DICKSON FL 37055

OWNER FRANK ABRAM PHONE 615 740-1543

ADDRESS 734 SW FEATHER LANE FT. WHITE FL 32038

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 47S,TL ON C138, TL ON LYN SHERMAN, TL ON FEATHER, 3RD
ENTRANCE ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 100000.00

HEATED FLOOR AREA 1696.00 TOTAL AREA 2000.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 4/12 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. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 25-7S-16-04321-020 SUBDIVISION RUM ISLAND RANCHES UNREC.

LOT 46 BLOCK PHASE UNIT 0 TOTAL ACRES 10.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
PRIVATE	07-897	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD

Check # or Cash 1308

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 $ 500.00 CERTIFICATION FEE $ 10.00 SURCHARGE FEE $ 10.00

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** 595.00

INSPECTORS OFFICE Gale Tedder CLERKS OFFICE CH

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Date	Inspection	Inspect.	Owner	Pass	Location	Perm
12/04/08	Footer	Harry	Frank Abram	Not Ready	Rum Island Ranches Lot 46	2706
12/04/08	Set Backs	Harry	Frank Abram	OK	Rum Island Ranches Lot 46	2706
12/15/08	Footer	Randy	Frank Abram	Not Ready	Rum Island Terrace Lot 46	2706
12/15/08	Set Backs	Randy	Frank Abram	OK	Rum Island Terrace Lot 46	2706
12/15/08	Temp Service	Randy	Frank Abram	Power On	Rum Island Terrace Lot 46	2706

27069

NO Inspections in 2009

1231 Nelson Rd.
Dickson, TN 37055
November 20, 2008

Joe Haltiwanger
35 N. Hernando St.
POB 1529
Lake City, FL 32056

RE: Building Permit 27069
734 SW Feather Lane
Ft. White, FL 32038

Dear Mr. Haltiwanger:

Due to the decline in the economy and having to commute approximately 700 miles from TN to FL, I am requesting an extension on the first 180-day inspection on the above building permit number that is due approximately December 6, 2008.

Sincerely,

Frank Abram

27069

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 25-7S-16-04321-020

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*: Rum Island Ranches Lot 46
   a) Street *(job)* Address: 734 Feather Ln. S/W
2. General description of improvements: Construction of 1600 Sq ft Home
3. Owner Information
   a) Name and address: 1231 Nelson Rd Dickson TN 37055 Frank/Betty Abram
   b) Name and address of fee simple titleholder (if other than owner) N/A
   c) Interest in property 100%
4. Contractor Information
   a) Name and address: Owner Builder (Frank Abram)
   b) Telephone No.: 615-740-1543 Fax No. (Opt.) 615-740-1543
5. Surety Information
   a) Name and address:
   b) Amount of Bond: None N/A
   c) Telephone No.:
6. Lender
   a) Name and address: None
   b) Phone No.

Inst:200812010850 Date:6/6/2008 Time:3:47 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1151 P:2636

7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: Denis Taylor
   b) Telephone No.: 386-462-1036 Fax No. (Opt.)
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b). Florida Statutes:
   a) Name and address: N/A
   b) Telephone No.: Fax No. (Opt.)
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified):**

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. [signature]
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

FRANK ABRAM
Print Name

The foregoing instrument was acknowledged before me, a ~~Florida~~ Tennessee Notary, this 17th day of January, 2008, by:

Frank Abram as OWNER **(type of authority, e.g. officer, trustee, attorney fact) for** Frank Abram, Owner **(name of party on behalf of whom instrument was executed).**

Personally Known ✓ OR Produced Identification ____ Type ____

Notary Signature Pamelia Gail Higgins Notary Stamp or Seal:

PAMELIA GAIL HIGGINS
STATE OF TENNESSEE
NOTARY PUBLIC
COUNTY OF DICKSON

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

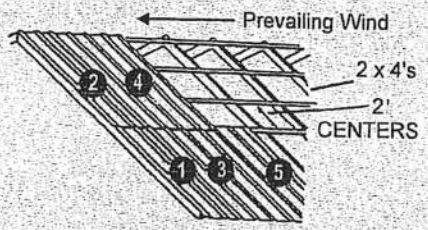
[signature]
Signature of Natural Person Signing (in line #10 above.)

Installation Instructions for MasterRib®

Roofing

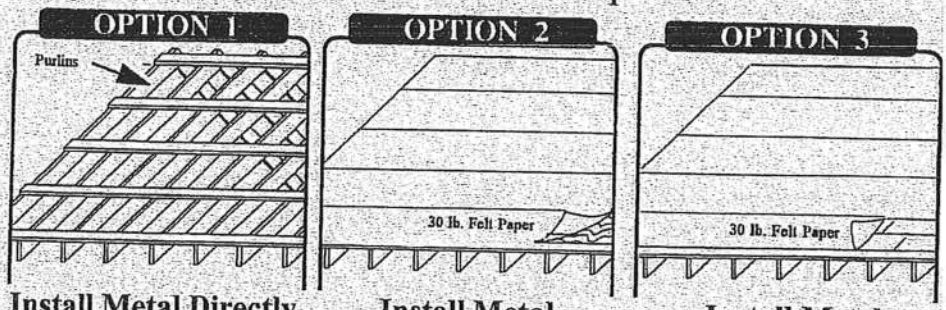
Slopes of less than 3" in 12" are not recommended. For slopes of 3" on 12" or greater, end lap panels 6". Side laps should face away from the prevailing wind. Lay the first sheet along the eave at the down-wind side of the roof, farthest away fro the direction of the prevailing winds. (See Figure #4). Install sheets in the sequence shown in Figure #4.

Figure #4



Maximum purlin spacing for roof 2' on center

Figure #5 - Installation Options



Install Metal Directly To Wood Frame
- Use Maximum 2' Purlin Spacing
- Install Metal

**DO NOT USE THIS OPTION FOR HEATED SPACES

Install Metal On Solid Deck
- Lay Plywood Deck
- Apply 30 lb. felt paper
- Install Metal

Install Metal Over Existing Shingle
- Apply 30 lb felt paper
- Install Metal

***Proper ventilation and vapor barrier protection recommended for heated spaces.**

Allow an overhang of 2" at the eave to provide for a drip edge. Use inside closure at eave to prevent insect or bird infestation at openings.

To protect against uplifting winds and to provide a finished appearance, apply rake trim or other standard gable trim. Apply fasteners eve 6-10".

14" ridge roll or ridge cap is recommended to prevent leakage. Seal off ridge and panel using outside closure strip.

Use of 3/8" side lap tape is recommended. Apply the tape as shown in Figure #6 along the top of all lap ribs. Do not block the siphon chann with the tape. For best results, apply a 7/8" lap tek screw into the crown of the rib to secure the side lap.

Figure #6 - Proper Application of Side Lap Tape

Siding

For best results, start siding at a door, window or other opening in the wall. Use corner trim, base molding, eave trim, and other trim to improve the weather-tightness and appearance of the structure.

ALLOWABLE UNIFORM LOADS PER SQUARE FOOT

Maximum purlin spacing for roof 2' on center and maximum girt spacing for sidewall 3' on center.
Place fasteners in the pan of panel for best results.
(Three Spans or More)

	LIVE LOADING							WIND UPLIFT LOADING						
Span (inches)	18"	24"	30"	36"	48"	60"	72"	18"	24"	30"	36"	48"	54"	72"
29 Gauge	200	112	72	50	28	18	14	281	158	101	70	40	25	18
26 Gauge	268	151	97	67	38	24	24	368	207	132	92	52	33	23

NOTES:
The panel weight has been deducted from the allowable stress values.
The wind uplift stress values have been increased by 33-1/3%.
The properties and load tables are for the panel alone.
The panel section properties have been calculated in accordance with the 1996 AISI Specification.
Steel panel material conforms to ASTM A446-85.

MasterRib® UL Ratings: UL2218 Impact Resistance Class 4 --- UL790 Fire Resistance Class A
26 Ga MasterRib® Metro-Dade County, FL Approval NOA #02-0726.06, Florida Code Approval #FL72 and ASCE 7-98 Compliant (meets FL Bldg Code); 29 Ga MasterRib® Florida Code Approval #FL2287

It is the users responsibility to verify all applicable code requirements for the area, check all measurements, and determine suitability of product for job. IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR PARTICULAR PURPOSE ARE DISCLAIMED.

Installation Instructions for MasterRib®

Storage

If metal is not to be used immediately, store inside in a well ventilated, dry location. Condensation or other moisture can form between the sheets during storage causing water stains or white rust which detract from the appearance of the product and may affect the product's useful life. **Trapped moisture between sheets of painted metal can cause white rust to form underneath the paint. This can cause the paint to flake off the panel immediately or several years later.** To prevent white rust and staining, break the shipping bands on the material. Store the material on end or on an incline of at least 8" with a supporting board underneath to prevent sagging. Fan the sheets slightly at the bottom to allow for air circulation. Keep the sheets off of the ground with an insulator such as wood. Any outdoor storage is at the customer's own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Never cover the metal with plastic as this will cause condensation to form.

Some Safety Precautions

Always wear heavy gloves when working with steel panels to avoid cuts from sharp edges. When cutting or drilling steel panels, always wear safety glasses and sweep off any metal shavings immediately to prevent eye injury from flying metal fragments.
If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery. Walking or standing on a metal roof which does not have a plywood or other deck beneath it is not recommended. However, if you must do so, always walk on the purlins, never between. Do not for any reason walk on a roof made of material less thick than 29 gauge.

General Installation Information

Insure that the structure is square and true before beginning panel installation. If the structure is not square, the panels will not properly seal at the side laps.
Green or damp lumber is not recommended. Moisture released from the damp lumber may damage the metal panels. Nails installed in green or damp lumber may back out.
The prevention of steel debris staining is the responsibility of the installer. The recommended tools for on site cutting are profile shears, hand shears, or electric nibblers. Friction saws and abrasive discs should not be used to cut panels.
Remove any loose metal shavings left on roof surface immediately to prevent corrosion. After installing roof, remove any debris such as leaves or dirt to prevent moisture from getting trapped on panels.

Fastening

If you wish to predrill fastener holes, use a cover sheet to prevent hot shavings from sticking to panels.

Screws - For best results use a 1-1/2" double washered wood screw in the flat of the panel as shown in the illustration below. Fasteners should be applied at every purlin. Drive the fastener so that the washer is compressed securely against the metal. Do not over drive the fastener as this will form a dimple that can collect water and cause leakage. Do not leave any loose fasteners that have missed the purlin. Use a #14 stitch screw or caulk to fill the hole.

Nails - If the panels are nailed, use 1-3/4" ring-shanked neoprene washered nails. Nail into the crown of the major ribs of the panel as illustrated below. (See Figure #2 below). **NOTE: If rigid insulation is used directly under the panel, the fastener length needs to be increased to allow a minimum of 1" penetration into the wood.** General installation instructions listed above for screws also apply to nails. Do not apply nails into flat area of panel.

Figure #1 - Fastening Patterns for MasterRib®

RECOMMENDED FASTENING PATTERN FOR 1-1/2" SCREWS

SCREW FASTENERS – EAVE, RIDGE, & ENDLAPS

SCREW FASTENERS – INTERMEDIATE SUPPORTS

FASTENING PATTERN FOR 1-3/4" NAILS

Figure #2 – (Nails only)

UNDER DRIVEN **CORRECT** **OVER DRIVEN**

Figure #3

SERVING THE METAL BUILDING COMPONENTS INDUSTRY FOR OVER 55 YEARS

UNION CORRUGATING COMPANY
Fayetteville, NC
www.unioncorrugating.com

Metal Construction Association

MEMBER NFBA

SPENCER ANDERSON TIFTON ORANGE UNICO VICKSBURG DAYTON
STEEL BUILDINGS STEEL PRODUCTS STEEL ROOFING METAL PRODUCTS METAL PRODUCTS METALS

Mark Hurm & Co., LLC

General Contractor CGC 062803 • HVAC Contractor CAC 057325 • Plumbing Contractor CFC 1425809

HVAC System Design and Installation Proposal

December 12, 2007

Mr. Frank Abram
1231 Nelson Rd.
Dickson, TN 37055

Thank you for providing the opportunity for Mark Hurm & Co., LLC to satisfy your present heating and cooling needs. It is our pleasure to provide you with this proposal.

With an opportunity to design a properly engineered HVAC system for your new home, there are areas of emphasis that are addressed during equipment selection and system design:

- Proper and Accurate Load Calculations
- Operating Efficiency/Economy in a *Florida* Climate
- Air Quality and Humidity Control
- Reliability and Ease of Maintenance
- Low life Cycle Cost of System
- Intelligent initial investment

A comprehensive thermodynamic needs analysis was performed for this project. The respective load calculations provided the information base to select the heating and cooling equipment, and to design a properly engineered air distribution system for this building.

This Investment Proposal reflects these findings, and provides a comprehensive summary of the products and services being offered. Performance data for each of the HVAC systems listed has been included for your review. If there is need for a more detailed description in any of these areas, please do not hesitate to contact me for prompt clarification.

Please review the revised Proposal Summary, and contact me at your earliest convenience. I look to the opportunity of implementing these offerings directly.

Sincerely,

Mark Hurm, Engineer
President

P.O. Box 1406 • Gainesville, FL 32602-1406 • Phone: (352) 378-9422 • Fax: (352) 378-0268 • www.hurmco.com

Proposal Summary

Scope:
To provide all necessary HVAC System Design, HVAC calculations, Energy Calculations, material and labor for the installation of the heating and cooling system which has been engineered specifically for this home. The air distribution system, and all equipment will be installed per engineered and approved drawings, as prepared by Mark Hurm & Co., LLC.

Equipment:
Condensing Unit: Lennox Model # XP16-036 (3-TON 2-SPEED)
Air Handling Unit: Lennox Model # CBX32MV-036

Cooling Capacity: 35.6 MBH @ 16.00 SEER
Heating Capacity: 33.2 MBH @ 8.2 HSPF
Auxiliary Electric Heat: 9 KW

Equipment Warranty: The equipment listed shall be under a parts and labor warranty against defects in material and workmanship for a period of one year. The compressor in the outdoor condensing unit is under a 10-Year Limited Compressor Warranty. All other covered components within the unit are under a 5-Year Limited Parts Warranty. The evaporator coil, and all other parts within the air handler are under a 5-Year Limited Parts Warranty. All Limited Warranties expressed within this proposal, are provided by the manufacturer of the respective pieces of equipment, unless specifically stated herein.

Installation: The HVAC system will be installed per engineered and approved drawings.
Note: The mechanical closet will need to be resized to conform with current codes.

Duct System: The air distribution system will be fabricated from rigid fiberglass duct materials with a reinforced ripguard vapor barrier. The branch ducts and return air ducts will be constructed of flexible fiberglass ducts. This duct has an anti-bacterial coating on the inner surface of the duct material which inhibits the growth and propagation of fungai and other microscopic organisms. Flexible branch ducts will have a foil exterior vapor barrier reinforced with ripguard, an insulative wrap having a value of R-6, and the inner lining will be constructed of a flame-retardant mylar-based vinyl. All connections will be sealed with reinforced mesh and duct mastic to insure an air-tight seal.

Grilles / Registers: The supply-air diffusers will be constructed of extruded aluminum frames, and will be white in color. The grilles will have adjustable curved blades, and opposed blade volume dampers. The blades are easily adjusted for maximum comfort.

Refrigerant Lines: New refrigerant lines will be installed from the condensing unit to the air handler under the building/home. The suction line will be covered with cellular rubber insulation to prevent sweating and thermal loss

Electrical: All high-voltage electrical work will be performed by others, and is not included as part of this proposal.

Thermostat: A new Electronic Thermostat, with 7-Day programming will be installed. The thermostat will be configured to maintain 78° cooling and 70° heating, unless otherwise instructed. For heat pump applications, an emergency/auxiliary heat indicator is provided. The new thermostat will have automatic seasonal changeover.

Workmanship: All work will be performed or supervised by journeyman class mechanics, in a neat and professional manner.

Maintenance: You will receive a Preventative Maintenance Agreement for the first year. Two precision tune-up calls will be performed by our service professionals. The first call will be a quality assurance check-up. The second will be performed prior to the expiration of the first year, and will include our complete Precision Tune-Up.

Miscellaneous: Sweeping will be done at the conclusion of each day's work, and all debris will be removed from the premises.

Notes and Exclusions: The load calculations for your residence utilized an insulation value of not less than R-30 for the roof, and not less than R-13 for the walls.

Mark Hurm & Co., LLC

General Contractor CGC 062803 • HVAC Contractor CAC 057325 • Plumbing Contractor CFC 1425809

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Date: 01/16/2008 Time: 08:20:24 RTI:

ATTN: Betty 7 pages

INFOTRAC
The hazmat Solution Company

MSDS Request Department
Phone: 352-323-3500
Fax: 352-323-0005

To:

Company :
Fax Number : 1(615)4415463
Phone Number :

From: Andie Denk
Fax Number : 352-323-0005
Phone Number : 352-323-3500

Time Sent : Wednesday, January 16, 2008 08:19AM
Pages : 7
Description : A. Denk (MSDS Request #20080116-236865) - 0.7MB

MESSAGES:
ATTN: AUTRY
<<I:\m9\JAMES HARDIE BUILDING PRODUCTS\15371.pdf>>

4407

James Hardie
Building Products

MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

MANUFACTURER	James Hardie Building Products
ADDRESS	10901 Elm Avenue, Fontana, Ca. 92337
TELEPHONE NO	909/356-6300
DATE PREPARED	August 10, 1989
DATE REVISED	August 8, 1995
PREPARED BY	Kenneth J. Pretoll, E,H&S Coordinator
GENERIC NAME	FIBER CEMENT BOARD
TRADE NAMES	Hardishake®, Hardiplate®, Hardiflex® Hardiliner®, Hardibacker®, Hardiboard® Hardisoffit™, Hardipanel™, Hardifence™ Hardiplank®, Hardiflex®, Hardtile™ Compressed Sheet®.
CHEMICAL NAME	Mixture
CAS NUMBER	None Assigned
FORMULA	Mixture

HEALTH WARNING

James Hardie fiber-cement boards contain silica in crystalline quartz and other forms. Breathing silica dust can cause lung diseases, including cancer. While these boards are bonded and do not release respirable dust in their manufactured state, there is nevertheless some risk from exposure to silica dust during drilling, sawing, cutting, sanding or abrading these products. Therefore, workers and consumers performing these tasks should always wear dust masks and follow all other precautions discussed in this sheet to avoid breathing silica dust.

PRODUCT INGREDIENTS

	CALCIUM SILICATE*	CRYSTALLINE QUARTZ SILICA	CELLULOSE FIBER
CAS NO.	1344-95-2	14808-60-7	9004-34-6
% Content	30-60%	35-45%	5-13%
OSHA PEL	5 mg/M³ Resp.** 10g/M³ Total **	0.10 mg/M³** Respirable Quartz	5mg/M³ Resp.** 10g/M³ Total**
ACGIH TLV	10mg/M³** Total Dust	0.10 mg/M³** Respirable Quartz	10mg/M³** Total Dust

Products may be pigmented or coated. If pigmented, they will contain iron oxide. If coated, the coating will be a water-based acrylic paint or acrylic sealer.

* Composed of Portland cement and sand.
** All PEL values are from CCR Title 8 - Section 5155 Table AC-1. Scientific authorities disagree whether the Permissible Exposure Limit (PEL) or the Threshold Limit Value (TLV) is a safe level of exposure to silica dust.

Note: As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable Federal and State laws. However, no warranty or representation with respect to such information is intended or given.

Risk Summary

James Hardie fiber cement boards contain calcium silicate, silica and cellulose fiber. The boards do not release respirable dust in their manufactured state and, therefore, do not present any known health hazards in such state. However, drilling, sawing, cutting, sanding or otherwise abrading these cement products during installation or handling, may generate not only nuisance dust but also respirable silica dust, including crystalline quartz, in amounts that can pose significant health risks.

While scientists disagree on the extent of the risks from exposure to respirable silica dust, the risks that have been identified include silicosis, a potentially disabling lung disease, and lung cancer. Persons using or handling these cement products should therefore avoid breathing silica dust and should warn others in the area. All drilling, sawing, cutting, sanding or abrading should be performed outdoors where feasible. If these tasks are performed indoors, there should be adequate air circulation from fans or other mechanical ventilation. In addition, dust masks should be worn for comfort only during these tasks. NIOSH/MSHA-approved respirators with HEPA filter cartridges should be worn whenever silica dust may exceed the PEL.

The known health hazards from exposure to nuisance dust created by calcium silicate and cellulose fiber are physical irritation, discomfort and impaired visibility. Neither of these substances is known to cause chronic health effects.

Primary Routes of Entry

Inhalation and eye contact.

Acute Effects

Inhalation: Excessive exposure to dust from drilling, sawing, cutting, sanding or abrading cement products may cause coughing or other upper respiratory irritation.

Eye Contact: Exposure to dust may cause redness and irritation.

Chronic Effects

Silicosis: Exposure to silica dust can cause silicosis, a non-cancerous lung disease which may gradually reduce lung capacity and efficiency and can result in serious breathing difficulty.

Lung Cancer: Exposure to respirable silica dust, including respirable crystalline quartz, is known to the State of California to cause lung cancer (Prop. 65). The International Agency for Research on Cancer (IARC) has found that silica dust can cause cancer in animals and may cause cancer in humans. Although crystalline silica is currently listed as a carcinogen by the National Toxicology Program (NTP), the Occupational Safety and Health Administration (OSHA) has not determined that silica dust causes cancer in animals or humans.

Medical Conditions Aggravated by Exposure

Pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

First Aid Emergency Procedures

Inhalation: Remove to fresh air.

Eyes: Irrigate with generous quantities of water. Consult physician if irritation continues.

Hardiplank® Lap Siding
Hardipanel® Vertical Siding
Hardie™ Shingleside® Cladding
Harditrim® Fascia and Moulding

Architectural Specification
Section 07460/HAR

NOTE TO SPECIFIER: This is a proprietary specification of James Hardie Building Products written in the Construction Specifiers Institute format. It is important to recognize that these recommendations are neither warranties, explicit or implicit, nor representative of the only method by which siding can be installed. Rather they try to summarize for the designer, installer or developer good building practice and some of the industry standards for the installation of siding which have been developed over a period of time from actual trade practice and the requirements of various building code agencies.

The following specification was developed for use within the jurisdiction of the Local Building Codes. Different or additional standards may be required in other jurisdictions and should be investigated accordingly.

Check with Local Building Code for installation requirements.

1. GENERAL
   A. Work under this section is subject to the provisions of the contract documents which in any way affect the work specified herein.

1.1 Scope
   A. Furnish and install Hardiplank, Hardipanel and Hardie Shingleside fiber-cement siding, Harditrim fascia and moulding and accessories where shown on drawings or as specified herein.
   B. Coordinate this section with interfacing and adjoining work for proper sequence of installation.
   C. Work in other sections affecting this work.
      1. Steel framing and bracing 13122
      2. Wood framing and bracing 06100
      3. Sheathing 06100
      4. Insulation 07210

1.2 Quality Assurance
   A. Submittals: within sixty (60) days of owner's notice
      1. Submit three 6 inch x 6 inch pieces of Hardiplank / Hardipanel / Hardie Shingleside claddings in texture and widths shown and specified herein.
      2. Submit three copies of specifications, installation data and other pertinent manufacturer's literature.

1.3 Product Handling
   A. Stack Hardiplank / Hardipanel / Hardie Shingleside claddings on edge or lay flat on a smooth, level surface. Protect edges and corners from chipping. Store sheets under cover and keep dry prior to installing.

1.4 Job Conditions

****NOTE TO SPECIFIER**** SELECT ONE, DELETE ALL THAT DO NOT APPLY:

A. Nominal 2 inch x 4 inch wood framing selected for minimal shrinkage and complying with local building codes, including the use of weather-resistive barriers and/or vapor barriers where required. Minimum 1½ inch face and straight, true, of uniform dimensions and properly aligned.
B. Install weather-resistive barriers and claddings to dry surfaces.
C. Repair any punctures or tears in the weather-resistive barrier prior to the installation of the siding.
D. Protect siding from other trades.

****OR****

A. Minimum 20 gauge 3⅝ inch C-Stud 16 inch maximum on center or 16 gauge 3⅝ inch C-Stud 24 inch maximum on center metal framing complying with local building codes, including the use of weather-resistive barriers and/or vapor barriers where required. Minimum 1½ inch face and straight, true, of uniform dimensions and properly aligned.
B. Install weather-resistive barriers and claddings to dry surfaces.
C. Repair any punctures or tears in the weather-resistive barrier prior to the installation of the siding.
D. Protect siding from other trades.

1.5 Warranty

A. James Hardie's limited product warranty against manufacturing defects in Hardiplank lap and Hardipanel vertical siding for 50 years. Hardie Shingleside for 30 years and HardiTrim for 10 years.

NOTE TO SPECIFIER: Insert appropriate number of years.

B. Workmanship: application limited warranty for ____ years.

2. PRODUCTS

2.1 Hardiplank / Hardipanel / Hardie Shingleside Cladding / Harditrim Fascia and Moulding

A. Non-asbestos fiber-cement siding to comply with ASTM Standard Specification C1186 Grade II, Type A.
B. Siding to meet the following building code compliance National Evaluation Report No. NER 405 (BOCA, ICBO, SBCCI); City of Los Angeles, Research Report No. 24862; Metro Dade County, Florida Acceptance No. 94-1234.04; US Department of Housing and Urban Development Materials Release 1263a; California DSA PS-019; and City of New York MEA 223-93-M.Non-asbestos fiber-cement siding to be non-combustible when tested in accordance with ASTM test method E136.
C. Type: _____

NOTE TO SPECIFIER: SELECT TYPES, DELETE ALL THAT DO NOT APPLY: (Smooth 5¼" W / 4" EXP), (Smooth 6¼" W / 5" EXP), (Smooth 8¼" W / 7" EXP), (Smooth 9½" W / 8¼" EXP), (Smooth 12" W / 10¾" EXP), (Cedarmill 5 ¼" W / 4" EXP), (Cedarmill 6¼" W / 5" EXP), (Cedarmill 8¼" W / 7" EXP), (Cedarmill 9½" W / 8¼" EXP), (Cedarmill 12" W / 10¾" EXP), (Cedarmill Select 5¼" W / 4" EXP), (Cedarmill Select 6¼" W / 5" EXP), (Cedarmill Select 8¼" W / 7" EXP), (Cedarmill Select 9½" W / 8¼" EXP), (Cedarmill Select 12" W / 10¾" EXP), (Smooth Beaded 8¼" W / 7" EXP), (Cedarmill Beaded 8¼" W / 7" EXP), (Colonial Smooth 8" W / 6¾" EXP), (Colonial Roughsawn 8" W / 6¾" EXP), (Shingleside 6", 8" and 12" width with 8" Exposure), (Smooth Vertical siding panel 4' x 8'), (Smooth Vertical siding panel 4' x 9'), (Smooth Vertical siding panel 4' x 10'), (Stucco Vertical siding panel 4' x 8'), (Stucco Vertical siding panel 4' x 9'), (Stucco Vertical siding panel 4' x 10'), (Sierra 4" Vertical siding panel 4' x 8'), (Sierra 4" Vertical siding panel 4' x 9'), (Sierra 4" Vertical siding panel 4' x 10'), (Sierra 8" Vertical siding panel 4' x 8'), (Sierra 8" Vertical siding panel 4' x 9'), (Sierra 8" Vertical siding panel 4' x 10')

D. Trim Type:_____

2.2 Fasteners

NOTE TO SPECIFIER: REFER TO APPLICABLE BUILDING CODE COMPLIANCE REPORTS FOR MAXIMUM BASIC WIND SPEED FOR EXPOSURE CATEGORY AND/OR APPLICABLE SHEAR VALUES AND SELECT ONE FASTENER, DELETE ALL THAT DO NOT APPLY:

A. Wood framing: 4d common corrosion resistant nails.
****OR****

A. Wood framing: 6d common corrosion resistant nails.
****OR****

A. Wood framing: 0.089" shank x 0.221" head x 2" corrosion resistant siding nails.
****OR****

A. Wood framing: 0.093" shank x 0.222" head x 2" corrosion resistant siding nails.
****OR****

A. Wood framing: 0.091" shank x 0.221" head x 1 ½" corrosion resistant siding nails.
****OR****

A. Wood framing: 0.091" shank x 0.225" head x 1 ½" corrosion resistant siding nails.
****OR****

A. Wood framing: 0.121" shank x 0.371" head x 1 ¼" corrosion resistant roofing nails.
****OR****

A. Wood framing: 1 ¼" corrosion resistant roofing nails.
****OR****

A. Wood framing: 1 ½" corrosion resistant roofing nails.
****OR****

A. Metal framing: 1 ¼" No. 8-18 x 0.375" head self-drilling, corrosion resistant S-12 ribbed buglehead screws.
****OR****

A. Metal framing: 1⅝" No. 8-18 x 0.323" head self-drilling, corrosion resistant S-12 ribbed buglehead screws.
****OR****

A. Metal framing: 1" No. 8-18 x 0.323" head self-drilling, corrosion resistant ribbed buglehead screws.
****OR****

A. Metal framing: 1" No. 8-18 x 0.311" head self-drilling, corrosion resistant S-12 ribbed buglehead screws.
****OR****

A. Concrete Walls: Erico Stud Nail, ET&F ASM No.-144-125, 0.14" shank x 0.30" head x 2" corrosion resistant nail.

NOTE TO SPECIFIER: When fastening through maximum 1 inch thick foam insulation, increase the length of the fastener by the thickness of insulation.

3. EXECUTION

3.1 Surface Conditions

A. Correct conditions detrimental to timely and proper completion of work.

3.2 Installation - Harditrim Fascia and Moulding

A. Install flashing around all wall openings.

B. Fasten through trim into structural framing or code complying sheathing. Fasteners must penetrate minimum ⅝ inch or full thickness of sheathing. Additional fasteners may be required to ensure adequate security.

C. Place fasteners no closer than ¾ inch and no further than 2 inch from side edge of trim board and no closer than 1 inch from end. Fasten maximum 16 inch on center.

D. Maintain clearance between trim and adjacent finished grade.

E. Trim inside corner with single board.
F. Install single board of outside corner board then align second corner board to outside edge of first corner board. Do not fasten Harditrim board to Harditrim board.
G. Allow 1/8 inch gap between trim and siding.
H. Seal gap with high quality, paint-able caulk.
I. Shim frieze board as required to align with corner trim.
J. Install Harditrim fascia over structural subfascia.

****OR****

E. Overlay siding with Harditrim moulding at windows, doors and inside corners.
F. Fasten through overlapping boards. Do not nail between lap joints.
G. Overlay siding with single board of outside corner board then align second corner board to outside edge of first corner board. Do not fasten Harditrim boards to Harditrim boards.
H. Shim frieze board as required to align with corner trim.
I. Install Harditrim fascia over structural subfascia.

3.3 Installation - Hardiplank Siding

NOTE TO SPECIFIER: Local building code may permit the use of "water-repellent panel sheathing" instead of a "building paper type" weather-resistive barrier. However, the manufacturer recommends the use of a "building paper type" weather-resistive barrier in all siding applications. A vapor barrier may also be required.

NOTE TO SPECIFIER: Hardiplank siding may be installed either directly to the structural framing or up to 9½ inch siding may be face nailed on minimum 7/16 inch OSB or equivalent sheathing.

A. Starting: Install a minimum ¼ inch thick lath starter strip at the bottom course of the wall. Apply planks horizontally with minimum 1¼ inch wide laps at the top. The bottom edge of the first plank overlaps the starter strip.
B. Allow minimum 1 inch vertical clearance between roofing and bottom edge of siding.
C. Align vertical joints of the planks over framing members.
D. Maintain clearance between siding and adjacent finished grade.
E. Locate splices at least one stud cavity away from window and door openings.
F. Use off-stud metal joiner when vertical joints occur between framing members. Position metal joiner so that the bottom lip is resting on the solid course of planks. Fasten plank to the framing. Position and fasten abutting plank into place insuring that the lower edges of the two planks align. Locate metal joiner centrally behind the joint. Locate off-stud splices a minimum of two stud cavities from wall corners and stagger all subsequent course splices at minimum 24 inch intervals when located in the same wall cavity.
G. Wind Resistance: Where a specified level of wind resistance is required Hardiplank lap siding is installed to framing members and secured with fasteners described in Table No. 2 in National Evaluation Service Report No. NER-405.

****OR****

C. Face nail to sheathing.
D. Locate splices at least 12 inches away from window and door openings.
E. Wind Resistance: Where a specified level of wind resistance is required Hardiplank lap siding is installed to framing members and secured with fasteners described in Table No. 2 in National Evaluation Service Report No. NER-405.

3.4 Installation - Hardipanel Siding

NOTE TO SPECIFIER: Local building code may permit the use of "water-repellent panel sheathing" instead of a "building paper type" weather-resistive barrier. However, the manufacturer recommends the use of a "building paper type" weather-resistive barrier in all siding applications. A vapor barrier may also be required.

A. Block framing between studs where Hardipanel siding horizontal joints occur.
B. Place fasteners no closer than 3/8 inch from panel edges and 2 inch from panel corners.

C. Allow minimum 1 inch vertical clearance between roofing and bottom edge of siding.
D. Maintain clearance between siding and adjacent finished grade.
E. Specific framing and fastener requirements refer to Tables 2 and 3 in National Evaluation Service Report No. NER-405.

3.5 Installation - Hardie Shingleside Cladding

NOTE TO SPECIFIER: Local building code may permit the use of "water-repellent panel sheathing" instead of a "building paper type" weather-resistive barrier. However, the manufacturer recommends the use of a "building paper type" weather-resistive barrier in all siding applications. A vapor barrier may also be required.

A. Substrate: Install Hardie Shingleside cladding over minimum 7/16 inch thick OSB wall sheathing or equivalently braced walls complying with the applicable building code.
B. Starting: Install a minimum ¼ inch thick lath starter strip at the bottom course of the wall.
C. Maintain clearance between siding and adjacent finished grade.
D. Apply starter course of 10 inch Shingleside shingles or 9¼ inch Hardiplank lap siding overlapping the starter strip.
E. Apply subsequent courses horizontally with a minimum 10 inch overlap at the top and minimum 2 inch sidelap. The bottom edge of the first two courses overlaps the starter strip.
F. Fasten between ½ to 1 inch in from of the shingle side edge and between 8½ to 9 inch from the shingle bottom edge.
G. Maintain minimum 1 inch vertical clearance between roofing and bottom edge of shingle.
H. Ensure vertical joints of overlapping shingle courses do not align.
I. Wind Resistance: Where a specified level of wind resistance is required Hardie Shingleside cladding is installed to substrate and secured with minimum two fasteners described in Table No. 6, 7, and 8 in National Evaluation Service Report No. NER-405.

3.6 Finishing

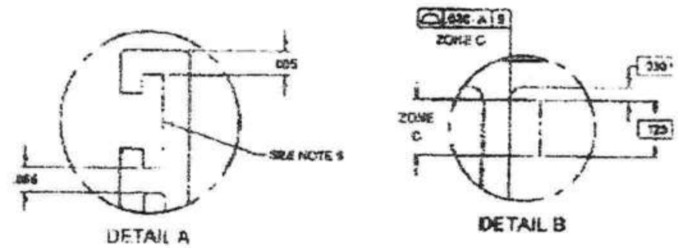
NOTE TO SPECIFIER: Certain geographic areas allow minimum single coat of 100% acrylic or latex exterior grade, high quality alkali-resistant paint on unprimed product. James Hardie recommends, minimum one coat primer plus one topcoat or two topcoats for best results. SELECT ONE, DELETE ALL THAT DO NOT APPLY

A. Finish unprimed siding with minimum one coat high quality, alkali-resistant primer and one coat of either 100% acrylic or latex or oil based, exterior grade topcoat or two coats high quality, alkali-resistant, 100% acrylic or latex, exterior grade topcoat within 90 days of installation. Follow paint manufacturer's written product recommendation and written application instructions.

OR

A. Finish Hardiplank/Hardipanel/Hardltrim sidings coated by the PrimePlus™ system with minimum one coat high quality, either 100% acrylic or latex or oil based exterior grade paint within 180 days of installation. Follow paint manufacturer's written product recommendation and written application instructions.

NOTES
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE GIVEN IN INCHES.
2. THE FOLLOWING SYMBOLS INDICATE CRITICAL OR KEY DIMENSIONS. REFER TO DOCUMENT [illegible] AND PELLA SUPPLIER QUALITY MANUAL FOR USAGE INFORMATION.
   [C] INDICATES CRITICAL DIMENSIONS
   [K] INDICATES KEY DIMENSIONS
3. MATERIAL THICKNESS TO BE [illegible] UNLESS OTHERWISE SPECIFIED. OVERALL WEIGHT MUST BE ±10% OF THEORETICAL WEIGHT.
4. ALL FILLETS AND ROUNDS TO BE .015 UNLESS OTHERWISE SPECIFIED.
5. SEE [illegible] FOR DIMENSIONS NOT SHOWN.



Architectural Testing

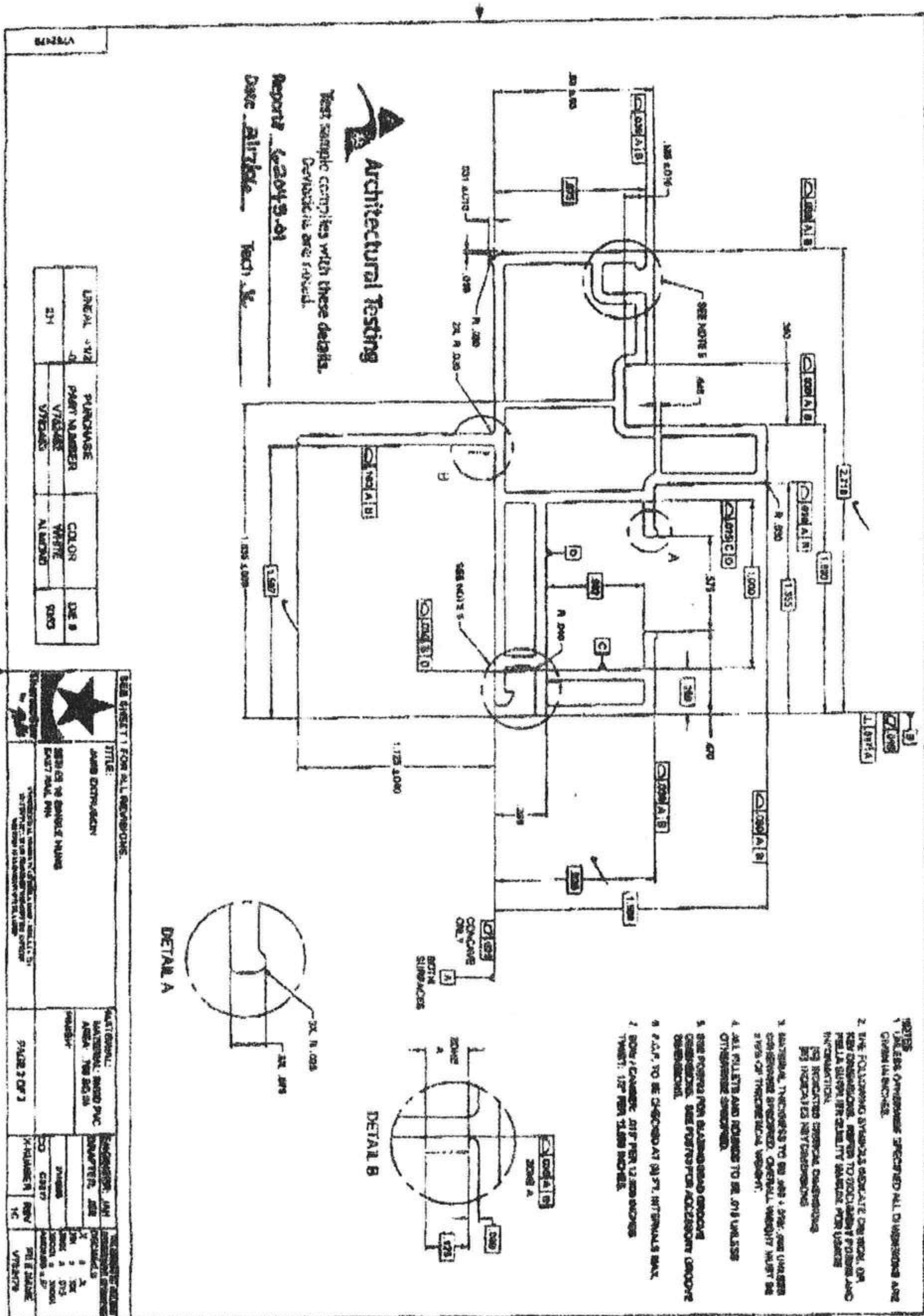
Test [illegible] consistent with these details. [illegible] are noted.

Report# GB043.01

Date 2/17/06 Tech JL

SEE SHEET 1 FOR ALL REVISIONS.

Thermastar by Pella	TITLE: SILL EXTRUSION SERIES 10 SINGLE HUNG SASH NAIL FIN	MATERIAL: FINISH:	ENGINEER: JAH DRAFTER: JSE ECO C02[illegible]	SIGNALS
	[illegible]	PAGE 3 OF 3	X-NUMBER / REV C	FILE NAME V[illegible]

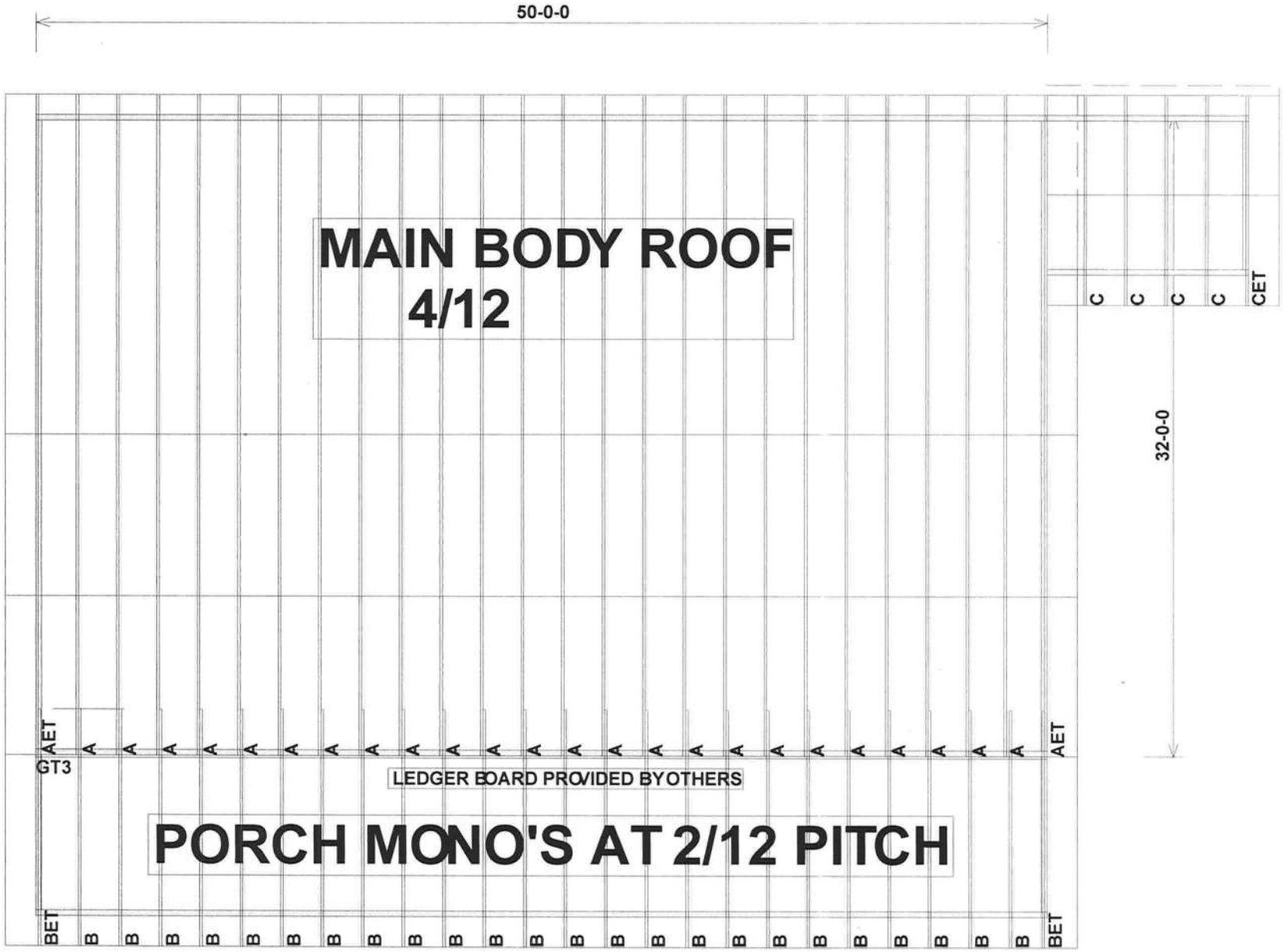

Architectural Testing
Test sample complies with these details.
Deviations are noted.
DETAIL A
DETAIL B
SEE SHEET 1 FOR ALL REVISIONS
NOTES
PURCHASE PART NUMBER
COLOR
WHITE
ALMOND

BETTY AND FRANK ABRAM

PORCH MONO'S HAVE EXTENDED OVERHANGS AT HIGH END TO ALLOW FIELD ATTACHMENT TO TIE INTO MAIN BODY ROOF.

Santa Fe Truss

410 SW Poe Springs Rd
High Springs, Fl
386-454-7711/Fax 454-1055



ENGINEERING BY
TRENCO
A MiTek Affiliate

RE: ABRA - ABRAM RES

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:
Project Customer: BETTY AND FRANK ABRAM Project Name:
Lot/Block: Subdivision:
Address: 734 SW FEATHER LANE
City: FT WHITE 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: 40.0 psf

This package includes 6 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.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

No.	Seal#	Truss Name	Date
1	E4361348	A	9/5/07
2	E4361349	AET	9/5/07
3	E4361350	B	9/5/07
4	E4361351	BET	9/5/07
5	E4361352	C	9/5/07
6	E4361353	CET	9/5/07

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

The truss drawing(s) referenced above have been prepared by TRENCO under my direct supervision based on the parameters provided by Santa Fe Truss.

Truss Design Engineer's Name: Strzyzewski, Marvin
My license renewal date for the state of 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 Chapter 2.

September 5,2007

Strzyzewski, Marvin

Job	Truss	Truss Type	Qty	Ply	ABRAM RES	E4361348
ABRA	A	SPECIAL	24	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Apr 2 2007 MiTek Industries, Inc. Wed Sep 05 10:39:46 2007 Page 1

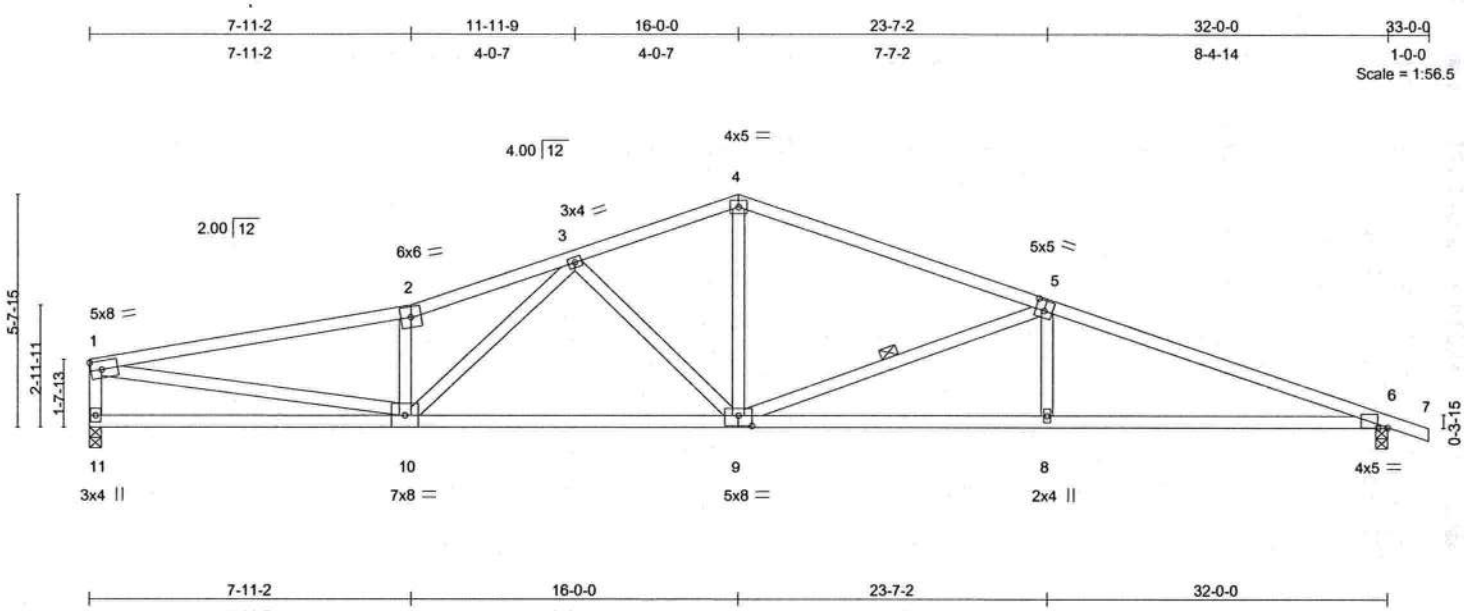


Plate Offsets (X,Y): [5:0-2-8,0-3-0], [6:0-2-14,0-0-2], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.19	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.56	9-10	>674	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(TL)	0.11	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 154 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2D
WEBS 2 X 4 SYP No.3 *Except*
1-11 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9

REACTIONS (lb/size) 11=1267/0-3-8, 6=1338/0-3-8
Max Horz 11=-75(LC 6)
Max Uplift11=-157(LC 3), 6=-200(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2925/340, 2-3=-3096/415, 3-4=-2058/255, 4-5=-2112/256, 5-6=-3126/359, 6-7=0/18, 1-11=-1176/189
BOT CHORD 10-11=-94/379, 9-10=-225/2320, 8-9=-268/2887, 6-8=-267/2889
WEBS 2-10=-858/218, 3-10=-130/793, 3-9=-594/145, 4-9=-51/911, 5-9=-1041/212, 5-8=0/337, 1-10=-255/2504

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; 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 157 lb uplift at joint 11 and 200 lb uplift at joint 6.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

September 5,2007

Job	Truss	Truss Type	Qty	Ply	ABRAM RES	E4361349
ABRA	AET	GABLE	2	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Apr 2 2007 MiTek Industries, Inc. Wed Sep 05 10:39:48 2007 Page 1

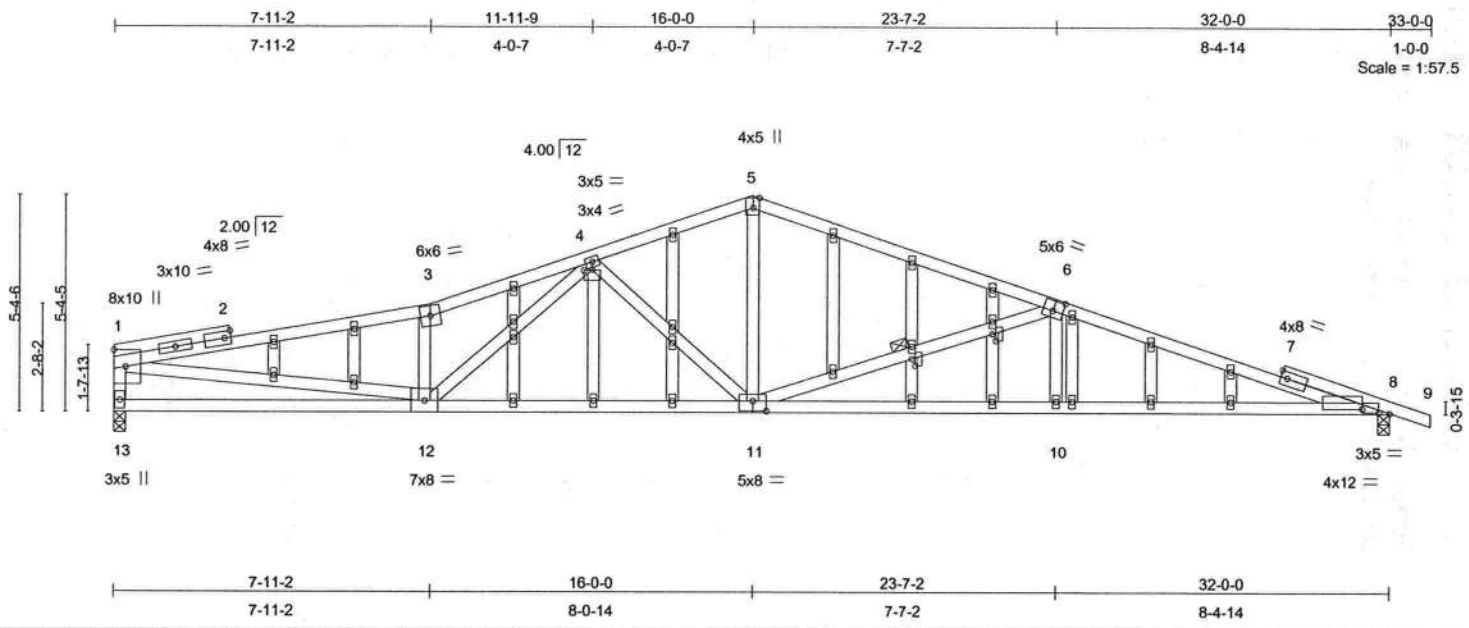


Plate Offsets (X,Y): [4:0-2-8,0-0-1], [5:0-2-15,Edge], [6:0-3-0,0-3-0], [8:0-8-4,0-1-4], [8:0-3-4,0-0-4], [11:0-4-0,0-3-0], [29:0-2-0,0-1-0], [32:0-2-0,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.94	Vert(LL)	-0.26	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.71	8-10	>538	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.13	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 198 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D *Except* 5-6 2 X 4 SYP 2400F 2.0E, 6-8 2 X 4 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2D
WEBS 2 X 4 SYP No.3 *Except* 1-13 2 X 4 SYP 2400F 2.0E
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 8-10.
WEBS 1 Row at midpt 6-11

REACTIONS (lb/size) 13=1267/0-3-8, 8=1338/0-3-8
Max Horz 13=-72(LC 6)
Max Uplift13=-157(LC 3), 8=-201(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3260/362, 2-3=-3235/374, 3-4=-3472/451, 4-5=-2175/262, 5-6=-2233/264, 6-7=-3452/398, 7-8=-3481/377, 8-9=0/18, 1-13=-1170/189
BOT CHORD 12-13=-152/784, 11-12=-250/2505, 10-11=-317/3280, 8-10=-316/3283
WEBS 3-12=-923/218, 4-12=-145/995, 4-11=-663/154, 5-11=-58/1013, 6-11=-1310/244, 6-10=0/342, 1-12=-229/2438

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; 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 MT20 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 studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 13 and 201 lb uplift at joint 8.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

September 5,2007

Job	Truss	Truss Type	Qty	Ply	ABRAM RES	E4361350
ABRA	B	MONO TRUSS	24	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Apr 2 2007 MiTek Industries, Inc. Wed Sep 05 10:39:49 2007 Page 1

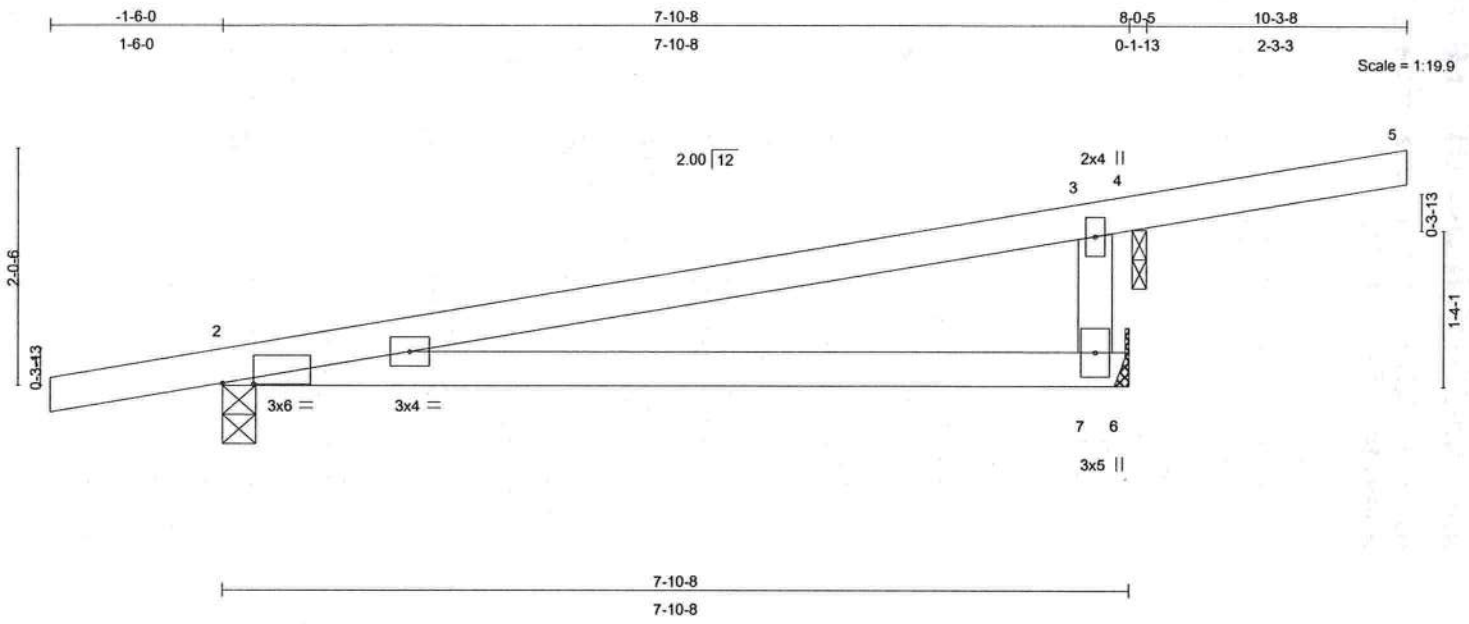


Plate Offsets (X,Y): [2:0-3-4,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.19	2-7	>471	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.38	2-7	>237	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 31 lb	

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

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

REACTIONS (lb/size) 2=361/0-3-8, 7=826/Mechanical, 4=-325/0-1-8
Max Horz 2=65(LC 3)
Max Uplift 2=-191(LC 3), 7=-353(LC 3), 4=-325(LC 1)
Max Grav 2=361(LC 1), 7=826(LC 1), 4=159(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/14, 2-3=-41/44, 3-4=-80/22, 4-5=-23/0
BOT CHORD 2-7=0/0, 6-7=0/0
WEBS 3-7=-746/300

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; end vertical right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 2, 353 lb uplift at joint 7 and 325 lb uplift at joint 4.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

September 5,2007

Job	Truss	Truss Type	Qty	Ply	ABRAM RES	E4361351
ABRA	BET	GABLE	2	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Apr 2 2007 MiTek Industries, Inc. Wed Sep 05 10:39:50 2007 Page 1

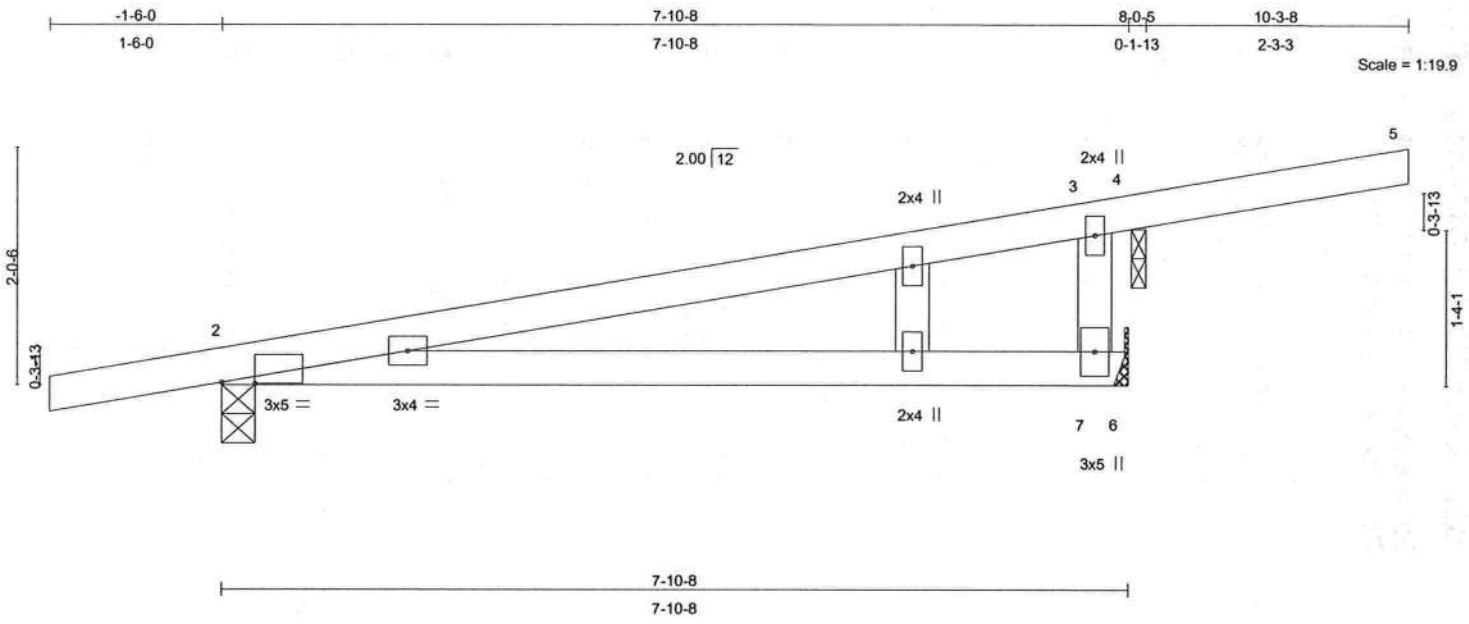


Plate Offsets (X,Y): [2:0-3-7,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.19	2-7	>471	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.38	2-7	>237	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 32 lb	

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

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

REACTIONS (lb/size) 2=361/0-3-8, 7=826/Mechanical, 4=-325/0-1-8
Max Horz 2=65(LC 3)
Max Uplift 2=-191(LC 3), 7=-353(LC 3), 4=-325(LC 1)
Max Grav 2=361(LC 1), 7=826(LC 1), 4=159(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-3=-41/44, 3-4=-80/22, 4-5=-23/0
BOT CHORD 2-7=0/0, 6-7=0/0
WEBS 3-7=-746/300

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; end vertical right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) 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.
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) Gable studs spaced at 2-0-0 oc.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 2, 353 lb uplift at joint 7 and 325 lb uplift at joint 4.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

September 5,2007

Job	Truss	Truss Type	Qty	Ply	ABRAM RES	E4361352
ABRA	C	COMMON	4	1	Job Reference (optional)	

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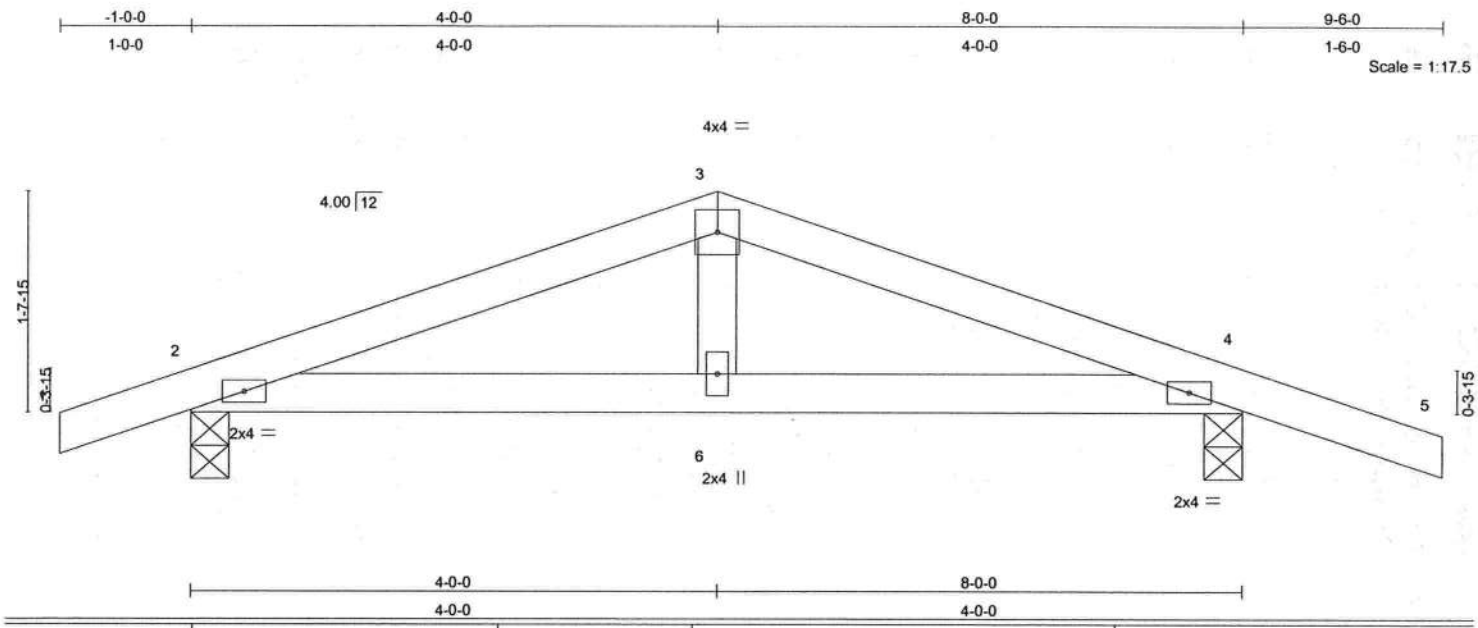

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.02	2-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb	

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

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

REACTIONS (lb/size) 2=372/0-3-8, 4=413/0-3-8
Max Horz 2=-36(LC 6)
Max Uplift2=-86(LC 3), 4=-112(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-475/21, 3-4=-479/25, 4-5=0/27
BOT CHORD 2-6=0/409, 4-6=0/409
WEBS 3-6=0/186

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; 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 86 lb uplift at joint 2 and 112 lb uplift at joint 4.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

September 5,2007

Job	Truss	Truss Type	Qty	Ply	ABRAM RES	E4361353
ABRA	CET	GABLE	1	1	Job Reference (optional)	

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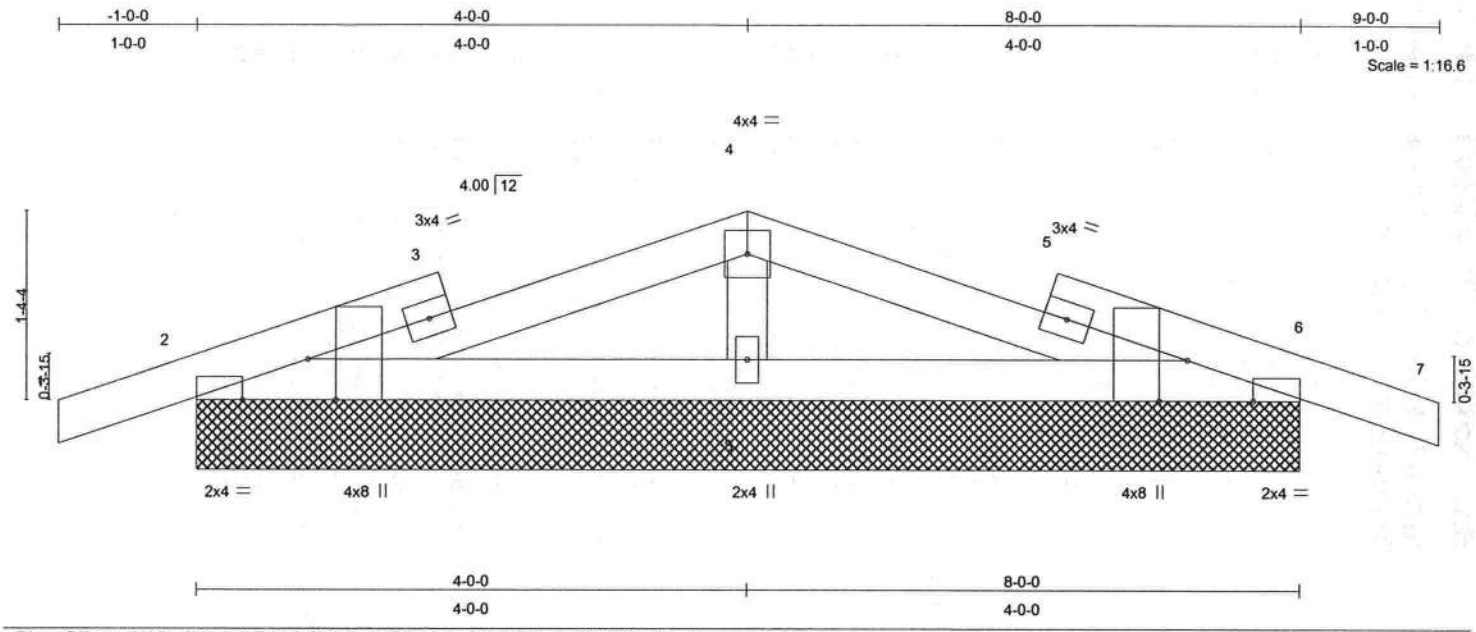


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-5-12,Edge], [6:0-3-8,Edge], [6:0-5-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.01	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	0.03	7	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 32 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=330/8-0-0, 6=330/8-0-0, 8=100/8-0-0
Max Horz 2=24(LC 5)
Max Uplift 2=-107(LC 3), 6=-107(LC 4)
Max Grav 2=330(LC 1), 6=330(LC 1), 8=200(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-459/126, 3-4=-445/132, 4-5=-445/132, 5-6=-459/126, 6-7=0/17
BOT CHORD 2-8=-108/427, 6-8=-108/427

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; 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) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2 and 107 lb uplift at joint 6.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

September 5,2007

COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

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/m^2) 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

Edge vent
End Vent

N/A ☐ ☐ d) Location, size and height above roof of chimneys.
N/A ☐ ☐ 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.
N/A ☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type).
N/A ☐ ☐ 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
N/A ☐ ☐ c) Any special support required by soil analysis such as piling
N/A ☐ ☐ 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
    N/A c. Crawl space (if applicable)

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

N/A ☐ ☐ **Floor Framing System:**

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

N/A ☐ ☐ 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

N/A ☒ ☐ 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

? 6 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

N/A 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.**

ok 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

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	Masonite	Wood edge steel 3'0	FL 4904
	A. SWINGING			
	B. SLIDING			
	C. SECTIONAL/ROLL UP			
	D. OTHER			
	2. WINDOWS			
X	A. SINGLE/DOUBLE HUNG		Single Hung 3/0 X 5'4" & 3'0 X 3'0	FL6431 R1,C, CAC P-IIA CCL pdf
	~~B. HORIZONTAL SLIDER~~			
	C. CASEMENT			
	D. FIXED			
	E. MULLION			
	F. SKYLIGHTS			
	G. OTHER			
X	3. PANEL WALL			
	A. SIDING	Hardy Plank 8.25	3/8" X 8.25"	
	B. SOFFITS			
	C. STOREFRONTS			
	D. GLASS BLOCK			
	E. OTHER			
	4. ROOFING PRODUCTS			
	A. ASPHALT SHINGLES			
X	B. NON-STRUCT METAL		25 Yr. Galvalume	
	C. ROOFING TILES			
	D. SINGLE PLY ROOF			
	E. OTHER			
	5. STRUCT COMPONENTS			
X	A. WOOD CONNECTORS		Hurricane Straps & Anchors	
	B. WOOD ANCHORS			
	C. TRUSS PLATES			
	D. INSULATION FORMS			
	E. LINTELS			
	F. OTHERS			
?	6. NEW EXTERIOR ENVELOPE PRODUCTS			
	A.			

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

APPLICANT SIGNATURE

1-14-08
DATE

R-1305 01-04

Residential System Sizing Calculation

Summary

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

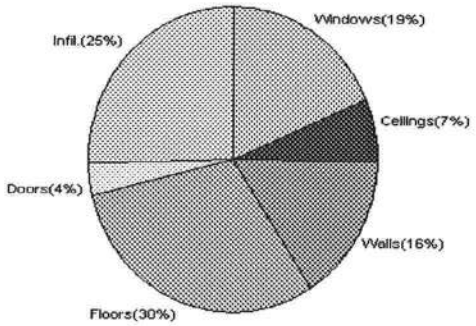
11/22/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**29265**	**Btuh**	**Total cooling load calculation**	**22109**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.2	34000	Sensible (SHR = 0.75)	146.2	25500
Heat Pump + Auxiliary(0.0kW)	116.2	34000	Latent	182.0	8500
			Total (Electric Heat Pump)	153.8	34000

WINTER CALCULATIONS

Winter Heating Load (for 1696 sqft)

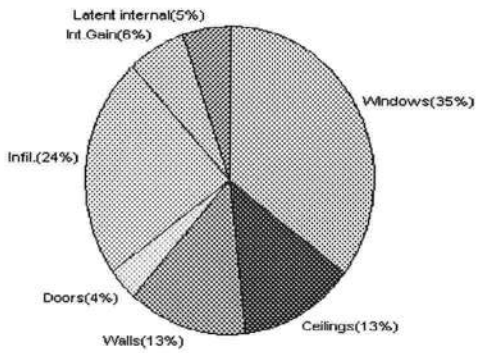
Load component			Load	
Window total	170	sqft	5456	Btuh
Wall total	1383	sqft	4540	Btuh
Door total	80	sqft	1036	Btuh
Ceiling total	1696	sqft	1998	Btuh
Floor total	204	sqft	8907	Btuh
Infiltration	181	cfm	7328	Btuh
Duct loss			0	Btuh
Subtotal			**29265**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**29265**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1696 sqft)

Load component			Load	
Window total	170	sqft	7814	Btuh
Wall total	1383	sqft	2884	Btuh
Door total	80	sqft	784	Btuh
Ceiling total	1696	sqft	2809	Btuh
Floor total			0	Btuh
Infiltration	95	cfm	1768	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**17438**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3471	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**4671**	**Btuh**
TOTAL HEAT GAIN			**22109**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 11-22-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

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

11/22/2007

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	27.0	32.2	869 Btuh
2	2, Clear, Metal, 0.87	NW	18.0	32.2	579 Btuh
3	2, Clear, Metal, 0.87	NE	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	NE	27.0	32.2	869 Btuh
5	2, Clear, Metal, 0.87	SE	40.5	32.2	1304 Btuh
6	2, Clear, Metal, 0.87	SE	21.0	32.2	676 Btuh
7	2, Clear, Metal, 0.87	SW	27.0	32.2	869 Btuh
	Window Total		170(sqft)		5456 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1383	3.3	4540 Btuh
	Wall Total		1383		4540 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		80	12.9	1036 Btuh
	Door Total		80		1036Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1696	1.2	1998 Btuh
	Ceiling Total		1696		1998Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	204.0 ft(p)	43.7	8907 Btuh
	Floor Total		204		8907 Btuh
			Zone Envelope Subtotal:		21938 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	13568	180.9	7328 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**29265 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	29265 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29265 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

11/22/2007

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

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

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

11/22/2007

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	27.0	32.2	869 Btuh
2	2, Clear, Metal, 0.87	NW	18.0	32.2	579 Btuh
3	2, Clear, Metal, 0.87	NE	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	NE	27.0	32.2	869 Btuh
5	2, Clear, Metal, 0.87	SE	40.5	32.2	1304 Btuh
6	2, Clear, Metal, 0.87	SE	21.0	32.2	676 Btuh
7	2, Clear, Metal, 0.87	SW	27.0	32.2	869 Btuh
	Window Total		170(sqft)		5456 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1383	3.3	4540 Btuh
	Wall Total		1383		4540 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		80	12.9	1036 Btuh
	Door Total		80		1036Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1696	1.2	1998 Btuh
	Ceiling Total		1696		1998Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	204.0 ft(p)	43.7	8907 Btuh
	Floor Total		204		8907 Btuh
			Zone Envelope Subtotal:		21938 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	13568	180.9	7328 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**29265 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	29265 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	29265 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

11/22/2007

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/22/2007

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

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5ft.	27.0	0.0	27.0	29	60	1621 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	18.0	0.0	18.0	29	60	1081 Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	5ft.	27.0	0.0	27.0	29	60	1621 Btuh
5	2, Clear, 0.87, None,N,N	SE	8ft.	5ft.	40.5	40.5	0.0	29	63	1173 Btuh
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	5ft.	21.0	9.4	11.6	29	63	996 Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	27.0	27.0	0.0	29	63	782 Btuh
	Window Total				170 (sqft)					7814 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1382.5	2.1	2884 Btuh
	Wall Total		1383 (sqft)		2884 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		80.0	9.8	784 Btuh
	Door Total		80 (sqft)		784 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1696.0	1.7	2809 Btuh
	Ceiling Total		1696 (sqft)		2809 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	204 (ft(p))	0.0	0 Btuh
	Floor Total		204.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		14290 Btuh

Infiltration	Type	ACH		Volume(cuft)		CFM=	Load
	SensibleNatural	0.42		13568		95.0	1768 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load
		6	X	230	+	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0 Btuh
						Sensible Zone Load	**17438 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

11/22/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**17438 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**17438 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**17438 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3471 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4671 Btuh**
	TOTAL GAIN	**22109 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 11/22/2007
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5ft.	27.0	0.0	27.0	29	60	1621 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	18.0	0.0	18.0	29	60	1081 Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	5ft.	27.0	0.0	27.0	29	60	1621 Btuh
5	2, Clear, 0.87, None,N,N	SE	8ft.	5ft.	40.5	40.5	0.0	29	63	1173 Btuh
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	5ft.	21.0	9.4	11.6	29	63	996 Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	27.0	27.0	0.0	29	63	782 Btuh
	Window Total				170 (sqft)					7814 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1382.5	2.1	2884 Btuh
	Wall Total		1383 (sqft)		2884 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		80.0	9.8	784 Btuh
	Door Total		80 (sqft)		784 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1696.0	1.7	2809 Btuh
	Ceiling Total		1696 (sqft)		2809 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	204 (ft(p))	0.0	0 Btuh
	Floor Total		204.0 (sqft)		0 Btuh
				Zone Envelope Subtotal:	14290 Btuh

Infiltration	Type	ACH		Volume(cuft)		CFM=	Load
	SensibleNatural	0.42		13568		95.0	1768 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load
		6	X	230	+	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0 Btuh
					Sensible Zone Load		**17438 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

Class 3 Rating
Registration No. 0
Climate: North

11/22/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**17438 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**17438 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**17438 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3471 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4671 Btuh**
	TOTAL GAIN	**22109 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Abram, Frank
734 SW Fether Lane
, FL

Project Title:
709043Abram,Frank

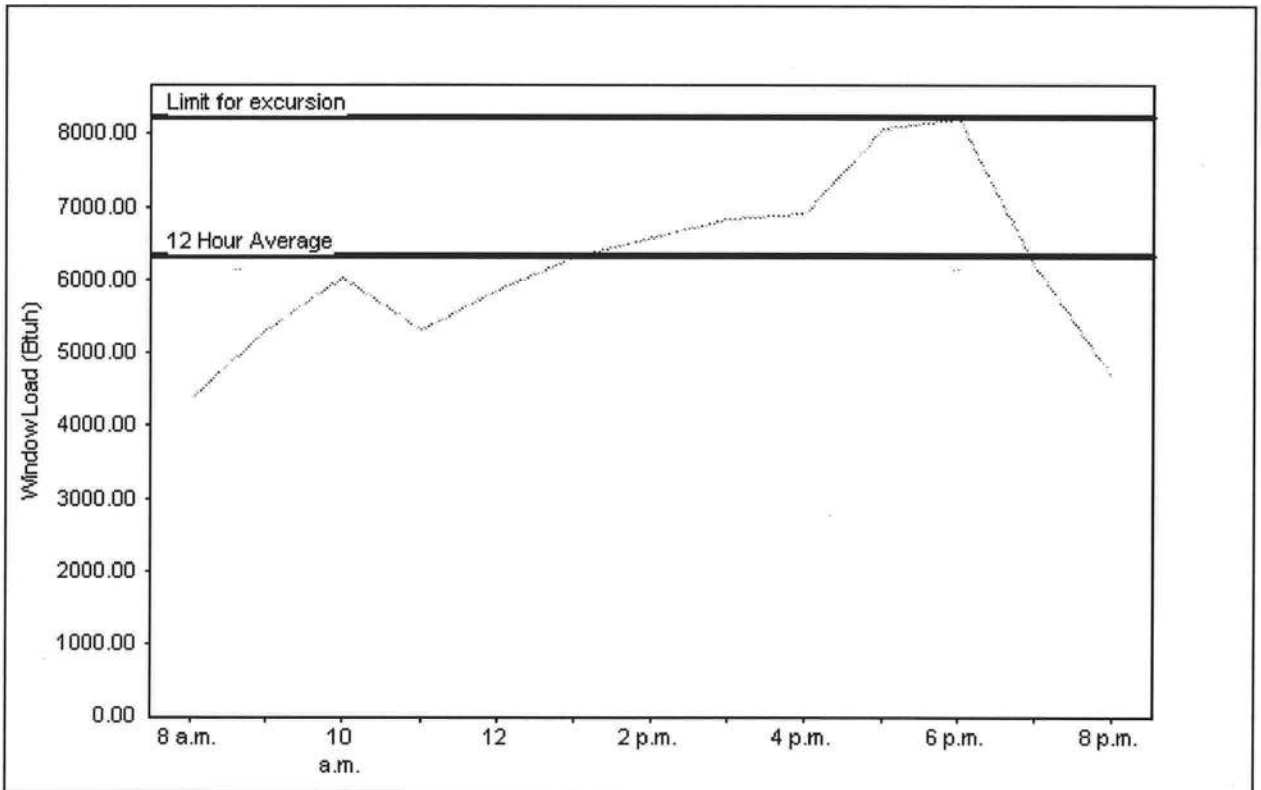
Class 3 Rating
Registration No. 0
Climate: North

11/22/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	6333 Btuh
Summer setpoint	75 F	Peak window load for July	8206 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	8232 Btuh
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

The midsummer window load for this house does not exceed the window load excursion limit.
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 11-22-07

Community Affairs

Product Approval
USER: Public User

FL #	FL1170-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	--
Product Manufacturer Address/Phone/Email	Therma-Tru Corporation 118 Industrial Drive Edgerton, OH 43517 (419) 298-1740 sjasperson@tttechnologies.us
Authorized Signature	Steve Jasperson sjasperson@tttechnologies.us
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute,
Referenced Standard and Year (of Standard)	Standard ASTM E 330 ASTM E1300 ASTM E1996 PA 201, 203 PA 202
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A

Date Submitted	03/11/2005
Date Validated	06/06/2005
Date Pending FBC Approval	06/07/2005
Date Approved	06/10/2005
Date Revised	12/31/2005

Summary of Products

FL #	Model, Number or Name	Description
4242.1	a. Masonite Metal-Edge Steel Door	Up to a 3'0 x 6'8 In-swing or Out-sv Steel Door in a Fast Frame 2-Piece
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the State of Florida including the "HVHZ". When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require a protective covering. Maximum Design Pressure Rating – Positive 66.0 PSF and Negative 66.0 PSF (see 4242.1 INST for any additional size and use limitations).		Certification Agency Certificate Installation Instructions PTID 4242 | 4242.1 INST.pdf PTID 4242 | 4242.2 INST.pdf PTID 4242 | 4242.3 INST.pdf Verified By:
4242.2	b. Masonite Metal-Edge Steel Door	Up to a 3'0 x 8'0 In-swing or Out-sv Steel Door in a Fast Frame 2-Piece
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the State of Florida including the "HVHZ". When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require a protective covering. Maximum Design Pressure Rating – Positive 55.0 PSF and Negative 55.0 PSF (see 4242.2 INST for any additional size and use limitations).		Certification Agency Certificate Installation Instructions Verified By:
4242.3	c. Masonite Metal-Edge Steel Door	Up to a 6'0 x 6'8 In-swing or Out-sv Steel Door in a Fast Frame 2-Piece
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the State of Florida including the "HVHZ". When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require a protective covering. Maximum Design Pressure Rating – Positive 50.5 PSF and Negative 50.5 PSF (see 4242.3 INST for any additional size and use limitations).		Certification Agency Certificate Installation Instructions Verified By:

Back Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard

Community Affairs

Product Approval
USER: Public User

FL #	FL4242-R0
Application Type	New
Code Version	2001
Application Status	Approved
Comments	
Archived	
Product Manufacturer Address/Phone/Email	Masonite International One North Dale Mabry Suite 950 Tampa, FL 33609 (615) 441-4258 sschreiber@masonite.com
Authorized Signature	Steve Schreiber sschreiber@masonite.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute,
Referenced Standard and Year (of Standard)	Standard Accepted Engineering Practice TAS 201 and TAS 203 TAS 202
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A

Community Affairs

Product Approval
USER: Public User

FL #	FL4242-R0
Application Type	New
Code Version	2001
Application Status	Approved
Comments	
Archived	
Product Manufacturer Address/Phone/Email	Masonite International One North Dale Mabry Suite 950 Tampa, FL 33609 (615) 441-4258 sschreiber@masonite.com
Authorized Signature	Steve Schreiber sschreiber@masonite.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute,
Referenced Standard and Year (of Standard)	Standard Accepted Engineering Practice TAS 201 and TAS 203 TAS 202
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A

Masonite "EXTERIOR DOOR PRODUCTS"

METAL - EDGE STEEL DOOR

IN A

"FAST FRAME"

2 - PIECE ADJUSTABLE STEEL FRAME

IN-SWING / OUT-SWING

3'0 X 8'0

GENERAL NOTES

THE MASONITE 3'0" x 8'0" ADJUSTABLE STEEL FRAME & DOOR DESCRIBED HEREIN COMPLIES WITH THE FLORIDA BUILDING CODE INCLUDING THE "HVHZ" SUBJECT TO THE FOLLOWING CONDITIONS:

1. OUTSWING UNITS WITH BUMP FACE THRESHOLD MEET WATER REQUIREMENTS FOR "HVHZ". INSWING UNITS WITH SADDLE THRESHOLD OR INSWING/OUTSWING UNITS WITH ADA SADDLE THRESHOLD DO NOT MEET WATER REQUIREMENTS FOR "HVHZ" WITHOUT PROTECTION BY OVERHANG SUCH THAT OVERHANG RATIO = OVERHANG LENGTH / OVERHANG HEIGHT > 1.0.
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN IN THE DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING AND STUCCO.
3. WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION, THIS PRODUCT MEETS THE REQUIREMENTS OF SECTION 1526 OF THE FLORIDA BUILDING CODE AND DOES NOT REQUIRE THE USE OF AN IMPACT RESISTANT COVERING.
4. ALLOWABLE DESIGN PRESSURE REQUIREMENTS MUST BE EQUAL TO OR LESS THAN THE DESIGN PRESSURE RATING SHOWN IN THE DESIGN PRESSURE CHART, SHEET 1 OF THIS DRAWING.
5. FOR 2X STUD FRAMING CONSTRUCTION, PRODUCT ANCHORING SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK INTO MASONRY CONSTRUCTION DEPICTED HEREIN.
6. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

SUPPORTING DOCUMENTS & EVIDENCE

1. TESTING PER TAS 201-94, 202-94 & 203-94 BY NATIONAL CERTIFIED TESTING LABORATORIES AND REPORTED IN TEST REPORT NCTL#210-3086-1.
2. ANCHORING IS AS PUBLISHED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SUPPORTED BY TESTING IN TEST REPORT NCTL#210-3086-1.
3. 2X BUCK ANCHOR ANALYSIS FOR LOADING CONDITIONS PREPARED, SIGNED AND SEALED BY WENDELL W. HANEY, P.E.

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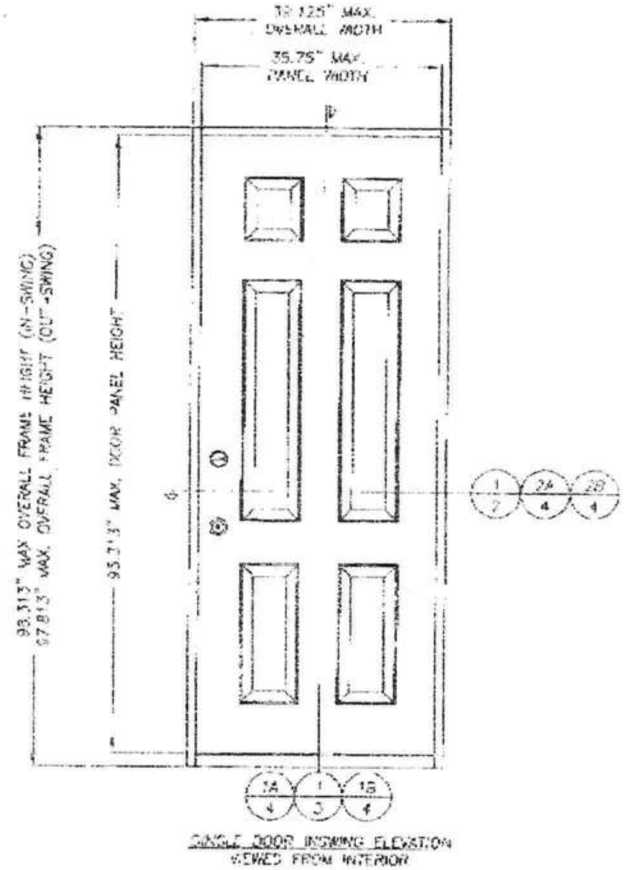
1	TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES
2	HORIZONTAL CROSS SECTION
3	VERTICAL CROSS SECTIONS
4	LOW PROFILE O/S BUMP FACE SILL & W/S FOR "HVHZ"
5	BUCK & DOOR ANCHORING
6	BILL OF MATERIALS & COMPONENTS



SINGLE DOOR INSWING ELEVATION
VIEWED FROM INTERIOR

DESIGN PRESSURE RATINGS SINGLES (PSF)

OVERALL FRAME DIMENSION	OVERALL PANEL DIMENSION	TYPE THRESHOLD	POSITIVE	NEGATIVE
39.125" x 99.313"	35.75" x 95.313"	SADDLE (IS)	+55.0 PSF	-55.0 PSF
39.125" x 97.813"	35.75" x 95.313"	BUMP (OS)	+55.0 PSF	-55.0 PSF
39.125" x 97.813"	35.75" x 95.313"	ADA (IS/OS)	+55.0 PSF	-55.0 PSF
39.125" x 97.813"	35.75" x 95.313"	NO BUMP (OS)	+55.0 PSF	-55.0 PSF

Documents Prepared By:
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No: 813.659.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wendell W. Haney, P.E. No. 34156

PRODUCT:
METAL-EDGE STEEL DOOR
2-PIECE ADJUSTABLE STEEL FRAME
SINGLE 3'0 x 8'0 IS / OS

PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

REVISIONS

NO	DATE		BY
2	4/18/05	REVISED DP CHART FOR CLARITY	WWH
1	4/14/05	ADA O/S BUMP SILL & W/S	WWH

DATE: 2/22/05
SCALE: N.T.S.
DWG BY: RAH
CHK BY: WWH
DRAWING NO. FL-449
SHEET 1 OF 6

Date Submitted	03/11/2005
Date Validated	06/06/2005
Date Pending FBC Approval	06/07/2005
Date Approved	06/10/2005
Date Revised	12/31/2005

Summary of Products

FL #	Model, Number or Name	Description
4242.1	a. Masonite Metal-Edge Steel Door	Up to a 3'0 x 6'8 In-swing or Out-sv Steel Door in a Fast Frame 2-Piece
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the State of Florida including the "HVHZ". When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require a protective covering. Maximum Design Pressure Rating – Positive 66.0 PSF and Negative 66.0 PSF (see 4242.1 INST for any additional size and use limitations).		Certification Agency Certificate Installation Instructions PTID_4242_1_4242.1 INST.pdf PTID_4242_1_4242.2 INST.pdf PTID_4242_1_4242.3 INST.pdf Verified By:
4242.2	b. Masonite Metal-Edge Steel Door	Up to a 3'0 x 8'0 In-swing or Out-sv Steel Door in a Fast Frame 2-Piece
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the State of Florida including the "HVHZ". When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require a protective covering. Maximum Design Pressure Rating – Positive 55.0 PSF and Negative 55.0 PSF (see 4242.2 INST for any additional size and use limitations).		Certification Agency Certificate Installation Instructions Verified By:
4242.3	C. Masonite Metal-Edge Steel Door	Up to a 6'0 x 6'8 In-swing or Out-sv Steel Door in a Fast Frame 2-Piece
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the State of Florida including the "HVHZ". When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require a protective covering. Maximum Design Pressure Rating – Positive 50.5 PSF and Negative 50.5 PSF (see 4242.3 INST for any additional size and use limitations).		Certification Agency Certificate Installation Instructions Verified By:

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DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard

Community Affairs

Product Approval
USER: Public User

FL #	FL1170-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer Address/Phone/Email	Therma-Tru Corporation 118 Industrial Drive Edgerton, OH 43517 (419) 298-1740 sjasperson@tttechnologies.us
Authorized Signature	Steve Jasperson sjasperson@tttechnologies.us
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute,
Referenced Standard and Year (of Standard)	Standard ASTM E 330 ASTM E1300 ASTM E1996 PA 201, 203 PA 202
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A

Impact Resistant: No **Design Pressure:** +35 /-35 **Other:** H-R35 (48in x 60in). Configurations of glass conform to ASTM E1300-02.	FL6431_R1_IL_FLORIDA_P.E._DRAW... 1472.pdf Verified By: Warren Schaefer 44135

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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:

Certification Agency	Window and Door Manufacturers Association
Referenced Standard and Year (of Standard)	**Standard** AAMA/WDMA/CSA 101/I.S.2/A440-05 ANSI/AAMA/NWWDA 101/I.S.2-97 ASTM E1300-02
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	03/22/2007
Date Validated	04/12/2007
Date Pending FBC Approval	04/16/2007
Date Approved	05/08/2007

Summary of Products

FL #	Model, Number or Name	Description
6431.1	Series/Model 10	(411-H-808.10/.11) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35 /-35 **Other:** H-R35 (48in x 72in). Configurations of glass conform to ASTM E1300-02.		**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWINC 1472.pdf Verified By: Warren Schaefer 44135
6431.2	Series/Model 10	(411-H-808.12/.13) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35 /-35 **Other:** H-R35 (36in x 72in). Configurations of glass conform to ASTM E1300-02.		**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWINC 1472.pdf Verified By: Warren Schaefer 44135
6431.3	Series/Model 10	(411-H-808.08/.09) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35 /-35		**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAV 1472.pdf

Other: H-R35 (48in x 84in). Configurations of glass conform to ASTM E1300-02.	Verified By: Warren Schaefer 44135
6431.4 Series/Model 10	(411-H-808.06/.07) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35 /-35 **Other:** H-R35 (48in x 84in). Configurations of glass conform to ASTM E1300-02.	**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWING 1472.pdf Verified By: Warren Schaefer 44135
6431.5 Series/Model 10	(411-H-808.04/.05) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35 /-35 **Other:** H-R35 (36in x 60in). Configurations of glass conform to ASTM E1300-02.	**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWING 1472.pdf Verified By: Window and Door Manufac Association
6431.6 Series/Model 10	(411-H-807.00/.01) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50 /-50 **Other:** H-R50 (42in x 72in). Configurations of glass conform to ASTM E1300-02.	**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWING 1472.pdf Verified By: Warren Schaefer 44135
6431.7 Series/Model 10	(411-H-808.00/.01) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +25 /-25 **Other:** H-R25 (48in x 72in). Configurations of glass conform to ASTM E1300-02.	**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWING 1472.pdf Verified By: Warren Schaefer 44135
6431.8 Series/Model 10	(411-H-808.14/.15) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35 /-35 **Other:** H-R35 (36in x 72in). Configurations of glass conform to ASTM E1300-02.	**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions** FL6431_R1_II_FLORIDA P.E. DRAWING 1472.pdf Verified By: Warren Schaefer 44135
6431.9 Series/Model 10	(411-H-808.02/.03) Vinyl Single Hung V
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes	**Certification Agency Certificate** FL6431_R1_C_CAC_Pella CCL.pdf **Installation Instructions**

Part Number: V782588

INSTALLATION INSTRUCTIONS FOR DOUBLE-HUNG, SINGLE-HUNG, SLIDING, FIXED, CASEMENT & AWNING WINDOW WITH NAIL FIN

Illustrations shown are for a Double-Hung Window product. The steps are the same as the Single-hung, Sliding, Fixed, Casement, and Awning units. Notes are provided at steps where the information is not the same for all products.

Installation Instructions for Typical Wood Frame Construction.

These instructions were developed and tested for use with typical wood frame wall construction in a wall system designed to manage water. **These instructions are not to be used with any other construction method.** Installation instructions for use with other construction methods may be obtained from Pella Corporation, a local Pella retailer, or by visiting ***http://www.thermastarbypella.com***. Building designs, construction methods, building materials, and site conditions unique to your project may require an installation method different from these instructions and additional care. Determining the appropriate installation method is the responsibility of you, your architect, or construction professional.

Handling and Storage:

Provide full support under the framework while storing, moving and installing the product. DO NOT lift the product by the head member only. Remove the plastic shipping material prior to storing or installing the product. DO NOT store in direct sunlight. Allow sufficient spacing between products for ventilation.

YOU WILL NEED TO SUPPLY:

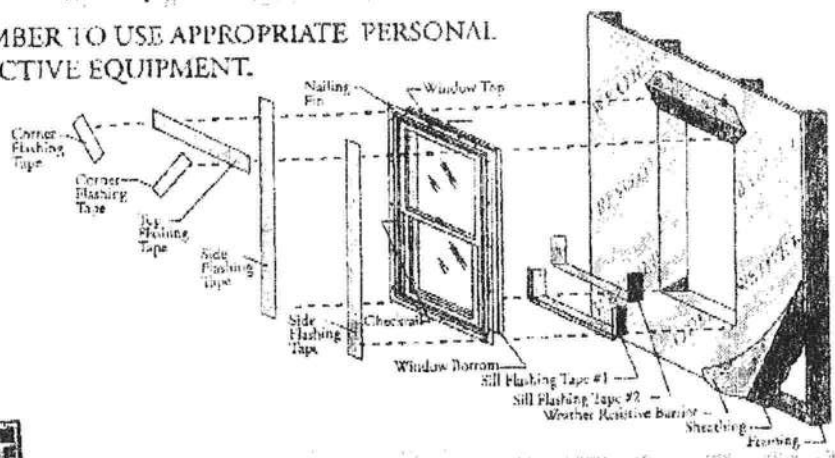
- Cedar shims/spacers (12 to 20)
- 2" galvanized roofing nails (1/4 lb.)
- Closed cell foam backer rod/sealant backer (12 to 30 ft.)
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent
- Great Stuff™ Window and Door Insulating Foam Sealant by the Dow Chemical Company or equivalent low pressure polyurethane window and door foam - DO NOT use high pressure or latex foams.
- High quality exterior grade polyurethane or silicone sealant (1 tube per window)

TOOLS REQUIRED:

- Tape measure
- Level
- Square
- Hammer
- Stapler
- Scissors or utility knife
- Small flat blade screwdriver

Installation will require (2) or more persons for safety reasons.

REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.



LIMITED LIFETIME WARRANTY

Always read the ThermaStar by Pella™ Limited Warranty before purchasing or installing ThermaStar by Pella products. By installing this product, you are acknowledging that this Limited Warranty is part of the terms of the sale. Failure to comply with all Pella installation and maintenance instructions may void your Pella limited warranty. See Limited Warranty for complete details at ***http://warranty.thermastar.com***.

FLORIDA DEPARTMENT OF Community Affairs

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Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval

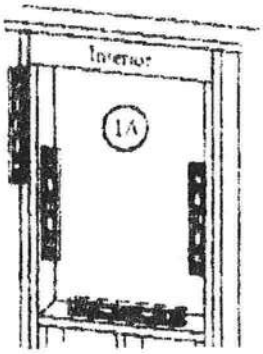
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

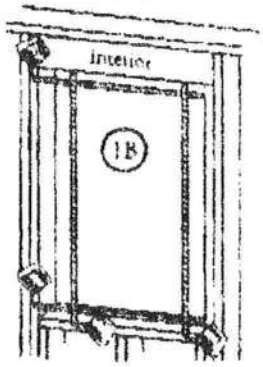
FL #	FL6431-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Pella Corporation
Address/Phone/Email	102 Main St. Pella, IA 50219 (641) 621-1000 jahayden@pella.com
Authorized Signature	Joseph Hayden jahayden@pella.com
Technical Representative	Todd Umbel
Address/Phone/Email	2000 Proline Place Gettysburg, PA 17325 umbeltp@pella.com
Quality Assurance Representative	Todd Umbel
Address/Phone/Email	2000 Proline Place Gettysburg, PA 17325 umbeltp@pella.com
Category	Windows
Subcategory	Single Hung
Compliance Method	Certification Mark or Listing

1 ROUGH OPENING PREPARATION

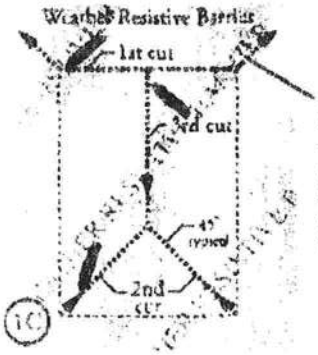
A. **Verify the opening is plumb, level and square.** Ensure the bottom of the rough opening does not slope toward the interior. ***Note: Do not install in out-of-square opening or on a surface that is not level.***



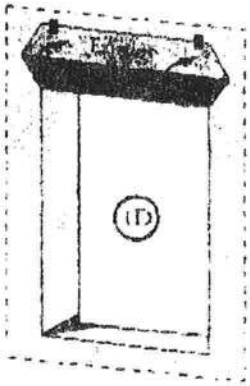
B. **Verify the window will fit the opening.** Measure all four sides of the opening to make sure it is 1/2" larger than the window in both width and height. On larger openings measure the width and height in several places to ensure the header or studs are not bowed.
Note: 1-1/2" or more of solid wood blocking is required around the perimeter of the opening. Fix any problems with the rough opening before proceeding.



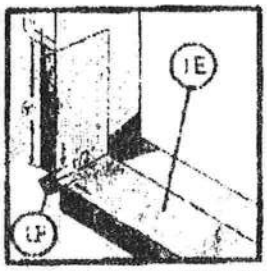
C. Cut the **weather resistive barrier** (1C).



D. **Fold the weather resistive barrier** (1D). Fold side and bottom flaps into the opening and staple to inside wall. Fold top flap up and temporarily fasten with flashing tape.

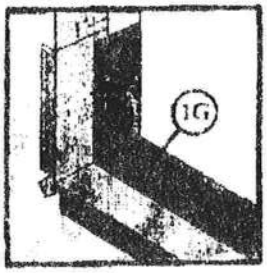


E. **Apply sill flashing tape #1.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom of the opening as shown (1E) so it overhangs 1" to the exterior.
Note: The tape is cut 12" longer than the width so that is will extend 6" up each side of the opening.

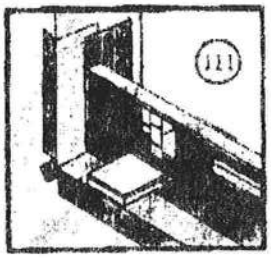


F. **Tab the sill flashing tape and fold.** Cut 1" wide tabs at each corner (1/2" from each side of corner) (1F). Fold tape to the exterior and press firmly to adhere it to the weather resistive barrier.

G. **Apply sill flashing tape #2.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom, overlapping tape #1 by at least 1". Do not allow the tape to extend past the interior face of the framing (1G).
Note: The flashing tape does not need to extend all the way to the interior of the framing.



1I. **Install and level sill.** Place 1" wide by 1/4" thick shims on the bottom of the window opening, 1/2" from each side, beneath transition bars, mullion joints and sliding window interlockers. Place an additional 1" wide by 1/4" thick shims, ensuring that the distance between shims is not more than 18" on center. Adjust shims as necessary to ensure the sill is level.



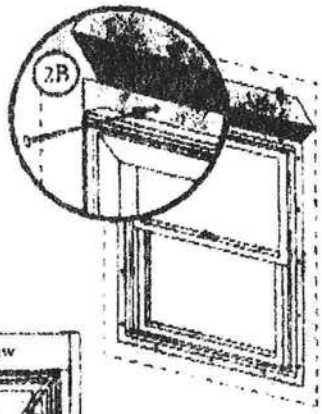
Note: To determine the depth of the shim, measure the distance from the back of the fin to the interior frame edge and cut the shim to this dimension. Place the exterior edge of the shim flush with the exterior of the building. Improper placement of shims may result in bowing the bottom of the window.

2 SETTING AND FASTENING THE WINDOW

A. Remove packaging from window. DO NOT open the window until it is fully fastened. Inspect the unit for any crack or penetration in the frame. DO NOT install damaged units.

TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING STEPS.

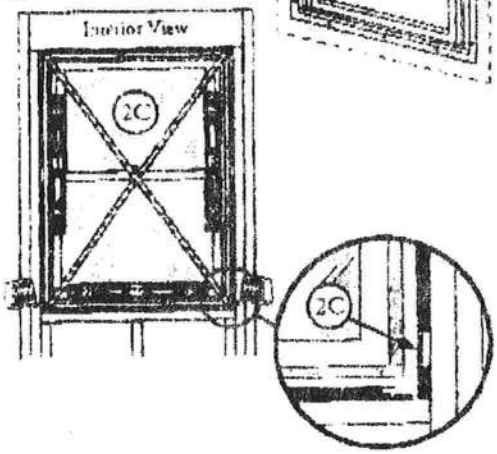
B. **Insert the window from the exterior of the building.** Place the bottom of the window on the spacer at the bottom of the opening, then tilt the top into position. Center the window between the sides of the opening to allow clearance for shimming, and insert one roofing nail in the first hole from the corner on each end of the top nailing fin. These are used to hold the window in place while shimming it plumb and square. ***Note: DO NOT drive the nail all the way in.***



C. **Plumb and square window.** Place shims 1" from the bottom and top of the window between the window and the sides of the opening. Adjust the shims as required to plumb and square the window in the opening.

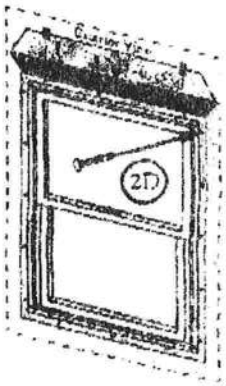
Casement, Fixed & Sliding: If the frame height exceeds 47", place shims at the midpoint of the window sides.

Double and Single-hung: Be sure to shim at the checkrail. If the frame height exceeds 47", place additional shims midway between the checkrail shims and both the top and bottom shims.



D. **Fasten the window to opening** by driving 2" galvanized roofing nails into every other pre-punched hole in the nailing fin. Drive nails until the head contacts the fin, however do not sink the head. This allows for movement of building materials.

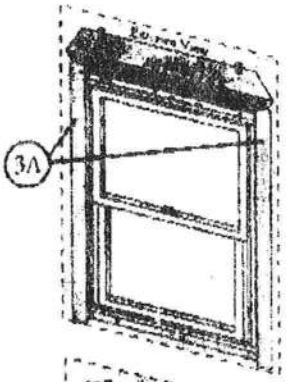
DP 50: Insert #8 x 2" pan head stainless steel wood screws with flat washers into every pre-punched hole in the nailing fin. Drive screws until the head/washer contacts the fin, however do not sink the washer. This allows for movement of building material.



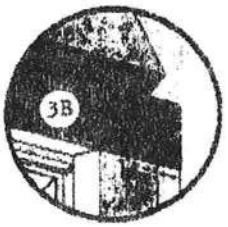
E. Check window operation (vent units only). Open and close the window a few times to check for proper operation. Close and lock the window. Double and Single-hung: Make sure the window will tilt correctly. ***Note: If there are any problems with the operation of the window, recheck shim locations and adjust for plumb and square.***

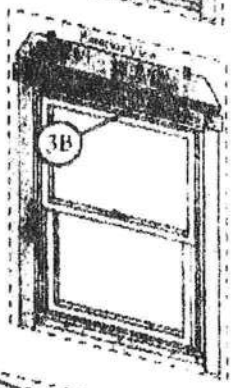
3 INTEGRATING THE WINDOW TO THE WEATHER RESISTIVE BARRIER

A. Apply side flashing tape. Cut 2 pieces of flashing tape 4" longer than the frame height of the window. Apply one piece to each side over the nailing fin and onto the weather resistive barrier. The tape should extend 2" above the top of the window and 2" below the bottom of the window. Press the tape down firmly.



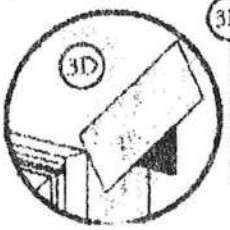
B. Apply top flashing tape. Cut a piece of flashing tape long enough to go across the top of the window and extend at least 1" past the side flashing tape on both sides. Apply the tape over the top nailing fin as shown. Press the tape down firmly.
Note: DO NOT tape or seal the bottom nailing fin.

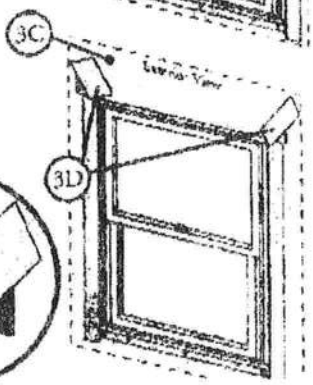




C. Fold down top flap of weather resistive barrier (3C).

D. Apply flashing tape to diagonal cuts. Cut pieces of flashing tape at least 1" longer than the diagonal cuts in the weather resistive barrier. Apply the tape, covering the entire diagonal cut in the weather resistive barrier at both upper corners of the window. Press the tape down firmly.
Note: Be sure to overlap the top corners (3D).



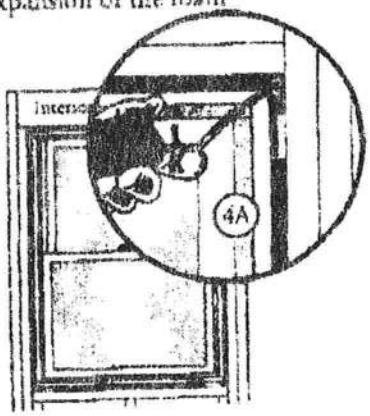


4 INTERIOR SEAL

Caution: Ensure use of low pressure polyurethane window and door insulating foams and strictly follow the foam manufacturer's recommendations for application. Use of high pressure foams or improper application of the foam may cause the window frame to bow and hinder operation.

A. Apply insulating foam sealant. From the interior, insert the nozzle of the applicator approximately 1" deep into the space between the window and the rough opening and apply a 1" deep bead of foam. This will allow room for expansion of the foam and will minimize squeeze out. For windows with jamb extensions installed, ensure the foam is placed between the window frame and the rough opening, not between the jamb extension and the rough opening. If using insulating foam other than Great Stuff™ Window and Door Insulation Foam by the Dow Chemical Company, allow the foam to cure completely (usually 8 to 24 hours) before proceeding to the next step.

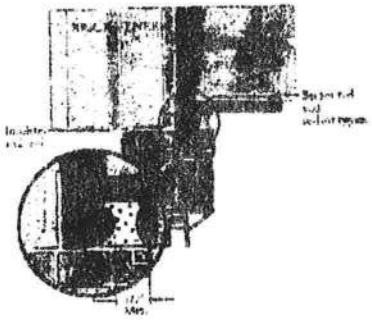
Note: It may be necessary to squeeze the end of the tube with pliers to be able to insert into the space between the window frame and the rough opening. DO NOT completely fill the space from the back of the fin to the interior face of the window.

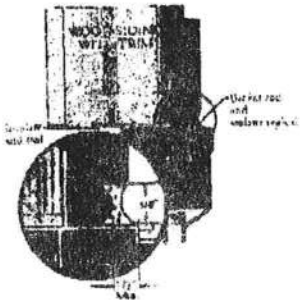


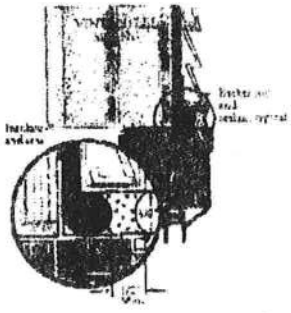
B. Check window operation by opening and closing the window.
Note: If the window does not operate correctly, check to make sure it is still plumb, level, square and that the sides are not bowed. If adjustments are required, remove the foam with a serrated knife. Adjust the shims, and reapply the insulating foam sealant.

5 SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING

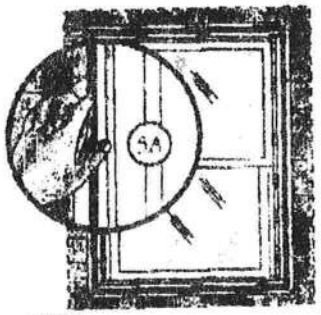
Note: The Vinyl/Steel siding detail below applies to windows that do not have a J-mould as part of the frame. For windows that have J-mould as part of the frame. this step should be omitted. When using windows that have J-mould as part of the frame in masonry or with wood siding, the J-mould must be removed from the frame, and the backer rod sealant must be applied as shown in the details below.





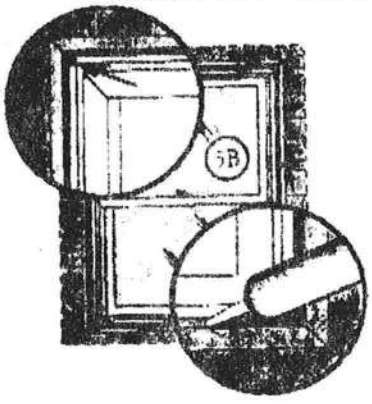


A. Insert closed cell foam backer rod into the space around the window as deep as it will go. This should provide at least a 1/2" clearance between the backer rod and the exterior face of the window.
Note: Backer rod adds shape and depth for the sealant line.



B. Apply a bead of high quality exterior grade sealant to the entire perimeter of the window. Note: Refer to the sealant manufacturer's label to verify compatibility with vinyl and the adjoining building components and priming requirements.

C. Shape, tool and clean excess sealant. When finished, the sealant should be the shape of an hourglass.
Note: This method creates a more flexible sealant line capable of expanding and contracting.



CLEANING INSTRUCTIONS

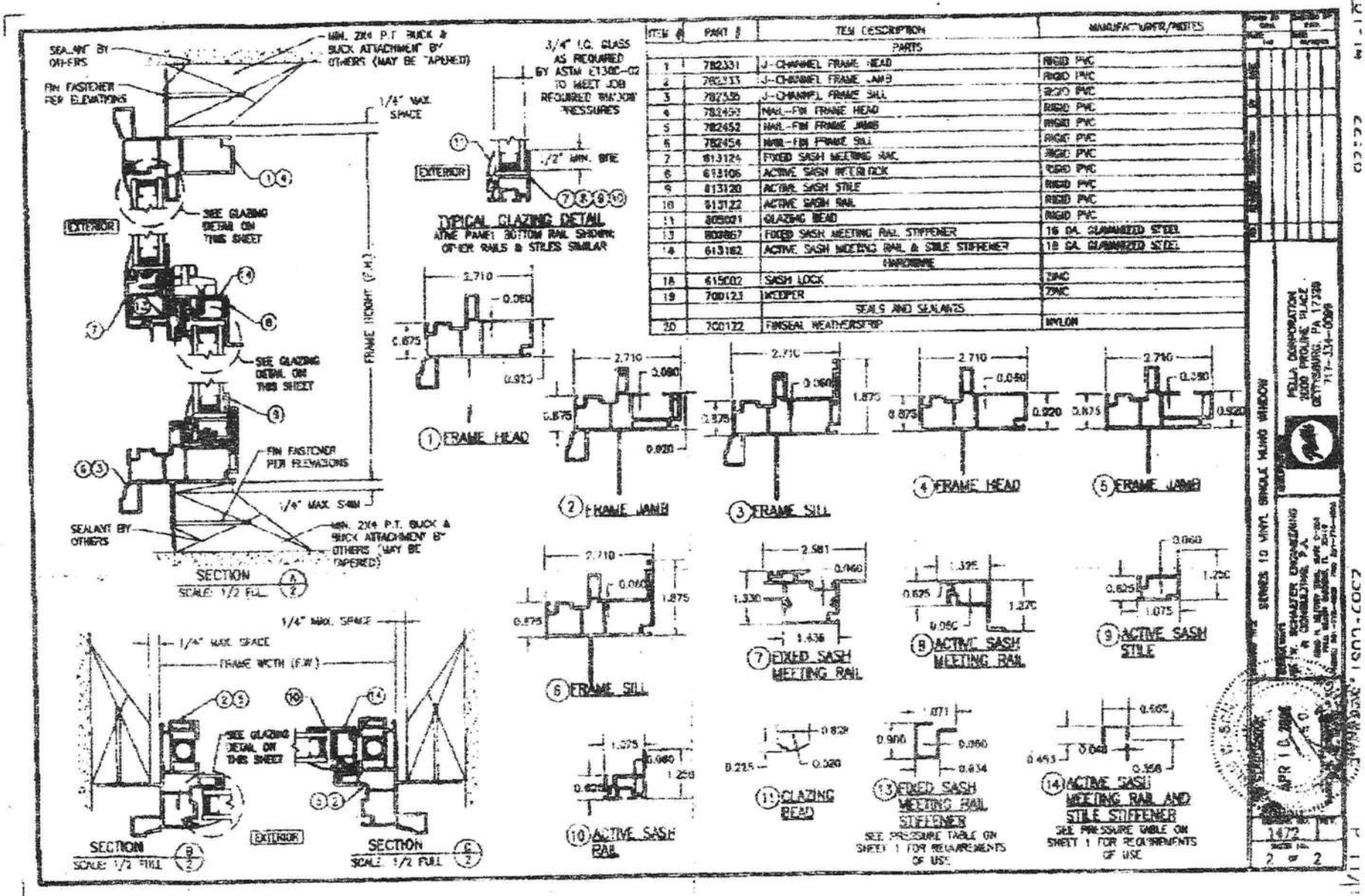
Remove labels and clean the glass, using a soft, clean, grit-free cloth and mild soap or detergent. Be sure to remove all liquid by wiping dry or use a clean squeegee. The vinyl frame may be cleaned as described above. For stubborn dirt, a "non-abrasive" cleaner such as Bon-Ami® or Soft Scrub® may be used. Do not use solvents such as mineral spirits, toluene, xylene, naphtha or muriatic acid as they can dull the finish, soften the vinyl and/or cause failure of the insulated unit seal. Keep door tracks clear of dirt and debris. Keep weep holes open and clear of obstructions.

IMPORTANT NOTICE

Because all construction must anticipate some water infiltration, it is important that the wall system be designed and constructed to properly manage moisture. Pella Corporation is not responsible for claims or damages caused by anticipated and unanticipated water infiltration, deficiencies in building design, construction and maintenance; failure to install Pella products in accordance with Pella's installation instructions; or the use of Pella products in wall systems which do not allow for proper management of moisture within the wall systems. The determination of the suitability of all building components, including the use of Pella products, as well as the design and installation of allow for proper management of moisture within the wall systems. The determination of the suitability of all building components, including the use of Pella products, as well as the design and installation of flashing and sealing systems are the responsibility of the Buyer or User, the architect, contractor, installer, or other construction professional and are not the responsibility of Pella.

Pella products should not be used in barrier wall systems which do not allow for proper management of moisture within the wall systems, such as barrier Exterior Insulation and Finish Systems, (EIFS) (also known as synthetic stucco) or other non-water managed systems. Except in the states of California, New Mexico, Arizona, Nevada, Utah, and Colorado, **Pella makes no warranty of any kind on and assumes no responsibility for Pella windows and doors installed in barrier wall systems. In the states listed above, the installation of Pella Products in barrier wall or similar systems must be in accordance with Pella's installation instructions.**

Product modifications that are not approved by Pella Corporation will void the Limited Warranty.



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
		PARTS	
1	782331	J-CHANNEL FRAME HEAD	RIGID PVC
2	782333	J-CHANNEL FRAME JAMB	RIGID PVC
3	782335	J-CHANNEL FRAME SILL	RIGID PVC
4	782451	NAIL-FIN FRAME HEAD	RIGID PVC
5	782452	NAIL-FIN FRAME JAMB	RIGID PVC
6	782454	NAIL-FIN FRAME SILL	RIGID PVC
7	813124	FIXED SASH MEETING RAIL	RIGID PVC
8	813105	ACTIVE SASH INTERLOCK	RIGID PVC
9	813120	ACTIVE SASH STILE	RIGID PVC
10	813122	ACTIVE SASH RAIL	RIGID PVC
11	805001	GLAZING BEAD	RIGID PVC
13	800867	FIXED SASH MEETING RAIL STIFFENER	16 GA. GALVANIZED STEEL
14	813182	ACTIVE SASH MEETING RAIL & STILE STIFFENER	18 GA. GALVANIZED STEEL
		HARDWARE	
18	615002	SASH LOCK	ZINC
19	700121	KEEPER	ZINC
		SEALS AND SEALANTS	
20	700122	FINSEAL WEATHERSTRIP	NYLON

SERIES 10 VINYL SINGLE HUNG WINDOW

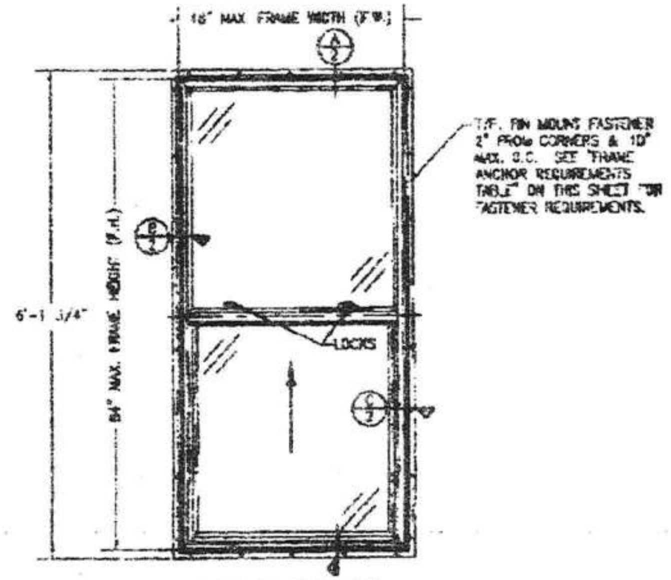
HELLA CORPORATION
2000 PINOLINE PLACE
GETTYSBURG, PA 17325
717-334-0069

SCHAEFER ENGINEERING P.A.

APR 10 2006

1472

2 of 2



EXTERIOR ELEVATION
NOT TO SCALE

ALLOWABLE DESIGN PRESSURE					
WINDOW SIZE		STILE REINFORCEMENT	FIXED SASH MEETING RAIL REINFORCEMENT	ACTIVE SASH MEETING RAIL REINFORCEMENT	ALLOWABLE PRESSURE (POSITIVE & NEGATIVE) (PSF)
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)				
36	58.5	NO	NO	YES	35
36	72	NO	NO	YES	35
36	74	NO	YES	YES	40
42	72	YES	YES	YES	50
[illegible]	[illegible]	[illegible]	YES	YES	[illegible]
[illegible]	72	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	72	[illegible]	[illegible]	[illegible]	[illegible]
48	[illegible]	[illegible]	YES	YES	[illegible]
48	84	YES	YES	YES	40

WINDOW HAS A MAXIMUM 24" TALL BOTTOM VENT.
WINDOW HAS A MAXIMUM 36" TALL BOTTOM VENT.
WINDOW HAS EQUAL TOP & BOTTOM VENTS.

GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY REFERENCED ON THE DRAWINGS.
4. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH & MEET THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE (FBC) FOR USE IN NON-HIGH VELOCITY HURRICANE ZONES.
5. THESE WINDOWS HAVE BEEN TESTED IN ACCORDANCE WITH [illegible] 2-97 & [illegible] "VOLUNTARY SPECIFICATIONS FOR ALUMINUM, VINYL (PVC) AND WOOD WINDOWS AND GLASS DOORS." REFERENCE TEST REPORT NO'S. [illegible] BY ARCHITECTURAL TESTING, INC. (ATI) AS APPLICABLE TO THESE DRAWINGS.
6. TESTS COMPLETED INCLUDE AIR INFILTRATION PER ASTM E283, WATER RESISTANCE PER ASTM E547 AND E331, UNIFORM LOAD STRUCTURAL PER ASTM E330 & FORCED ENTRY PER ASTM F588.
7. THESE WINDOW SYSTEMS ARE NON-IMPACT RATED & MUST BE PROTECTED WHERE REQUIRED BY CODE.
8. ALL WINDOW SIZES SPECIFIED AS ALLOWABLE IN THE "ALLOWABLE DESIGN LOAD TABLE" HAVE BEEN COMPARED TO THE TESTED UNITS AND ARE RESTRICTED BY THE OVERALL SIZE (AREA) OF THE TESTED UNITS.
9. GLASS SHALL BE AS SPECIFIED IN THE GLAZING DETAIL(S). GLASS TO BE USED IN ANY SPECIFIC PROJECT SHALL BE AS REQUIRED BY ASTM E1300-02 TO MEET THE JOB SPECIFIED WINDOW DESIGN PRESSURES.
10. TO THE BEST OF OUR KNOWLEDGE, THE WINDOWS SHOWN HEREIN ARE [illegible]
11. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATIONS, CONNECTIONS, [illegible]
12. IF ANY [illegible]
13. ALL FRAME [illegible]
14. [illegible]
1. [illegible]
2. [illegible]
3. [illegible]

FRAME ANCHOR REQUIREMENTS TABLE			
FIN SCREWS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X, WOOD FRAME OR BUCK	2" X 11 GA. ROOFING NAILS	1 3/4"	1/2"
2X, WOOD FRAME OR BUCK	(1) NO. 8 P.H. SMS SCREW	1 1/4"	1/2"
(1) P.H. SCREW MAY BE A F.H. SCREW IF USED WITH A WASHER.			

SERIES 10 VINYL SINGLE HUNG WINDOW

PELLA CORPORATION
2000 PROUNE PLACE
GETTYSBURG, PA 17325
717-334-0088

SCHAEFER ENGINEERING & CONSULTING, P.A.

APR 10 2007

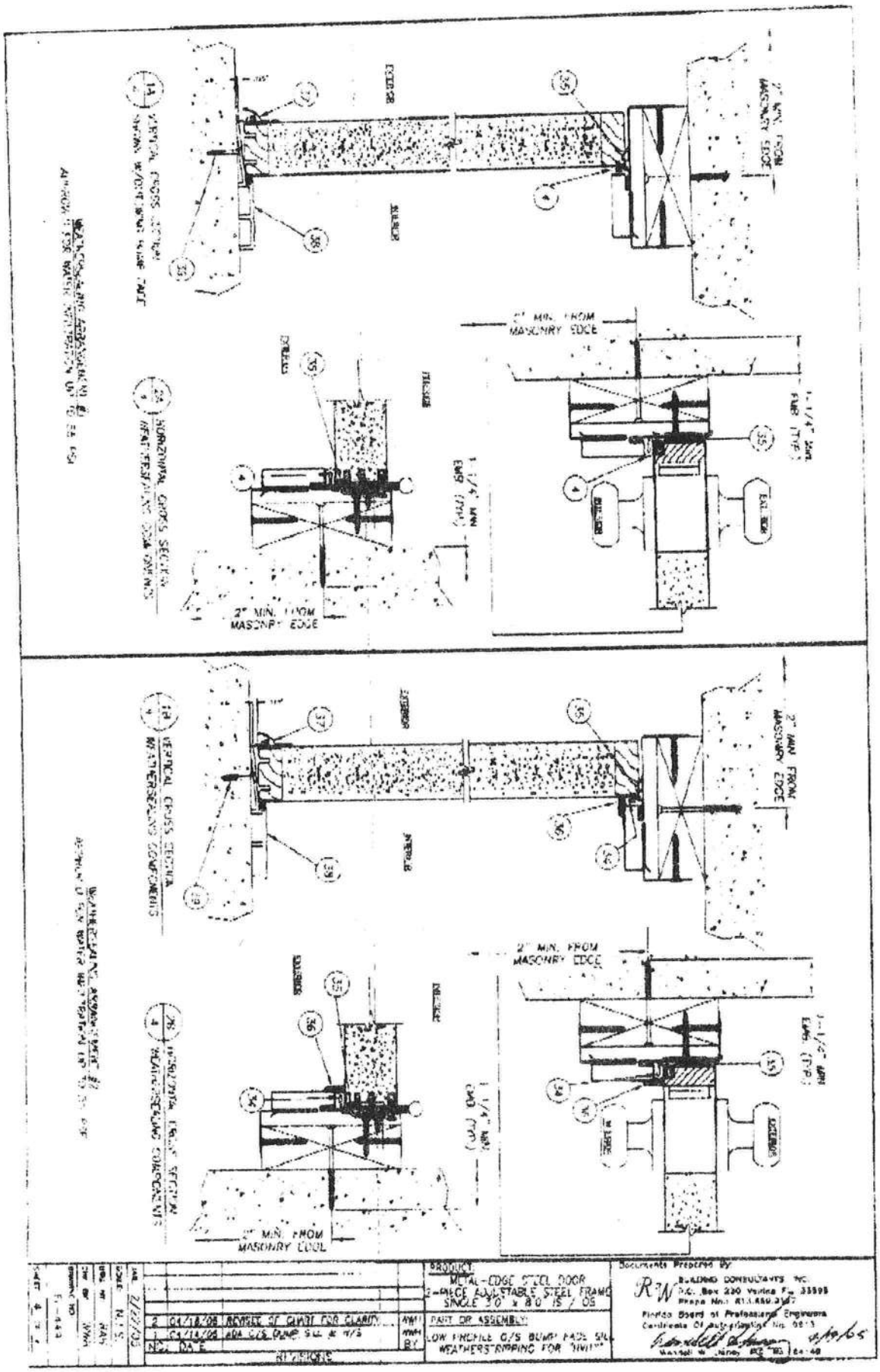
1472

SHEET NO. 1 OF 2

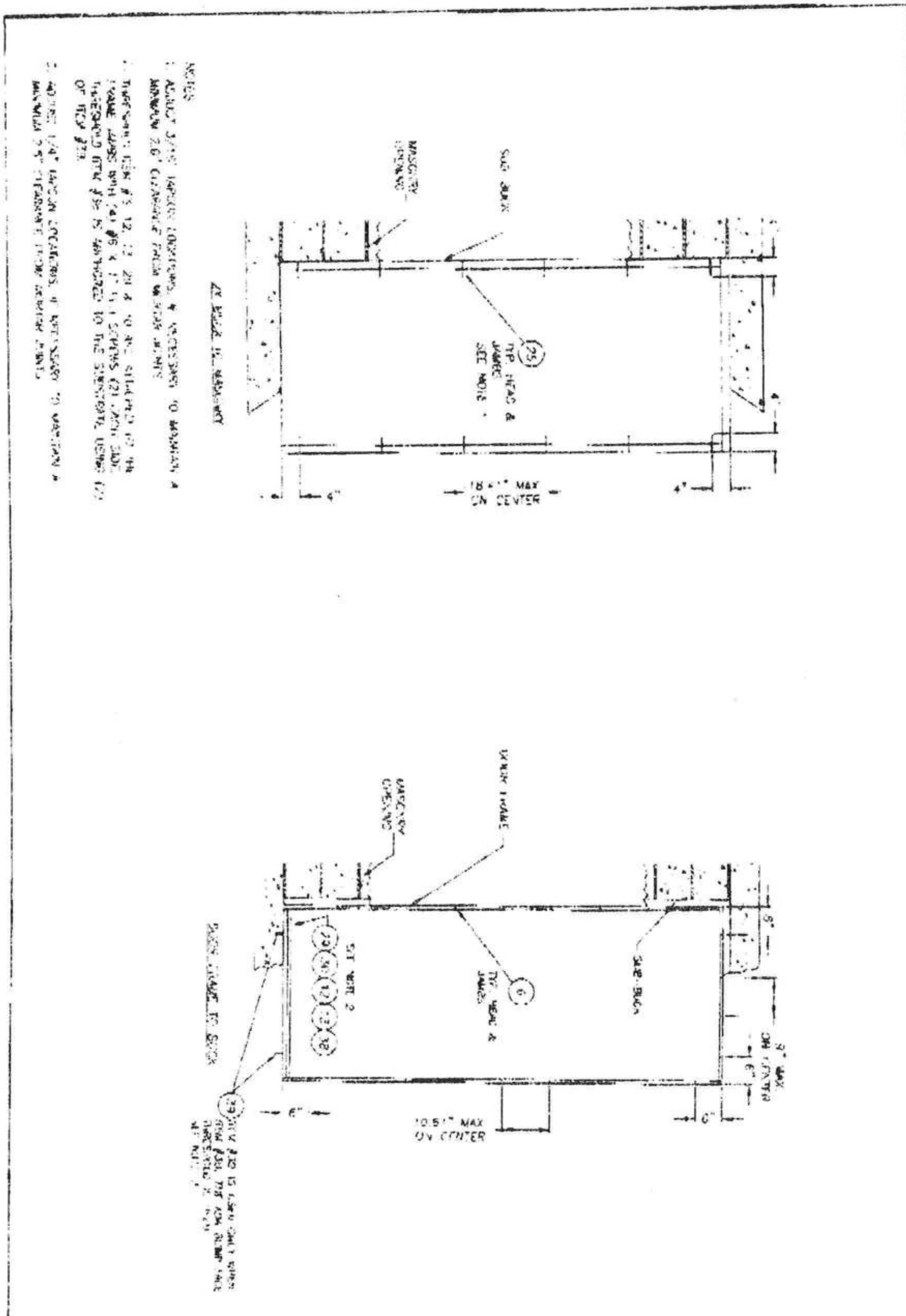
(1) Door

(2)

Door


2" MIN. FROM MASONRY EDGE
2" MIN. FROM MASONRY EDGE
2" MIN. FROM MASONRY EDGE
2" MIN. FROM MASONRY EDGE
PRODUCT:
METAL-EDGE STEEL DOOR
2-PIECE ADJUSTABLE STEEL FRAME
SINGLE 3'0" x 8'0" IS / OS
PART OR ASSEMBLY:
LOW PROFILE O/S BUMP PADS S/L
WEATHERSTRIPPING FOR "INVIT"
Documents Prepared By:
RW
BUILDING CONSULTANTS INC.
P.O. Box 220 Venice FL 34295
Phone No.: 813.486.2167
Florida Board of Professional Engineers
Certificate Of Authorization No. 0013
2 04/18/08 REVISE SF SHOT FOR CLARITY
1 03/18/08 ADA O/S BUMP S/L & W/S
NO. DATE
BY
2/27/05

③ Door



2	4/18/05	REVISED DP CHART FOR CLARITY	WWR
1	2/14/05	ADD 0/3 BUMP SILL & W/X	WWR
NO.	DATE	REVISIONS	BY

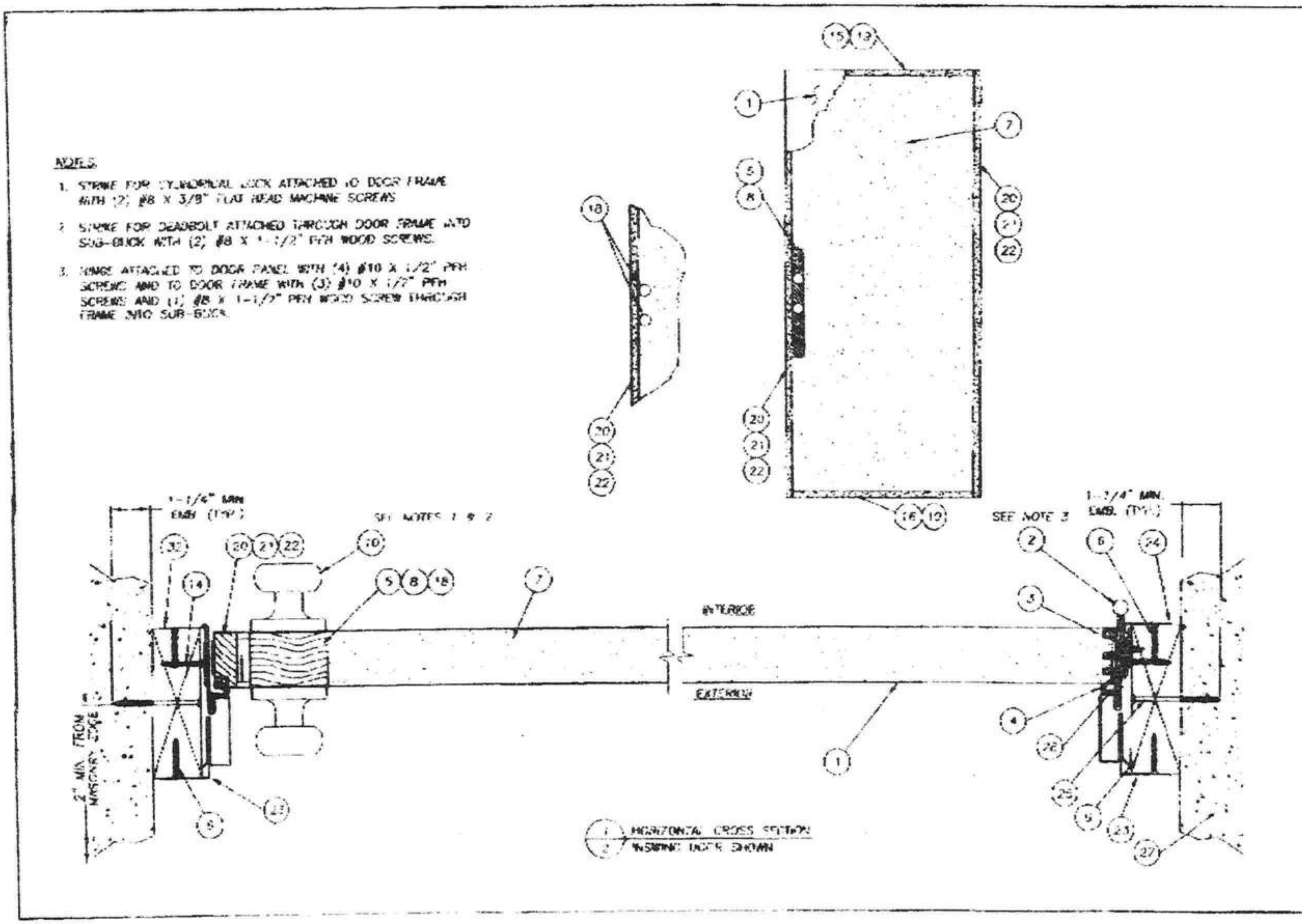
DATE 2/22/05 · SCALE N.T.S. · DWN. BY RS&C · CHK. BY WWR · DRAWING NO. FL 443 · SHEET 1 OF 6

PRODUCT:
METAL-EDGE STEEL DOOR
2-PIECE ADJUSTABLE STEEL FRAME
SINGLE 3'0 x 8'0 IS 7 OS

PART OR ASSEMBLY:
BUCK & DOOR
ANCHORING

Documents Prepared By:
R&W BUILDING CONSULTANTS INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813 659.0157
Florida Board of Professional Engineers
Certificate Of Authorization No. 3613
4/19/05
Wendel W. Wenge, P.E. No. 44185

④ Door



NOTES:

1. STRIKE FOR CYLINDRICAL LOCK ATTACHED TO DOOR FRAME WITH (2) #8 X 3/8" FLAT HEAD MACHINE SCREWS
2. STRIKE FOR DEADBOLT ATTACHED THROUGH DOOR FRAME INTO SUB-BUCK WITH (2) #8 X 1-1/2" PFH WOOD SCREWS.
3. HINGE ATTACHED TO DOOR PANEL WITH (4) #10 X 1/2" PFH SCREWS AND TO DOOR FRAME WITH (3) #10 X 1/2" PFH SCREWS AND (1) #8 X 1-1/2" PFH WOOD SCREW THROUGH FRAME INTO SUB-BUCK.

NO.	DATE	REVISIONS	BY
2	4/18/08	REVISED BP CHART FOR CLARITY	WWH
1	4/14/05	ADD O/S BUMP SILL & W/S	WWH

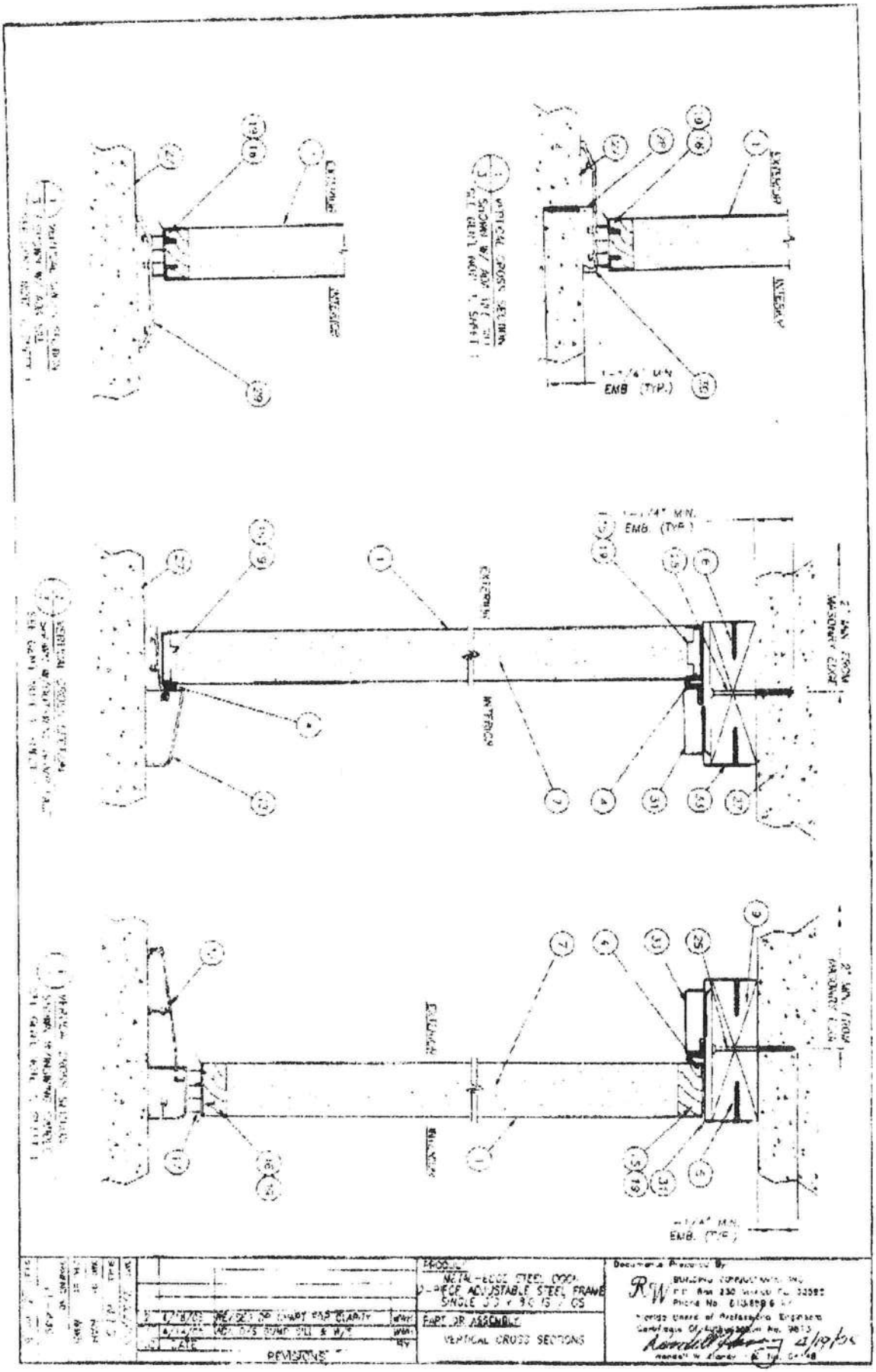
DATE: 2/22/05
SCALE: N.T.S.
DWG. BY: RAH
CHK. BY: WWH
DRAWING NO.: FL-449
SHEET 2 of 5

PRODUCT: METAL EDGE STEEL DOOR 2-PIECE ADJUSTABLE STEEL FRAME SINGLE 3'0 x 8'0 IS 7 05

PART OR ASSEMBLY: HORIZONTAL CROSS SECTION

Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No. 813 659 9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wardell W. Haney, P.E. No. 58144
4/9/05

(5) Door


EMB (TYP.)
EMB (TYP.)
EMB (TYP.)
METAL-CLAD STEEL DOOR
2-PIECE ADJUSTABLE STEEL FRAME
SINGLE DOOR
PART OR ASSEMBLY
VERTICAL CROSS SECTIONS
REVISIONS
Document Prepared By
Florida Board of Professional Engineers

Columbia County Building Permit Application

For Office Use Only Application # 0801-110 Date Received 1-22-08 By LH Permit # 27069

Zoning Official BLK Date 30.01.08 Flood Zone X FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE 1 ft above Rd River N/A Plans Examiner OKYH Date 2-1-08

Comments no truss plans ✓

NOC EH Deed or PA Site Plan State Road Info Parent Parcel #

Dev Permit # In Floodway Letter of Authorization from Contractor

Unincorporated area Incorporated area Town of Fort White Town of Fort White Compliance letter

Fax 615-740-1543

Name Authorized Person Signing Permit Frank Abram Phone 615-740-1543

Cell 615-351-0297

Address 734 S.W. Feather LN Ft. White FL

Owners Name Frank & Betty Abram Phone 615-740-1543

911 Address 734 SW Feather Ln Ft. White FL 32038

Cell 615-351-0297

Contractors Name Frank Abram Phone 615-740-1543

Address 1231 Nelson Rd. Dickson TN 37055

Fee Simple Owner Name & Address Frank Abram 1231 Nelson Rd Dickson TN 37055

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address David Disosway PO Box 868 Lake City FL. 32056

Mortgage Lenders Name & Address No one at this time but will be Tri State Bank Hwy 46 Dickson, TN 37055

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

Property ID Number 25-05-16-04321-020 Estimated Cost of Construction $50,000

Subdivision Name Rum Island Estates / Ranches Lot 46 Block N/A Unit — Phase —

Driving Directions I-75 South to 441 Hwy, to High springs Take Hwy St. 27 North To S-138 W. to Lynn Sherman Rd, to Feather Ln, go Left to 734 on Right

Number of Existing Dwellings on Property NO

Construction of S.F.D. Total Acreage 10 Lot Size 310X500

Do you need a - Culvert Permit or ~~Culvert Waiver~~ or ~~Have an Existing Drive~~ Private Dr. Total Building Height 15'6"

Actual Distance of Structure from Property Lines - Front 200 Side 130 Side 130 Rear 300

Number of Stories 1 Heated Floor Area 1696 Total Heated Floor Area ~~1696~~ 2000 Roof Pitch 2½/4/12

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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 17th **day of** January **20**08.

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**
State of ~~Florida~~ Tennessee Notary Signature (For the Owner)

PAMELIA GAIL HIGGINS STATE OF TENNESSEE NOTARY PUBLIC COUNTY OF DICKSON

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Contractor's Signature (Permitee)

Contractor's License Number _____
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 17th **day of** January **20**08

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**
State of Florida Notary Signature (For the Contractor)

PAMELIA GAIL HIGGINS STATE OF TENNESSEE NOTARY PUBLIC COUNTY OF DICKSON

STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

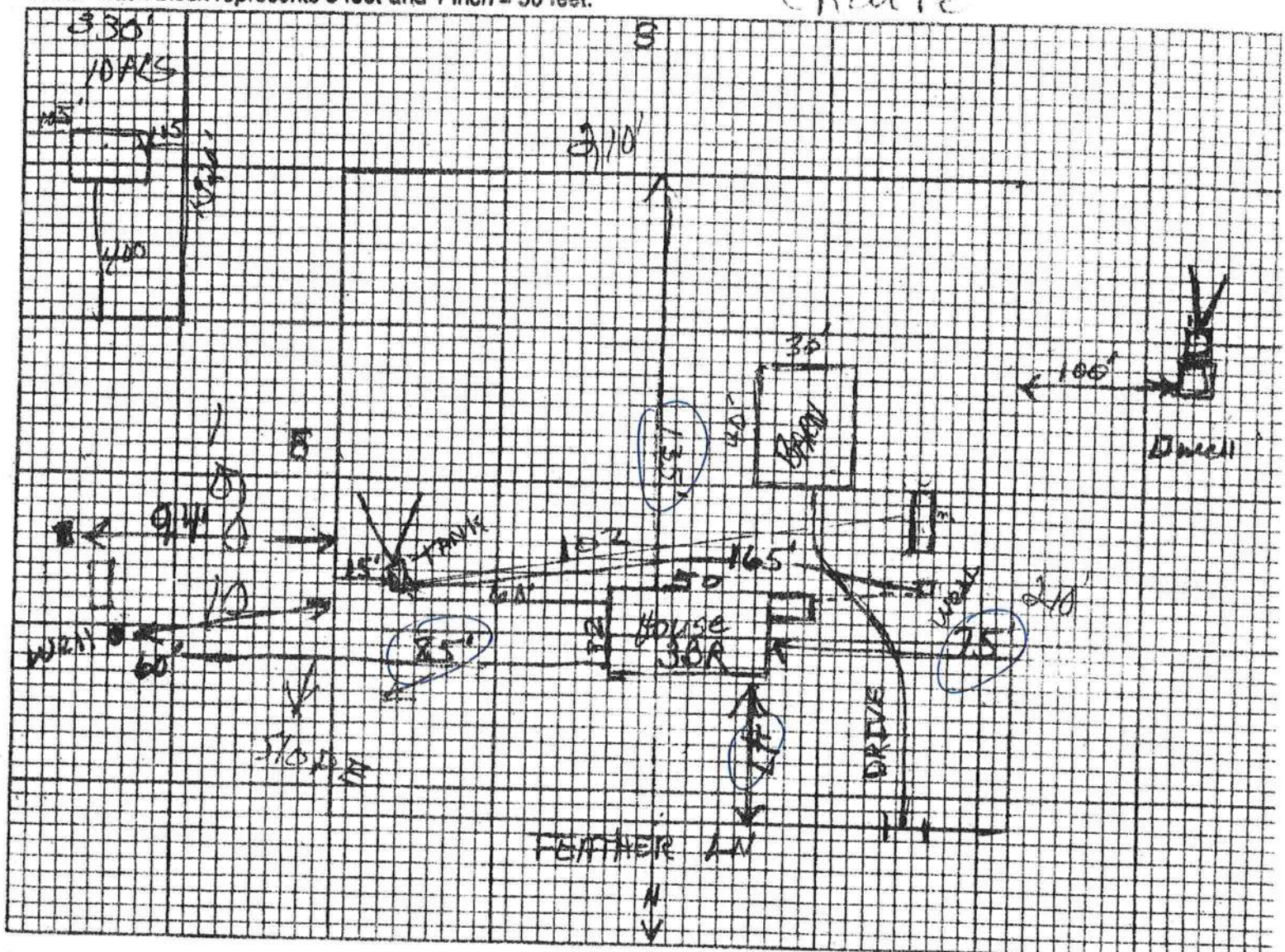
Abram

Permit Application Number 07-1897

PART II - SITE PLAN

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

Chaulc



Notes: Original Drawing of Locations were Established by A&B Construction who did the Installation. it will have no Details Taylor (A Personal Friend) to Various Dim. As I Am In Tal. At present. AGENT APPOINTED;

Site Plan submitted by: X _____ Signature

X OWNER Title

Plan Approved ✓ Not Approved _____

Date 10/23/07

By _____ Calvin County Health Departme

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/98 (Replaces HRS-H Form 4015 which may be used)
(Stock Number: 5744-002-4015-8)

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

NOTARIZED DISCLOSURE STATEMENT
FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved for yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.
I understand that if I am not physically doing the work or physically supervising free labor from friends or relatives, that I must hire licensed contractors, i.e. electrician, plumber, mechanical (heating & air conditioning), etc. I further understand that the violation of not physically doing the work, and the use of unlicensed contractors at the construction site, will cause the project to be shut down by the inspection staff of the Columbia County Building Department. Additionally, state statutes allows for additional penalties. I also understand that if this violation does occur, that in order for the job to proceed, I will have a licensed contractor come in and obtain a new permit as taking the job over. I understand that if I hire subcontractors under a contract price, that they must be licensed to work in Columbia County, i.e. masonry, drywall, carpentry. Contractors licensed by the Columbia County Contractor Licensing Section or the State of Florida are required to have worker's compensation and liability coverage.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding
( ) Other_____ ( ) Addition, Alteration, Modification or other Improvement

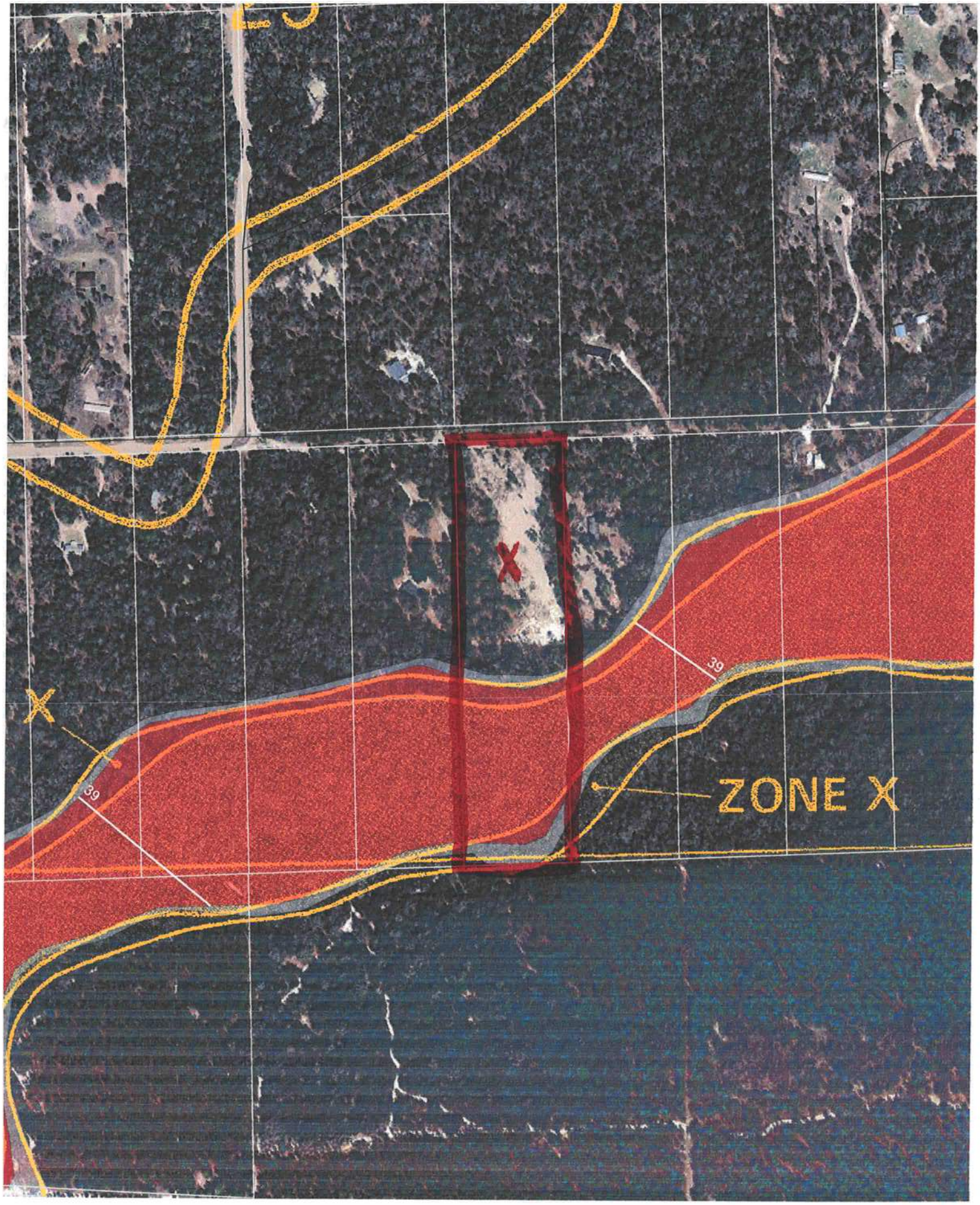
I Frank Abram , have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number _____

Frank Abram 1-17-08
Owner Builder Signature Date

FLORIDA NOTARY
The above signer is personally known to me or produced identification _____
Notary Signature Pamelia Gail Higgins Date 1/17/08

PAMELIA GAIL HIGGINS
STATE OF TENNESSEE
NOTARY PUBLIC
COUNTY OF DICKSON

FOR BUILDING DEPARTMENT USE ONLY
I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7). Date_____ Building Official/Representative_____



0801 - 110

P.O. Box 1787, Lake City, FL 32056
Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com

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: 8/8/2007 **DATE ISSUED:** 8/10/2007

ENHANCED 9-1-1 ADDRESS:

734 SW FEATHER LN

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

25-7S-16-04321-020

Remarks:

TRACT 46 RUM ISLAND RANCHES UNREC

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.

900

Return to:
ACAC/RC File # 020015
215 SE 2 Ave
Gainesville, FL 32601
Prepared by:
Deborah Bissell, an employee of
First American Title Insurance Company,
1025-3C N. Main Street
High Springs, Florida 32643-8923
386-454-2727

Inst:2002002463 Date:02/04/2002 Time:09:15:35
Doc Stamp-Deed : 220.30
mck D.C.,P.DeWitt Cason,Columbia County B:945 P:1

File Number:020015

Warranty Deed

Made this 18th day of January, 2002 A.D. By **Barbara S. Miller, an unremarried widow, and surviving spouse of Loring E. Miller, deceased and Jeffrey H. Miller**, whose address is: 2720 NE 23rd. Place, Pompano Beach, FL 33062, hereinafter called the grantor, to **Frank F. Abram and Betty A. Abram, husband and wife**, whose post office address is: 1231 Nelson Rd.,, Dickson, TN 37055, hereinafter called the grantee:

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

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

See Schedule attached hereto and made a part hereof.

Subject to covenants, restrictions, easements of record and taxes for the current year.

Parcel ID Number: 04321-020

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

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31,

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

Signed and Sealed in Our Presence:

SEE ATTACHED

- Witness

- Witness

Barbara S. Miller - Seller

Jeffrey H. Miller - Seller

Inst:200200248 3 Date:02/04/2002 Time:09:55:2e
Doc Stamp-Deed : 209.30
DC,P.DeWitt Cason,Columbia County B:945 P:2050

State of Maine

County of Lincoln

SWORN TO, SUBSCRIBED AND ACKNOWLEDGED before me this January 18, 2002, by **Jeffrey H. Miller** who produced a valid driver's license as identification

seal

Notary Public

My Commission Expires:

Susan F. Ohlson, Notary Public
State of Maine
My Commission Expires 6/26/2002

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

Signed and Sealed in Our Presence:

Cheryl E. Rhoades - Witness

Ida Carroll - Witness

Barbara S. Miller - Seller

SEE ATTACHED

Jeffrey H. Miller - Seller

Inst:2002002483 Date:02/04/2002 Time:09:55:26
Doc Stamp-Deed : 209.30
mck DC.P.DeWitt Cason,Columbia County B:945 P:2051

State of Florida

County of Broward

SWORN TO, SUBSCRIBED AND ACKNOWLEDGED before me this January 18, 2002, by **Barabara S. Miller** who produced a valid driver's license as identification.

BOBBI A. AMBROSE
MY COMMISSION # CC 974824
EXPIRES: October 12, 2004
Bonded Thru Notary Public Underwriters

Bobbi A. Ambrose seal

Notary Public

My Commission Expires: 10/12/04

Schedule "A"

The West 1/2 of the East 1/2 of the Southwest 1/4 of the Southeast 1/4 of Section 25, Township 7 South, Range 16 East, Columbia County, Florida, ALSO KNOWN AS Tract #46, Rum Island Ranches Section 1, TOGETHER WITH a non-exclusive easement for ingress and egress over and across the following land: South 25 feet of the North 1/2 of the South 1/2 and the North 25 feet of the South 1/2 of the South 1/2 of Section 25, Township 7 South, Range 16 East.

Inst:2002002483 Date:02/04/2002 Time:09:55:26
Doc Stamp-Deed : 209.30
MCK DC,P.DeWitt Cason,Columbia County B:945 P:2052

WATERS WELL DRILLING

Route 3 Box 1550-A2
Lake Butler, Florida 32054
(904) 496-1339
Mobile Jimmy (352) 339-4021 • (352) 258-5010
Mobile Jason (352) 318-0158 • (352) 258-5011

615-740-1543

CUSTOMER'S ORDER NO.	PHONE	DATE
	615-351-0297	8-23-04

NAME Frank Abram

ADDRESS Rum Island Tract 46

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD	PAID OUT	

QTY.	DESCRIPTION	PRICE	AMOUNT
	4" well including 1½ hp pump 220 gallon equivalent tank up to 1st 100 ft		2800 00
	Pd. Ck 1827 Thank You Jason Waters		
	Well Depth 90 ft casing Depth 73 ft water level 37 ft		
		TAX	2800 00
RECEIVED BY		TOTAL	

All claims and returned goods MUST be accompanied by this bill.

Thank You

1311

STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

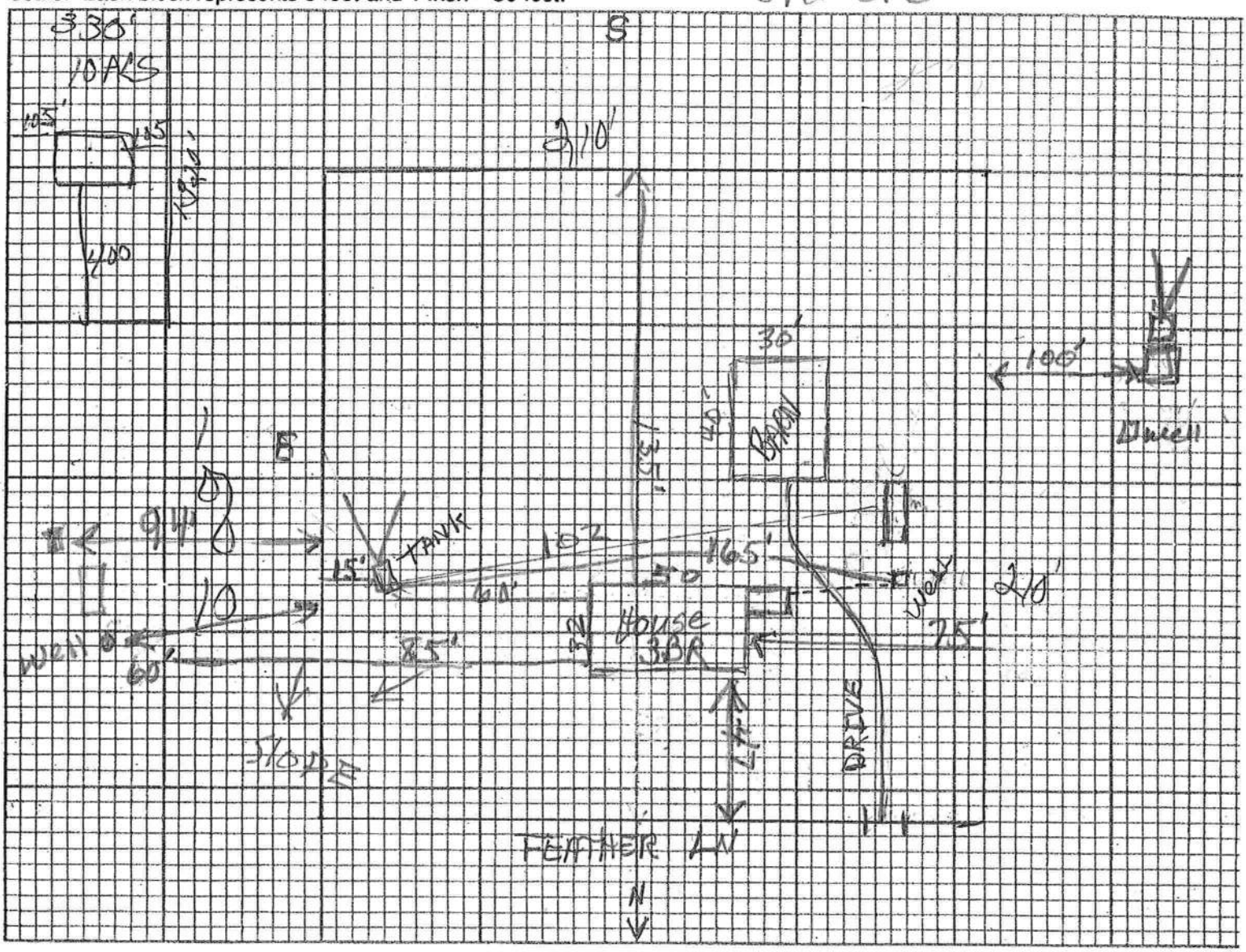
Permit Application Number 07-1897

Abram

PART II - SITE PLAN

Charlie

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



Notes: ORisinal Drawing of Locations were Established by A&B Construction who did the Instillation. I will have mr Dennis taylor (A Personal Friend) to Verify Dim. AS I Am In TN. At present. AGENT APPOINTED;

Site Plan submitted by: X [signature] Signature — XOWNER Title

Plan Approved ✓ Not Approved ____ Date ~~10/23/97~~ 11-19-97

By [signature] Columbia County Health Departm

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**709043Abram,Frank**	Builder:	
Address:	**734 SW Fether Lane**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	27069
Owner:	**Abram, Frank**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 34.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1696 ft²	c. N/A	
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble Default) 169.5 ft²	13. Heating systems	
b. SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 169.5 ft²	a. Electric Heat Pump	Cap: 34.0 kBtu/hr
8. Floor types			HSPF: 7.90
a. Slab-On-Grade Edge Insulation	R=0.0, 204.0(p) ft	b. N/A	
b. N/A			
c. N/A		c. N/A	
9. Wall types		14. Hot water systems	
a. Frame, Wood, Exterior	R=13.0, 1382.5 ft²	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
d. N/A			
e. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 1696.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft		
b. N/A			

Glass/Floor Area: 0.10

Total as-built points: 21466
Total base points: 25840

PASS

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

PREPARED BY: _____

DATE: 11-22-07

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **734 SW Fether Lane, , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1696.0	20.04	6117.8	Double, Clear	W	1.5	5.0	27.0	38.52	0.88	910.7	
				Double, Clear	W	1.5	3.5	18.0	38.52	0.78	539.9	
				Double, Clear	N	1.5	3.5	9.0	19.20	0.86	148.4	
				Double, Clear	N	1.5	5.0	27.0	19.20	0.92	474.6	
				Double, Clear	E	8.0	5.0	40.5	42.06	0.42	717.0	
				Double, Clear	E	1.5	5.0	21.0	42.06	0.87	772.5	
				Double, Clear	S	1.5	0.0	27.0	35.87	0.43	418.3	
				As-Built Total:				**169.5**			**3981.4**	

WALL TYPES	Area X	BSPM =	Points	Type	R-Value	Area X	SPM =	Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1382.5	1.50	2073.8
Exterior	1382.5	1.70	2350.3					
Base Total:	**1382.5**		**2350.3**	**As-Built Total:**		**1382.5**		**2073.8**

DOOR TYPES	Area X	BSPM =	Points	Type	Area X	SPM =	Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	80.0	4.10	328.0
Exterior	80.0	4.10	328.0				
Base Total:	**80.0**		**328.0**	**As-Built Total:**	**80.0**		**328.0**

CEILING TYPES	Area X	BSPM =	Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	1696.0	1.73	2934.1	Under Attic	30.0	1696.0	1.73 X 1.00	2934.1
Base Total:	**1696.0**		**2934.1**	**As-Built Total:**		**1696.0**		**2934.1**

FLOOR TYPES	Area X	BSPM =	Points	Type	R-Value	Area X	SPM =	Points
Slab	204.0(p)	-37.0	-7548.0	Slab-On-Grade Edge Insulation	0.0	204.0(p	-41.20	-8404.8
Raised	0.0	0.00	0.0					
Base Total:			**-7548.0**	**As-Built Total:**		**204.0**		**-8404.8**

INFILTRATION	Area X	BSPM =	Points		Area X	SPM =	Points
	1696.0	10.21	17316.2		1696.0	10.21	17316.2

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **734 SW Fether Lane, , FL,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 21498.3			**Summer As-Built Points:**					**18228.5**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 34000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			18229	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	5444.7
21498.3	**0.4266**	**9171.2**	**18228.5**	**1.00**	**1.138**	**0.263**	**1.000**	**5444.7**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **734 SW Fether Lane, , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1696.0	12.74	3889.3	Double, Clear	W	1.5	5.0	27.0	20.73	1.03	579.1	
				Double, Clear	W	1.5	3.5	18.0	20.73	1.07	397.9	
				Double, Clear	N	1.5	3.5	9.0	24.58	1.01	222.8	
				Double, Clear	N	1.5	5.0	27.0	24.58	1.00	666.1	
				Double, Clear	E	8.0	5.0	40.5	18.79	1.41	1070.7	
				Double, Clear	E	1.5	5.0	21.0	18.79	1.05	414.4	
				Double, Clear	S	1.5	0.0	27.0	13.30	3.66	1314.1	
				As-Built Total:				**169.5**			**4665.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1382.5	3.40		4700.5	
Exterior	1382.5	3.70	5115.3									
Base Total:	**1382.5**		**5115.3**	**As-Built Total:**				**1382.5**			**4700.5**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	Exterior Insulated				80.0	8.40		672.0	
Exterior	80.0	8.40	672.0									
Base Total:	**80.0**		**672.0**	**As-Built Total:**				**80.0**			**672.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1696.0	2.05	3476.8	Under Attic			30.0	1696.0	2.05 X 1.00		3476.8	
Base Total:	**1696.0**		**3476.8**	**As-Built Total:**				**1696.0**			**3476.8**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	204.0(p)	8.9	1815.6	Slab-On-Grade Edge Insulation			0.0	204.0(p	18.80		3835.2	
Raised	0.0	0.00	0.0									
Base Total:			**1815.6**	**As-Built Total:**				**204.0**			**3835.2**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1696.0	-0.59	-1000.6					1696.0	-0.59		-1000.6	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **734 SW Fether Lane, , FL,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**13968.3**	**Winter As-Built Points:**					**16348.9**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 34000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			16348.9	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	8201.4
13968.3	**0.6274**	**8763.7**	**16348.9**	**1.00**	**1.162**	**0.432**	**1.000**	**8201.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **734 SW Fether Lane, , FL,** PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3	2635.00	7905.0		40.0	0.93	3	1.00	2606.67	1.00	7820.0
				As-Built Total:						**7820.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
9171	**8764**	**7905**	**25840**	**5445**	**8201**	**7820**	**21466**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **734 SW Fether Lane, , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.4

The higher the score, the more efficient the home.

Abram, Frank, 734 SW Fether Lane, , FL,

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family			a. Central Unit	Cap: 34.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 13.00
4.	Number of Bedrooms	3			b. N/A	
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	1696 ft²			c. N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)					
	a. U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 169.5 ft²			a. Electric Heat Pump	Cap: 34.0 kBtu/hr
	b. SHGC:					HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 169.5 ft²			b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=0.0, 204.0(p) ft			c. N/A	
	b. N/A					
	c. N/A			14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1382.5 ft²				EF: 0.93
	b. N/A				b. N/A	
	c. N/A					
	d. N/A				c. Conservation credits	
	e. N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1696.0 ft²		15.	HVAC credits	
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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