

DATE 09/16/2013

# Columbia County Building Permit

PERMIT  
000031454

This Permit Must Be Prominently Posted on Premises During Construction

APPLICANT PETER MARGARITONDO PHONE 386-497-4527  
 ADDRESS 1062 SW BLUFF DR FORT WHITE FL 32038  
 OWNER PETER & SUSAN MARGARITONDO PHONE 386-497-4527  
 ADDRESS 1062 SW BLUFF DR FORT WHITE FL 32038  
 CONTRACTOR PETER MARGARITONDO PHONE 386-497-4527

LOCATION OF PROPERTY HWY 47 S, R HOLLINGSWORTH, R BLUFF DR, APPROX 1 MILE ON THE LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 57200.00

HEATED FLOOR AREA 832.00 TOTAL AREA 1144.00 HEIGHT        STORIES 1

FOUNDATION WOOD WALLS FRAMED ROOF PITCH 12/12 FLOOR WOOD

LAND USE & ZONING ESA-2 MAX. HEIGHT 35

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

NO. EX.D.U. 0 FLOOD ZONE AE DEVELOPMENT PERMIT NO. 13-006

PARCEL ID 18-7S-16-04236-052 SUBDIVISION CEDAR SPRINGS SHORES

LOT 20 BLOCK        PHASE        UNIT 5 TOTAL ACRES 2.01

OWNER *Peter Margaritondo*  
 Culvert Permit No.        Culvert Waiver        Contractor's License Number        Applicant/Owner/Contractor         
 EXISTING 13-0390-N BK TC N  
 Driveway Connection        Septic Tank Number        LU & Zoning checked by        Approved for Issuance        New Resident       

COMMENTS: BOTTOM OF FINISHED FLOOR & EQUIPMENT AT 36'

NOC ON FILE, OWNER DISCLOSURE ON FILE

ONE FOOT RISE REC'D        Check # or Cash CASH REC'D

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power        Foundation        Monolithic         
date/app. by        date/app. by        date/app. by       

Under slab rough-in plumbing        Slab        Sheathing/Nailing         
date/app. by        date/app. by        date/app. by       

Framing        Insulation         
date/app. by        date/app. by       

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

Heat & Air Duct        Peri. beam (Lintel)        Pool         
date/app. by        date/app. by        date/app. by       

Permanent power        C.O. Final        Culvert         
date/app. by        date/app. by        date/app. by       

Pump pole        Utility Pole        M/H tie downs, blocking, electricity and plumbing         
date/app. by        date/app. by        date/app. by       

Reconnection        RV        Re-roof         
date/app. by        date/app. by        date/app. by       

BUILDING PERMIT FEE \$ 290.00 CERTIFICATION FEE \$ 5.72 SURCHARGE FEE \$ 5.72

MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$       

FLOOD DEVELOPMENT FEE \$ 50.00 FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$        **TOTAL FEE** 426.44

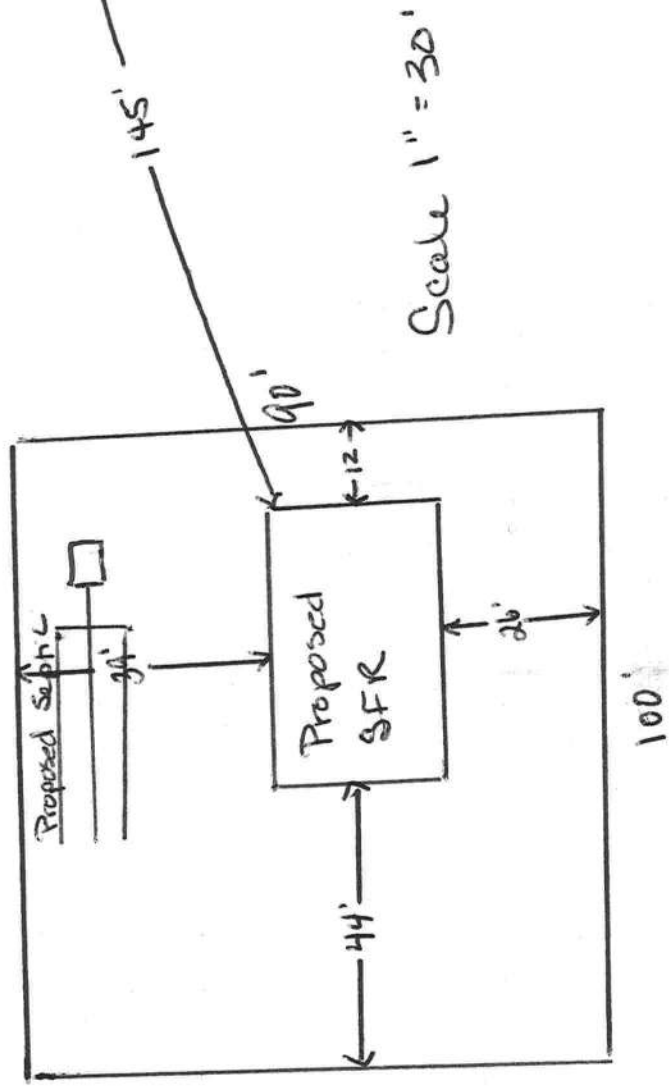
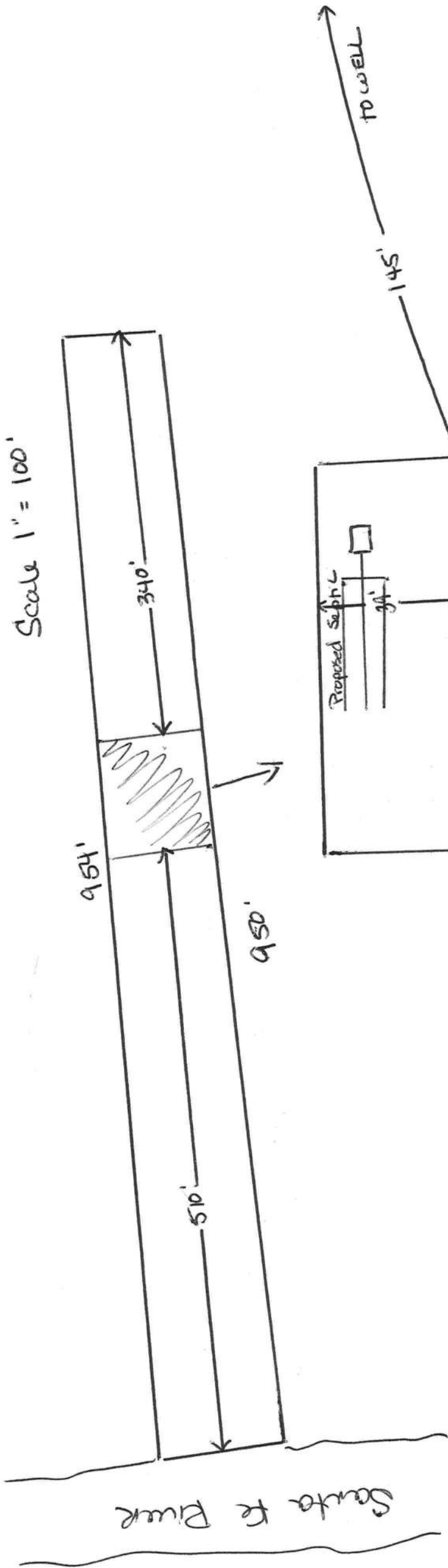
INSPECTORS OFFICE *[Signature]* CLERKS OFFICE *[Signature]*

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.  
NOTICE: ALL OTHER APPLICABLE STATE OR FEDERAL PERMITS SHALL BE OBTAINED BEFORE COMMENCEMENT OF THIS PERMITTED DEVELOPMENT.

**"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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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



Peter Margaritondo  
 Lot 20 Cedar Spring Shores

AGCE  
24  
1 ft. Above  
B.F.E.  
7.c. ok

Owner/Builder Disclosure  
(Wendy Grennell turned in.)

Product #s

Truss 7c  
 Manual J & Energy Code  
 One foot Rise

Columbia County Building Permit Application

For Office Use Only Application # 1307-31 Date Received 7/16/13 By UH Permit # 31454  
 Zoning Official BLK Date 6 Aug 2013 Flood Zone AE Land Use ESA Zoning ESA-2  
 FEMA Map # 0469C Elevation 35' MFE 36' River Santa FE Plans Examiner 7.c. Date 7-23-13  
 Comments Pending Items marked at top Bottom up finish floor + Equipment at 36'  
 NOC  EH  Deed or PA  Site Plan  State Road Info  Well letter  911 Sheet  Parent Parcel #  
 Dev Permit # 13-006  In Floodway  Letter of Auth. from Contractor  F W Comp. letter  
 IMPACT FEES: EMS \_\_\_\_\_ Fire \_\_\_\_\_ Corr \_\_\_\_\_  Sub VF Form  
 Road/Code \_\_\_\_\_ School \_\_\_\_\_ = TOTAL (Suspended)  Ellisville Water  App Fee Paid

Septic Permit No. 13-0390-N (Call Wendy 288-2428) Fax 386-755-1031  
 Name Authorized Person Signing Permit Peter Margaritondo Phone 386-497-4527  
 Address 1062 SW Bluff DR Ft White FL 32038  
 Owners Name Peter + Susan Margaritondo Phone 386-497-4527  
 911 Address 1062 SW Bluff Dr. Ft White FL 32038  
 Contractors Name Owner Phone 386-497-4527  
 Address 1062 SW Bluff DR Ft. White FL 32038  
 Fee Simple Owner Name & Address NA  
 Bonding Co. Name & Address NA  
 Architect/Engineer Name & Address Marty Humphries 7932 240th St D'Brien FL 32071  
 Mortgage Lenders Name & Address NA

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy  
 Property ID Number 18-75-16-04236-052 Estimated Cost of Construction \$75,000.00  
 Subdivision Name Cedar Spring Shores Lot 20 Block \_\_\_\_\_ Unit 5 Phase \_\_\_\_\_  
 Driving Directions Hwy 47 south to Hollingsworth turn (R) to SW Bluff DR turn (R) approx 1 mile to 1062 on (L)  
 Number of Existing Dwellings on Property 1  
 Construction of Single family dwelling Total Acreage 2.01 Lot Size 2.01  
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height \_\_\_\_\_  
 Actual Distance of Structure from Property Lines - Front 351 Side 26 Side 32 Rear 571  
 Number of Stories 2 Heated Floor Area 832 Total Floor Area 1144 Roof Pitch 12/12

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. CODE: Florida Building Code 2010 and the 2008 National Electrical Code.  
 Page 1 of 2 (Both Pages must be submitted together.) Revised 3-15-12

SCHWABEL Signature  
 LARRY PRINSHO Signature  
 Spoke to Wendy on 8/7/13 Spoke to Bill Harper 9/11/13  
 Left message with wife

# 426144

**Columbia County Building Permit Application**

**TIME LIMITATIONS OF APPLICATION :** An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**TIME LIMITATIONS OF PERMITS:** 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 work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

**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.

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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.

**OWNERS CERTIFICATION:** I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

**NOTICE TO OWNER:** There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

(Owners Must Sign All Applications Before Permit Issuance.)

Pete Margaritudo  
Owners Signature

**\*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

**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 including all application and permit time limitations.

Pete Margaritudo  
Contractor's Signature (Permittee)

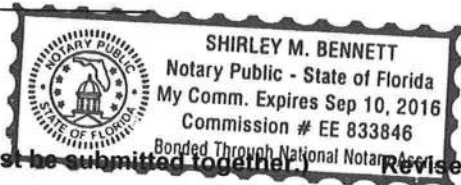
Contractor's License Number \_\_\_\_\_  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 3 day of July 2013

Personally known \_\_\_\_\_ or Produced Identification FLDC

Shirley M Bennett  
State of Florida Notary Signature (For the Contractor)

SEAL:



**Columbia County Building Department  
Flood Development Permit**

**Development Permit  
F 023- 13-006**

DATE 09/16/2013 BUILDING PERMIT NUMBER 000031454  
APPLICANT PETER MARGARITONDO PHONE 386-497-4527  
ADDRESS 1062 SW BLUFF DR FORT WHITE FL 32038  
OWNER PETER & SUSAN MARGARITONDO PHONE 386-497-4527  
ADDRESS 1062 SW BLUFF DR FORT WHITE FL 32038  
CONTRACTOR PETER MARGARITONDO PHONE 386-497-4527  
ADDRESS 1062 SW BLUFF DR FORT WHITE FL 32038  
SUBDIVISION CEDAR SPRINGS SHORES Lot 20 Block      Unit 5 Phase       
TYPE OF DEVELOPMENT SFD, UTILITY PARCEL ID NO. 18-7S-16-04236-052

FLOOD ZONE AE BY BK 2-4-2009 FIRM COMMUNITY # 120070 - PANEL # 0469c  
FIRM 100 YEAR ELEVATION 35' PLAN INCLUDED (YES) or NO  
REQUIRED LOWEST HABITABLE FLOOR ELEVATION 36'  
IN THE REGULATORY FLOODWAY YES or (NO) RIVER Santa Fe  
SURVEYOR / ENGINEER NAME Brett Crews LICENSE NUMBER 65592

ONE FOOT RISE CERTIFICATION INCLUDED  
N/A ZERO RISE CERTIFICATION INCLUDED  
N/A SRWMD PERMIT NUMBER \_\_\_\_\_  
(INCLUDING THE ONE FOOT RISE CERTIFICATION)

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED \_\_\_\_\_

INSPECTED DATE \_\_\_\_\_ BY \_\_\_\_\_

COMMENTS \_\_\_\_\_

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



1307-31



**COLUMBIA COUNTY BUILDING DEPARTMENT**

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

**OWNER BUILDER DISCLOSURE STATEMENT**

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I 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 my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address <http://www.myflorida.com/dbpr/pro/cilb/index.html> for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

1062 SW Bluff Dr. Fort White, FL 32038

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of \$300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of \$100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.



SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1307-31 CONTRACTOR Owner PHONE 386 497.4527

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

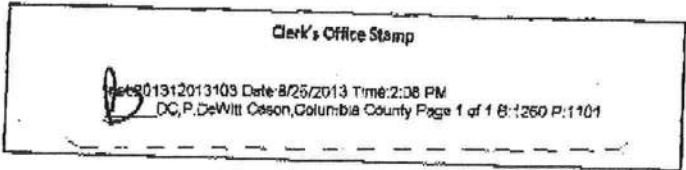
<input checked="" type="checkbox"/> ELECTRICAL 847	Print Name <u>DAVID RALPH</u> License #: <u>EC13002237</u>	Signature <u>David Ralph</u> Phone #: <u>935 2473</u>
<input checked="" type="checkbox"/> MECHANICAL/ A/C 13	Print Name <u>Derrick Williams</u> License #: <u>CAC1816913</u>	Signature <u>[Signature]</u> Phone #: <u>386-754-1987</u>
<input checked="" type="checkbox"/> PLUMBING/ GAS 120A	Print Name <u>Don Schnabel</u> License #: <u>CFC057788</u>	Signature <u>[Signature]</u> Phone #: <u>386-867-0364</u>
ROOFING	Print Name <u>Peter Margaritondo</u> License #: <u>Owner</u>	Signature <u>[Signature]</u> Phone #: <u>497-4527</u>
SHEET METAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: _____	Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
<input checked="" type="checkbox"/> MASON			
<input checked="" type="checkbox"/> CONCRETE FINISHER	<u>310</u>	<u>Larry Parrish</u>	<u>[Signature]</u>
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Margo APP 1307-31

NOTICE OF COMMENCEMENT



Tax Parcel Identification Number:  
18-75-16-04a36-052

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): Lot 20 Unit 5 Cedar Spring Shores DEB 365-596, 630-616, 810-545
- a) Street (Job) Address: 1062 SW Bluff Dr. Ft White, FL 32038
- 2. General description of improvements: 809-2367, 810-543  
WD 1062-1067
- 3. Owner Information
  - a) Name and address: Peter Margaritondo 1062 SW Bluff Dr. Ft White FL 32038
  - b) Name and address of fee simple titleholder (if other than owner)
  - c) Interest in property: OWNER
- 4. Contractor Information
  - a) Name and address: same as owner
  - b) Telephone No.: 386-497-4527 Fax No. (Opt.)
- 5. Surety Information
  - a) Name and address: N/A
  - b) Amount of Bond: N/A
  - c) Telephone No.: Fax No. (Opt.)
- 6. Lender
  - a) Name and address: N/A
  - b) Phone No.
- 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:
  - b) Telephone No.: 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(1)(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.

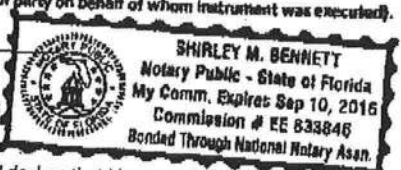
STATE OF FLORIDA  
COUNTY OF COLUMBIA

10. Peter Margaritondo  
Signature of Owner or Owner's Authorized Agent/Director/Partner/Manager  
Peter Margaritondo  
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 24 day of June, 2013, by:  
Peter Margaritondo owner (type of authority, e.g. officer, trustee, attorney fact) for \_\_\_\_\_ (name of party on behalf of whom instrument was executed).

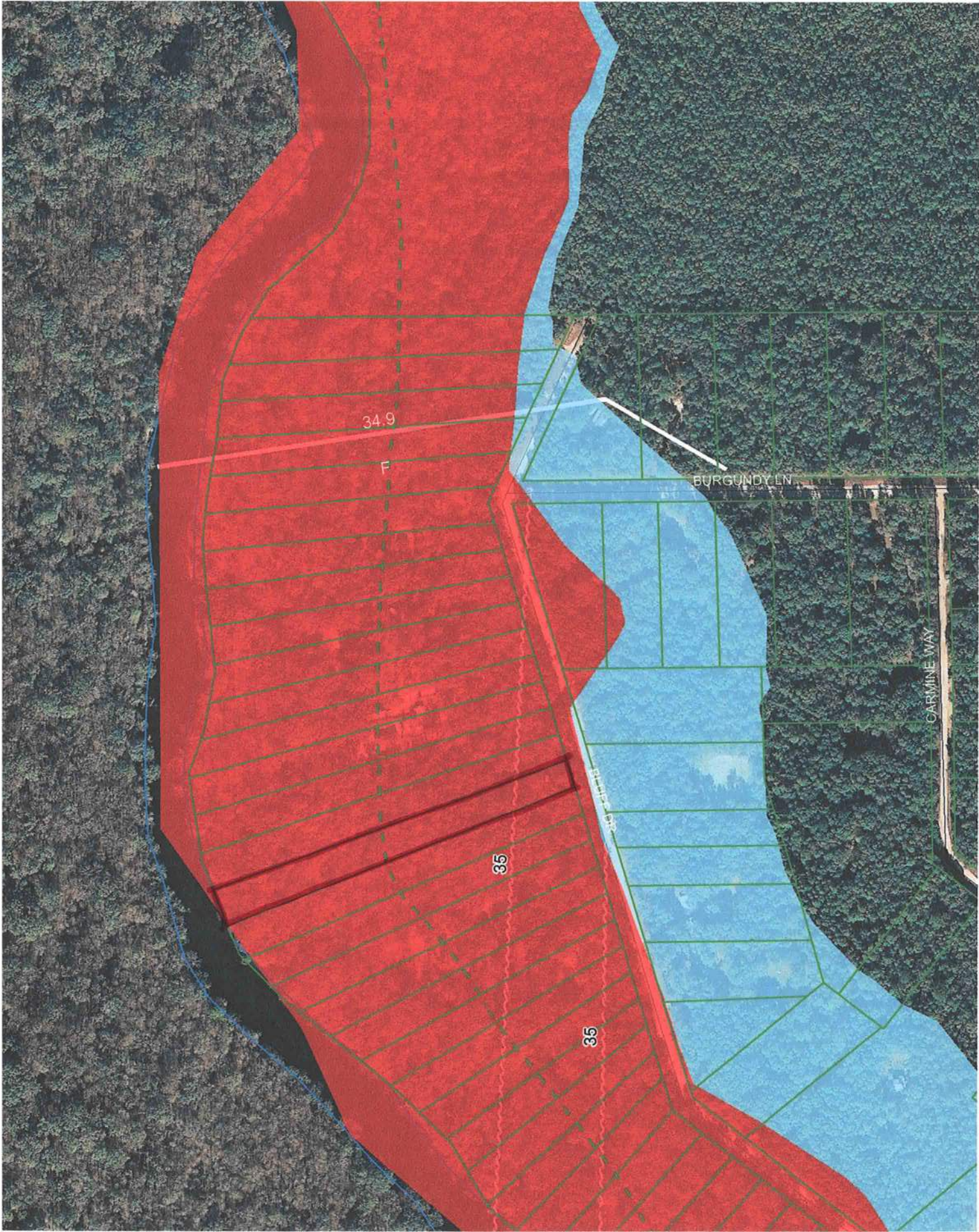
Personally Known \_\_\_\_\_ OR Produced Identification  Type FL DC

Notary Signature Shirley M. Bennett Notary Stamp or Seal:



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.

Peter Margaritondo  
Signature of Natural Person Signing (in line #10 above.)



1307-31

App # 1307-31

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

Permit Application Number 13-0390-N

MARGARET HENDO

PART II - SITEPLAN

Scale: 1 inch = 40 feet.

PLEASE  
SEE  
ATTACHED

Notes: \_\_\_\_\_

\_\_\_\_\_

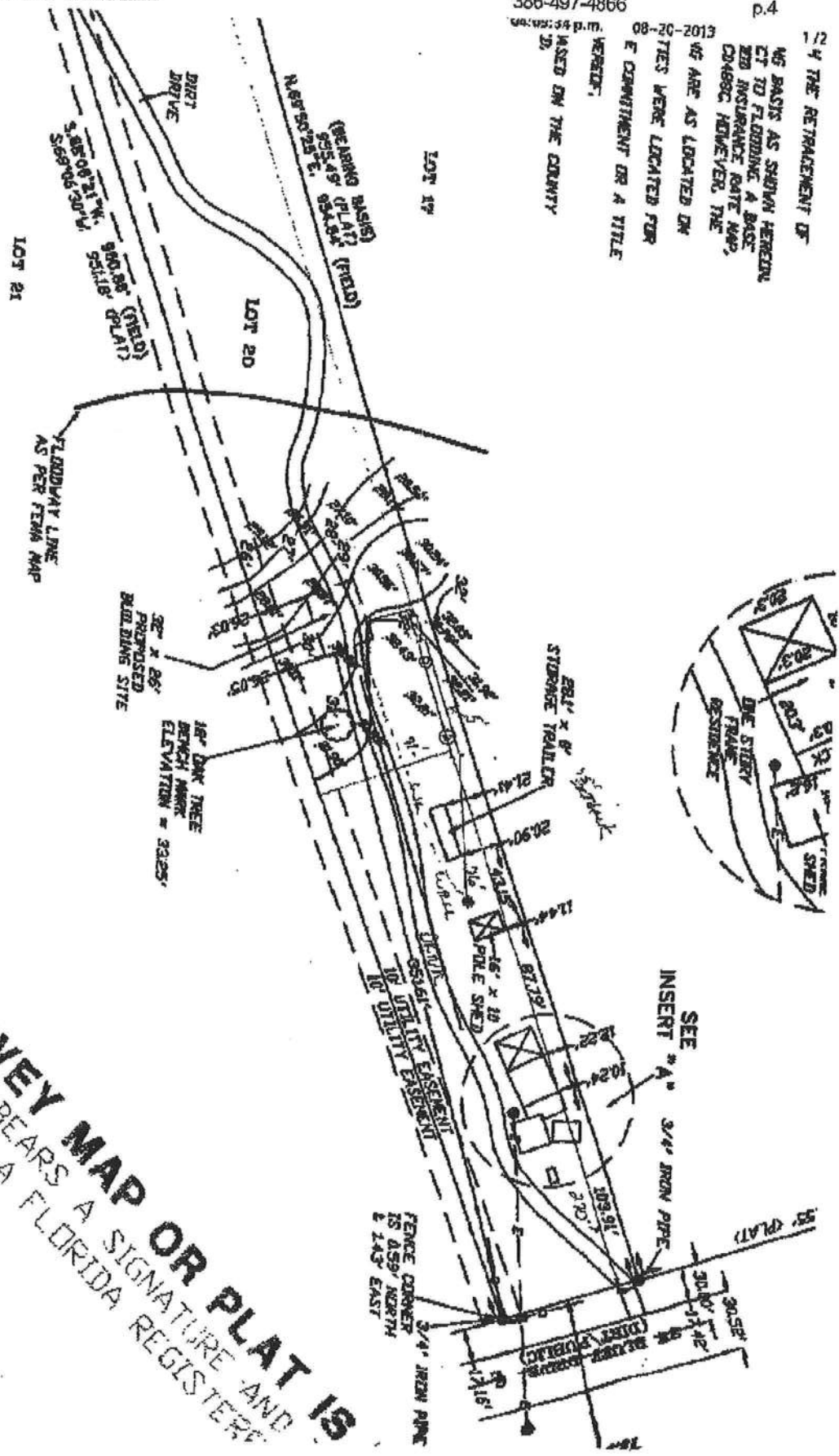
Site Plan submitted by: Rochy D F - O MASTER CONTRACTOR  
Plan Approved  Not Approved \_\_\_\_\_ Date 8-20-13  
By Julie Ford Env Health Director Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

APP  
1307-31

1/2  
1/4 THE RETRACEMENT OF  
AS BASIS AS SHOWN HEREIN  
TO FLOODING A BASE  
AND INSURANCE RATE MAP,  
CO-489C HOWEVER, THE  
AS ARE AS LOCATED ON  
THESE WERE LOCATED FOR  
E COMMITMENT OR A TITLE  
HEREIN.  
BASED ON THE COUNTY  
D.

FLOOD INTO AS PER SWAMP:  
1% ANNUAL CHANCE OF FLOOD = 32'



**THIS SURVEY MAP OR PLAT IS**  
UNLESS IT BEARS A SIGNATURE AND  
SEAL OF A FLORIDA REGISTERED



Pec. \$10.00  
Doc. Stamps \$994.00  
RETURN TO

U. S. Title  
642 N.E. Santa Fe Blvd.  
High Springs, FL 32643

USH-3522.

Inst: 2006010610 Date: 05/02/2006 Time: 15:46  
Doc Stamp-Deed : 994.00  
DC, P. DeWitt Cason, Columbia County B: 1082 P: 1067

[Space Above This Line for ]  
Parcel I.D. No.: 18-7S-16-04236-052

### WARRANTY DEED

**This Indenture** made this **24th** day of **April, 2006** BETWEEN **DALE G. McCOLLERS, a Married Man, GRANTOR**, whose post office address is 83 THORNHILL DRIVE, BRUNSWICK, GA 31525 and **PETER MARGARITONDO and SUSAN MARGARITONDO, HUSBAND AND WIFE, GRANTEE**, whose post office address is .

WITNESSETH, That said Grantor, for and in consideration of the sum of TEN AND 00/100'S (\$10.00) Dollars and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the grantee and grantee's heirs forever the following described land located in the County of COLUMBIA, State of Florida, to-wit:

**Lot 20, Unit 5, of CEDAR SPRINGS SHORES, as set forth in Plat Book 4, Page 5, of the Public Records of Columbia County, Florida.**

**SUBJECT TO** covenants, restrictions and easements of record, if any; however, this reference thereto shall not operate to reimpose same.

and the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land, and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2006.

\*Singular and plural are interchangeable as context requires.

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

WITNESSES

*Jannette S. Boyd*  
Typed Name: Jannette S. Boyd

*dale g. McCollers*  
DALE G. McCOLLERS

*Crystal L. Norton*  
Typed Name: Crystal L. Norton

COUNTY OF Osceola  
STATE OF FLORIDA

THE FOREGOING INSTRUMENT was acknowledged before me on **April 24th, 2006** by **DALE G. McCOLLERS, a Married Man**, who is/are personally known to me or has produced his/her Driver's License as identification.



Jannette S. Boyd  
MY COMMISSION # DD29332 EXPIRES  
August 7, 2007  
BONDED THRU TROY FAIR INSURANCE, INC.

*Jannette S. Boyd*  
NOTARY PUBLIC, STATE OF \_\_\_\_\_ AT LARGE  
Name: \_\_\_\_\_  
COMMISSION EXPIRATION: \_\_\_\_\_

THIS INSTRUMENT WAS PREPARED BY: JANNETTE S. BOYD, an employee of U.S. TITLE, 642 N.E. SANTA FE BLVD., HIGH SPRINGS, FLORIDA 32643, as a necessary incident to fulfill the requirements of a Title Insurance Binder issued by it. USH-3522.

# Columbia County Property Appraiser

CAMA updated: 7/11/2013

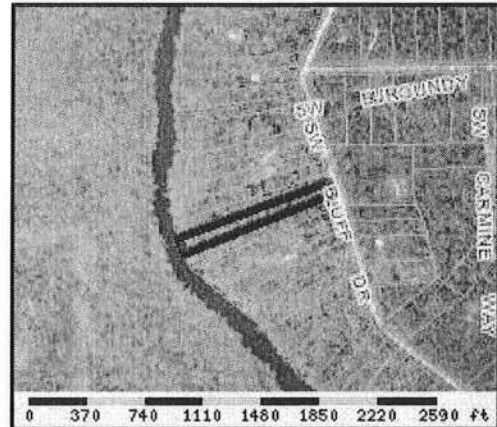
**2012 Tax Year**

**Parcel:** 18-7S-16-04236-052

Search Result: 1 of 1

## Owner & Property Info

<b>Owner's Name</b>	MARGARITONDO PETER &		
<b>Mailing Address</b>	SUSAN MARGARITONDO 1062 SW BLUFF DR FT WHITE, FL 32038		
<b>Site Address</b>	1062 SW BLUFF DR		
<b>Use Desc. (code)</b>	SINGLE FAM (000100)		
<b>Tax District</b>	3 (County)	<b>Neighborhood</b>	18716
<b>Land Area</b>	2.010 ACRES	<b>Market Area</b>	02
<b>Description</b>	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
LOT 20 UNIT 5 CEDAR SPRING SHORES. ORB 365-596, 630-616, 809-2367, 810-543, 810-545, WD 1082-1087.			



## Property & Assessment Values

2012 Certified Values		
<b>Mkt Land Value</b>	cnt: (0)	\$75,000.00
<b>Ag Land Value</b>	cnt: (1)	\$0.00
<b>Building Value</b>	cnt: (1)	\$25,622.00
<b>XFOB Value</b>	cnt: (3)	\$2,150.00
<b>Total Appraised Value</b>		\$102,772.00
<b>Just Value</b>		\$102,772.00
<b>Class Value</b>		\$0.00
<b>Assessed Value</b>		\$55,164.00
<b>Exempt Value</b>	(code: HX H3)	\$30,164.00
<b>Total Taxable Value</b>	Cnty: \$25,000 Other: \$25,000   Schl: \$30,164	

## 2013 Working Values

**NOTE:**  
2013 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

## Sales History

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
4/24/2006	1082/1067	WD	I	Q		\$142,000.00
9/1/1995	810/545	WD	V	Q		\$25,500.00

## Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	2001	AVERAGE (05)	400	720	\$25,524.00
<b>Note:</b> All S.F. calculations are based on exterior building dimensions.						

## Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0084	DOCK-RIVER	1980	\$1,160.00	0000200.000	10 x 20 x 0	(000.00)
0296	SHED METAL	1993	\$840.00	0000140.000	10 x 14 x 0	(000.00)
0252	LEAN-TO W/	2008	\$150.00	0000001.000	0 x 0 x 0	(000.00)

## Land Breakdown

**ONE FOOT RISE ANALYSIS AND CERTIFICATION  
100 YEAR BASE FLOOD**

**PROJECT DATA**

**PARCEL ID:** 18-7S-16-04236-052

**PROPERTY DESCRIPTION:** Lot 20, Unit 5, Cedar Spring Shores, Columbia County, FL

**OWNER:** Peter and Susan Margaritondo

**PROJECT DESCRIPTION:** 32'x26' SF site built home, located +/-350' from Bluff Dr near the center of the property.

**FLOOD ZONE:** AE

**BASE FLOOD ELEVATION:** 35.0 Based on SRWMD Effective Flood Report

**EXISTING GRADE ELEVATION (AT BUILDING LOCATION):**

+/-30, Based on Survey provided by Britt Surveying

**CONCLUSION**

To demonstrate the proposed construction will not cause more than a 1 foot rise in the flood elevation, the following calculation was performed:

Area of Flood Zone = Undetermined, Associated with the Santa Fe River

Depth of Lot below Flood Elevation = 35.0 ft – 30.0 ft = 5 ft

Storage Volume Removed due to development = 5ft \* 2\* 832 sf = 8,320 cf = 0.19 acre-ft

Flood Level Increase (if flood zone area = lot size = 2 acres) = 0.19 acre-ft / 2 acres = 0.095 ft

This is a very conservative calculation for the following reason:


Flood Zone Area is much larger than 2 acres and associated with the Suwannee River.

**CERTIFICATION**

I hereby certify that, to the best of my knowledge, construction of the project as described above will increase the flood elevations less than one foot at the project location.

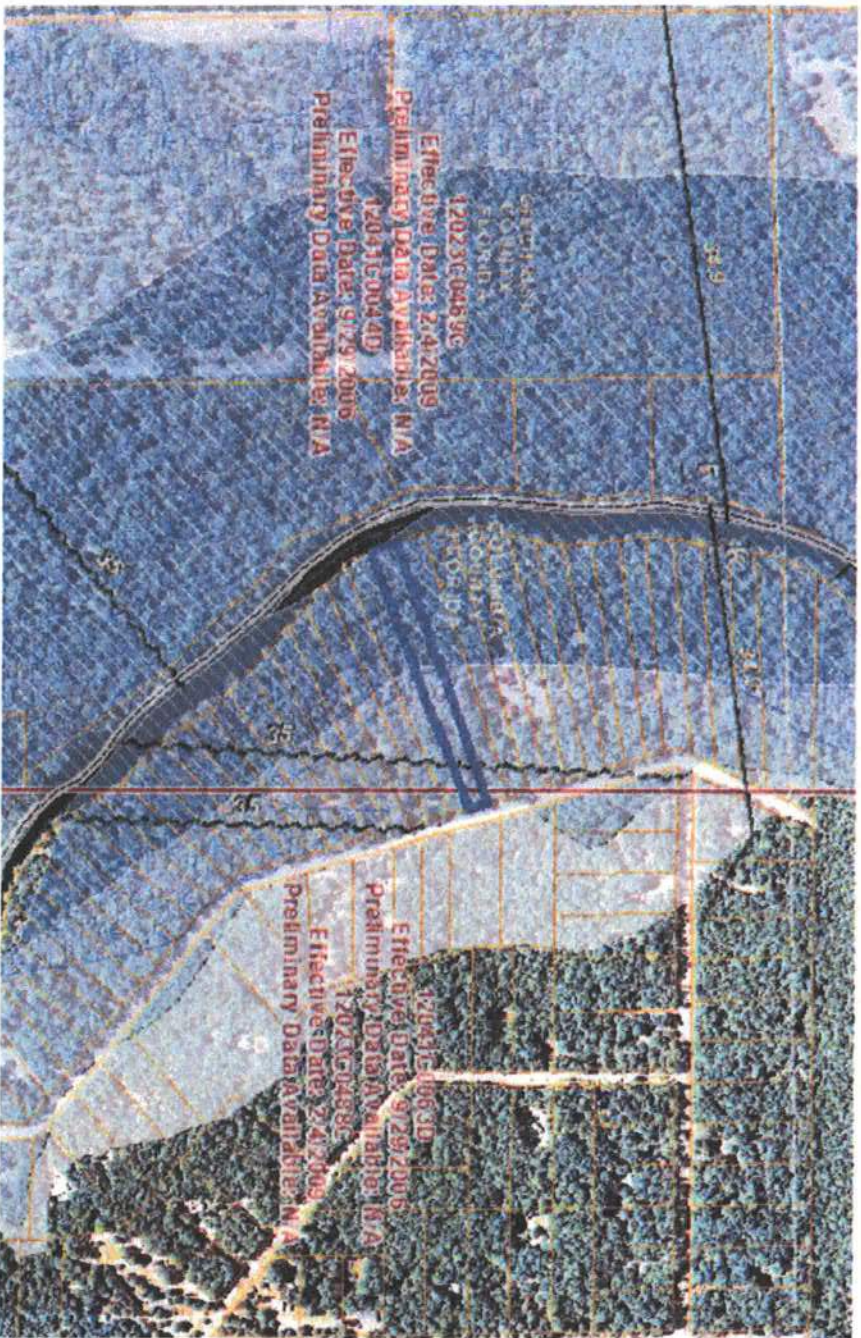
**ATTACHEMENTS**

SRWMD Effective Flood Report, Ownership Information (Columbia County Property Appraiser)

  
7-26-13  
Brett A. Crews, PE No. 65592



# Suwannee River Water Management District Effective Flood Information Report



Effective Flood Zones described on Page 2

- SFHA - AE w/Floodway
- SFHA - Zone VE
- SFHA - Zone A
- SFHA - Zones AE, AH, AO
- Wetlands
- FIRM Panel
- State Lands
- Counties
- SRWMD
- Parcels
- Depressions
- BFE
- Cross Sections

The Federal Emergency Management Agency (FEMA) maintains information about map features, such as street locations and names, in or near designated flood hazard areas. The information herein represents the best available data as of the effective date shown. The applicable Flood Insurance Study and a Digital Flood Insurance Rate Map is available online (<http://www.srwmdfloodreport.com>). To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to also consult the FEMA Map Service Center at 1-800-358-9616 (<http://www.msc.fema.gov>) for information on available products associated with this FIRM panel. Available products from the Map Service Center may include previously issued Letters of Map Change.

Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period on preliminary maps, or through the Letter of Map Change process for effective maps.

### LOCATION

Date: 05-03-2013  
 Parcel: 18-7S-16-04236-052  
 County: Columbia  
 STR: S018 T07 R16  
 Columbia Flood Hazard Areas Status: Effective: 02/04/2009

### FLOOD INFORMATION

FIRM Panel(s): 12023C0489C, 12023C0488  
 C, 12041C0063D, 12041C004  
 4D  
 Parcel In Special Flood Hazard Area? (SFHA): Yes  
 Flood Zone(s): AE FW  
 1% Annual Chance Flood Elev (BFE): 35.0 (feet)  
 Floodway: Yes  
 10% Annual Chance Flood Elev: 29.0 (feet)  
 50% Annual Chance Flood Elev: 24.8 (feet)  
 Note: Elevations are based on NAVD88



18-7S-16-04236-052  
 MARGARITONDO PETER &  
 2.01AC | 4/24/2006 - \$142,000 - 1Q

0 0.07 0.14 0.21 0.28 0.35 0.42 0.49 0.56 0.63 0.7 mi

**Columbia County Property Appraiser**

J. Doyle Crews - Lake City, Florida 32055 | 386-758-1083

**PARCEL: 18-7S-16-04236-052 - SINGLE FAM (000100)**

LOT 20 UNIT 5 CEDAR SPRING SHORES. ORB 365-596, 630-616, 809-2367, 810-543, 810-545, WD 1082-1067.

NOTES:

Name: MARGARITONDO PETER &	<b>2012 Certified Values</b>	
Site: 1062 SW BLUFF DR	Land	\$75,000.00
SUSAN MARGARITONDO	Bldg	\$25,622.00
Mail: 1062 SW BLUFF DR	Assd	\$55,164.00
FT WHITE, FL 32038	Exmpt	\$30,164.00
Sales 4/24/2006 \$142,000.00 I / Q		Cnty: \$25,000
Info 9/1/1995 \$25,500.00 V / Q	Taxbl	Other: \$25,000   Schl: \$30,164



This information, GIS updated: 7/11/2013, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

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FLOOD RESISTANT DESIGN AND CONSTRUCTION

If the design flood elevation has been determined and a floodway has not been designated, structures and fill shall not be constructed or placed unless it has been demonstrated that the cumulative effect of proposed structures and fill, combined with all other existing and anticipated development, will not increase the base flood elevation more than 1 ft.

2.3 ELEVATION REQUIREMENTS

Structures shall have the lowest floor (including basements) elevated to or above the Design Flood Elevation (DFE) in conformance with the requirements of Table 2-1. Enclosed areas used solely for parking, building access, or storage that comply with Section 2.6 are allowed below elevated buildings. Elevation requirements for other building components are found in Sections 5, 6, and 7.

**TABLE 2-1. Minimum Elevation of the Top of Lowest Floor Relative to Base Flood Elevation (BFE) or Design Flood Elevation (DFE)—Flood Hazard Areas Other Than Coastal High Hazard Areas,<sup>a</sup> Coastal A Zones,<sup>a</sup> and High Risk Flood Hazard Areas<sup>a</sup>**

Structure Category <sup>b</sup>	Minimum Elevation of Lowest Floor
I	DFE
II <sup>c</sup>	BFE + 1 ft or DFE, whichever is higher
III <sup>c</sup>	BFE + 1 ft or DFE, whichever is higher
IV <sup>c</sup>	BFE + 2 ft or DFE, whichever is higher

*F.F.E.*  
*36'*  
*Per Plan*

*B.F.E.*  
*is 35'*

*12.*  
*8-6-13*

<sup>a</sup>Minimum elevations shown in Table 2-1 do not apply to Coastal High Hazard Areas and Coastal A Zones (see Table 4-1). Minimum elevations shown in Table 2-1 apply to other High Risk Flood Hazard Areas unless specific elevation requirements are given in Section 3 of this standard.

<sup>b</sup>See Table 1-1 for structure category descriptions.

<sup>c</sup>For nonresidential buildings and nonresidential portions of mixed-use buildings, the lowest floor shall be allowed below the minimum elevation if the structure meets the floodproofing requirements of Section 6.

**Exception:** Nonresidential structures with the lowest floor below the minimum elevation specified in Table 2-1 and nonresidential portions of mixed-use structures with the lowest floor below the minimum elevation specified by Table 2-1 shall be allowed in conformance with the floodproofing requirements of Section 6.

2.4 USE OF FILL

Structural fill, and nonstructural fill, shall not be placed in floodway areas unless in compliance with the requirements of Section 2.2.

2.4.1 Structural Fill

Structural fill shall not be used unless design and construction of the structural fill account for

1. Consolidation of the underlying soil under the weight of the fill and the structure;
2. Differential settlement due to variations in fill composition and characteristics; and
3. Slope stability and erosion control.

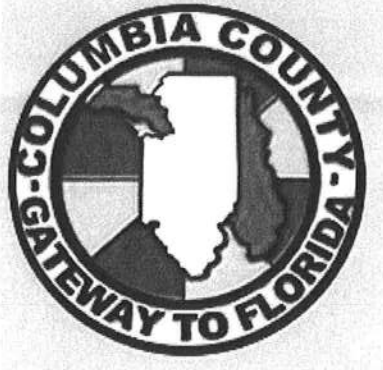
Fill used for structural support or protection shall be suitable for its intended use. Fill used to support or protect a structure shall be placed in lifts of not more than 12-in. loose thickness, with each lift compacted to at least 95% of its maximum Standard Proctor density (see Ref. [5]) or 90% of its maximum modified Proctor density (see Ref. [6]), unless a soils engineering report approved by the authority having jurisdiction specifies otherwise.

The side slopes of structural fill shall be no steeper than 1 on 1.5 (vertical/horizontal). Structural fill, including side slopes, shall be protected from scouring and erosion under flood conditions up to and including the design flood.

2.5 SLABS-ON-GRADE AND FOOTINGS

2.5.1 Use of Slabs-on-Grade

Use of slabs-on-grade is acceptable if the slab is installed on structural fill that is placed in conformance with Section 2.4 or is installed on undisturbed soil of adequate bearing capacity. The top of the slab shall be at or above the DFE as specified in Table 2-1. If turned down to act as footings, the bottom of the turned-down edges of the slab shall be installed at or below the depth of expected scour.



## Columbia County, Florida Planning & Zoning Department

Review of Building Permit for compliance with County's  
Comprehensive Plan and Land Development  
Regulations

25 July 2013

Peter and Susan Margaritondo  
1062 Southwest Bluff Drive  
Ft. White, FL 32038

RE: Building Permit Application 1307-31

Dear Mr. and Mrs. Margaritondo:

The property for which the above referenced application has been made is located within the 100 year flood zone (Zone AE) with a base flood elevation of 35 feet (88NAVD) in accordance with the FEMA Flood Insurance Rate Maps (FIRM) effect as of 4 February 2009. Under the County's Land Development Regulations (LDR's) a one (1) foot rise letter signed and seal by an engineer stating that the structure once placed on the property will not cause the flood waters to rise greater than one (1) foot, including calculations will need to be submitted. This will need to be provided and reviewed for approval prior to the permit being issued. In addition, the finished floor elevation with any or all machinery and or equipment servicing the new home also to be one (1) foot above the FEMA determined flood elevation referenced above. Once the home has been completed, an elevation certification from a surveyor will be required before permanent power will be released.

In addition, there is currently a home located on the property. In accordance with the Columbia County Land Development Regulations, only one permitted principle structure (Home) is allowed per lot in a subdivision. Therefore, the existing home will need to be removed within 60 days of a Certificate of Occupancy being issued for the new home.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.754.7119.

Sincerely,

Brian L. Kepner  
Land Development Regulation Administrator,  
County Planner

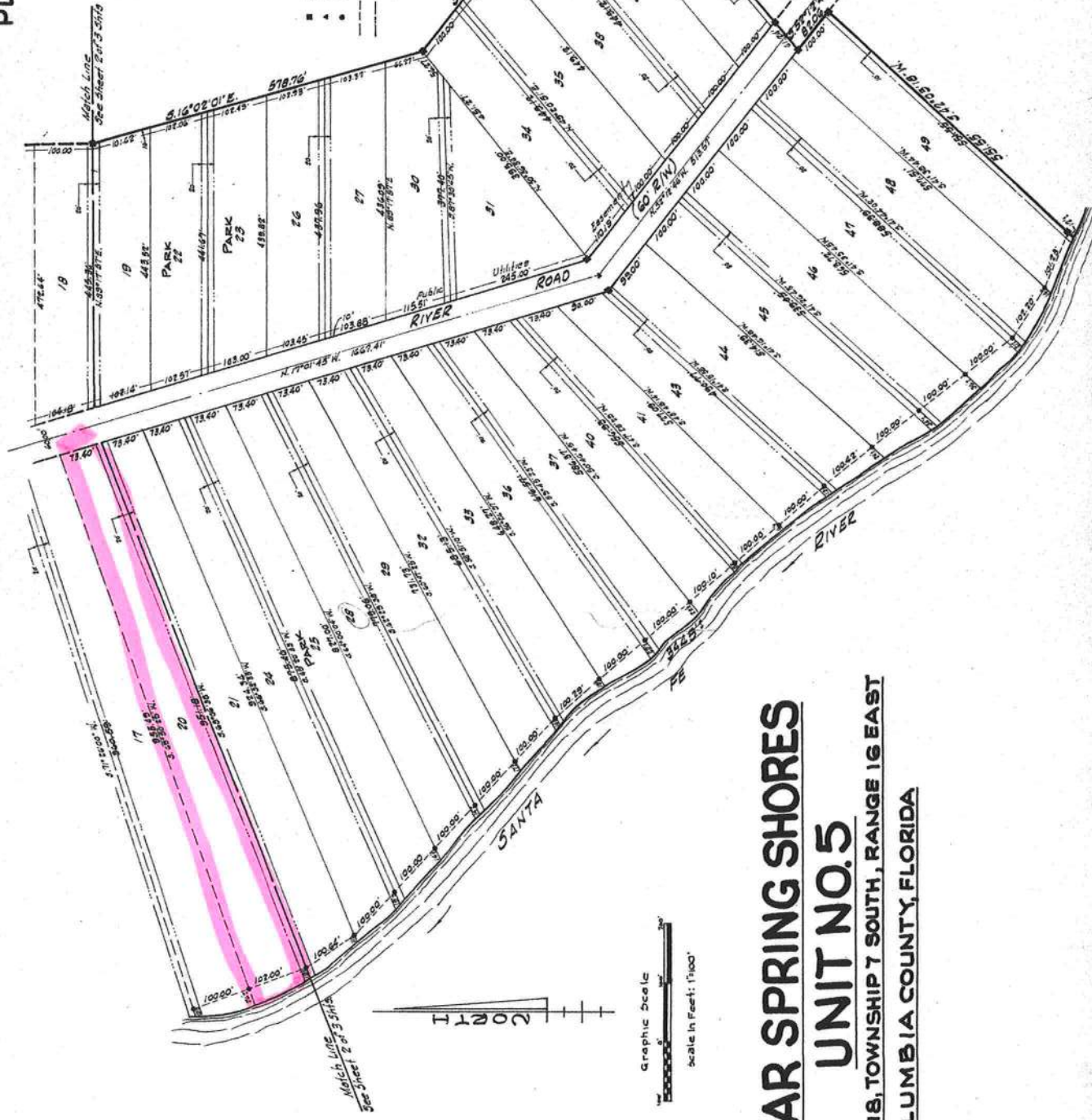
CEDAR SPRING SHORES  
UNIT NO. 3  
P.B. NO. 4 PAGE 2

**LEGEND**

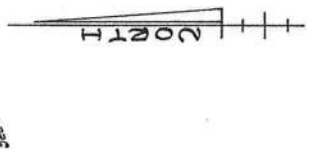
- PERMANENT REFERENCE MONUMENTS (PR.M.S.)
- ▲ PERMANENT CONTROL POINTS (P.C.P.)
- 1200 PIPE
- PUBLIC UTILITIES & DRAINAGE EASEMENT LINE
- SEALING 2 AS SHOWN WERE ADJUSTED

FILED FOR RECORD THIS  
 25th DAY OF Sept. A.D. 1923  
 RECORD 3 IN  
 BOOK 4 PAGE 5  
 W. E. CRAY, Clerk of Circuit Court  
 Columbia County, Florida  
 By *C. B. ...*  
 Deputy Clerk

CEDAR SPRING SHORES  
 UNIT NO. 2  
 P.B. NO. 4 PAGE 2



**CEDAR SPRING SHORES**  
**UNIT NO. 5**  
 SECTION 18, TOWNSHIP 7 SOUTH, RANGE 16 EAST  
 COLUMBIA COUNTY, FLORIDA



Graphic Scale  
 Scale in Feet: 1"=100'

# COLUMBIA COUNTY 9-1-1 ADDRESSING

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

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

## Addressing Maintenance

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

DATE REQUESTED: 7/16/2013      DATE ISSUED: 7/29/2013

### ENHANCED 9-1-1 ADDRESS:

1062      SW      BLUFF      DR

FORT WHITE      FL      32038

### PROPERTY APPRAISER PARCEL NUMBER:

18-7S-16-04236-052

### Remarks:

RE-ISSUE OF EXISTING ADDRESS FOR REPLACEMENT STRUCTURE ON PARCEL.

Address Issued By: SIGNED: / RONAL N. CROFT  
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.**

Permit # 31454

- District No. 1 - Ronald Williams
- District No. 2 - Rusty DePratter
- District No. 3 - Bucky Nash
- District No. 4 - Stephen E. Bailey
- District No. 5 - Scarlet P. Frisina



**BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY**

Memo of review for correctness and completion

In accordance with participation in the NFIP/CRS program, all elevation certificates are required to be reviewed for correctness and completion prior to acceptance by the community. This form shall be attached to all elevation certificates maintained on file and provided with requested copies of elevation certificates.

- \_\_\_\_\_ The attached certificate requires correction by the surveyor of section (s) \_\_\_\_\_ prior to acceptance by the community.
- \_\_\_\_\_ The attached elevation certificate is complete and correct.
- \_\_\_\_\_ Minor corrections have been made in the below marked section(s) by the authorized Community Official.

SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.		Company NAIC Number:
City	State	ZIP Code
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)		
A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number _____		
A8. For a building with a crawspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawspace or enclosure(s) _____ sq ft		a) Square footage of attached garage _____ sq ft
b) Number of permanent flood openings in the crawspace or enclosure(s) within 1.0 foot above adjacent grade _____		b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A8.b _____ sq in		c) Total net area of flood openings in A9.b _____ sq in
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION								
B1. NFIP Community Name & Community Number			B2. County Name			B3. State		
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)			
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____								
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____								
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: _____ / _____ / _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA								

Comments: \_\_\_\_\_

\_\_\_\_\_

Date of Review: 6 Jan. 2015 Community Official: [Signature]

All elevation certificates shall be maintained by the community and copies with the attached memo made available upon request.

BOARD MEETS FIRST THURSDAY AT 7:00 P.M.  
AND THIRD THURSDAY AT 7:00 P.M.

# ELEVATION CERTIFICATE

**Important: Read the instructions on pages 1-9.**

OMB No. 1660-0008  
 Expiration Date: July 31, 2015

## SECTION A - PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name Pete Margaritondo

Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  
1062 SW Bluff Dr.

Company NAIC Number:

City Ft. White

State FL

ZIP Code 32038

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)  
Lot 20 Cedar Springs Shores Un 5 / 18-7S-16-04236-052

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 29°57.072 Long. 82°47.214' Horizontal Datum:  NAD 1927  NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 5

A8. For a building with a crawlspace or enclosure(s):

- a) Square footage of crawlspace or enclosure(s) N/A sq ft
- b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A
- c) Total net area of flood openings in A8.b N/A sq in
- d) Engineered flood openings?  Yes  No

A9. For a building with an attached garage:

- a) Square footage of attached garage N/A sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A
- c) Total net area of flood openings in A9.b N/A sq in
- d) Engineered flood openings?  Yes  No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number  
Columbia 120070

B2. County Name  
Columbia

B3. State  
FL

B4. Map/Panel Number  
12023C0469C

B5. Suffix  
C

B6. FIRM Index Date  
4 Feb 2009

B7. FIRM Panel Effective/Revised Date  
4 Feb 2009

B8. Flood Zone(s)  
AE

B9. Base Flood Elevation(s) (Zone AO, use base flood depth)  
35

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

- FIS Profile  FIRM  Community Determined  Other/Source: \_\_\_\_\_

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
 Designation Date: \_\_\_\_\_  CBRS  OPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction

\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: 12" elm tree

Vertical Datum: NAVD 88

Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 37.66  feet  meters
- b) Top of the next higher floor 49.02  feet  meters
- c) Bottom of the lowest horizontal structural member (V Zones only) N.A  feet  meters
- d) Attached garage (top of slab) N.A  feet  meters
- e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 37.01  feet  meters
- f) Lowest adjacent (finished) grade next to building (LAG) 30.2  feet  meters
- g) Highest adjacent (finished) grade next to building (HAG) 32.1  feet  meters
- h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 29.3  feet  meters

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

- Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No
- Check here if attachments.

Certifier's Name L. Scott Britt

License Number LS 5757

Title Chief Surveyor

Company Name Britt Surveying and Mapping, LLC

Address 2086 SW Main Blvd. #112

City Lake City

State FL ZIP Code 32025

Signature 

Date 08/18/14

Telephone 386-752-7163


PLACE  
SEAL  
HERE

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>	<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1062 SW Bluff Dr.	Policy Number:
City Ft. White State FL ZIP Code 32038	Company NAIC Number:

**SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments L-23141  
See Attachment

  
Signature

Date 08/18/14

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).  
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_  feet  meters  above or  below the HAG.  
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_  feet  meters  above or  below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_ Telephone \_\_\_\_\_

Comments \_\_\_\_\_

Check here if attachments.

**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3.  The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number _____	G5. Date Permit Issued _____	G6. Date Certificate Of Compliance/Occupancy Issued _____
-------------------------	------------------------------	---

- G7. This permit has been issued for:  New Construction  Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G10. Community's design flood elevation: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

Local Official's Name \_\_\_\_\_ Title \_\_\_\_\_

Community Name \_\_\_\_\_ Telephone \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

Check here if attachments.

# Building Photographs

See Instructions for Item A6.

**IMPORTANT: In these spaces, copy the corresponding information from Section A.**

FOR INSURANCE COMPANY USE

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  
1062 SW Bluff Dr.

Policy Number:

City Ft. White

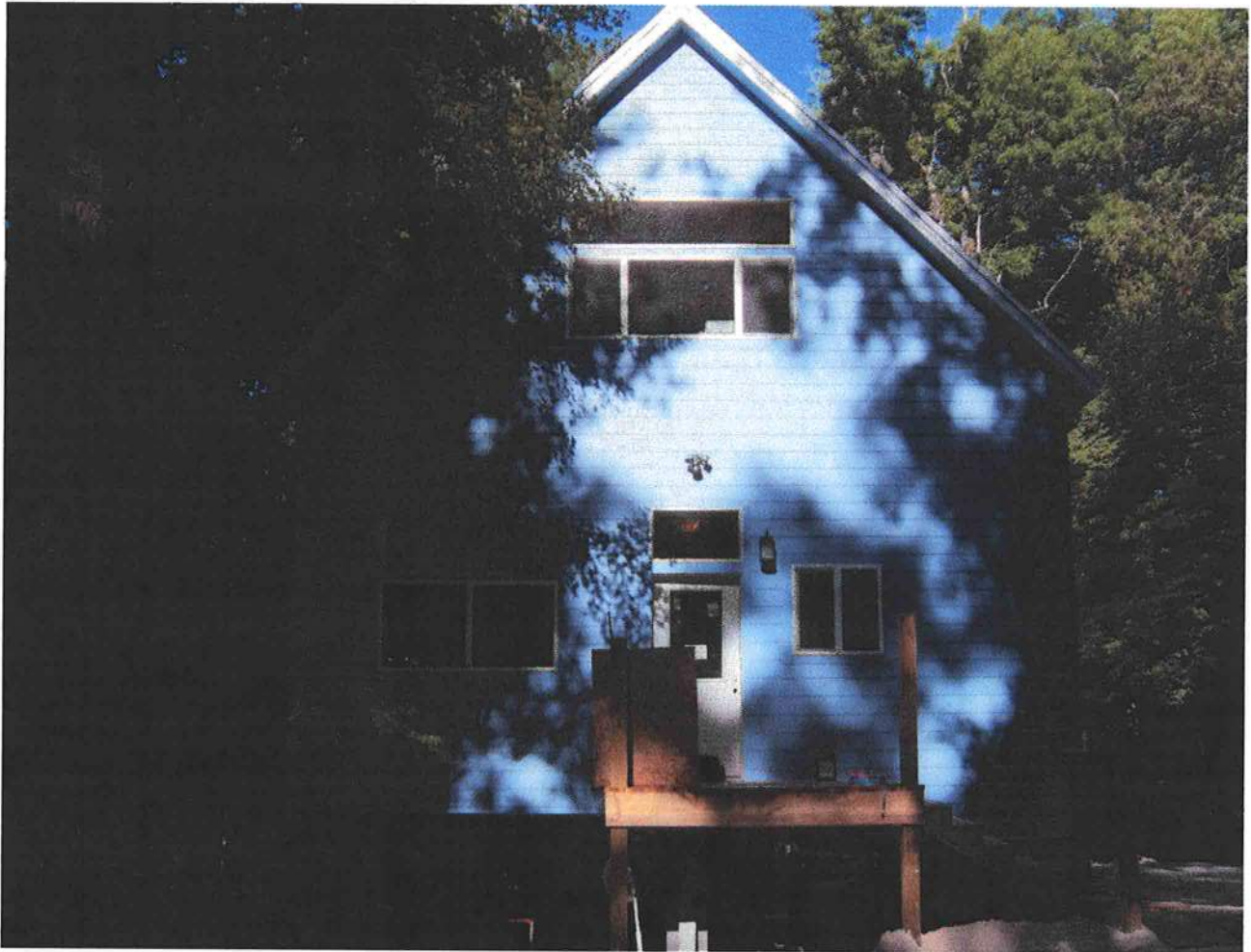
State FL

ZIP Code 32038

Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

Front View



# Building Photographs

Continuation Page

**IMPORTANT: In these spaces, copy the corresponding information from Section A.**

FOR INSURANCE COMPANY USE

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  
1062 SW Bluff Dr.

Policy Number:

City Ft. White

State FL

ZIP Code 32038

Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Rear View





# **BRITT SURVEYING**

***Land Surveyors and Mappers***

**LAKE CITY • VENICE • SARASOTA**

## Section A

A1 No additional comment

A2 The address is taken from the public records

A3 – A4 No additional comment

A5 Hand Held GPS coordinate at the center of building along the front wall

A6 Photographs were taken by Britt Surveying and Mapping, LLC as per date of survey.

A7 – A9 No additional comment

## Section B

B1 – B7 No additional comment

B8 This building appears to be in Zone AE.

B9 – B10 The BFE as shown hereon is based on the FIRM

B11 – B12 No additional comment

## Section C

C1 No additional comment

C2 There is a benchmark in a 12" Elm tree whose elevation is determined to be 33.25 feet NAVD 88 datum.

C2 a Two story residence

C2 b second story

C2 c - d No additional comment

C2 e Air conditioning unit

C2 f - h No additional comment

## Section D

No additional comment

## Section E

No additional comment

## Section F

No additional comment

## Section G

No additional comment

## Photographs

No photographs at this time

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 0 278  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID:1V0L215-Z0218152019



Truss Fabricator: **W.B. Howland**  
Job Identification: **8287-/BILL HARPER-MARGO RES. /Contractor -- , FL**  
Truss Count: **8**  
Model Code: **Florida Building Code 2010**  
Truss Criteria: **FBC2010Res/TPI-2007(STD)**  
Engineering Software: **Alpine Software, Version 12.03.**  
Structural Engineer of Record: **The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC**  
Address:  
Minimum Design Loads: **Roof - 40.0 PSF @ 1.25 Duration**  
**Floor - 55.0 PSF @ 1.00 Duration**  
**Wind - 130 MPH ASCE 7-10 -Closed**

10/18/2013

### Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Walter P. Finn  
-Truss Design Engineer-

1950 Marley Drive  
Haines City, FL 33844

Details: 14030EC1-GBLLETIN-BRCLBSUB-PB16010-

#	Ref	Description	Drawing#	Date
1	77056--A1		13291001	10/18/13
2	77057--A2		13291004	10/18/13
3	77058--A3		13291014	10/18/13
4	77059--A4		13291002	10/18/13
5	77060--A6		13291006	10/18/13
6	77061--PB1		13291003	10/18/13
7	77062--PB2		13291005	10/18/13
8	77063--F		13291015	10/18/13

3145A

U

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( 8287-/BILL HARPER-MARGO RES./Contractor -- , FL - A2 )

Top chord 2x6 SP M-31 : T2 2x4 SP M-31 :  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

130 mph wind, 16.58 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCP(+/-)=0.18

End verticals not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Collar-tie braced with continuous lateral bracing at 24" OC, or rigid ceiling.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.30.

The overall height of this truss excluding overhang is 12-0-0.

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(1) - Plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

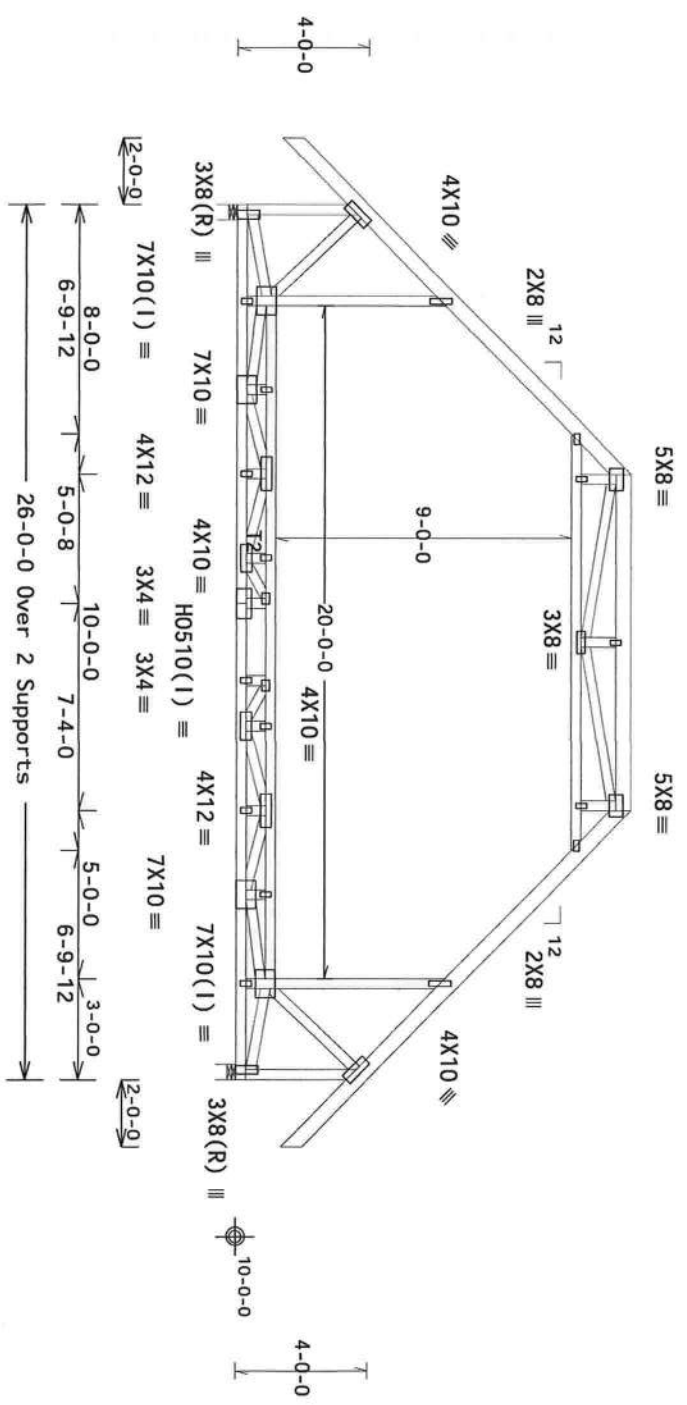
Wind loads and reactions based on MMFRS with additional C&C member design.

Calculated horizontal deflection is 0.20" due to live load and 0.30" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 3-0-0 to 23-0-0.

Calculated vertical deflection is 0.36" due to live load and 0.73" due to dead load at X = 11-10-4.



R=2500 U=51 W=5.5" (5.5" min.)  
 RL=253/-253

Note: All Plates Are 2X4 Except As Shown.  
 Design Crit: FBC2010Res/TPI-2007(STD)  
 FT/RT=20%(OK)/10(O)

PLT TYP. 20 Gauge HS, Wave



ITW Building Components Group Inc.  
 Orlando, FL, 32837  
 FL COA #0 278

\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.  
 FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information, by TPI and WDCI for safety and bracing details. Truss fabricators shall provide temporary bracing per BCSI. Truss fabricators shall have a properly attached rigid ceiling. Locations shown for permanent lateral resistance or web shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.  
 ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing, indicating acceptance of professional engineering design and the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see the general notes page: ITW-BDC: www.itwbcg.com; TPI: www.tpiinc.org; WDCI: www.abci-industry.com; ICC: www.iccsafe.org



10/18/2015

TC LL	20.0 PSF	REF	R215-- 77057
TC DL	10.0 PSF	DATE	10/18/13
BC DL	10.0 PSF	DRW	HJUSR215 13291004
BC LL	0.0 PSF	HC-ENG	SSB/AP
TOT. LD.	40.0 PSF	SEQN-	378388
DUR. FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VOL215_Z02

Scale = .1875"/Ft.

Top chord 2x6 SP M-31 :T2 2x4 SP M-31:  
 Bot chord 2x6 SP M-31 :T2 2x4 SP M-31:  
 Webs 2x4 SP M-31

Design Dead Loads based on material weight adjusted for slope: TC:  
 1.00 PSF

Special loads

TC- From	Dur. Fac.=1.25 / Plate Dur. Fac.=1.25)	132 pif at 0.00
TC- From		132 pif at 3.00
TC- From		132 pif at 6.81
TC- From		132 pif at 10.62
TC- From		132 pif at 14.43
TC- From		132 pif at 18.24
TC- From		132 pif at 22.05
TC- From		132 pif at 25.86
TC- From		132 pif at 29.67
TC- From		132 pif at 33.48
TC- From		132 pif at 37.29
TC- From		132 pif at 41.10
TC- From		132 pif at 44.91
TC- From		132 pif at 48.72
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TC- From		132 pif at 1107.90
TC- From		132 pif at 1111.71
TC- From		132 pif at 1115.52
TC- From		132 pif at 1119.33
TC- From		132 pif at 1123.14
TC- From		132 pif at 1126.95
TC- From		132 pif at 1130.76
TC- From		132 pif at 1134.57
TC- From		132 pif at 1138.38
TC- From		132 pif at 11

Top chord 2x6 SP M-31 : T2 2x4 SP M-31  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

End verticals not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 3-0-0 to 23-0-0.

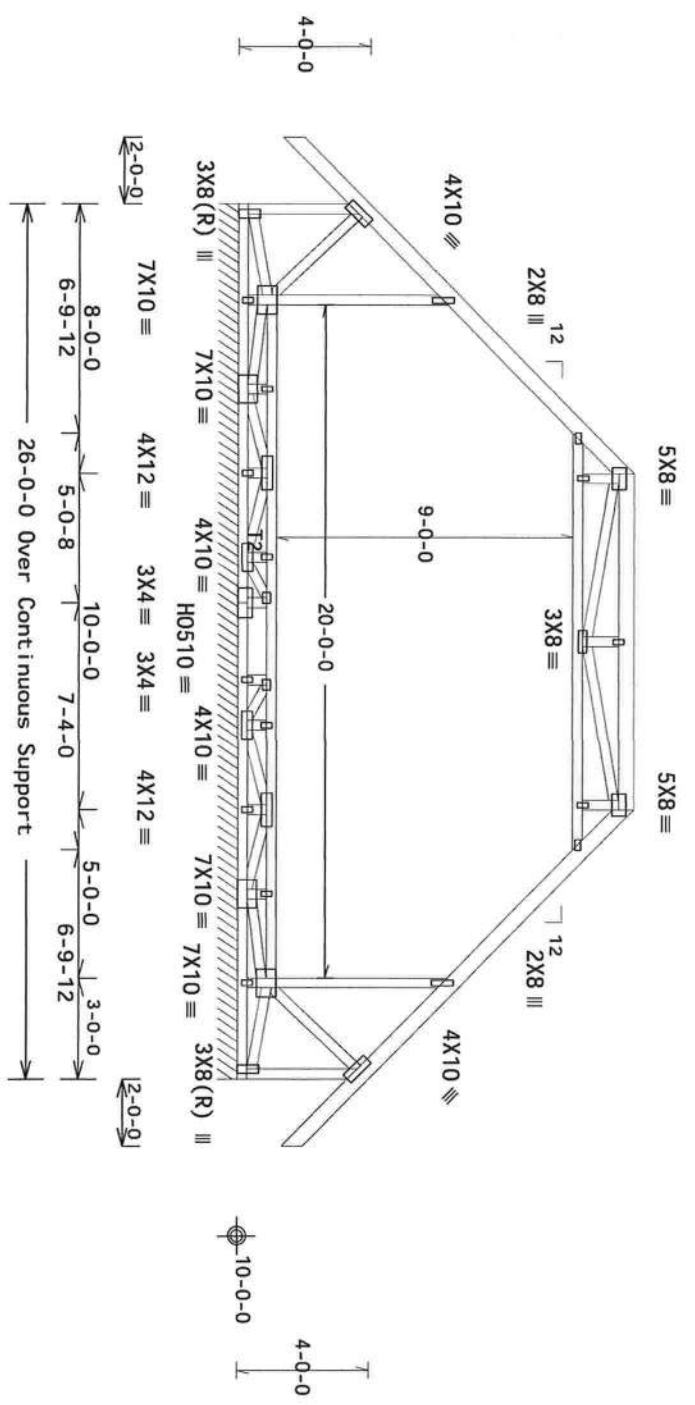
The overall height of this truss excluding overhang is 12-0-0.

130 mph wind, 16.58 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Gcpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Collar-tie braced with continuous lateral bracing at 24" OC, or rigid ceiling.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=192 PLF U=4 PLF W=26-0-0  
 RL=10/-10 PLF

Note: All Plates Are 2X4 Except As Shown.

PLT TYP. 20 Gauge HS,Wave

Design Crit: FBC2010Res/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.03 0225 14

QTY: 1

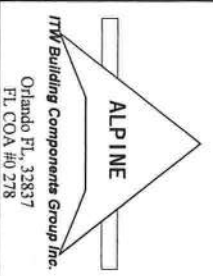
FL/-/1/-/1/-/R/-

Scale = .1875"/Ft.

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.**  
 FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BC31 (Building Component Safety) Information, by TPI and WDCI for safety instructions for erecting these trusses. Installers shall provide temporary bracing per BC31. Bracing shall be installed in accordance with the drawings. Locations shown for permanent lateral restraint of web shall have bracing installed per BC31 sections 83, 87 or 819, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure of the truss in conformance with AISI/TPI 1, or for handling, shipping, installing, erecting or bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on the drawing (cover page) listing this design, indicates acceptance of professional engineering structure in the general notes page: ITW-BDC: www.itwbcg.com; TPI: www.tpiinc.org; WDCI: www.abci-industry.com; IBC: www.iccsafe.org



10/18/2013

TC LL	20.0 PSF	REF	R215-- 77059
TC DL	10.0 PSF	DATE	10/18/13
BC DL	10.0 PSF	DRW	HCUR215 13291002
BC LL	0.0 PSF	HC-ENG	SSB/AP
TOT.LD.	40.0 PSF	SEQN-	378411
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VOL215_Z02



( 8287-/81LL HARPER-MARGO RES. /Contractor -- , FL - PB1 ) THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

130 mph wind, 24.51 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. GCpl(+/-)=0.18

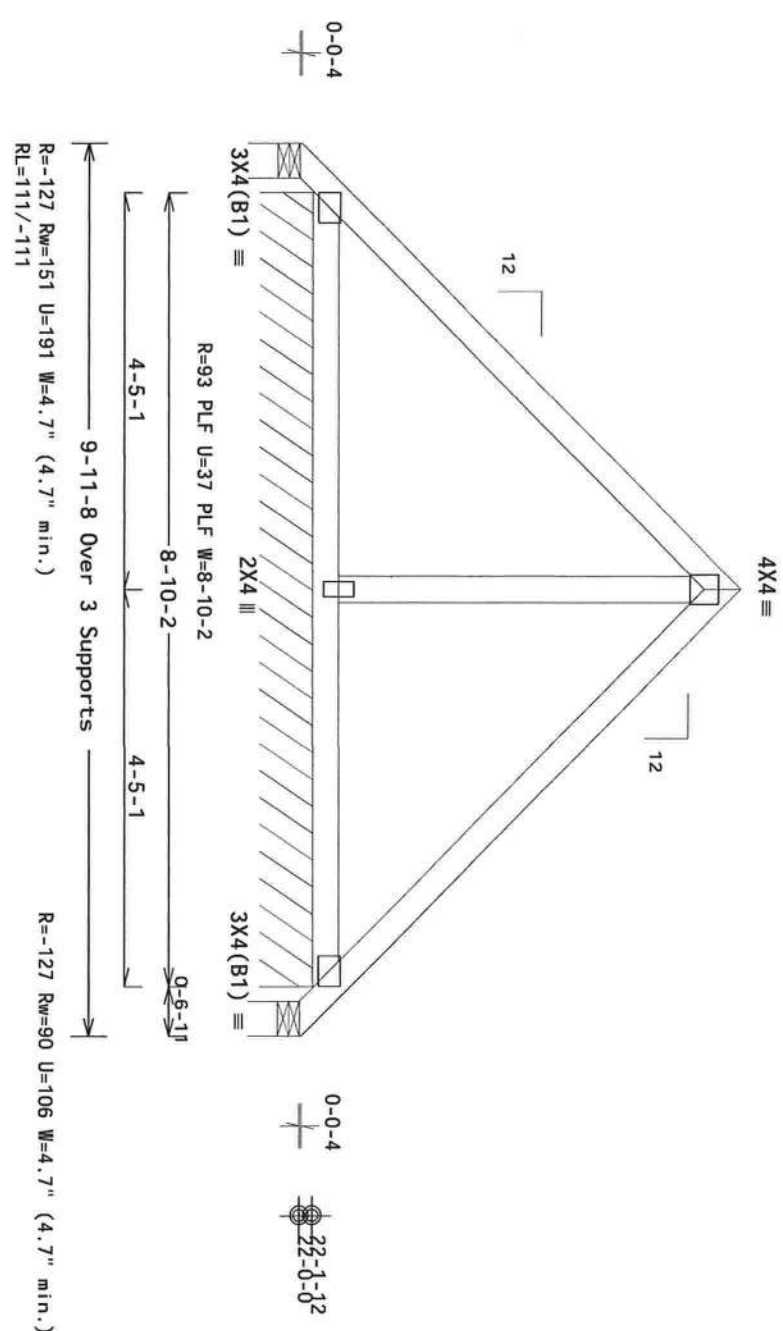
Wind loads and reactions based on MWFRS with additional C&C member design.

Refer to drawing PB160100212 for piggyback detail. Top chord of supporting truss under piggyback to be braced @ 24" O.C., unless otherwise specified.

Special loads

-----Lumber	Dur. Fac.=1.25 / Plate Dur. Fac.=1.25)
TC- From	60 pif at -0.56 to 60 pif at 4.42
TC- From	60 pif at 4.42 to 60 pif at 9.40
BC- From	4 pif at -0.56 to 4 pif at 9.40

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.  
 The overall height of this truss excluding overhang is 5-0-0.



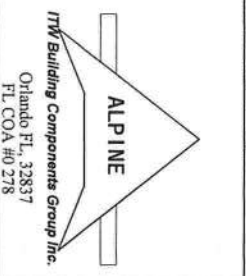
PLT TYP. Wave

Design Crit: FBC2010Res/TP1-2007 (STD)  
 FT/RT=20%(0%)/10(0)

12.03.03 0925 14

QTY: 12 FL-/1/-/R/-

Scale = .5"/Ft.



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
 FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSP (Building Component Safety Information, by TP1 and WTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSP. The manufacturer shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.  
 ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TP1 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 1604-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering structure in the jurisdiction of the Building Designer per ANSI/TP1 1 Sec.2. For more information see the general notes page: ITW-BDGS: www.itwbdgs.com; TP1: www.tp1inc.com; WTCA: www.abctindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R215--	77061
TC DL	10.0 PSF	DATE	10/18/13	
BC DL	10.0 PSF	DRW	HCUSR215	13291003
BC LL	0.0 PSF	HC-ENG	SSB/AP	
TOT. LD.	40.0 PSF	SEQN-	378423	
DUR. FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1V0L215_Z02	

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

Negative reaction(s) of -280# MAX. (See below) from a non-wind load case requires uplift connection.

Wind loads and reactions based on MMFRS with additional C&C member design.

Deflection meets L/360 live and L/240 total load. Creep increase Factor for dead load is 1.50.

Refer to drawing PB160100212 for piggyback detail. Top chord of supporting truss under piggyback to be braced @ 24" O.C., unless otherwise specified.

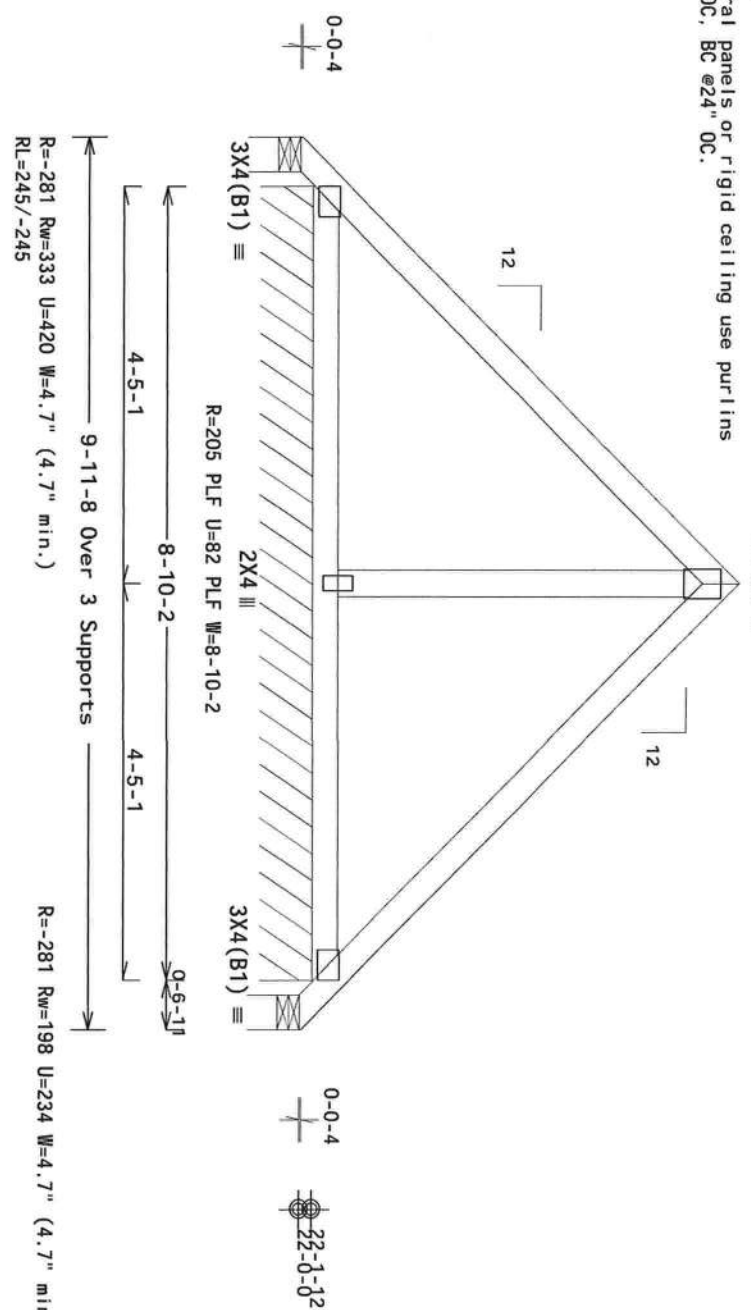
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @24" OC.

Special loads

-----Lumber	Dur.Fac.=1.25 / Plate Dur.Fac.=1.25
TC-From	132 pif at -0.56 to 132 pif at 4.42
TC-From	132 pif at 4.42 to 132 pif at 9.40
BC-From	9 pif at -0.56 to 9 pif at 9.40

130 mph wind, 24.51 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf, GCP(+/-)=0.18

Trusses to be spaced at 52.9" OC maximum.  
The overall height of this truss excluding overhang is 5-0-0.



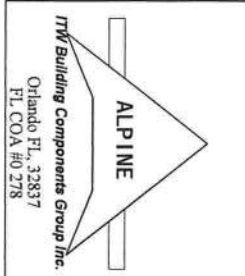
PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(O)

12.03.03.0225.14

QTY:2 FL/-/1/-/2/R/-

Scale = .5"/Ft.



**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.**  
FURNISH THIS DESIGN TO ALL CONTRACTORS, INCLUDING INSTALLERS.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSP (Building Component Safety Information, by TPI and WDC) for safety precautions prior to performing these functions. Installers shall provide temporary bracing per BCSP. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web shall have bracing installed per BCSP sections 83, 87 or 89, as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss, and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering for any structure. The responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information, visit the website: www.itwbcg.com. The general notes page: ITW-BDC: www.ltwbcg.com; TPI: www.tpinet.org; WDC: www.alco-industry.com; IBC: www.icsafe.org



TC LL	20.0 PSF	REF R215-- 77062
TC DL	10.0 PSF	DATE 10/18/13
BC DL	10.0 PSF	DRW HCUR215 13291005
BC LL	0.0 PSF	HC-ENG SSB/AP
TOT.LD.	40.0 PSF	SEQN- 378421
DUR.FAC.	1.25	FROM CDM
SPACING	52.9"	JREF- 1V0L215_Z02

10/18/2013

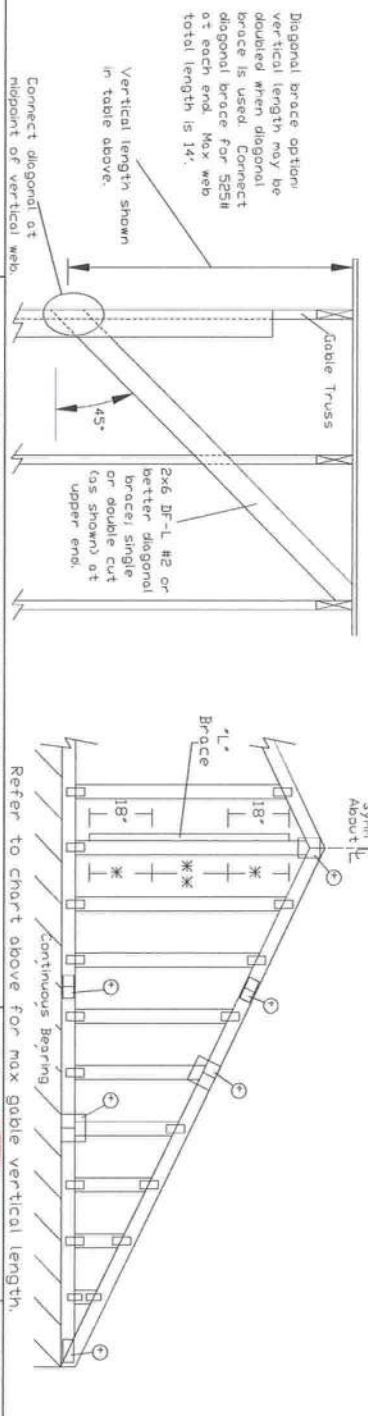


# Gable Stud Reinforcement Detail

## ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00  
 Dr: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00  
 Dr: 100 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Gable Vertical Species		Brace No	Brace												
			1x4 L' Brace		2x4 L' Brace		2x4 L' Brace		2x6 L' Brace		2x6 L' Brace		2x6 L' Brace		
Spacing	Species	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	
12" o.c.	SPF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"	
		Stud	3' 10"	6' 10"	7' 1"	7' 1"	8' 5"	9' 8"	10' 0"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"
	HF	Standard	3' 10"	6' 5"	6' 5"	8' 1"	8' 5"	9' 8"	10' 0"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	14' 0"
		#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 1"	6' 10"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
SP	Standard	3' 10"	5' 6"	5' 10"	7' 4"	7' 10"	9' 8"	10' 0"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
	#3	3' 10"	5' 6"	5' 10"	7' 4"	7' 10"	9' 8"	10' 0"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
	Stud	3' 10"	5' 6"	5' 10"	7' 4"	7' 10"	9' 8"	10' 0"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
DFL	Standard	3' 8"	4' 9"	5' 1"	6' 4"	6' 10"	8' 7"	9' 3"	10' 0"	10' 8"	13' 7"	14' 0"	14' 0"	14' 0"	
	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	Stud	4' 5"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
16" o.c.	SPF	#1	4' 5"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	4' 5"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
HF	Standard	4' 5"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	#1	4' 9"	8' 0"	8' 3"	9' 5"	9' 9"	11' 2"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
SP	Standard	4' 5"	6' 9"	7' 2"	9' 0"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	#3	4' 5"	6' 9"	7' 2"	9' 0"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	Stud	4' 5"	6' 9"	7' 2"	9' 0"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
DFL	Standard	4' 5"	5' 10"	6' 3"	7' 9"	8' 4"	10' 6"	11' 3"	12' 3"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	
	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 9"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	#3	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 8"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
24" o.c.	SPF	#1 / #2	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
HF	Standard	5' 3"	8' 9"	9' 1"	10' 4"	10' 9"	12' 9"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
	#1	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 9"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
	#2	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 8"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
SP	Standard	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 8"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 8"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 8"	13' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
DFL	Standard	4' 10"	6' 9"	7' 2"	9' 0"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		



**Diagonal brace option:** Vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.

**Vertical length shown in table above.**

**Connect diagonal at midpoint of vertical web.**

**45°**

**2x6 DF-L #2 or better diagonal brace/ single or double cut (as shown) at upper end.**

**Sym L**

**Absorb L**

**18"**

**18"**

**Continuous bearing**

**Refer to chart above for max gable vertical length.**

**Refer to the Building Designer for conditions not addressed by this detail.**



**IMPORTANT\*\* READ AND FOLLOW ALL NOTES IN THIS DRAWING**

**\*\*WARNING\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Tenants require extreme care in fabrication, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSS (Building Component Safety) Information, by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSS unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSS sections B3.37 or B10, as applicable. Apply plates to each face of truss end position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with AISI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown, the suitability and use of this drawing for the intended application. For more information see this job's general notes page and these web sites: ITWBCI: www.itwbcg.com; TPI: www.tpi.com; WTC: www.wtcindustrial.com; WTC: www.wtcce.com



MAX. TOT. LD. 60 PSF	MAX. SPACING 24.0'
REF: ASCE7-10-GAB14030	DATE: 2/14/12
DRAWG: A14030ENC100212	

10/18/2013









# W.B. Howland Co., Inc.

Truss Department - P.O. Box 700  
 Live Oak, FL 32064  
 Phone: (386) 362-1235 \* Fax: (386) 362-7124

## WORK ORDER

Job #: 8287

Date: Monday, Sep 30 2013

**Salesman:**  
HOUSE

**Designer:**  
Cynthia Gude-Newsome

**Notes:**

**Description:**  
BILL HARPER-MARGO RES.

Job#: 8287

Customer: Contractor

WORK ORDER

Qty.	Span	Description	Truss	Slope TC/BC	Weight + Height	BDFT + Num Pcs
1	26-00-00	A1		12.00 2x4 / 2x4	239.40 lbs. 11-08-08 239.40 lbs.	114 17
11	26-00-00	A2		12.00 2x6 / 2x4	317.80 lbs. 12-00-00 3495.80 lbs.	1664.7 36
2	26-00-00	A3 3 -Ply		12.00 2x6 / 2x6	317.80 lbs. 12-00-00 635.60 lbs.	302.67 36
1	26-00-00	A4		12.00 2x6 / 2x4	317.80 lbs. 12-00-00 317.80 lbs.	151.33 36
1	09-11-08	A6		12.00 2x4 / 2x4	56.00 lbs. 05-00-00 56.00 lbs.	26.667 6
12	09-11-08	PB1		12.00 2x4 / 2x4	44.80 lbs. 05-00-00 537.60 lbs.	256 4
2	09-11-08	PB2		12.00 2x4 / 2x4	44.80 lbs. 05-00-00 89.60 lbs.	42.667 4
8	06-07-08	F		0.00 2x6 / 2x4	0.00 lbs. 00-00-00 0.00 lbs.	0 0

Total Truss Weight: 5372

Accepted By \_\_\_\_\_

Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Top chord 2x4 SP M-31 T2 2x6 SP M-31:  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

End verticals not exposed to wind pressure.

Calculated horizontal deflection is 0.22" due to live load and 0.53" due to dead load.

See DWGS A14030ENC100212 & GBLLETIN0212 for more requirements.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets U/360 live and U/240 total load. Creep increase factor for dead load is 1.50.

All plates are 2x4 except as noted.  
 130 mph wind, 17.65 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCP(+)=-0.18

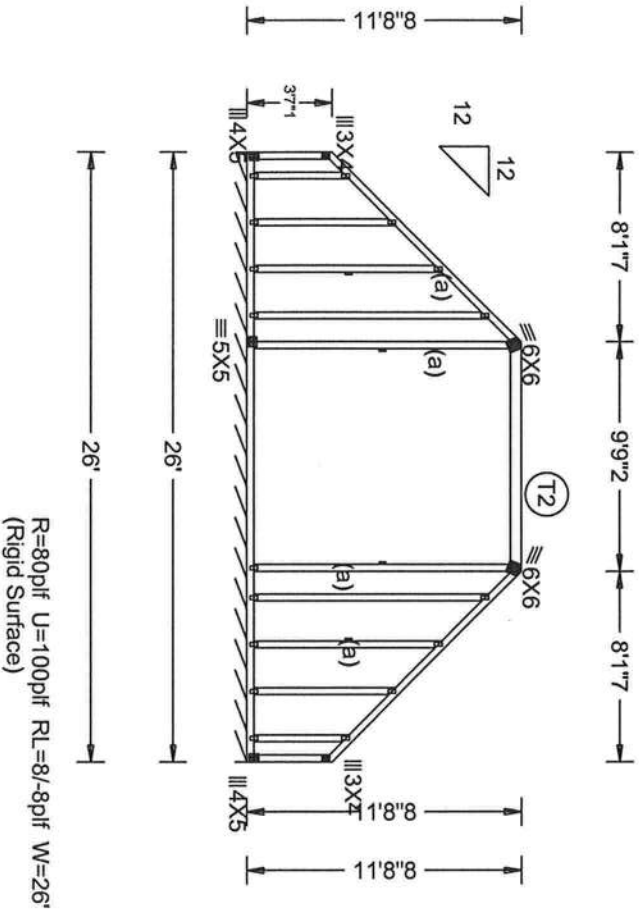
Wind loads and reactions based on MMWFERS with additional C&C member design.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 11'-8-8".



LEFT JIG = 14'3"  
 TAG = T2  
 P.L.T. TYP. WAVE

DESIGN CRT: FBC2310RES17R-2007 FTRT-20N(0X)Y1000

QTY = 1 TOTAL = 1

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING**  
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the manufacturer's instructions for proper handling, storage, and bracing. Failure to properly brace the trusses prior to performing these functions, including but not limited to, lifting, moving, or erecting, may result in structural failure. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraints of webs are for reference only. Truss members shall be braced in accordance with the manufacturer's instructions. Refer to drawings 100A-Z for standard plate positions.

Trussing Components Group Inc. shall not be responsible for any deviation from this drawing. A seal on this drawing or cover page listing the drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the building designer per ASCE 7-10 Sec. 2.

TRUSSING Components Group Inc. www.trussing.com, TPI www.tpi.net, and Truss web site: TRUSSING www.trussing.com, TPI www.tpi.net, WTC www.wtc.com, TCC www.tcc.com

REV. 12.03.03.0225.14

RIGHT JIG = 14'3"  
 SEQ = 378406  
 SCALE = 0.1250

TC LL	20.0psf	REF
TC DL	10.0psf	DATE 10-22-2013
BC DL	10.0psf	DRWG
BC LL	0.0psf	CDM
TOT.LD.	40.0psf	O/A LEN. 26
DUR.FAC.	1.25	JOB #: 8287
SPACING	24.0"	TYPE DGABL

Top chord 2x6 SP M-31 :12 2x4 SP M-31:  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

End verticals not exposed to wind pressure.

Calculated horizontal deflection is 0.20" due to live load and 0.30" due to dead load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets U360 live and U240 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 12'-0".

Design Dead Loads based on material weight adjusted for slope. TC: 1.00 PSF

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

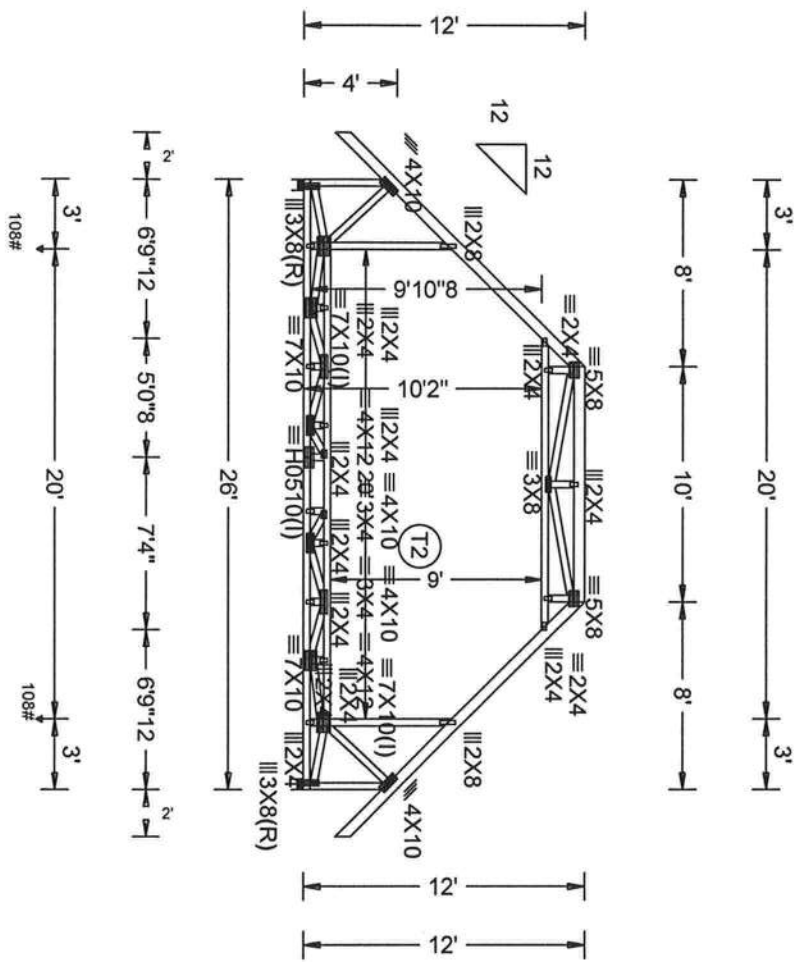
130 mph wind, 16.58 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $GCP(1+J)=0.18$

Wind loads and reactions based on MMFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 3-0-0 to 23-0-0.

Calculated vertical deflection is 0.36" due to live load and 0.73" due to dead load at X = 11'-10"-4.



R=2500# U=51# RL=253/-253# W=5\*8  
 (Rigid Surface)  
 LEFT RAKE = 2'9"15  
 LEFT JIG = 14'5"1  
 TAG = T6  
 P.L.T. TYP.-WAVE

R=2500# U=51# W=5\*8  
 (Rigid Surface)  
 QTY = 11 TOTAL = 11

DESIGN ORIF=RB2010RB2015-2001 FRFR=200404/10/01

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING**

**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in unloading, handling, shipping, installing and bracing. Care to any failure of the truss or its components. Trusses are not to be used for any other purpose. Trusses are not to be used for any other purpose. Trusses are not to be used for any other purpose.

Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BC51 and/or BC10. See permit office for details. Trusses are not to be used for any other purpose.

Refer to drawings U004, Z for standard plate positions. Trusses are not to be used for any other purpose. Trusses are not to be used for any other purpose.

As used on this drawing or cover page listing the drawing, indicates acceptance of professional engineering responsibility by the engineer shown. The engineer and user of this drawing shall be responsible for any failure in performance with ASCE 7-10, or for handling, shipping, installation or bracing of trusses.

For more information see the job's general notes page and these web sites:  
 TNABC: www.tnabc.com, TN: www.tnand.org, VTCA: www.vtca.org, ICC: www.iccsafe.org

TC LL	20.0psf	REV.	12.03.03.0225.14
TC DL	10.0psf	RIGHT RAKE = 2'9"15	
BC DL	10.0psf	RIGHT JIG = 14'5"1	
BC LL	0.0psf	SEQ. = 378388	
TOT.LD.	40.0psf	SCALE = 0.1250	
DUR.FAC.	1.25		
SPACING	24.0"		

REF	
DATE	10-22-2013
DRWG	CDM
O/A LEN.	26
JOB #.	8287
TYPE	HIPS







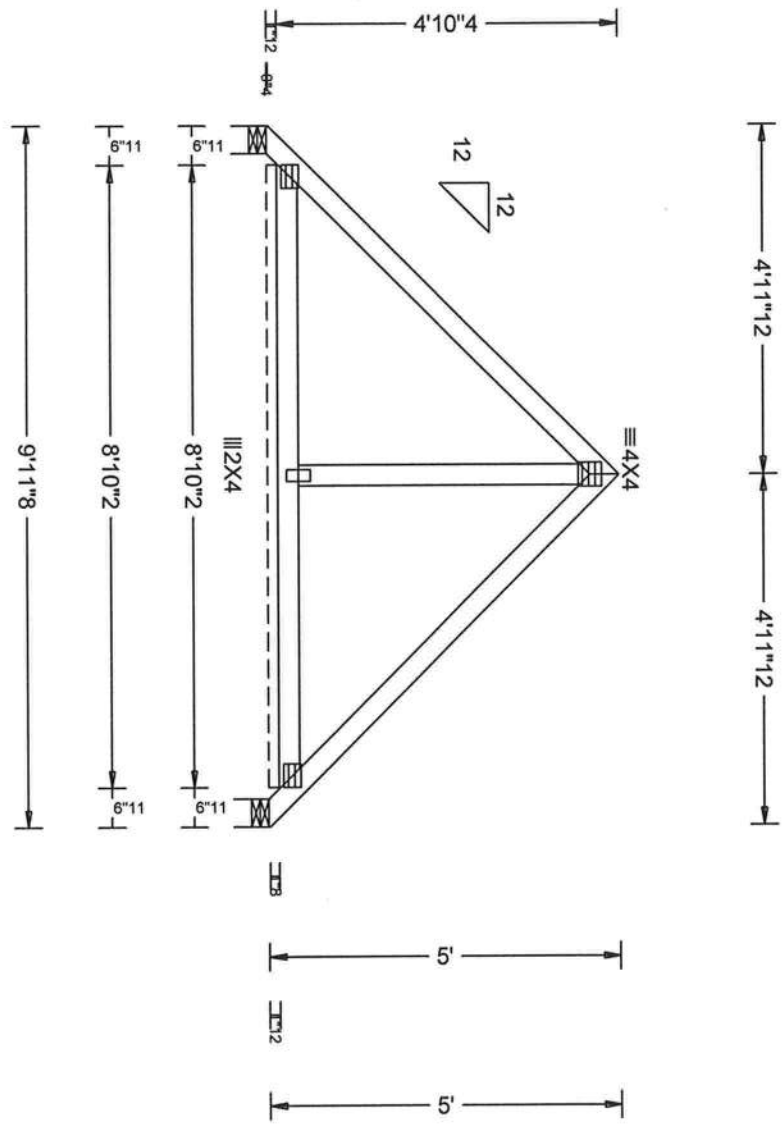
Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

130 mph wind, 24.51 ft mean hgt, ASCE 7-10, CLOSED Bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf, GCp(+/)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.  
The overall height of this truss excluding overhang is 5-0-0.

THIS DWG. PREPARED BY THE ALPINE JOB DESIGNER PROGRAM FROM TRUSS MFRS LAYOUT  
All plates are 3X4(8'1) except as noted.

Special loads  
Lumber Dur Fac = 1.25 / Plate Dur Fac = 1.25  
TC- From 60 pif at -0.56 to 60 pif at 4.42  
TC- From 60 pif at 4.42 to 60 pif at 9.40  
BC- From 4 pif at -0.56 to 4 pif at 9.40  
Deflection meets U/360 live and U/240 total load. Creep increase factor for dead load is 1.50.



R=127# Rw=151# U=191# RL=111/-111# W=4"11  
(Rigid Surface)

R=93pif U=100pif W=8'10"2  
(Rigid Surface)  
R=127# Rw=90# U=106# W=4"11  
(Rigid Surface)  
QTY = 12 TOTAL = 12

LEFT RAKE = 2"13  
LEFT JIG = 6'6"13  
TAG = T5  
PLT: TYP - WAVE

DESIGN CRT: FB02010RES/TH-2007 FTRT-20/04/11/10/0

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING  
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Components Study) information, by TYP and WIP per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-Z for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing. A seal on this drawing or cover page listing the drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of the drawing for any structure is the responsibility of the Building Designer per ANSI/SPR 1, Sec. 2.

For more information see the job's general notes page and these web sites:  
ITWBCG: www.itwbcg.com, TYP: www.typl.com, WIP: www.wip.com, BCSI: www.bcsi.com, ICC: www.iccsafe.org

REV. 12.03.03.0225.14

TC LL	20.0psf
TC DL	10.0psf
BC DL	10.0psf
BC LL	0.0psf
TOT.LD.	40.0psf
DUR.FAC.	1.25
SPACING	24.0"

RIGHT RAKE = 2"13  
RIGHT JIG = 6'6"13  
SEQ = 378423  
SCALE = 0.3750

REF	DATE	TYPE
DRWG	10-22-2013	CDM
JOB #:	8287	COMN

Top chord 2x4 SP M-31  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

Negative reaction(s) of -280# MAX. (See below) from a non-wind load case requires uplift connection.

130 mph wind, 24.5 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof. RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf, GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

THIS DWG. PREPARED BY THE ALPINE JOB DESIGNER PROGRAM FROM TRUSS MFRS LAYOUT

All plates are 3x4(B1) except as noted.

Special loads  
 —(Lumber Dur.Fac=1.25 / Plate Dur.Fac=1.25)

TC- From 132 pft at -0.56 to 132 pft at 4.42

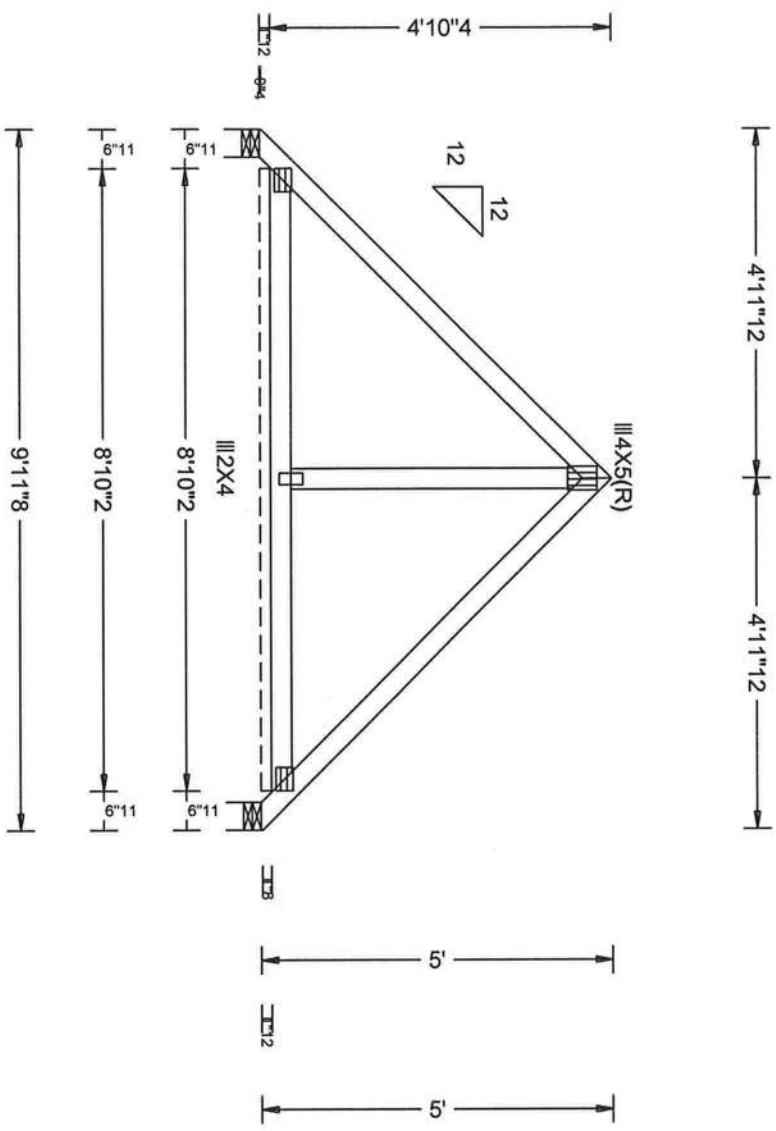
TC- From 132 pft at 4.42 to 132 pft at 9.40

BC- From 9 pft at -0.56 to 9 pft at 9.40

In lieu of structural panels use purlins to brace TC @ 24" OC.

Trusses to be spaced at 52.9" OC maximum.

The overall height of this truss excluding overhang is 5-0-0.



R=-281# Rw=333# U=420# RL=245/-245# W=4"11  
 (Rigid Surface)

LEFT RAKE = 2"13  
 LEFT JIG = 6"6"13  
 TAG = T7  
 PLT. TYP-WAVE

R=205pft U=100pft W=8'10"2  
 (Rigid Surface)  
 R=-281# Rw=198# U=234# W=4"11  
 (Rigid Surface)  
 QTY= 2 TOTAL= 2

DESIGN CR1=FBG2010RES/TP1-2007.F1/R1=20/W/04/10/01

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
 \*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, unloading and bracing. Refer to and follow the latest edition of ECSS (Building Components) and provide necessary bracing per ECSS. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall be in accordance with ECSS 10.1.2.1. Refer to drawings, ECSS, Z for standard plate positions. Refer to drawings, ECSS, Z for standard plate positions. Truss Building Components Group Inc. shall not be responsible for any deviation from this drawing, or for any errors or omissions in this drawing. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ASCE 101.1, or the handling, shipping, installation, or bracing of trusses.

A seal on this drawing or cover page listing the drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ASCE 101.1, or the handling, shipping, installation, or bracing of trusses.

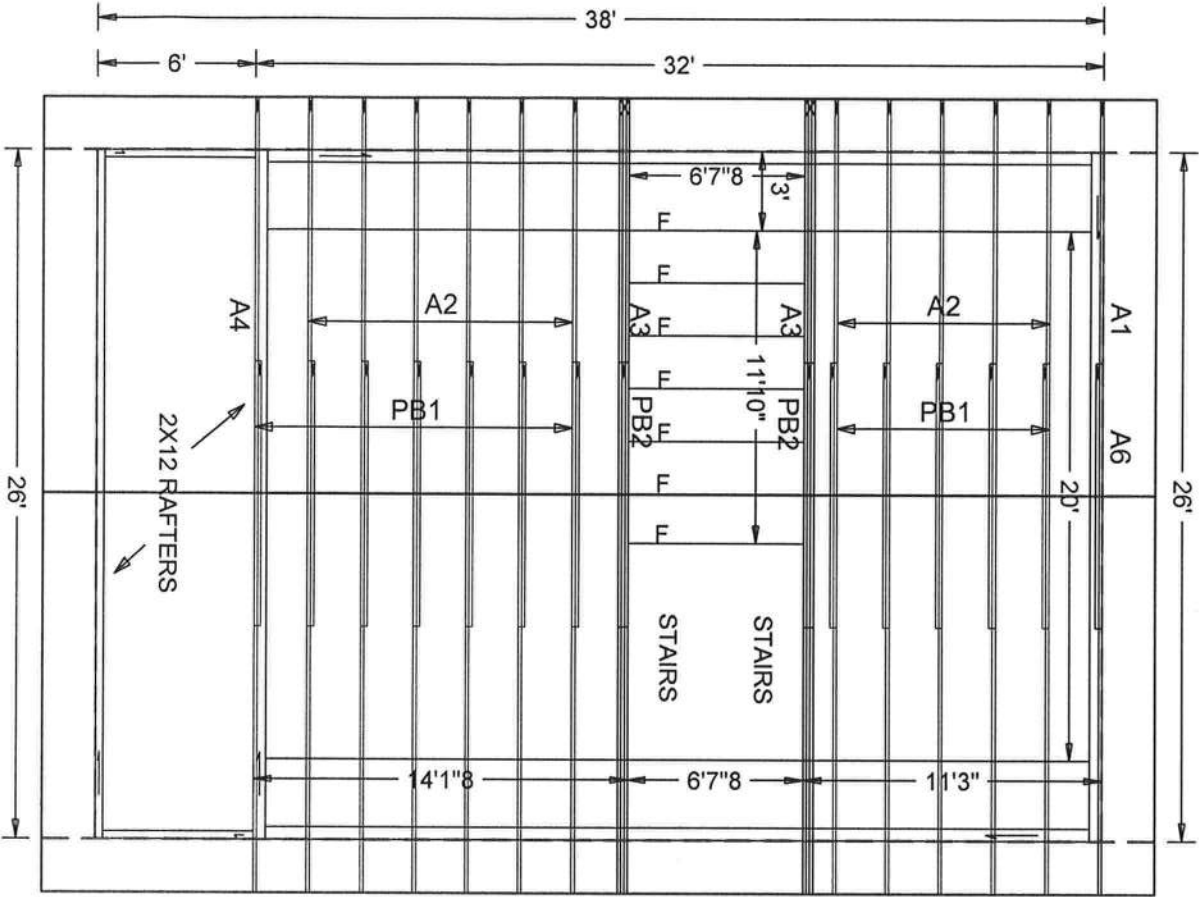
ITWBCO: www.itwbc.com, TYP: www.spd.itw.com, VTCO: www.itwbc.com, ICC: www.iccsafe.org

REV. 12.03.03.0225.14

RIGHT RAKE = 2"13  
 RIGHT JIG = 6"6"13  
 SEO = 378421  
 SCALE = 0.3750

TC LL	20.0psf	REF
TC DL	10.0psf	DATE 10-22-2013
BC DL	10.0psf	DRWG
BC LL	0.0psf	CDM
TOT.LD.	40.0psf	O/A LEN. 9'11"08
DUR.FAC.	1.25	JOB #: 8287
SPACING	52.9"	TYPE COMN





**CONVENTIONAL FRAMING  
REQD--ROOF--STAIR OPENING**

W.B. Howland Truss Co.  
P.O. Box 700  
Live Oak, FL 32064  
(386)362-1235  
(386)362-7124 (fax)

ROOF PITCH: 12/12  
CLG PITCH: FLAT  
OVERHANG: 24"  
LOADING: 40  
WIND LOAD: 130  
EXPOSURE: B  
FBC 2010 RESIDENTIAL  
EXT. WALLS: 2X6 FRAME  
DATE: 8/1/13

"F" TRUSS: 14" DEPTH  
FLAT TRUSS @ 2' O.C.  
F TO A3 TRUSS TO TRUSS  
CONNECTION: HUS26 HANGER

JOB #: 8287

Job Name: BILL HARPER-MARGO RES.  
Customer: Contractor  
Designer: Cynthia Gude-Newsome  
ADDRESS:  
SALESMAN: HOUSE  
: <Not Found>

JOB NO:  
8287

PAGE NO:  
1 OF 1



LP Job 64624

January 17, 2014

<b>To:</b> Norman Scheel Struct. Engg. <b>Fax:</b> 916.536.0267 <b>Phone:</b> 916.536.9585 <b>Re:</b> Seals Required	<b>From:</b> LP EWP Engineering / tb <b>Fax:</b> 866.753.4369 <b>Phone:</b> 800.515.7570 <b>Pages:</b> 5 including cover sheet
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We are sending you the following items:

CALCULATIONS                       OTHERS (SEE NOTES BELOW)  
 REPAIR DETAILS

Job Name: WB Howland Co – Pete Margo

Request **FL** impression  
 Mail AND fax/email copy to us  
 Fax or email scanned copy to:

Woodford Plywood  
 Attn: Clete Wilkerson  
 1504 S. Mock Rd.  
 Albany, GA 98036

Please email pdf to: [cwilkerson@woodfordplywood.com](mailto:cwilkerson@woodfordplywood.com)  
 : [indianriver1200@gmail.com](mailto:indianriver1200@gmail.com)

Tel: (800) 342-6400  
 Fax: (229) 888-4381

*Pls. mail original seals to:*                      1 copies  
 Address above

Notes:



LOUISIANA-PACIFIC CORPORATION  
 414 Union St, Suite 2000  
 Nashville, TN 37219  
[EWP.Design@lpcorp.com](mailto:EWP.Design@lpcorp.com)

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**NOTE**  
 1 THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN AS DETERMINED BY OTHERS VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND AND SEISMIC BRACING, AND OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED IS THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT. DISCLAIMAL RESPONSIBILITY FOR ALL PLANS, SPECIFICATIONS OR OTHER DOCUMENTS THAT MAY BE USED TO INCORPORATE THIS COMPONENT INTO THE BUILDING DESIGN.  
 2 PROVIDE RESTRAINT AT SUPPORTS TO ENSURE LATERAL STABILITY.  
 3 DO NOT CUT, NOTCH OR DRILL LPI FLANGES.  
 4 SHIM ALL BEARINGS BEFORE CUTTING LPI TO SIZE.  
 5 VERIFY DIMENSIONS BEFORE CUTTING LPI TO SIZE.  
 6 CONFIRM BEARING SURFACE FOR JOIST ONLY.  
 7 CONFIRM BEARING SURFACE FOR JOIST ONLY.  
 7 TO O.C. OR LESS

**LOAD TABLE**  
 NOTE: LOADS SHOWN ARE FOR INPUT LOAD CASE (1). OTHER LOAD CASE FOR PATTERN LIVE LOADING ARE CHECKED AS REQUIRED. (DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CANTILEVER)  
 DISTRIBUTION SOURCE TYPE TOP/SIDE LOAD FROM TO  
 UNIFORM FLOOR LIVE TOP 80 FIF 00-00-00 13-00-00  
 UNIFORM FLOOR DEAD TOP 30 FIF 00-00-00 13-00-00

1 LPI 20Plus DEPTH 11.875"  
 WEB: 0.375"  
 FLANGE 1.50 X 2.50

**DESIGN CRITERIA:**  
 LIVE LOAD = 40 PSF  
 DEAD LOAD = 15 PSF  
 TOTAL LOAD = 55 PSF  
 SPACING = 24.00 IN. C/C  
 DEFLECTION CRITERIA:  
 LIVE LOAD DEFL: L / 360  
 TOTAL LOAD DEFL: L / 240

MSI: 0.59  
 VSI: 0.47  
 RSI: 0.69

THIS COMPONENT IS SPECIFICALLY FOR L-P ENGINEERED WOOD PRODUCTS. USE OF THIS DESIGN FOR ANYTHING OTHER THAN LPI, LVL OR LP LVL OR LP L-JOISTS IS STRICTLY PROHIBITED. ANY MODIFICATION OF THIS DOCUMENT REQUIRES REVIEW BY A DESIGN PROFESSIONAL.

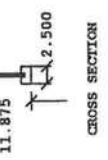
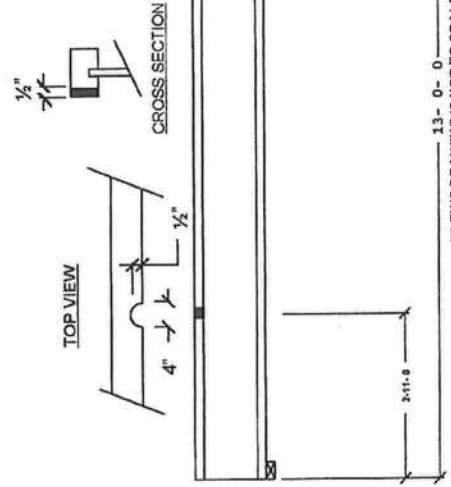
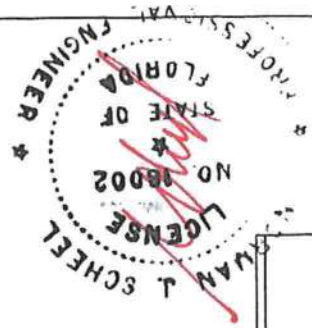
MINIMUM BEARING SIZES ARE SUFFICIENT TO PREVENT CRUSHING OF THE LPI JOIST AS DESIGNED. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER, ARCHITECT OR DESIGNER TO VERIFY THAT THE SUPPORT STRUCTURE FOR THIS JOIST IS CAPABLE OF SUPPORTING THE REACTIONS.

ANCHOR LPI JOIST SECURELY TO BEARINGS OR HANGERS.

APPLIED LOADS OVER END BEARINGS AND LOADS EXCEEDING 250 LBS OVER INTERMEDIATE BEARINGS MUST BE TRANSFERRED DIRECTLY TO SUPPORT BY RIM BOARD, BLOCKINGS, SQUASH BLOCKS OR OTHER DEVICE.

NO REPAIR REQUIRED

THIS DESIGN IS FOR THE REFERENCED PROJECT ONLY AND SHOULD NOT BE USED WITH ANY OTHER PROJECT OR DESIGN



**SUPPORT REACTIONS (LBS):**  
 MAXIMUM BEARING NUMBER  
 DOWN 715 715  
 UPLIFT --- ---  
**MIN BEARING SIZES (IN-SIX)**  
 2- 6 2- 6  
**MAXIMUM DEFLECTIONS**  
 CALCULATED ALLOWABLE  
 LIVE LOAD 1.4" (L/1062) 0.42"  
 DEAD LOAD 0.08" (L/1062) 0.08"  
 TOTAL LOAD 0.20" (L/713) 0.64"

Handling & Erection  
 Temporary and permanent bracing for hoisting component and for resisting lateral forces shall be designed and installed by others. No loads are to be applied to the component until after the bracing and fastening are completed. At no time shall loads greater than design loads be applied to the component.  
 Design Criteria  
 The design and material specified are in substantial conformity with the latest revisions of NDS. Dead load deflection includes adjustment factor for creep. Total load deflection is instantaneous.

Miscellaneous Information  
 The use of this component shall be specified by the designer of the complete structure. Obtain all the necessary code compliance approval and instructions from the designers of the complete structure before using this component. (This note does not apply to the component shown in this drawing which is signed and sealed. The structural design is approved as shown in this drawing based on data provided by the customer. LP LVL, LP LSL and CTR, LP L-Joists are made without camber and will deflect under load. Wood in direct contact with concrete must be protected as required by code. Continuous lateral supports assumed (wall, floor beam, etc.). LP does not provide on-site inspection. This drawing must have an Architect's or Engineer's seal affixed to be considered an Engineering document.

LP LVL, LP LSL and CTR, LP L-Joist Specifications  
 \* Supports and connections for LP LVL, LP LSL, CTR and LPI to be specific application and as per B3 Tech. del or later LP LVL, LP LSL and CTR, LP L-Joists except as shown in published material from LP. Any use of LP LVL, LSL and CTR, LP L-Joists contrary to the terms set forth herein negates any express warranty of the product and LP disclaims all implied warranties including the limited warranties of merchantability and fitness for a particular use.  
 \* A COPY OF THIS DRAWING IS TO BE GIVEN TO THE INSTALLING CONTRACTOR.  
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LP Engineered Wood Products  
 01/17/14 IBC 2009 2013.4  
 414 Union Street, Suite 2000  
 Nashville, TN 37219  
 Phone 600.545.7570  
 Fax 866.753.4369  
 DWG # 64624  
 SHEET # 1 of 4



NOTE: 1. THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN AS DETERMINED BY OTHERS. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, AND OTHER DESIGN CRITERIA ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. 2. THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN AS DETERMINED BY OTHERS. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, AND OTHER DESIGN CRITERIA ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. 3. THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN AS DETERMINED BY OTHERS. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, AND OTHER DESIGN CRITERIA ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER.

LOAD TABLE  
 NOTE: LOADS SHOWN ARE FOR INPUT LOAD CASE (1). OTHER LOAD CASES FOR PATTERN LIVE LOADING ARE CHECKED AS REQUIRED. (DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CANTILEVER)

DISTRIBUTION	SOURCE	TYPE	TOP	SIDE	LOAD	FROM	TO	IN-SK	IN-SK
UNIFORM	FLOOR	LIVE	TOP	TOP		00-00-00	00-00-00	13-00-00	13-00-00
UNIFORM	ELOOR	DEAD	TOP			00-00-00	00-00-00	13-00-00	13-00-00

DESIGN CRITERIA:  
 LIVE LOAD = 40 PSF  
 DEAD LOAD = 15 PSF  
 TOTAL LOAD = 55 PSF  
 SPACING = 24.00 IN. C/C  
 DEFLECTION CRITERIA:  
 LIVE LOAD DEFL: L / 360  
 TOTAL LOAD DEFL: L / 240  
 CODE COMPLIANCE:  
 REPORT #  
 APA PR-1238  
 ICC-ES ESR-1305  
 LADBS RR-25099  
 CCMC 12412-R  
 Florida FL15401

DESIGN CRITERIA:  
 NSI: 0.59  
 VSI: 0.47  
 NSI: 0.69

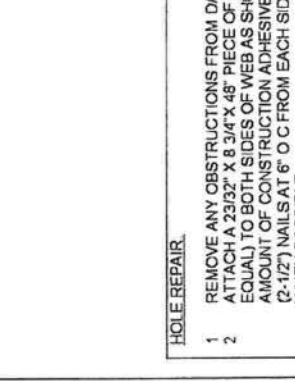
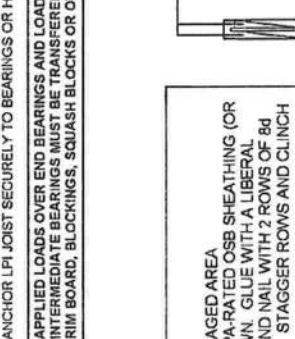
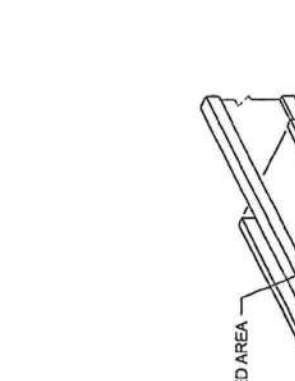
OPENINGS  
 SPAN TYPE Height Width Dist (IN) (IN) (FT)  
 1 CIRCLE 3.00 N / A 0.17  
 1 CIRCLE 3.00 N / A 0.46  
 HOLES MAY BE LOCATED ANYWHERE WITHIN THE DEPTH OF THE WEB. PROVIDE A MINIMUM 1/4" CLEARANCE BETWEEN HOLE AND FLANGE. EXCEPTION: ROUND HOLES REQUIRE NO MINIMUM CLEARANCE. DO NOT CUT FLANGE!

DEFLECTION ASSUMES COMPOSITE ACTION WITH GLOUED AND NAILLED 23/32" APA RATED SHEATHING (48/24 SPAN RATING)

DEFLECTION ASSUMES COMPOSITE ACTION WITH GLOUED AND NAILLED 23/32" APA RATED SHEATHING (48/24 SPAN RATING)

DEFLECTION ASSUMES COMPOSITE ACTION WITH GLOUED AND NAILLED 23/32" APA RATED SHEATHING (48/24 SPAN RATING)

DEFLECTION ASSUMES COMPOSITE ACTION WITH GLOUED AND NAILLED 23/32" APA RATED SHEATHING (48/24 SPAN RATING)



HOLE REPAIR  
 1 REMOVE ANY OBSTRUCTIONS FROM DAMAGED AREA  
 2 ATTACH A 23/32" X 8 3/4" X 48" PIECE OF APA-RATED OSB SHEATHING (OR EQUAL) TO BOTH SIDES OF WEB AS SHOWN. GLUE WITH A LIBERAL AMOUNT OF CONSTRUCTION ADHESIVE AND NAIL WITH 2 ROWS OF 8d (2-1/2") NAILS AT 6" O C FROM EACH SIDE. STAGGER ROWS AND CLINCH WHEN POSSIBLE  
 3 TO DRILL A NEW HOLE REFER TO INSTALLATION GUIDE FOR HOLE SIZES AND LOCATION

THIS REPAIR IS FOR THE REFERENCED PROJECT ONLY AND SHOULD NOT BE USED WITH ANY OTHER PROJECT OR DESIGN

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SUPPORT REACTIONS (LBS):  
 MAXIMUM BEARING NUMBER  
 DOWN 715  
 UPLIFT ---  
 MEN BEARING SIZES (IN-SK)  
 2-6  
 2-6

MAXIMUM DEFLECTIONS  
 CALCULATED ALLOWABLE  
 LIVE LOAD 0.14" (L/1062) 0.42"  
 DEAD LOAD 0.08"  
 TOTAL LOAD 0.20" (L/773) 0.64"

MAXIMUM DEFLECTIONS  
 CALCULATED ALLOWABLE  
 LIVE LOAD 0.14" (L/1062) 0.42"  
 DEAD LOAD 0.08"  
 TOTAL LOAD 0.20" (L/773) 0.64"

MAXIMUM DEFLECTIONS  
 CALCULATED ALLOWABLE  
 LIVE LOAD 0.14" (L/1062) 0.42"  
 DEAD LOAD 0.08"  
 TOTAL LOAD 0.20" (L/773) 0.64"

MAXIMUM DEFLECTIONS  
 CALCULATED ALLOWABLE  
 LIVE LOAD 0.14" (L/1062) 0.42"  
 DEAD LOAD 0.08"  
 TOTAL LOAD 0.20" (L/773) 0.64"

Handing & Erection  
 Temporary and permanent bracing for holding component in place until shoring is installed. No bracing to be applied to the component until after the framing and fastening are completed. At no time shall loads greater than design loads be applied to the component.

Design Criteria  
 The design and material specified are in substantial conformity with the latest revisions of NDS. Dead load deflection includes adjustment factor for creep. Total load deflection is instantaneous.

Miscellaneous Information  
 The use of this component shall be specified by the designer of the structure and in accordance with the design of the complete structure using this component. If the design criteria listed above does not meet local building code requirements, do not use this design. When this drawing is signed and sealed, the structural design is approved as shown in this drawing based on data provided by the customer. LP LVL, LP LSL and CTR, LP Joists are made without center and web deflection under load. Wood in direct contact with concrete must be protected as per local building code requirements. LP LVL, LP LSL and CTR, LP Joists are made without center and web deflection under load. Wood in direct contact with concrete must be protected as per local building code requirements. LP LVL, LP LSL and CTR, LP Joists are made without center and web deflection under load. Wood in direct contact with concrete must be protected as per local building code requirements.

Miscellaneous Information  
 The use of this component shall be specified by the designer of the structure and in accordance with the design of the complete structure using this component. If the design criteria listed above does not meet local building code requirements, do not use this design. When this drawing is signed and sealed, the structural design is approved as shown in this drawing based on data provided by the customer. LP LVL, LP LSL and CTR, LP Joists are made without center and web deflection under load. Wood in direct contact with concrete must be protected as per local building code requirements. LP LVL, LP LSL and CTR, LP Joists are made without center and web deflection under load. Wood in direct contact with concrete must be protected as per local building code requirements.

Miscellaneous Information  
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LP LVL, LP LSL and CTR, LP Joist Specifications  
 Supports and connections for LP LVL, LP LSL, CTR and LP Joist to be specific application. Supports driven parallel to grain shall be spaced a minimum of 4" for 10d and 3" for 8d.  
 \* Do not cut, notch, drill or alter LP LVL, LP LSL, and CTR, LP Joists except as shown in published material from LP. Any use of LP LVL, LSL, and CTR, LP Joists contrary to the terms set forth herein, negates any express warranty of the product and LP disclaims all implied warranties including the implied warranties of merchantability and fitness for a particular use.  
 \* A COPY OF THIS DRAWING IS TO BE GIVEN TO THE INSTALLING CONTRACTOR. LP is a registered trademark of Louisiana-Pacific Corporation.

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 Fax 600.753.4369

DWG # 64624  
 SHEET # 3 of 4

NO. 18002  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 SHAWN & SCHELL

File: Unstabilized\Users\Shawn\My Documents\14016\624\WOODS SPX

2013.4 Allowable Stress Design

- NOTE: THIS COMPONENT IS DESIGNED TO SUPPORT ONLY THE VERTICAL LOADS SHOWN AS DETERMINED BY OTHERS. THE DESIGNER HAS NOT CONSIDERED OTHER TYPES OF LOADING SUCH AS WIND, SEISMIC, LATERAL BRACING METHODS, WIND AND SEISMIC BRACING AND OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED IN THE RESPONSIBILITY OF THE PROJECT ENGINEER OR ARCHITECT. DISCLAIMER: RESPONSIBILITY FOR ALL PLANS, SPECIFICATIONS OR OTHER DOCUMENTS THAT MAY BE USED TO INCORPORATE THIS COMPONENT INTO THE BUILDING DESIGN IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. THIS COMPONENT IS SPECIFICALLY FOR L-P ENGINEERED WOOD PRODUCTS. USE OF THIS DESIGN FOR ANYTHING OTHER THAN LP LVL OR LP L-JOISTS IS STRICTLY PROHIBITED. ANY MODIFICATION OF THIS DOCUMENT REQUIRES REVIEW BY A DESIGN PROFESSIONAL.

LOAD TABLE

NOTE: LOADS SHOWN ARE FOR INPUT LOAD CASE (1) OTHER LOAD CASE FOR PATTERN LIVE LOADING ARE CHECKED AS REQUIRED (DIMENSIONS MEASURED FROM LEFT END OF SPAN OR CANTILEVER)

DISTRIBUTION	SOURCE	TYPE	TOP/SIDE	LOAD	FROM	TO
UNIFORM	FLOOR	LIVE	TOP	80 PLF	00-00-00	13-00-00
UNIFORM	FLOOR	DEAD	TOP	30 PLF	00-00-00	13-00-00

WARNING NOTES

THIS COMPONENT DESIGN IS SPECIFICALLY FOR L-P ENGINEERED WOOD PRODUCTS. USE OF THIS DESIGN FOR ANYTHING OTHER THAN LP LVL OR LP L-JOISTS IS STRICTLY PROHIBITED. ANY MODIFICATION OF THIS DOCUMENT REQUIRES REVIEW BY A DESIGN PROFESSIONAL.

MINIMUM BEARING SIZES ARE SUFFICIENT TO PREVENT CRUSHING OF THE LP L-JOIST AS DESIGNED. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER, ARCHITECT OR DESIGNER TO VERIFY THAT THE SUPPORT STRUCTURE FOR THIS JOIST IS CAPABLE OF SUPPORTING THE REACTIONS.

ANCHOR LP L-JOIST SECURELY TO BEARINGS OR HANGERS.

APPLIED LOADS OVER END BEARINGS AND LOADS EXCEEDING 250 LBS OVER INTERMEDIATE BEARINGS MUST BE TRANSFERRED DIRECTLY TO SUPPORT BY RIM BOARD, BLOCKINGS, SQUASH BLOCKS OR OTHER DEVICE.

1 LP L-20 PLUS DEPTH 11.875"  
 WEB: 0.315"  
 FLANGE 1.50 X 2.50

LOAD	IDF
LIVE	1.00
DEAD	0.90

DESIGN CRITERIA:

LIVE LOAD	=	40	PSF
DEAD LOAD	=	15	PSF
TOTAL LOAD	=	55	PSF

SPACING = 24.00 IN. C/C

DEFLECTION CRITERIA: L / 360  
 TOTAL LOAD DEFL.: L / 240

CODE COMPLIANCES:

APA  
 FR-1238  
 ICC-ES  
 ESR-1305  
 LADBS  
 RR-25099  
 CCMC  
 12412-R  
 Florida  
 FL15401

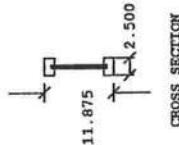
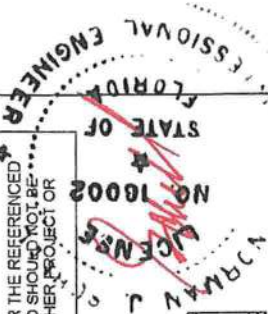
OPENINGS

SPAN TYPE Height Width Dist (IN) (IN) (FT)  
 1 CIRCLE 2.00 N / A 2.88  
 1 CIRCLES 1.50 N / A 3.02  
 HOLES MAY BE LOCATED ANYWHERE WITHIN THE DEPTH OF THE WEB. PROVIDE A MINIMUM 1/4" CLEARANCE BETWEEN HOLE AND FLANGE.  
 EXCEPTION: OROUND HOLES REQUIRE NO MINIMUM CLEARANCE. DO NOT CUT FLANGE!

DEFLECTION ASSUMES COMPOSITE ACTION WITH GUSSED AND NAILED 23/32" ADA RATED SHEATHING (48/24 SPAN RATING)

NO REPAIR REQUIRED

THIS DESIGN IS FOR THE REFERENCED PROJECT ONLY AND SHOULD NOT BE USED WITH ANY OTHER PROJECT OR DESIGN



CROSS SECTION

\*\*\* THIS DRAWING IS NOT TO SCALE \*\*\*

Miscellaneous Information

The use of this component shall be specified by the designer of the component and shall be specified by the designer of the building. The designer shall specify the design of the complete structure before using this component. If the design criteria listed above does not meet local building code requirements, do not use this design. When this drawing is signed and sealed, the structural design is approved as shown in this drawing based on data provided by the customer. LP LVL, LP LSL, and CTR, LP L-joists are made without camber and will deflect under load. Wood in direct contact with concrete must be protected as required by code. Continuous lateral support is assumed (wall, floor beams, etc.) unless otherwise provided. Connections to be specified in the design documents. Engineer's seal affixed to be considered an Engineering document.

Handling & Erection

Temporary and permanent bracing for holding component until all framing and floor joists are in place and ready to be applied to the component. No bracing shall be applied to the component until after all the framing and fastening are completed. A no time shall bracing greater than design loads be applied to the component.

Design Criteria

The design and material specified are in substantial conformity with the latest revisions of NDS. \*Dead load deflection includes adjustment factor for creep. Total load deflection is instantaneous.

LP LVL, LP LSL, and CTR, LP L-joist Specifications

\* Supports and connections for LP LVL, LP LSL, CTR and LP L-joist to be specific application. \* Supports and connections for LP LVL, LP LSL, CTR and LP L-joist shall be spaced a minimum of 4' for 10d and 3' for 8d. \* Do not cut, notch, drill or alter LP LVL, LP LSL, and CTR, LP L-joists except as shown in published material from LP. Any use of LP LVL, LSL and CTR, LP L-joists contrary to the limits set forth herein negates any express warranty of the product and LP disclaims all implied warranties including the implied warranties of merchantability and fitness for a particular use.

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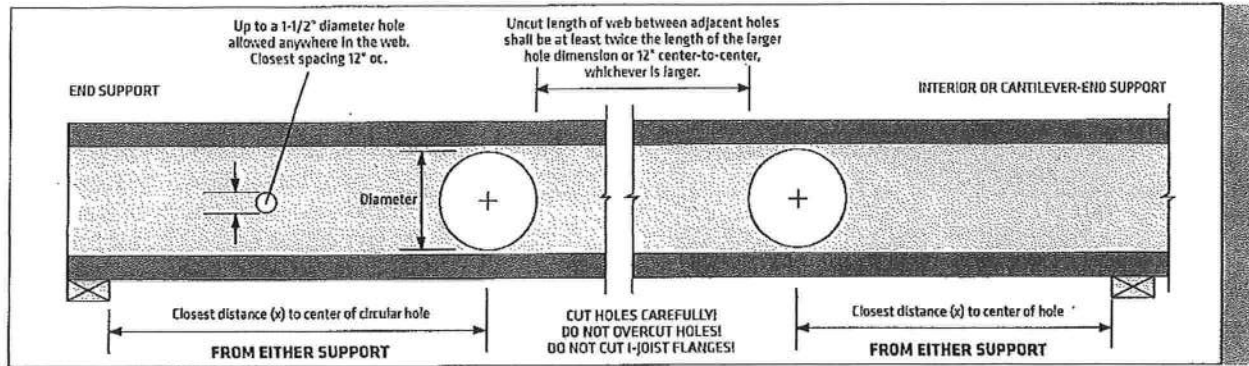
DWG # 64624

SHEET # 4 of 4

2013.4

01/17/14 IBC 2009

# Web Hole Specifications: Circular Holes



### TO USE:

1. Select the required series and depth.
2. Determine the support condition for the nearest bearing: end support or interior support (including cantilever-end supports).
3. Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
4. Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
5. The intersection of the Clear Span row and Hole Diameter column gives the minimum distance from the inside face of bearing to the center of a circular hole.
6. Double check the distance to the other support, using the appropriate support condition.

Series	Depth	Clear Span (ft)	Distance from End Support												Distance from Interior or Cantilever-End Support											
			Hole Diameter												Hole Diameter											
			2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"												
LPI 18	9-1/2"	6'	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-6"	-	-	-						
		10'	1'-0"	1'-0"	2'-1"	-	-	-	1'-0"	1'-5"	1'-5"	-	-	-	1'-0"	1'-5"	1'-5"	-	-	-						
		14'	1'-0"	2'-6"	4'-8"	-	-	-	2'-5"	4'-2"	6'-8"	-	-	-	2'-5"	4'-2"	6'-8"	-	-	-						
		18'	2'-9"	4'-7"	7'-4"	-	-	-	4'-11"	7'-8"	-	-	-	-	4'-11"	7'-8"	-	-	-	-						
	11-7/8"	10'	1'-0"	1'-0"	1'-6"	2'-1"	-	-	1'-0"	1'-0"	1'-6"	3'-6"	-	-	1'-0"	1'-0"	1'-6"	3'-6"	-	-						
		14'	1'-0"	1'-0"	2'-6"	4'-8"	-	-	1'-0"	2'-5"	4'-2"	6'-8"	-	-	1'-0"	2'-5"	4'-2"	6'-8"	-	-						
		18'	1'-0"	2'-9"	4'-7"	7'-4"	-	-	3'-1"	5'-4"	7'-8"	-	-	-	3'-1"	5'-4"	7'-8"	-	-	-						
		22'	2'-10"	5'-0"	7'-3"	10'-0"	-	-	6'-0"	8'-3"	10'-5"	-	-	-	6'-0"	8'-3"	10'-5"	-	-	-						
	14"	14'	1'-0"	1'-0"	1'-6"	2'-6"	4'-8"	-	1'-0"	1'-0"	2'-5"	4'-6"	6'-8"	-	1'-0"	1'-0"	2'-5"	4'-6"	6'-8"	-						
		18'	1'-0"	1'-0"	2'-9"	5'-0"	7'-4"	-	1'-9"	3'-6"	5'-4"	7'-8"	-	-	1'-9"	3'-6"	5'-4"	7'-8"	-	-						
		22'	1'-8"	3'-4"	5'-7"	7'-3"	10'-0"	-	4'-4"	6'-7"	8'-3"	11'-0"	-	-	4'-4"	6'-7"	8'-3"	11'-0"	-	-						
		26'	4'-0"	5'-11"	7'-11"	10'-5"	-	-	7'-1"	9'-9"	11'-8"	-	-	-	7'-1"	9'-9"	11'-8"	-	-	-						
LPI 20Plus & LPI 32Plus	9-1/2"	6'	1'-0"	1'-0"	1'-6"	-	-	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-6"	-	-	-							
		10'	1'-0"	1'-0"	1'-6"	-	-	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-6"	-	-	-							
		14'	1'-0"	1'-0"	1'-6"	-	-	1'-0"	1'-8"	3'-5"	-	-	-	1'-0"	1'-8"	3'-5"	-	-	-							
		18'	1'-0"	1'-10"	3'-8"	-	-	2'-8"	4'-5"	6'-3"	-	-	-	2'-8"	4'-5"	6'-3"	-	-	-							
	11-7/8"	10'	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-0"	-	-						
		14'	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	2'-5"	3'-10"	-	-	1'-0"	1'-0"	2'-5"	3'-10"	-	-						
		18'	1'-0"	1'-5"	2'-9"	4'-1"	-	-	2'-2"	3'-6"	5'-4"	6'-9"	-	-	2'-2"	3'-6"	5'-4"	6'-9"	-	-						
		22'	1'-8"	3'-4"	5'-0"	6'-8"	-	-	4'-11"	6'-7"	8'-3"	9'-11"	-	-	4'-11"	6'-7"	8'-3"	9'-11"	-	-						
	14"	14'	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-	1'-0"	1'-0"	1'-8"	2'-9"	4'-2"	-	1'-0"	1'-0"	1'-8"	2'-9"	4'-2"	-						
		18'	1'-0"	1'-0"	1'-10"	3'-3"	4'-7"	-	1'-9"	3'-1"	4'-5"	5'-10"	7'-2"	-	1'-9"	3'-1"	4'-5"	5'-10"	7'-2"	-						
		22'	1'-8"	2'-10"	4'-6"	5'-7"	7'-3"	-	4'-11"	6'-0"	7'-8"	8'-9"	10'-5"	-	4'-11"	6'-0"	7'-8"	8'-9"	10'-5"	-						
		26'	4'-0"	5'-3"	6'-7"	8'-6"	9'-10"	-	7'-9"	9'-1"	10'-5"	12'-4"	-	-	7'-9"	9'-1"	10'-5"	12'-4"	-	-						
16"	18'	1'-0"	1'-0"	1'-6"	2'-9"	3'-8"	5'-0"	1'-9"	2'-8"	4'-0"	4'-11"	6'-3"	7'-8"	1'-9"	2'-8"	4'-0"	4'-11"	6'-3"	7'-8"							
	22'	1'-8"	2'-10"	3'-11"	5'-0"	6'-2"	7'-10"	4'-4"	5'-5"	7'-1"	8'-3"	9'-4"	11'-0"	4'-4"	5'-5"	7'-1"	8'-3"	9'-4"	11'-0"							
	26'	4'-0"	5'-3"	5'-11"	7'-3"	9'-2"	10'-6"	7'-1"	8'-5"	9'-9"	11'-0"	13'-0"	-	7'-1"	8'-5"	9'-9"	11'-0"	13'-0"	-							
	30'	6'-1"	7'-7"	8'-4"	9'-10"	11'-4"	12'-10"	10'-6"	12'-0"	13'-6"	14'-3"	-	-	10'-6"	12'-0"	13'-6"	14'-3"	-	-							
LPI 36 & LPI 56	11-7/8"	10'	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-0"	-	-						
		14'	1'-0"	1'-0"	1'-6"	2'-6"	-	-	1'-0"	1'-0"	2'-0"	4'-2"	-	-	1'-0"	1'-0"	2'-0"	4'-2"	-	-						
		18'	1'-0"	1'-0"	2'-4"	4'-7"	-	-	1'-0"	2'-2"	4'-11"	7'-2"	-	-	1'-0"	2'-2"	4'-11"	7'-2"	-	-						
		22'	1'-0"	2'-3"	4'-6"	7'-3"	-	-	2'-8"	4'-11"	7'-8"	10'-5"	-	-	2'-8"	4'-11"	7'-8"	10'-5"	-	-						
	14"	14'	1'-0"	1'-0"	1'-6"	2'-0"	2'-10"	-	1'-0"	1'-0"	1'-6"	2'-9"	4'-10"	-	1'-0"	1'-0"	1'-6"	2'-9"	4'-10"	-						
		18'	1'-0"	1'-0"	1'-6"	3'-3"	5'-6"	-	1'-0"	1'-9"	3'-6"	5'-10"	8'-1"	-	1'-0"	1'-9"	3'-6"	5'-10"	8'-1"	-						
		22'	1'-0"	1'-8"	3'-4"	5'-7"	8'-4"	-	2'-8"	4'-4"	6'-7"	8'-9"	-	-	2'-8"	4'-4"	6'-7"	8'-9"	-	-						
		26'	2'-0"	4'-0"	5'-11"	7'-11"	10'-5"	-	5'-2"	7'-1"	9'-9"	12'-4"	-	-	5'-2"	7'-1"	9'-9"	12'-4"	-	-						
	16"	18'	1'-0"	1'-0"	1'-6"	2'-4"	4'-1"	5'-11"	1'-0"	1'-3"	3'-1"	4'-5"	6'-9"	9'-0"	1'-0"	1'-3"	3'-1"	4'-5"	6'-9"	9'-0"						
		22'	1'-0"	1'-2"	2'-10"	4'-6"	6'-8"	8'-11"	2'-1"	3'-9"	5'-5"	7'-8"	9'-11"	-	2'-1"	3'-9"	5'-5"	7'-8"	9'-11"	-						
		26'	1'-4"	3'-4"	5'-3"	7'-3"	9'-2"	11'-10"	5'-2"	6'-5"	8'-5"	11'-0"	13'-0"	-	5'-2"	6'-5"	8'-5"	11'-0"	13'-0"	-						
		30'	3'-10"	5'-4"	7'-7"	9'-10"	12'-1"	14'-4"	8'-2"	9'-9"	12'-0"	14'-3"	-	-	8'-2"	9'-9"	12'-0"	14'-3"	-	-						
LPI 42Plus & LPI 52Plus	9-1/2"	6'	1'-0"	1'-0"	1'-6"	-	-	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-6"	-	-	-							
		10'	1'-0"	1'-0"	1'-6"	-	-	1'-0"	1'-0"	1'-6"	-	-	-	1'-0"	1'-0"	1'-6"	-	-	-							
		14'	1'-0"	1'-0"	1'-6"	-	-	1'-0"	1'-8"	3'-5"	-	-	-	1'-0"	1'-8"	3'-5"	-	-	-							
		18'	1'-0"	1'-10"	3'-8"	-	-	2'-8"	4'-5"	6'-3"	-	-	-	2'-8"	4'-5"	6'-3"	-	-	-							
	11-7/8"	10'	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	1'-6"	2'-0"	-	-						
		14'	1'-0"	1'-0"	1'-6"	2'-0"	-	-	1'-0"	1'-0"	2'-5"	3'-10"	-	-	1'-0"	1'-0"	2'-5"	3'-10"	-	-						
		18'	1'-0"	1'-5"	2'-9"	4'-1"	-	-	2'-2"	3'-6"	5'-4"	6'-9"	-	-	2'-2"	3'-6"	5'-4"	6'-9"	-	-						
		22'	1'-8"	3'-4"	5'-0"	6'-8"	-	-	4'-11"	6'-7"	8'-3"	9'-11"	-	-	4'-11"	6'-7"	8'-3"	9'-11"	-	-						
	14"	14'	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-	1'-0"	1'-0"	1'-8"	2'-9"	4'-2"	-	1'-0"	1'-0"	1'-8"	2'-9"	4'-2"	-						
		18'	1'-0"	1'-0"	1'-10"	3'-3"	4'-7"	-	1'-9"	3'-1"	4'-5"	5'-10"	7'-2"	-	1'-9"	3'-1"	4'-5"	5'-10"	7'-2"	-						
		22'	1'-8"	2'-10"	4'-6"	5'-7"	7'-3"	-	4'-11"	6'-0"	7'-8"	8'-9"	10'-5"	-	4'-11"	6'-0"	7'-8"	8'-9"	10'-5"	-						
		26'	4'-0"	5'-3"	6'-7"	8'-6"	9'-10"	-	7'-9"	9'-1"	10'-5"	12'-4"	-	-	7'-9"	9'-1"	10'-5"	12'-4"	-	-						
16"	18'	1'-0"	1'-0"	1'-6"	2'-9"	3'-8"	5'-0"	1'-9"	2'-8"	4'-0"	4'-11"	6'-3"	7'-8"	1'-9"	2'-8"	4'-0"	4'-11"	6'-3"	7'-8"							
	22'	1'-8"	2'-10"	3'-11"	5'-0"	6'-2"	7'-10"	4'-4"	5'-5"	7'-1"	8'-3"	9'-4"	11'-0"	4'-4"	5'-5"	7'-1"	8'-3"	9'-4"	11'-0"							
	26'	4'-0"	5'-3"	5'-11"	7'-3"	9'-2"	10'-6"	7'-1"	8'-5"	9'-9"	11'-0"	13'-0"	-	7'-1"	8'-5"	9'-9"	11'-0"	13'-0"	-							
	30'	6'-1"	7'-7"	8'-4"	9'-10"	11'-4"	12'-10"	10'-6"	12'-0"	13'-6"	14'-3"	-	-	10'-6"	12'-0"	13'-6"	14'-3"	-	-							

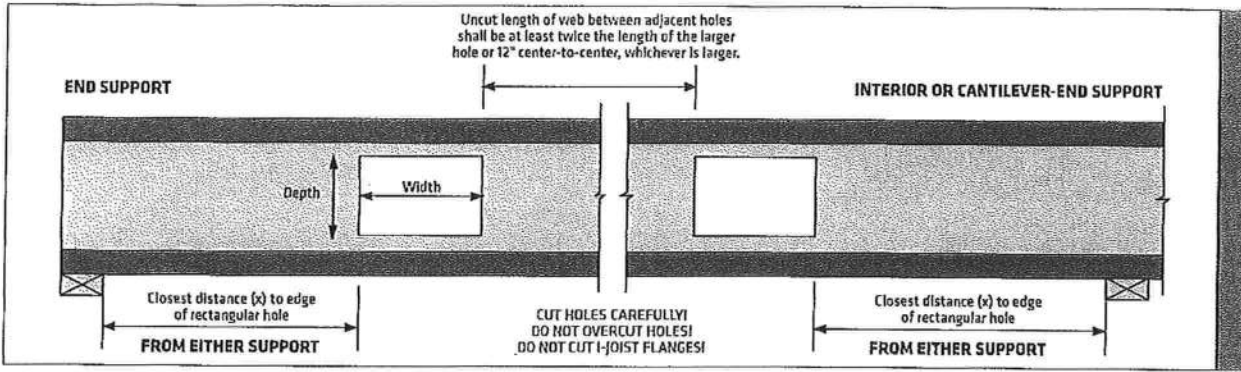
### DESIGN ASSUMPTIONS:

1. The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 plf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" oc).
2. Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
3. Clear Span has not been verified for these joists and is shown for informational purposes only. Verify that the joist selected will work for the span and loading conditions needed before checking hole location.
4. The maximum hole depth for circular holes is the I-joist Depth less 4", except the maximum hole depth is 6" for 9-1/2" LPI joists, and 8" for 11-7/8" LPI joists.
5. Holes cannot be located in the span where designated "x", without further analysis by a design professional.

### NOTES:

1. Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
2. Round holes up to 1-1/2" diameter may be placed anywhere in the web.
3. Perforated "knockouts" may be neglected when locating web holes.
4. Holes larger than 1-1/2" are not permitted in cantilevers without special engineering.
5. Multiple holes shall have a clear separation along the length of the joist of at least twice the length of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
6. Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encompass the holes.
7. For conditions not covered in this table, use LP's design software or contact your local LP's SolidStar® Engineered Wood Products distributor for more information.

# Web Hole Specifications: Rectangular Holes



### TO USE:

1. Select the required series and depth.
2. Determine the support condition for the nearest bearing: end support or interior support (including cantilever-end supports).
3. Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
4. Select the column corresponding to the required hole dimension. For dimensions between those listed, use the next largest value.
5. The intersection of the Clear Span row and Hole Dimension column gives the minimum distance from the inside face of bearing to the nearest edge of a square or rectangular hole.
6. Double check the distance to the other support, using the appropriate support condition.

Series	Depth	Clear Span (ft)	Distance from End Support						Distance from Interior or Cantilever-End Support					
			Maximum Hole Dimension: Depth or Width						Maximum Hole Dimension: Depth or Width					
			2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
LPI 18	9-1/2"	6'	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-
		10'	1'-0"	1'-7"	2'-10"	3'-4"	3'-10"	4'-4"	1'-5"	2'-8"	4'-6"	-	-	-
		14'	2'-6"	3'-11"	5'-8"	6'-1"	-	-	4'-2"	5'-11"	-	-	-	-
	11-7/8"	10'	1'-0"	1'-1"	2'-4"	3'-7"	4'-1"	-	1'-2"	2'-5"	3'-9"	-	-	-
		14'	2'-2"	3'-3"	4'-8"	6'-5"	-	-	4'-2"	5'-7"	-	-	-	-
		18'	4'-7"	5'-11"	7'-4"	-	-	-	7'-2"	8'-7"	-	-	-	-
	14"	14'	1'-0"	1'-0"	1'-6"	3'-3"	5'-4"	6'-1"	1'-0"	1'-8"	3'-5"	5'-3"	-	-
		18'	1'-0"	1'-10"	3'-8"	5'-11"	8'-2"	-	2'-8"	4'-5"	6'-3"	8'-7"	-	-
		22'	2'-10"	4'-6"	6'-2"	8'-4"	-	-	5'-5"	7'-8"	9'-4"	-	-	-
	LPI 20Plus 6 LPI 32Plus	9-1/2"	6'	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"
			10'	1'-0"	1'-1"	2'-7"	3'-1"	3'-7"	4'-1"	1'-0"	2'-5"	4'-0"	4'-6"	-
			14'	1'-10"	3'-3"	5'-4"	5'-8"	6'-5"	-	3'-10"	5'-3"	-	-	-
11-7/8"		10'	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	
		14'	1'-5"	2'-10"	4'-3"	6'-1"	-	-	3'-5"	4'-10"	6'-4"	-	-	
		18'	3'-8"	5'-6"	6'-10"	8'-8"	-	-	6'-3"	8'-1"	-	-	-	
14"		14'	1'-0"	1'-0"	1'-6"	2'-10"	5'-0"	5'-8"	1'-0"	1'-0"	2'-9"	4'-10"	-	-
		18'	1'-0"	1'-5"	3'-3"	5'-6"	7'-9"	-	1'-9"	3'-6"	5'-10"	8'-1"	-	-
		22'	1'-8"	3'-4"	5'-7"	7'-10"	10'-7"	-	4'-4"	6'-7"	8'-9"	-	-	
16"		18'	1'-0"	1'-0"	2'-9"	4'-7"	6'-10"	-	1'-9"	3'-6"	4'-11"	7'-2"	-	-
		22'	1'-8"	3'-4"	5'-0"	7'-3"	9'-5"	-	4'-4"	6'-0"	8'-3"	10'-5"	-	-
		26'	4'-0"	5'-3"	7'-3"	9'-10"	12'-6"	-	7'-1"	9'-1"	11'-0"	-	-	
LPI 36 6 LPI 56	11-7/8"	10'	1'-0"	1'-0"	1'-10"	3'-4"	3'-10"	4'-4"	1'-0"	1'-11"	3'-3"	-	-	
		14'	1'-5"	2'-10"	4'-3"	6'-1"	-	-	3'-5"	4'-10"	6'-4"	-	-	
		18'	3'-8"	5'-6"	6'-10"	8'-8"	-	-	6'-3"	8'-1"	-	-	-	
	14"	14'	1'-0"	1'-0"	1'-6"	2'-10"	5'-0"	5'-8"	1'-0"	1'-0"	2'-9"	4'-10"	-	-
		18'	1'-0"	1'-5"	3'-3"	5'-6"	7'-9"	-	1'-9"	3'-6"	5'-10"	8'-1"	-	-
		22'	1'-8"	3'-4"	5'-7"	7'-10"	10'-7"	-	4'-4"	6'-7"	8'-9"	-	-	
	16"	18'	1'-0"	1'-0"	2'-9"	4'-7"	6'-10"	-	1'-9"	3'-6"	4'-11"	7'-2"	-	-
		22'	1'-8"	3'-4"	5'-0"	7'-3"	9'-5"	-	4'-4"	6'-0"	8'-3"	10'-5"	-	-
		26'	4'-0"	5'-3"	7'-3"	9'-10"	12'-6"	-	7'-1"	9'-1"	11'-0"	-	-	
	LPI 42Plus 6 LPI 52Plus	9-1/2"	6'	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	-	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"
			10'	1'-0"	1'-1"	2'-7"	3'-1"	3'-7"	4'-1"	1'-0"	2'-5"	4'-0"	4'-6"	-
			14'	1'-10"	3'-3"	5'-4"	5'-8"	6'-5"	-	3'-10"	5'-3"	-	-	-
11-7/8"		10'	1'-0"	1'-0"	1'-10"	3'-4"	3'-10"	4'-4"	1'-0"	1'-11"	3'-3"	-	-	
		14'	1'-5"	2'-10"	4'-3"	6'-1"	-	-	3'-5"	4'-10"	6'-4"	-	-	
		18'	3'-8"	5'-6"	6'-10"	8'-8"	-	-	6'-3"	8'-1"	-	-	-	
14"		14'	1'-0"	1'-0"	1'-6"	2'-10"	5'-0"	5'-8"	1'-0"	1'-0"	2'-9"	4'-10"	-	-
		18'	1'-0"	1'-5"	3'-3"	5'-6"	7'-9"	-	1'-9"	3'-6"	5'-10"	8'-1"	-	-
		22'	1'-8"	3'-4"	5'-7"	7'-10"	10'-7"	-	4'-4"	6'-7"	8'-9"	-	-	
16"		18'	1'-0"	1'-0"	2'-9"	4'-7"	6'-10"	-	1'-9"	3'-6"	4'-11"	7'-2"	-	-
		22'	1'-8"	3'-4"	5'-0"	7'-3"	9'-5"	-	4'-4"	6'-0"	8'-3"	10'-5"	-	-
		26'	4'-0"	5'-3"	7'-3"	9'-10"	12'-6"	-	7'-1"	9'-1"	11'-0"	-	-	

### DESIGN ASSUMPTIONS:

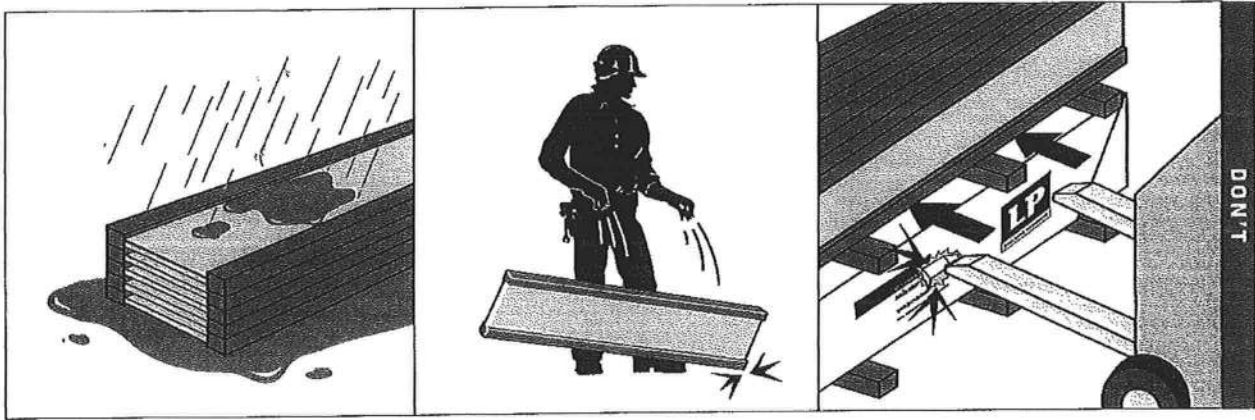
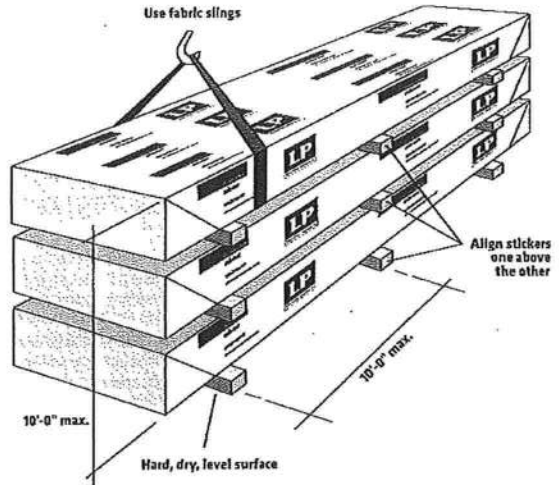
1. The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 plf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" oc).
2. Hole location is measured from the inside face of bearing to the nearest edge of a rectangular hole, from the closest support.
3. Clear Span has not been verified for these joists and is shown for informational purposes only. Verify that the joist selected will work for the span and loading conditions needed before checking hole location.
4. The maximum hole depth for rectangular holes is the I-joist Depth less 4", except the maximum hole depth is 6" for 9-1/2" LPI joists, and 8" for 11-7/8" LPI joists. Where the Maximum Hole Dimension exceeds the hole depth, the dimension refers to hole width and the depth of the hole is assumed to be the maximum for that joist depth. The maximum hole width is 18", regardless of I-joist Depth.
5. Holes cannot be located in the span where designated "I", without further analysis by a design professional.

### NOTES:

1. Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
2. Round holes up to 1-1/2" diameter may be placed anywhere in the web.
3. Perforated "knockouts" may be neglected when locating web holes.
4. Holes larger than 1-1/2" are not permitted in cantilevers without special engineering.
5. Multiple holes shall have a clear separation along the length of the joist of at least twice the length of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
6. Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encompass the holes.
7. For conditions not covered in this table, use LP's design software or contact your local LP® SolidStart® Engineered Wood Products distributor for more information.

# Handling and Storage Guidelines and Warnings

- Warning: Failure to follow good procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.
- Keep LP® SolidStart® Engineered Wood Products dry.
- Unload products carefully, by lifting. Support the bundles to reduce excessive bowing. Individual products shall be handled in a manner which prevents physical damage during measuring, cutting, erection, etc. I-Joists shall be handled vertically and not flatwise.
- Keep products stored in wrapped and strapped bundles, stacked no more than 10' high. Support and separate bundles with 2x4 (or larger) stickers spaced no more than 10' apart. Keep stickers in line vertically.
- Product shall not be stored in contact with the ground, or have prolonged exposure to the weather.
- Use forklifts and cranes carefully to avoid damaging products.
- Do not use a visually damaged product. Call your local LP SolidStart Engineered Wood Products distributor for assistance when damaged products are encountered.
- For satisfactory performance, LP SolidStart Engineered Wood Products shall be used under dry, covered and well-ventilated interior conditions in which the equivalent moisture content in lumber will not exceed 16%.



## WARNINGS

The following conditions are **NOT** permitted!  
Do not use visually damaged products without first checking with your local LP SolidStart Engineered Wood Products distributor or sales office.

<p><b>DON'T</b> put holes too close to supports.</p> <p>Refer to hole chart for correct location.</p>	<p><b>DON'T</b> overcut hole and damage flange.</p>	<p><b>DON'T</b> make hole with hammer unless knock-out is provided.</p> <p><b>DON'T</b> hammer on flange and damage joist.</p>	<p><b>DON'T</b> cut or notch flange.</p> <p><b>DON'T</b> drill flange.</p>
<p><b>DON'T</b> cut flange for pipes.</p>	<p><b>DON'T</b> use 16d nails.</p> <p>Refer to Joist End Nailing detail for correct sizes and locations.</p>	<p><b>DON'T</b> cut beyond inside edge of bearing.</p>	<p><b>DON'T</b> support I-joist on web.</p>



# Load Short Form

## Entire House

DL Williams Heating & Cooling LLC License  
CAC1816913

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

### Project Information

For: Peter Margo

### Design Information

	Htg	Clg		Infiltration
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Tight
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	8	47		

#### HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

#### COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
ah1	841	12293	11651	505	505
AH2	690	5926	8385	357	357
Entire House	1531	18219	20036	862	880
Other equip loads		0	0		
Equip. @ 0.97 RSM			19435		
Latent cooling			3422		
<b>TOTALS</b>	<b>1531</b>	<b>18219</b>	<b>22857</b>	<b>862</b>	<b>880</b>



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# Load Short Form

ah1

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CAC1816913

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

## Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Tight
Inside db (°F)	68	75	Construction quality	0
Design TD (°F)	35	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	8	47		

### HEATING EQUIPMENT

Make	Generic
Trade	
Model	SEER 13.0, HSPF 7.7
AHRI ref	
Efficiency	7.7 HSPF
Heating input	
Heating output	15068 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	505 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

### COOLING EQUIPMENT

Make	Generic
Trade	
Cond	SEER 13.0, HSPF 7.7
Coil	
AHRI ref	
Efficiency	11.6 EER, 13 SEER
Sensible cooling	10601 Btuh
Latent cooling	4543 Btuh
Total cooling	15144 Btuh
Actual air flow	505 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.85

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
br	132	2415	2127	99	92
kitchen	110	959	2761	39	120
lr/dr	469	6832	5132	281	222
bath	121	2087	1631	86	71
pan	9	0	0	0	0
ah1	841	12293	11651	505	505
Other equip loads		0	0		
Equip. @ 0.97 RSM			11302		
Latent cooling			2121		
<b>TOTALS</b>	<b>841</b>	<b>12293</b>	<b>13423</b>	<b>505</b>	<b>505</b>

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# Load Short Form

**AH2**

**DL Williams Heating & Cooling LLC License  
CAC1816913**

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

## Design Information

	<b>Htg</b>	<b>Clg</b>		<b>Infiltration</b>	
Outside db (°F)	33	92	Method		Simplified
Inside db (°F)	68	75	Construction quality		Tight
Design TD (°F)	35	17	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	8	47			

---

### HEATING EQUIPMENT

Make  
Trade  
Model  
AHRI ref

Efficiency                    80 AFUE

Heating input                0 MBtuh

Heating output              0 Btuh

Temperature rise            0 °F

Actual air flow              357 cfm

Air flow factor              0.060 cfm/Btuh

Static pressure              0 in H2O

Space thermostat

### COOLING EQUIPMENT

Make  
Trade  
Cond  
Coil  
AHRI ref

Efficiency                    0 SEER

Sensible cooling              0 Btuh

Latent cooling                0 Btuh

Total cooling                0 Btuh

Actual air flow              357 cfm

Air flow factor              0.043 cfm/Btuh

Static pressure              0 in H2O

Load sensible heat ratio    0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
top	690	5926	8800	357	375
AH2	690	5926	8385	357	357
Other equip loads		0	0		
Equip. @ 0.97 RSM			8133		
Latent cooling			1301		
<b>TOTALS</b>	690	5926	9434	357	357

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**TRANE**

# Load Short Form

top

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Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

## Design Information

	Htg	Clg		Infiltration
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Tight
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	8	47		

### HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

### COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bonus	640	5534	7912	334	337
toilet	20	157	99	9	4
utility	30	235	789	14	34
top	690	5926	8800	357	375
Other equip loads		0	0		
Equip. @ 0.97 RSM			8536		
Latent cooling			1301		
<b>TOTALS</b>	<b>690</b>	<b>5926</b>	<b>9837</b>	<b>357</b>	<b>375</b>

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**wrightsoft**

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# Project Summary

## Entire House

### DL Williams Heating & Cooling LLC License

### CAC1816913

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

Notes:

## Design Information

Weather: Gainesville Regional AP, FL, US

### Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

### Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

### Heating Summary

Structure	14789 Btuh
Ducts	3430 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	18219 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	15693 Btuh
Ducts	4343 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	19435 Btuh

### Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

### Latent Cooling Equipment Load Sizing

Structure	2516 Btuh
Ducts	906 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	3422 Btuh
Equipment total load	22857 Btuh
Req. total capacity at 0.70 SHR	2.3 ton

	Heating	Cooling
Area (ft <sup>2</sup> )	1531	1531
Volume (ft <sup>3</sup> )	14902	14902
Air changes/hour	0.18	0.09
Equiv. AVF (cfm)	45	22

### Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

### Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

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Page 1



# Project Summary

ah1

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CAC1816913

Job: 1

Date: Aug 29, 2013

By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

Notes:

## Design Information

Weather: Gainesville Regional AP, FL, US

### Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

### Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

### Heating Summary

Structure	10299 Btuh
Ducts	1994 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	12293 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	9141 Btuh
Ducts	2511 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	11302 Btuh

### Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

### Latent Cooling Equipment Load Sizing

Structure	1595 Btuh
Ducts	526 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	2121 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	841	841
Volume (ft <sup>3</sup> )	8632	8632
Air changes/hour	0.17	0.09
Equiv. AVF (cfm)	25	12

Equipment total load	13423 Btuh
Req. total capacity at 0.70 SHR	1.3 ton

### Heating Equipment Summary

Make	Generic
Trade	
Model	SEER 13.0, HSPF 7.7
AHRI ref	
Efficiency	7.7 HSPF
Heating input	
Heating output	15068 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	505 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

### Cooling Equipment Summary

Make	Generic
Trade	
Cond	SEER 13.0, HSPF 7.7
Coil	
AHRI ref	
Efficiency	11.6 EER, 13 SEER
Sensible cooling	10601 Btuh
Latent cooling	4543 Btuh
Total cooling	15144 Btuh
Actual air flow	505 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.85

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2012 12.1.05 RSU02245

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# Project Summary

## AH2

### DL Williams Heating & Cooling LLC License

### CAC1816913

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

Notes:

## Design Information

Weather: Gainesville Regional AP, FL, US

### Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

### Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

### Heating Summary

Structure	4491 Btuh
Ducts	1435 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	5926 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	6552 Btuh
Ducts	1833 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	8133 Btuh

### Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft <sup>2</sup> )	690	690
Volume (ft <sup>3</sup> )	6270	6270
Air changes/hour	0.19	0.10
Equiv. AVF (cfm)	20	10

### Latent Cooling Equipment Load Sizing

Structure	921 Btuh
Ducts	380 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	1301 Btuh
Equipment total load	9434 Btuh
Req. total capacity at 0.70 SHR	1.0 ton

### Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	80 AFUE
Heating input	0 MBtuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	357 cfm
Air flow factor	0.060 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

### Cooling Equipment Summary

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	357 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.87

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



wrightsoft

Right-Suite® Universal 2012 12.1.05 RSU02245

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# Project Summary

top

DL Williams Heating & Cooling LLC License

CAC1816913

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

Notes:

## Design Information

Weather: Gainesville Regional AP, FL, US

### Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

### Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

### Heating Summary

Structure	4491 Btuh
Ducts	1435 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	5926 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	6877 Btuh
Ducts	1924 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	8536 Btuh

### Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

### Latent Cooling Equipment Load Sizing

Structure	921 Btuh
Ducts	380 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	1301 Btuh
Equipment total load	9837 Btuh
Req. total capacity at 0.70 SHR	1.0 ton

	Heating	Cooling
Area (ft <sup>2</sup> )	690	690
Volume (ft <sup>3</sup> )	6270	6270
Air changes/hour	0.19	0.10
Equiv. AVF (cfm)	20	10

### Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

### Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2012 12.1.05 RSU02245

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# Duct System Summary

ah1

DL Williams Heating & Cooling LLC License  
CAC1816913

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.50 in H2O	0.50 in H2O
Supply / return available pressure	0.25 / 0.25 in H2O	0.25 / 0.25 in H2O
Lowest friction rate	0 in/100ft	0 in/100ft
Actual air flow	505 cfm	505 cfm
Total effective length (TEL)	0 ft	

## Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
bath	h 1631	86	71	0	0	0x0	ShMt	0	0	
br	h 2127	99	92	0	0	0x0	ShMt	0	0	
kitchen	c 2761	39	120	0	0	0x0	ShMt	0	0	
lr/dr-A	h 5132	281	222	0	0	0x0	ShMt	0	0	
pan	c 0	0	0	0	0	0x0	ShMt	0	0	

## Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb5	0x0	505	505	0	0	0	0	0x 0		ShMt	





# Duct System Summary

**AH2**

**DL Williams Heating & Cooling LLC License  
CAC1816913**

Job: 1  
Date: Aug 29, 2013  
By:

456 SE Ermine St, Lake City, FL 32025 Phone: 386-754-1987 Fax: 386-243-8480 Email: Dwilliams@williamscooling.com Web: dlwilliamsheatingandcooling.com

## Project Information

For: Peter Margo

	<b>Heating</b>	<b>Cooling</b>
External static pressure	0 in H2O	0 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0 in H2O	0 in H2O
Supply / return available pressure	0.00 / 0.00 in H2O	0.00 / 0.00 in H2O
Lowest friction rate	0 in/100ft	0 in/100ft
Actual air flow	357 cfm	357 cfm
Total effective length (TEL)	0 ft	

## Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg. Eqv Ln (ft)	Trunk
bonus	c 7912	334	337	0	0	0x0	ShMt	0	0	
toilet	h 99	9	4	0	0	0x0	ShMt	0	0	
utility	c 789	14	34	0	0	0x0	ShMt	0	0	

## Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb3	0x0	357	375	0	0	0	0	0x 0		ShMt	



**COLUMBIA COUNTY BUILDING DEPARTMENT  
RESIDENTIAL CHECK LIST**

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2010 EFFECTIVE 15 MARCH 2012 AND THE NATIONAL ELECTRICAL 2008 EFFECTIVE 1 OCTOBER 2009

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2010 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 15 MARCH 2012. NATIONAL ELECTRICAL CODE 2008 EFFECTIVE 1 OCTOBER 2009. ALL PLANS OR DRAWINGS SHALL PROVIDE 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 SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES**

**GENERAL REQUIREMENTS:  
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**

Items to Include-  
Each Box shall be  
Circled as  
Applicable

		Yes	No	N/A
1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.)			
	Total (Sq. Ft.) under roof			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

**Site Plan information including:** *See Survey*

4	Dimensions of lot or parcel of land	<input checked="" type="checkbox"/>		
5	Dimensions of all building set backs	<input checked="" type="checkbox"/>		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	<input checked="" type="checkbox"/>		
7	Provide a full legal description of property.	<input checked="" type="checkbox"/>		

**Wind-load Engineering Summary, calculations and any details are required.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIII	IIII	IIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m <sup>2</sup> ), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	✓		

**Elevations Drawing including:**

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys			✓
18	Location and size of skylights with Florida Product Approval			✓
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

**Floor Plan including:**

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade	✓		
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	✓		
25	Safety glazing of glass where needed			✓
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)			✓
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	✓		
28	Identify accessibility of bathroom (see FBCR SECTION 320)	✓		

**All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plan (see Florida product approval form)**

<b>GENERAL REQUIREMENTS:</b> <b>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b>	Items to Include- Each Box shall be Circled as Applicable
---	--

**FBCR 403: Foundation Plans**

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.			
30	All posts and/or column footing including size and reinforcing			
31	Any special support required by soil analysis such as piling.			
32	Assumed load-bearing value of soil _____ Pound Per Square Foot			
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) <b>For</b> structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3			

**FBCR 506: CONCRETE SLAB ON GRADE**

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)			
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports			

**FBCR 318: PROTECTION AGAINST TERMITES**

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. <b>Protection shall be provided by registered termiticides</b>			
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**FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)**

37	Show all materials making up walls, wall height, and Block size, mortar type	✓		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	✓		

**Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect**

**Floor Framing System: First and/or second story**

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	✓		
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers			
42	Attachment of joist to girder			
43	Wind load requirements where applicable			
44	Show required under-floor crawl space			✓
45	Show required amount of ventilation opening for under-floor spaces			✓
46	Show required covering of ventilation opening			✓
47	Show the required access opening to access to under-floor spaces			✓
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & interior of the areas structural panel sheathing	✓		

49	Show Draftstopping, Fire caulking and Fire blocking			
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6			
51	Provide live and dead load rating of floor framing systems (psf).			

**FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION**

<b>GENERAL REQUIREMENTS:</b> APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
--	--	--	--	--

		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls			
53	Fastener schedule for structural members per table IRC 602.3 are to be shown			
54	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing			
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems			
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)			
57	Indicate where pressure treated wood will be placed			
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas			
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			

**FBCR :ROOF SYSTEMS:**

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses			
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer			
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters			
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details			
64	Provide dead load rating of trusses			

**FBCR 802:Conventional Roof Framing Layout**

65	Rafter and ridge beams sizes, span, species and spacing			
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			
67	Valley framing and support details			
68	Provide dead load rating of rafter system			

**FBCR 803 ROOF SHEATHING**

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness			
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas			

**ROOF ASSEMBLIES FRC Chapter 9**

71	Include all materials which will make up the roof assembles covering			
72	Submit Florida Product Approval numbers for each component of the roof assembles covering			

**FBCR Chapter 11 Energy Efficiency Code for residential building**

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure			
74	Attic space			
75	Exterior wall cavity			
76	Crawl space			

**HVAC information**

77	Submit two copies of a Manual J sizing equipment or equivalent computation study			
78	Exhaust fans shown in bathrooms <b>Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required</b>			
79	Show clothes dryer route and total run of exhaust duct			

**Plumbing Fixture layout shown**

80	All fixtures waste water lines shall be shown on the foundation plan			
81	Show the location of water heater			

**Private Potable Water**

82	Pump motor horse power			
83	Reservoir pressure tank gallon capacity			
84	Rating of cycle stop valve if used			

**Electrical layout shown including**

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	✓		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by <b>Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A</b>	✓		
87	Show the location of smoke detectors & Carbon monoxide detectors	✓		
88	Show service panel, sub-panel, location(s) and total ampere ratings	✓		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.  <b>For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3</b>	✓		

90	Appliances and HVAC equipment and disconnects			
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed <b>Combination arc-fault circuit interrupter</b> , Protection device.			

**Disclosure Statement for Owner Builders** *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

**Notice Of Commencement**

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

<b>GENERAL REQUIREMENTS:</b> APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
--	--

**THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS**

		YES	NO	N/A
92	<b>Building Permit Application</b> A current On-Line Building Permit Application <a href="http://www.ccpermit.com">www.ccpermit.com</a> is to be completed, by following the Checklist all supporting documents must be submitted. There is a <b>\$15.00</b> application fee.	✓		
93	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also requested. <a href="http://www.columbiacountyfla.com">www.columbiacountyfla.com</a>	✓		
94	<b>Environmental Health Permit or Sewer Tap Approval</b> A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	<b>City of Lake City</b> A permit showing an approved waste water sewer tap 386-752-2031			✓
96	<b>Toilet facilities shall be provided for all construction sites</b>			
97	<b>Town of Fort White</b> (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			✓
98	<b>Flood Information:</b> All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a 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 8.5.2 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 8.5.3 of the Columbia County Land Development Regulations	✓		
99	<b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.			
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is <b>\$50.00</b>			
101	<b>Driveway Connection:</b> If the property does not have an existing access to a public road, then an application for a culvert permit ( <b>\$25.00</b> ) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ( <b>\$50.00</b> ) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.			✓
102	<b>911 Address:</b> An application for a 911 address must be applied for and <b>received</b> through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125 Ext. 3			

**Section R101.2.1 of the Florida Building Code Residential:**

**The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.**

**Section 105 of the Florida Building Code defines the:**

**Time limitation of application.**

**An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.**

**Single-family residential dwelling.**

**Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.**

**Permit intent.**

**Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.**

**If work has commenced.**

**Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.**

**New Permit.**

**Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.**

**Work Shall Be:**

**Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.**

**The Fee:**

**Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.**

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

# PRODUCT APPROVAL SPECIFICATION SHEET

App 1307-31  
Revised

As required by Florida Statute 558.842 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.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	RELIABILITY BY JELD-KOEN	DOUBLE PATIO TRENCH DOORS	FL 16729
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER	RELIABILITY BY MAGNITE	EX. FIBERGLASS DOOR	FL 8228.1
<b>2. WINDOWS</b>			
A. SINGLE HUNG			
B. HORIZONTAL SLIDER	PELLA THERMASTAR	HORIZONTAL SLIDING WINDOWS	FL 11161-R3
C. CASEMENT			
D. DOUBLE HUNG			
E. FIXED	PELLA THERMASTAR	FIXED TRANSOMS AND SIDE LIGHTS	FL 11149-R3
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	HARVEE SIDING	9 1/2" HARVEE SIDING	FL 10497-R2
B. SOFFITS	HARVEE PANEL	SOFFIT MATERIAL	FL 10497-R2
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES			
B. UNDERLAYMENTS			
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL ROOFING	UNION CORRUGATED	5V METAL ROOFING	FL 9443-R2
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT UP ROOFING ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF SYSTEMS			
L. ROOFING SLATE			
M. CEMENTS-ADHESIVES COATINGS			

✓  
Joc  
8-13-13

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
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N. LIQUID APPLIED ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
<b>5. SHUTTERS</b>			
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
<b>6. SKYLIGHTS</b>			
A. SKYLIGHT			
B. OTHER			
<b>7. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS/ ANCHORS	USP (MITEK)	STRUCTURAL COMPONENTS	FL 9987-R3
B. TRUSS PLATES			
C. ENGINEERED LUMBER	CA PACIFIC	OSB	FL 2524-R4
D. RAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF	CA PACIFIC	PLYWOOD SHEATHING	FL 2524-R4
K. WALL			
L. SHEDS			
M. OTHER			
<del>B. NEW EXTERIOR ENVELOPE PRODUCTS</del>	SUB FLOORING ADVANTAGE	T&E 3/4" PLY WOOD	FL 1644-R3
A.			
B.			

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


8-12-13  
 APPLICANT SIGNATURE DATE

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 0 278  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID:1UYK215-Z0207081018



Truss Fabricator: **W.B. Howland**  
Job Identification: **8287-/BILL HARPER-MARGO RES. /Contractor -- , FL**  
Truss Count: **7**  
Model Code: **Florida Building Code 2010**  
Truss Criteria: **FBC2010Res/TPI-2007(STD)**  
Engineering Software: **Alpine Software, Version 12.03.**  
Structural Engineer of Record: **The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC**  
Address: **Roof - 40.0 PSF @ 1.25 Duration**  
Minimum Design Loads: **Floor - N/A**  
**Wind - 130 MPH ASCE 7-10 -Closed**

Notes:

- Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1**
- The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.**
- As shown on attached drawings; the drawing number is preceded by: HCUSR215**

William H. Krick  
-Truss Design Engineer-

1950 Marley Drive  
Haines City, FL 33844

Details: 14030EC1-GBLLETIN-BRCLBSUB-PB16010-

#	Ref	Description	Drawing#	Date
1	55903--A1		13219001	08/07/13
2	55904--A2		13219002	08/07/13
3	55905--A3		13219003	08/07/13
4	55906--A4		13219004	08/07/13
5	55907--A6		13219005	08/07/13
6	55908--PB1		13219006	08/07/13
7	55909--PB2		13219007	08/07/13



(8287 - /BILL HARPER-MARGO RES. /Contractor -- , FL - A1)

Top chord 2x4 SP M-31 :T2 2x6 SP M-31:  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

End verticals not exposed to wind pressure.

Calculated horizontal deflection is 0.22" due to live load and 0.53" due to dead load.

See DWGS A14030ENC100212 & GBLLET100212 for more requirements.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 11-8-8.

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

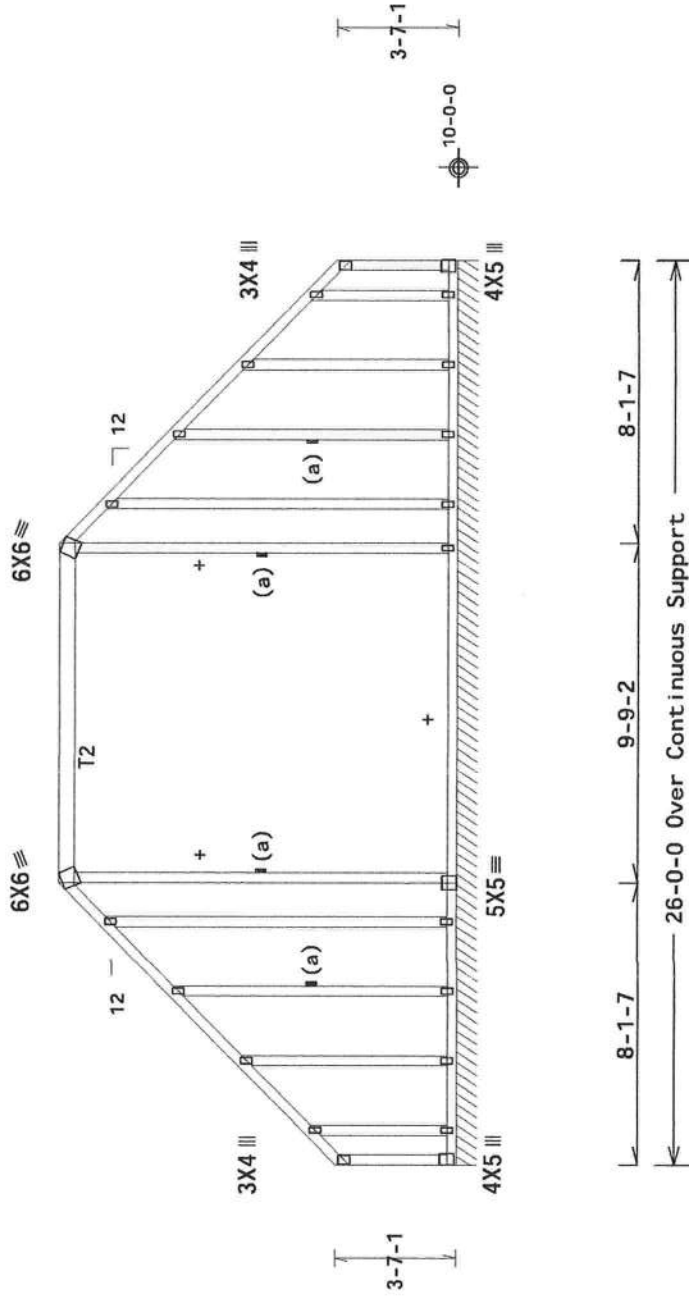
130 mph wind, 17.65 ft mean hgt, ASCE 7-10, CLOSED bldg. Located anywhere in roof, RISK CAT II. EXP B. wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=80 PLF U=5 PLF W=26-0-0  
RL=8/-8 PLF

Note: All Plates Are 2X4 Except As Shown.  
Design Crit: FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .1875" / Ft.	REF R215--	55903
TC LL	20.0 PSF	
IC DL	10.0 PSF	DATE 08/07/13
BC DL	10.0 PSF	DRW HCUSR215 13219001
BC LL	0.0 PSF	HC-ENG SSB/AP
TOT.LD.	40.0 PSF	SEQN- 378406
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1UYK215_Z02



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
**\*\*IMPORTANT\*\*** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to end of drawing for details of bracing. Competency information, by TPI and WTCA, for the contractor is provided. The contractor shall be responsible for the design and use of this design for any structural application. The contractor shall be responsible for the design and use of this design for any structural application. The contractor shall be responsible for the design and use of this design for any structural application.

ICC: www.iccsafe.org

**ALPINE**  
r/w Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278

(8287-)/BILL HARPER-MARGO RES. /Contractor -- , FL - A2)

Top chord 2x6 SP M-31 :T2 2x4 SP M-31;  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

130 mph wind, 16.58 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

End verticals not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Collar-tie braced with continuous lateral bracing at 24" OC, or rigid ceiling.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 12-0-0.

(1) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

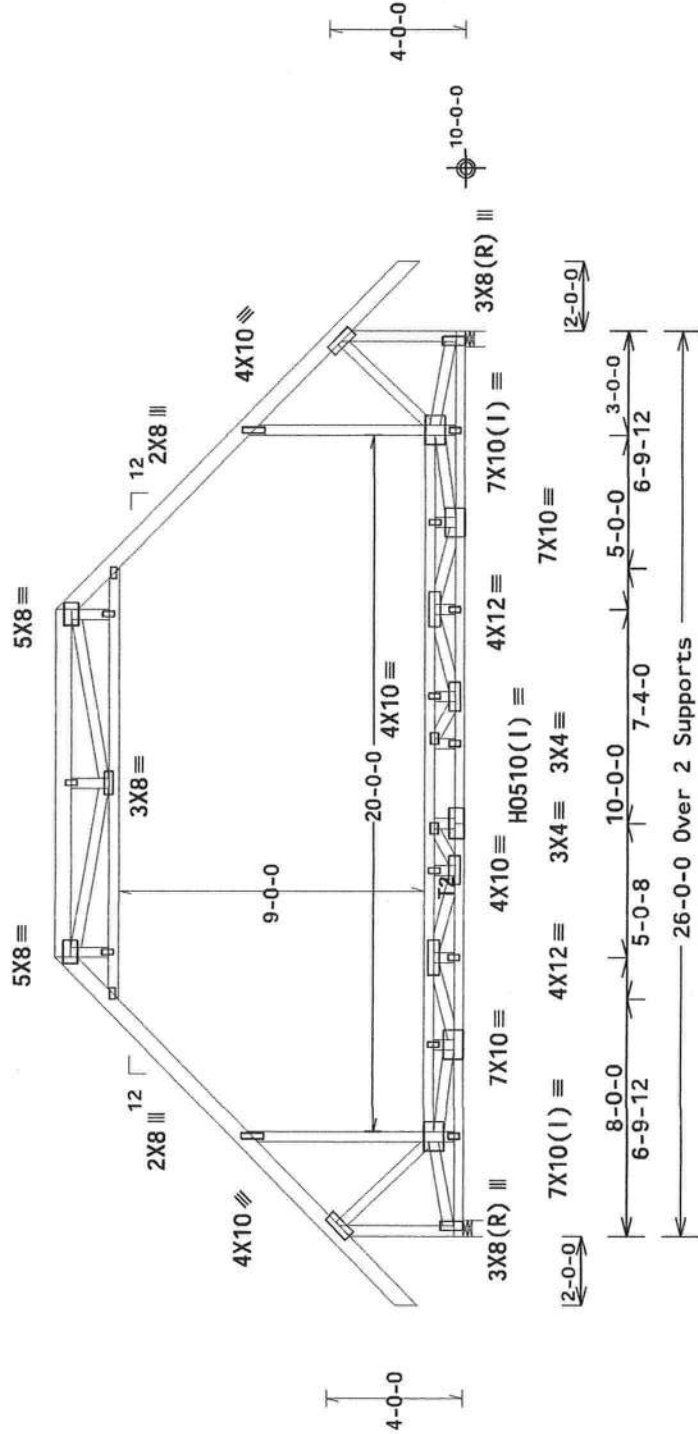
Wind loads and reactions based on MWFRS with additional C&C member design.

Calculated horizontal deflection is 0.20" due to live load and 0.30" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 3-0-0 to 23-0-0.

Calculated vertical deflection is 0.36" due to live load and 0.73" due to dead load at X = 11-10-4.



R=2500 U=51 W=5.5" (5.5" min.)  
RL=253/-253

R=2500 U=51 W=5.5" (5.5" min.)

Note: All Plates Are 2X4 Except As Shown.  
Design Crit: FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. 20 Gauge HS, Wave	TC LL	20.0 PSF	Scale = .1875"/Ft.
	TC DL	10.0 PSF	REF R215-- 55904
	BC DL	10.0 PSF	DATE 08/07/13
	BC LL	0.0 PSF	DRW HCUSR215 13219002
	TOT.LD.	40.0 PSF	HC-ENG SSB/AP
	DUR.FAC.	1.25	SEQN- 378388
	SPACING	24.0"	FROM CDM
			JREF- 1UYK215_Z02



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET.  
**\*\*IMPORTANT\*\*** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCS1 (Building Component Safety Information, by TPI and WDA) for details. Unless noted otherwise, top chords shall have properly attached temporary bracing per BCS1. Unless noted otherwise, top chords shall have properly attached permanent lateral bracing. All bracing shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.  
ITW Building Components Group Inc. (ITWBGG) shall not be responsible for any deviation from this design or failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joining details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. ANSI/TPI 1, Sect. 2, for more information see: This structure is a general reference paper. ITWBGG: www.itwbgg.com; TPI: www.tpiinc.org; WDA: www.bcsindustry.com; ICC: www.iccsafe.org

**ALPINE**  
ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0278

(8287-)/BILL HARPER-MARGO RES. /Contractor -- , FL - A3)

Top chord 2x6 SP M-31 :T2 2x4 SP M-31:  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

Design Dead Loads based on material weight adjusted for slope; TC: 1.00 PSF

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

Wind loads and reactions based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Trusses to be spaced at 52.9" OC maximum.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 3-0-0 to 23-0-0.

Calculated vertical deflection is 0.39" due to live load and 0.81" due to dead load at X = 11-10-4.

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

## 2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails  
 Top Chord: 1 Row @ 7.75" o.c.  
 Bot Chord: 1 Row @12.00" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

130 mph wind, 16.58 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 6Cpi(+/-)=0.18

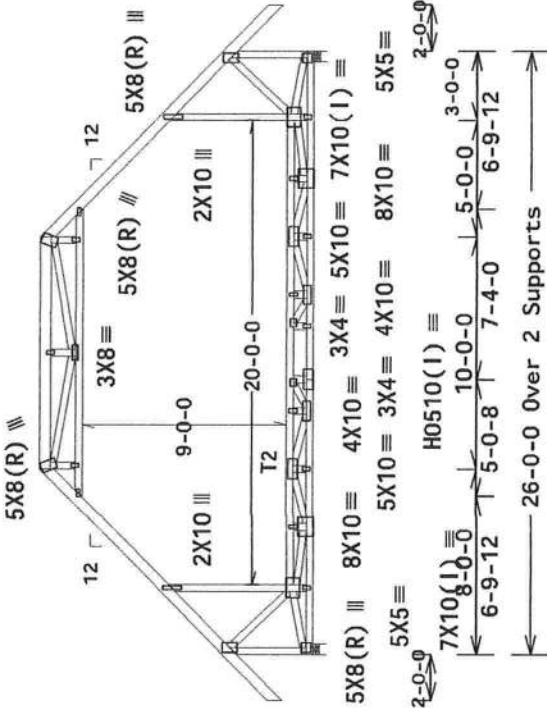
Calculated horizontal deflection is 0.22" due to live load and 0.34" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

Collar-tie braced with continuous lateral bracing at 24" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 12-0-0.

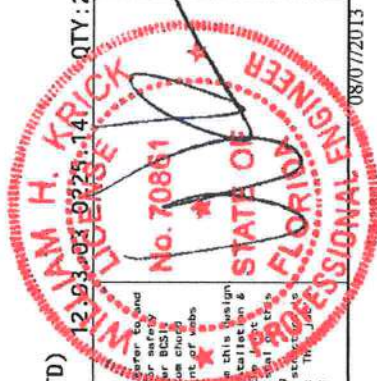


R=5507 U=111 W=5.5" (5.5" min.)  
 RL=558/-558

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

TC LL	20.0 PSF	FL/-/4/-/-/R/-	Scale = .125"/Ft.
TC DL	10.0 PSF	REF R215--	55905
BC DL	10.0 PSF	DATE	08/07/13
BC LL	0.0 PSF	DRW	HCUSR215 13219003
TOT.LD.	40.0 PSF	HC-ENG	SSB/AP
DUR.FAC.	1.25	SEQN-	378416
SPACING	52.9"	FROM	CDM
		JREF-	1UYK215_Z02



**\*\*IMPORTANT\*\*** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and BTCA) for safety instructions prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall have a properly attached rigid collar. Locations shown for permanent lateral restriction of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.  
 ITR Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation or bracing of trusses. Apply plates to each face of truss and position as shown above and on this drawing & details, unless noted otherwise. Refer to drawings 180A-Z for standard plate positions. A steel eraser drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the general responsibility of the fabricating engineer per ANSI/TPI 1, Sec.2. For more information see: the general notes page 1. ITRBCG: www.itwbcg.com; TPI: www.tpi-truss.org; BTCA: www.btcaindustry.org; FCC: www.fccsafe.org

**ALPINE**  
 ITR Building Components Group Inc.  
 Orlando FL, 32837  
 FL COA #0 278

08/07/2013

(8287-)/BILL HARPER-MARGO RES. /Contractor -- , FL - A4)

Top chord 2x6 SP M-31 : T2 2x4 SP M-31:  
 Bot chord 2x4 SP M-31  
 Webs 2x4 SP M-31

End verticals not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 3-0-0 to 23-0-0.

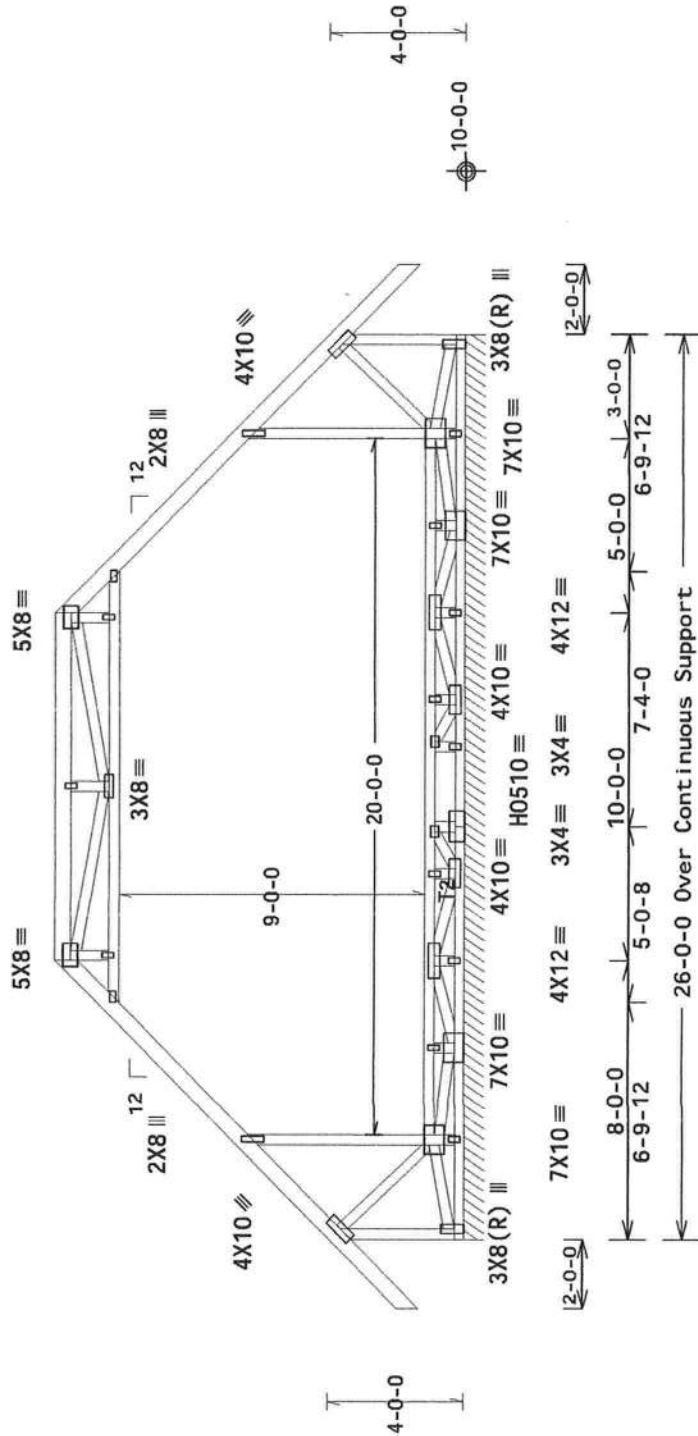
The overall height of this truss excluding overhang is 12-0-0.

130 mph wind, 16.58 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=192 PLF U=4 PLF W=26-0-0  
 RL=10/-10 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS, Wave

FT/RT=20%(0%)/10(0)

12-03-03 022314 01V:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R215-- 55906
IC DL	10.0 PSF	DATE	08/07/13
BC DL	10.0 PSF	DRW	HCUSR215 13219004
BC LL	0.0 PSF	HC-ENG	SSB/AP
TOT.LD.	40.0 PSF	SEQN-	378411
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1UYK215_Z02



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
**\*\*IMPORTANT\*\*** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS1 (Building Component Safety Information, by TPI and WTC) for safety instructions prior to performing these functions. Installers shall provide temporary bracing per BCS1. The trusses shall be braced in accordance with the structural drawings and bracing details. Trusses shall have a properly attached rigid ceiling. Locations shown for lateral bracing of trusses shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.  
 TPI Building Components Group Inc. (TIBCCG) shall not be responsible for any design or construction failure to build the truss in conformance with ANSI/TPI 1 for wood trusses. The design and bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 180A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structural or other purpose is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's general notes pages. TIB-806: www.tibccg.com; TPI: www.tpi-inc.org; WTC: www.subindustry.com; ICC: www.iccsafe.org



(8287-)/BILL HARPER-MARGO RES. /Contractor -- , FL - A6)

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

130 mph wind, 24.51 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. GCPi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Refer to drawing PB160100212 for piggyback detail. Top chord of supporting truss under piggyback to be braced @ 24" O.C., unless otherwise specified.

**Special loads**

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC- From 60 pif at -0.56 to 60 pif at 4.42  
TC- From 60 pif at 4.42 to 60 pif at 9.40  
BC- From 4 pif at -0.56 to 4 pif at 9.40

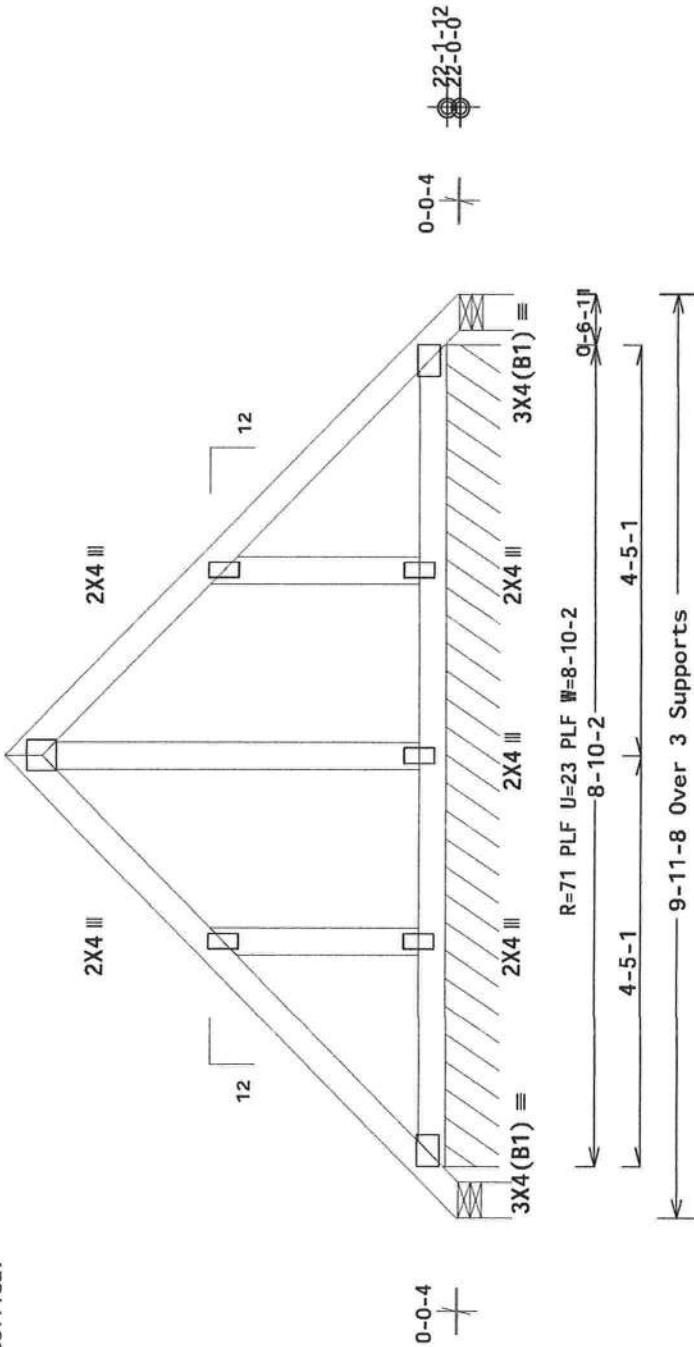
Gable end supports 8" max rake overhang.

See DWGS A14030ENC100212 & GBLLETIN0212 for more requirements.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

The overall height of this truss excluding overhang is 5-0-0.

4X4 ≡



R=-7 RW=25 U=19 W=4.7" (4.7" min.)

R=71 PLF U=23 PLF W=8-10-2  
R=-7 RW=102 U=103 W=4.7" (4.7" min.)  
RL=111/-111

Design Crit: FBC2010Res/TPI-2007 (STD)

FT/RT=20%(0%)/10(0)

Scale = .5" / Ft.

FL/-4/-/-R/-

QTY: 1

REF

DATE

DRW

HC-ENG

SEQN-

FROM

JREF-

24.0"

1.25

40.0 PSF

10.0 PSF

10.0 PSF

0.0 PSF

40.0 PSF

1.25

24.0"

55907

08/07/13

13219005

SSB/AP

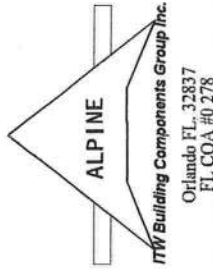
378413

CDM

1UYK215\_Z02



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing (installed per BCSI sections, B3, B4 or B10, as applicable).  
TPI Building Components Group Inc. (TIBCO) shall not be responsible for any deviation from this design or any other conditions for which TIBCO is not responsible. Shipping, handling, and positioning of trusses, unless noted otherwise, shall be the responsibility of the contractor. A separate drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This J... general notes page: TIBCO: www.tibco.com; TPI: www.tpi.net; WTC: www.wtcindustry.com; IBC: www.internationalibc.org



08/07/2013

(8287-)/BILL HARPER-MARGO RES. /Contractor -- , FL - PB1)

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

130 mph wind, 24.51 ft mean hgt. ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf. 6Cpi(+/-)=0.18

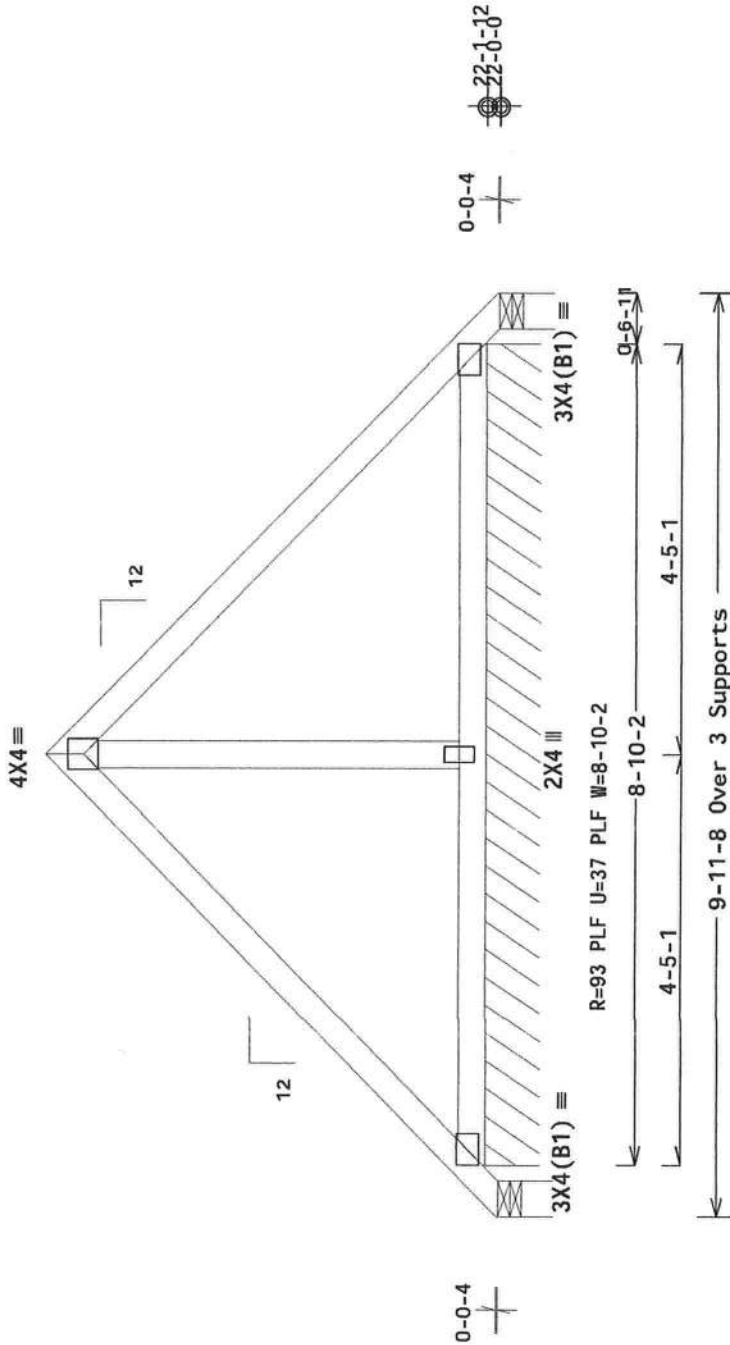
Wind loads and reactions based on MWFRS with additional C&C member design.

Refer to drawing PB160100212 for piggyback detail. Top chord of supporting truss under piggyback to be braced @ 24" O.C., unless otherwise specified.

Special loads  
---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC- From 60 pif at -0.56 to 60 pif at 4.42  
BC- From 60 pif at 4.42 to 60 pif at 9.40  
BC- From 4 pif at -0.56 to 4 pif at 9.40

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 5-0-0.



R=-127 Rw=151 U=191 W=4.7" (4.7" min.)  
RL=111/-111

R=-127 Rw=90 U=106 W=4.7" (4.7" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

FT/RT=20%(0%)/10(0)

Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R215--	55908
TC DL	10.0 PSF	DATE	08/07/13	
BC DL	10.0 PSF	DRW	HCUSR215	13219006
BC LL	0.0 PSF	HC-ENG	SSB/AP	
TOT.LD.	40.0 PSF	SEQN-	378423	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1UYK215_Z02	



**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS (Building Component Safety Information, by TPI and WTDA) for safety instructions prior to performing these functions. Installers shall provide temporary bracing per BCS. The truss manufacturer shall have a properly attached rigid coating. Locations shown for structural sheathing and bolted chords shall have bracing installed per BCS sections B3, B7 or B10, as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1. The manufacturer shall be responsible for the bracing of trusses. Apply plates to each face of truss and position as shown above and on the following details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This drawing is the property of ITW Building Components Group Inc. TPI: www.tpi-inc.org; WTDA: www.wtda.org; ICC: www.iccsafe.org

**ALPINE**

ITW Building Components Group Inc.  
Orlando FL 32837  
FL COA #0278

(8287-)/BILL HARPER-MARGO RES. /Contractor --, FL - PB2)

Top chord 2x4 SP M-31  
Bot chord 2x4 SP M-31  
Webs 2x4 SP M-31

Negative reaction(s) of -280# MAX. (See below) from a non-wind load case requires uplift connection.

Wind loads and reactions based on MMFRS with additional C&C member design.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Refer to drawing PB160100212 for piggyback detail. Top chord of supporting truss under piggyback to be braced @ 24" O.C., unless otherwise specified.

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

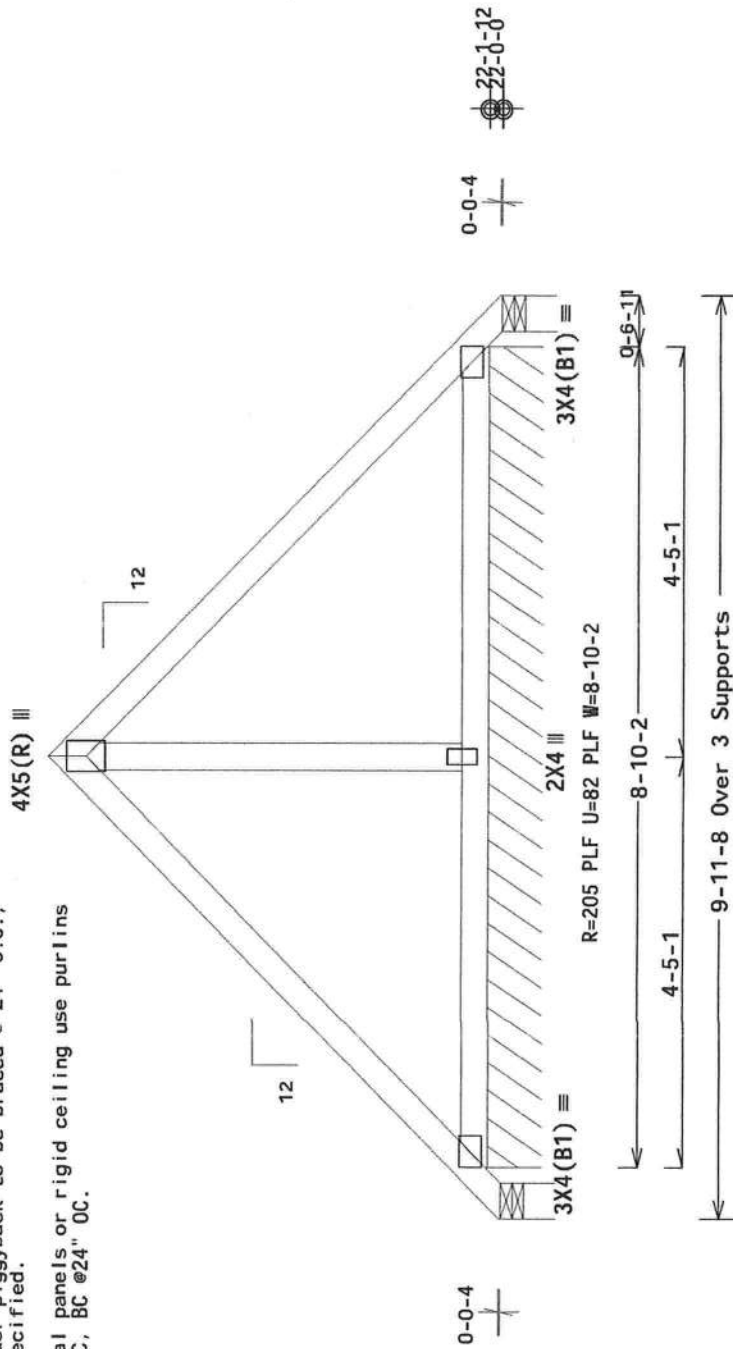
**Special loads**

-----Lumber Dur. Fac.=1.25 / Plate Dur. Fac.=1.25)  
TC- From 132 plf at -0.56 to 132 plf at 4.42  
TC- From 132 plf at 4.42 to 132 plf at 9.40  
BC- From 9 plf at -0.56 to 9 plf at 9.40

130 mph wind, 24.51 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf.  $G C p_i (+/-) = 0.18$

Trusses to be spaced at 52.9" OC maximum.

The overall height of this truss excluding overhang is 5-0-0.



R=-281 RW=333 U=420 W=4.7" (4.7" min.)  
RL=245/-245

R=-281 RW=198 U=234 W=4.7" (4.7" min.)

Design Crit: FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

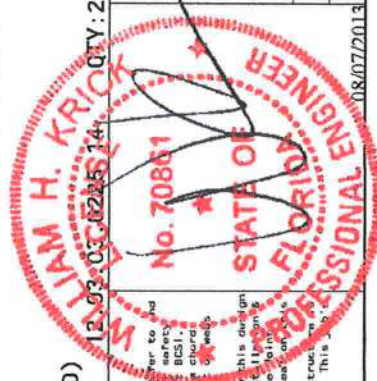
**ALPINE**

**ITW Building Components Group Inc.**  
Orlando FL, 32837  
FL COA #0278

**\*\*IMPORTANT\*\***  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WTC) for safety and bracing information. Trusses shall be braced in accordance with the BCSI manual. Unless noted otherwise, top chord shall have properly attached structural sheathing and webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

**\*\*WARNING\*\***  
READ AND FOLLOW ALL NOTES ON THIS SHEET.  
FINISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the truss details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal of approval drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structural application is the responsibility of the building designer. ANSI/TPI 1 Sec.2. For more information see: This job sheet or general information: ITW-605; www.itwbcg.com; TPI: www.tpi.net; WTC: www.bcsiindustry.com; ITC: www.iccaas.org



TC LL	20.0 PSF	REF	R215--	55909
TC DL	10.0 PSF	DATE	08/07/13	
BC DL	10.0 PSF	DRW	HCUSR215	13219007
BC LL	0.0 PSF	HC-ENG	SSB/AP	
TOT.LD.	40.0 PSF	SEQN-	378421	
DUR.FAC.	1.25	FROM	CDM	
SPACING	52.9"	JREF-	1UYK215_Z02	

Scale = .5" / Ft.

# Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 100

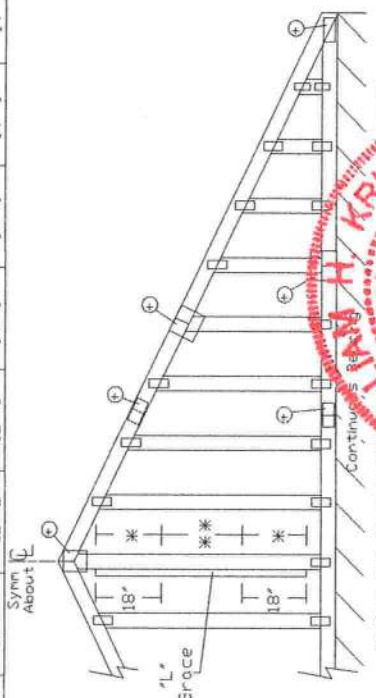
Dr: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Dr: 100 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Gable Vertical Spacing	2x4 Vertical Species	Brace Grade	No Braces		(1) 1x4 'L' Brace		(2) 2x4 'L' Brace		(1) 2x6 'L' Brace		(2) 2x6 'L' Brace	
			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
12" O.C.	SPF	#1 / #2	4' 1"	7' 2"	8' 2"	8' 6"	9' 5"	10' 2"	10' 2"	12' 10"	13' 4"	14' 0"
	HF	Stud	3' 10"	6' 1"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
	DFL	Standard	3' 10"	6' 5"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
14" O.C.	SPF	#1	4' 2"	7' 0"	8' 3"	8' 7"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"
	HF	#2	4' 1"	6' 10"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
	DFL	#3	3' 10"	5' 6"	7' 4"	7' 10"	9' 8"	10' 0"	11' 6"	12' 4"	14' 0"	14' 0"
16" O.C.	SPF	Stud	3' 10"	5' 10"	7' 4"	7' 10"	9' 8"	10' 0"	11' 6"	12' 4"	14' 0"	14' 0"
	HF	Standard	3' 8"	4' 9"	6' 4"	6' 10"	8' 7"	9' 3"	10' 0"	10' 8"	13' 7"	14' 0"
	DFL	#1 / #2	4' 8"	7' 11"	8' 3"	8' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
18" O.C.	SPF	#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"
	HF	Stud	4' 5"	7' 10"	8' 1"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"
	DFL	#1	4' 9"	8' 0"	8' 3"	9' 5"	9' 9"	11' 2"	11' 8"	14' 0"	14' 0"	14' 0"
20" O.C.	SPF	#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"
	HF	Stud	4' 5"	6' 9"	7' 2"	8' 7"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"
	DFL	Standard	4' 5"	5' 10"	6' 3"	7' 9"	8' 4"	10' 6"	12' 3"	13' 1"	14' 0"	14' 0"
22" O.C.	SPF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	Stud	4' 10"	8' 7"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	SPF	#1	5' 3"	8' 9"	9' 1"	10' 4"	10' 9"	12' 4"	12' 10"	14' 0"	14' 0"	14' 0"
	HF	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"
	DFL	#3	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"
26" O.C.	SPF	Stud	4' 10"	7' 9"	8' 3"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"
	HF	Standard	4' 10"	7' 2"	9' 0"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#1	4' 10"	6' 9"	7' 2"	8' 7"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"

Max Gable Vertical Length

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.  
Vertical length shown in table above.  
Connect diagonal at midpoint of vertical web.



Refer to Char: above for total length.

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

\*\*\*IMPORTANT\*\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI Building Code. Installers shall provide temporary bracing per BCSI practices prior to performing these functions. Installers shall provide structural sheathing and blocking unless noted otherwise. Top chord shall have properly attached structural sheathing and blocking. Chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B1, B7 or B10, as applicable. Apply plates to all joints. Refer to drawings 160A-2 for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing or failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or use of this drawing. All drawings cover page listing, this drawing, policies, acceptance of professional engineering responsibility, and the responsibility of the Building Designer per ANSI/TPI 1. For more information see this job's general notes page and these web sites: ITWBCG: www.itwbcg.com; TPI: www.tpin.org; VITCA: www.vitcaindustry.org; ICC: www.iccsafe.org

**ITW**  
Building Components Group Inc.  
Earth City, MO 63045

Bracing Group Species and Grades:

Group A:		Group B:	
Spruce-Pine-Fir	Hen-Fir	Spruce-Pine-Fir	Hen-Fir
#1 / #2	Standard	#2	Stud
Standard	Standard	#3	Standard
Douglas Fir-Larch	Southern Pine***	Douglas Fir-Larch	Southern Pine***
#3	#3	Stud	Standard
Standard	Standard	Standard	Standard

Group A:		Group B:	
Spruce-Pine-Fir	Hen-Fir	Spruce-Pine-Fir	Hen-Fir
#1 / #2	Standard	#1	Standard
Standard	Standard	#2	Standard
Douglas Fir-Larch	Southern Pine***	Douglas Fir-Larch	Southern Pine***
#3	#3	Stud	Standard
Standard	Standard	Standard	Standard

1x4 Braces shall be SRE (Stress-Rated Board).  
\*\*For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

**Gable Truss Detail Notes:**  
Wind Load deflection criterion is L/240.  
Provide uplift connections for 100 plf over continuous bearing (5 psf TC Bead Load).  
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.  
So. Pine lumber design values based on the ALSC January, 2012 nulin.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.  
\* For (1) 'L' brace: space nails at 2' o.c. in 18" end zones and 4' o.c. between zones.  
\*\* For (2) 'L' braces: space nails at 3' o.c. in 18" end zones and 6' o.c. between zones.  
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1.5X4
Greater than 4' 0" but less than 11' 6"	2.5X4
Greater than 11' 6"	3.5X4

+ Refer to common truss design for peak, splice, and feel plates.

Refer to the Building Designer for conditions not addressed by this detail.

REF	ASCE 7-10-GABI403C
DATE	2/14/12
DRWG	A14030ENC100212

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"


**ITW BUILDING COMPONENTS GROUP INC.**  
No. 70861  
Aug 02 2013  
Aug 07 2013  
PROFESSIONAL ENGINEER  
FLORIDA  
STATE OF

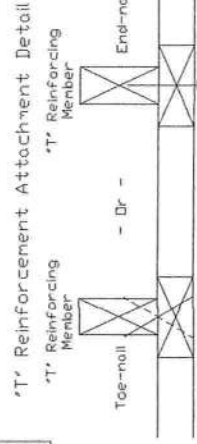
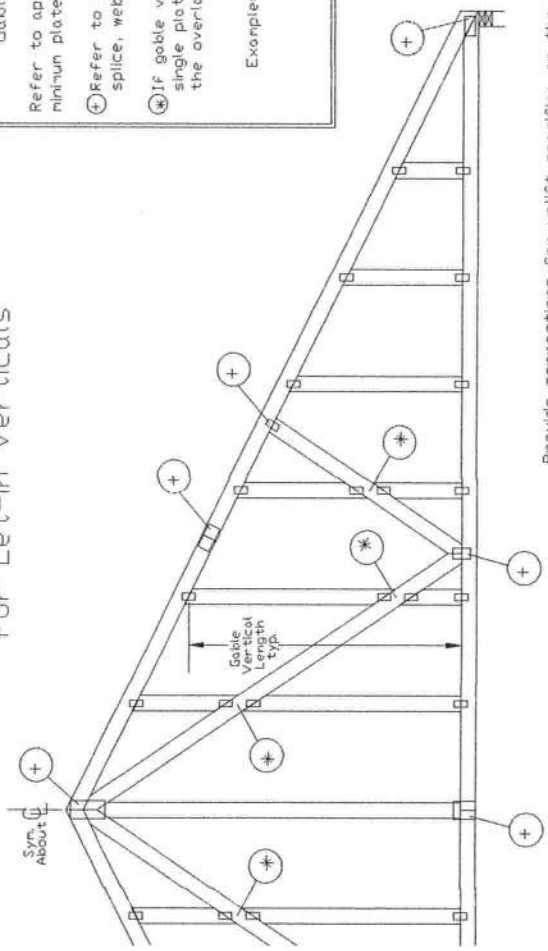
# Gable Detail For Let-In Verticals

**Gable Truss Plate Sizes**

Refer to appropriate ITV gable detail for minimum plate sizes for vertical studs.

- ⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.
- ⊗ IF gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example: 



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate ITV gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

**Web Length Increase w/ 'T' Brace**

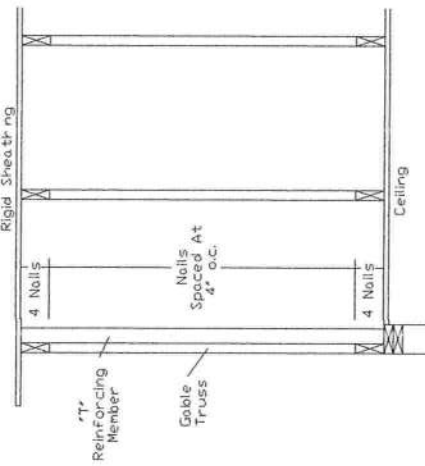
'T' Reinf. Mbr. Size	'T' Increase %
2x4	30 %
2x6	20 %

Example:  
 ASCE 7-10 Wind Speed = 120 mph  
 Mean Roof Height = 30 ft, Kzt = 1.00  
 Gable Vertical = 24' o.c. SP #3  
 'T' Reinforcing Member Size = 2x4  
 'T' Brace Increase (From Above) = 30% = 1.30  
 (1) 2x4 'L' Brace Length = 8' 7"  
 Maximum 'T' Reinforced Gable Vertical Length 1.30 x 8' 7" = 11' 2"

Provide connections for uplift specific to the engineered truss design.

- Attach each 'T' reinforcing member with End Driven Nails:
  - 10d Common (0.148"x 3" min) Nails at 4' o.c. plus (4) nails in the top and bottom chords.
- Toenailed Nails:
  - 10d Common (0.148"x 3" min) Toenails at 4' o.c. plus (4) toenails in the top and bottom chords.

- This detail to be used with the appropriate ITV gable detail for ASCE wind load.
- ASCE 7-98 Gable Detail Drawings:
    - A13015980109, A12015980109, A11015980109, A10015980109, A13030980109, A12030980109, A11030980109, A10030980109
  - ASCE 7-02 Gable Detail Drawings:
    - A13015020109, A12015020109, A11015020109, A10015020109, A14015020109, A13030020109, A12030020109, A11030020109, A10030020109
  - ASCE 7-05 Gable Detail Drawings:
    - A13015050109, A12015050109, A11015050109, A10015050109, A14015050109, A13030050109, A12030050109, A11030050109, A10030050109
  - ASCE 7-10 Gable Detail Drawings:
    - A11515ENC100212, A12015ENC100212, A14015ENC100212, A16015ENC100212, A18015ENC100212, A20015ENC100212, A20015PEDI00212, A11530ENC100212, A12030ENC100212, A14030ENC100212, A18030ENC100212, A20030ENC100212, A20030PEDI00212
- See appropriate ITV gable detail for maximum vertical gable vertical length.



REF	LET-IN VERT
DATE	2/16/12
DRWG	GBLLETIN0212

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

**WILLIAM H. KRYCK**  
 No. 70881  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 Aug 07 2013  
 08/07/2013

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING**

**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) or TPI (Truss Plate Institute) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. Apply plates to all connections on the .001 details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installation, or erection of the truss in accordance with this drawing, shall be the responsibility of the contractor. For professional seal, liability, and insurance information, please refer to the BCSI or TPI drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 5. For more information see this job's general notes page and these web sites: ITVBGG www.itvbogg.com, TPI www.tpinstr.org, VTCA www.vtcaindustry.org, ICC www.iccsafe.org

**TW**  
 Building Components Group Inc.  
 Earth City, MO 63045



# Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

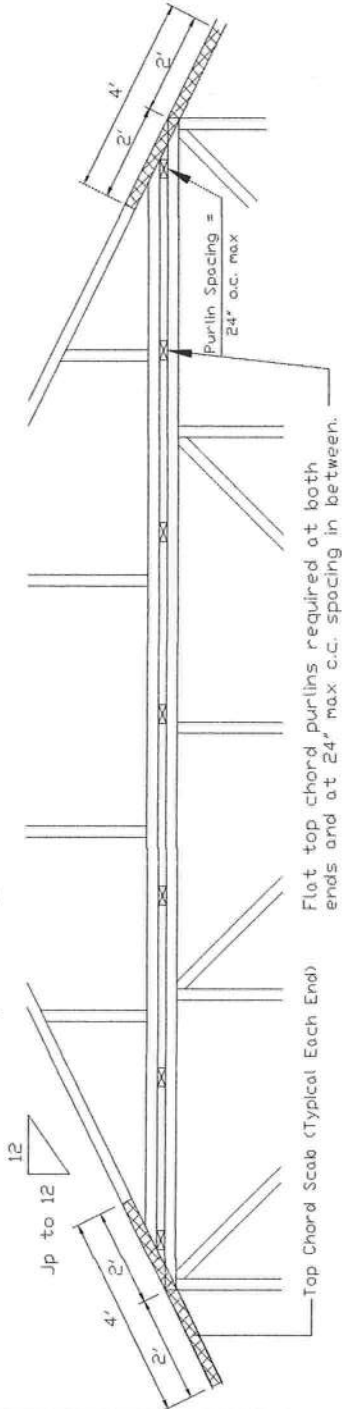
160 mph Wind, 3000 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp C,  $V_{ind}$  DL= 50 psf (min),  $K_{zt}=1.0$ , DR 140 mph wind, 3000 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp D, wind DL= 50 psf (min),  $K_{zt}=1.0$ .

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

## Detail A : Purlin Spacing = 24" o.c. or less



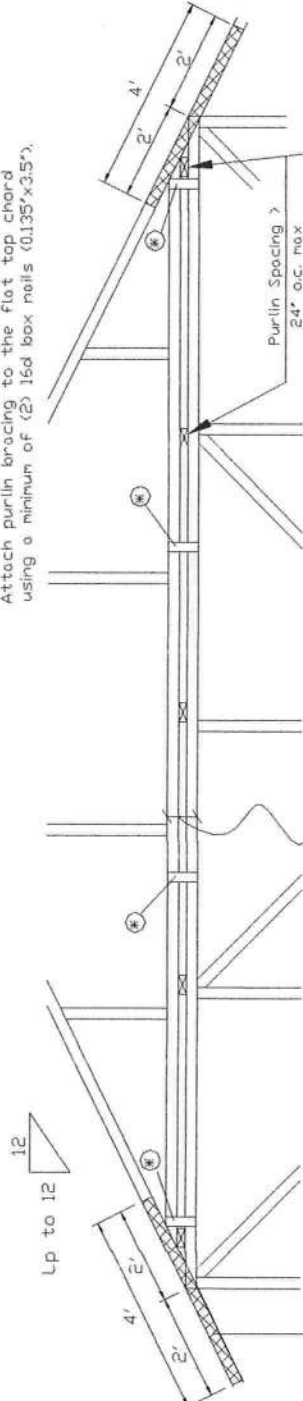
Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135" x 3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128" x 3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135" x 3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3x8 Trulox plate attached with (8) 0.120" x 1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate to the piggyback truss TC and attached to the base truss TC with (4) 0.120" x 1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

## Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135" x 3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128" x 3") at 4' o.c. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135" x 3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

Flat top chord purlins required at both ends, purlin spacing 24' o.c.

\* In addition, provide connection with one of the following methods:

Trulox  
Use 3x8 Trulox plates for 2x4 chord member, and 2x10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120" x 1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gussset

8" x 8" x 7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113" x 2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs

2x4 SPF #2, Full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128" x 3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate

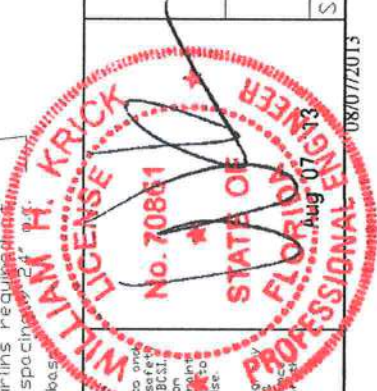
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120" x 1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

REF PIGGYBACK

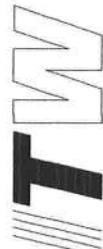
DATE 2/14/12

DRWG PB160100212

SPACING 24.0'



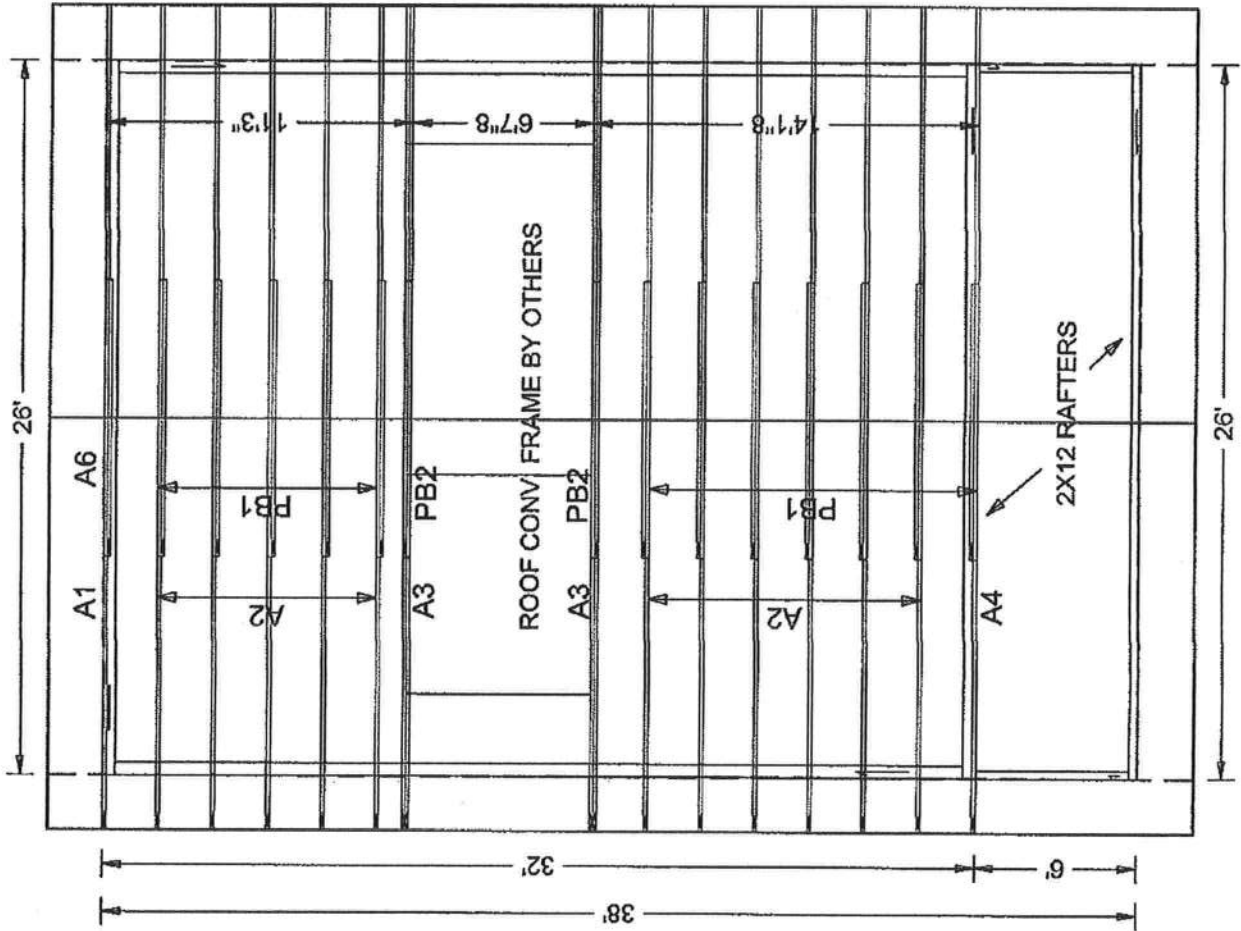
ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or bracing of trusses. A seal on this drawing or cover page listing the drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any other purpose is the responsibility of the user. For more information see this job's general notes page and these web sites: ITVBGG: www.itvbccg.com; TPI: www.tpinstr.org; VITCA: www.sectechinc.com; ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

08/07/2013



**W.B. Howland Truss Co.**  
 P.O. Box 700  
 Live Oak, FL 32064  
 (386)362-1235  
 (386)362-7124 (fax)

ROOF PITCH: 12/12  
 CLG PITCH: FLAT  
 OVERHANG: 24"  
 LOADING: 40  
 WIND LOAD: 130  
 EXPOSURE: B  
 FBC 2010 RESIDENTIAL  
 EXT. WALLS: 2X6 FRAME  
 DATE: 8/1/13

JOB #: 8287

Job Name: BILL HARPER-MARGO RES.  
 Customer: Contractor  
 Designer: Cynthia Gude-Newsome  
 ADDRESS:  
 SALESMAN: HOUSE  
 : <Not Found>

JOB NO:  
 8287

PAGE NO:  
 1 OF 1

# CHERRYBROOK CALVERT OPEN

## OCCUPANCY

COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

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

Parcel Number 18-7S-16-04236-052

Building permit No. 000031454

Use Classification SFD, UTILITY

Fire: 0.00

Permit Holder PETER MARGARITONDO

Waste: 0.00

Owner of Building PETER & SUSAN MARGARITONDO

Total: 0.00

Location: 1062 SW BLUFF DR, FT. WHITE, FL 32038

Date: 09/10/2014


Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)

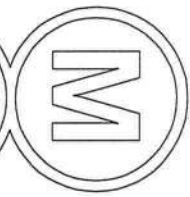
# MARGO RESIDENCE PLANS COLUMBIA COUNTY, FL

## Plan Sheet Index:

Sheet No.	Description
1	title/index sheet
2	floor plan
3	front and right elevations
4	rear and left elevations
5	wall typical & strapping/nailing requirements
6	truss schematic
7	floor framing plan
8	roof framing plan
9	foundation plan
10	electrical plan



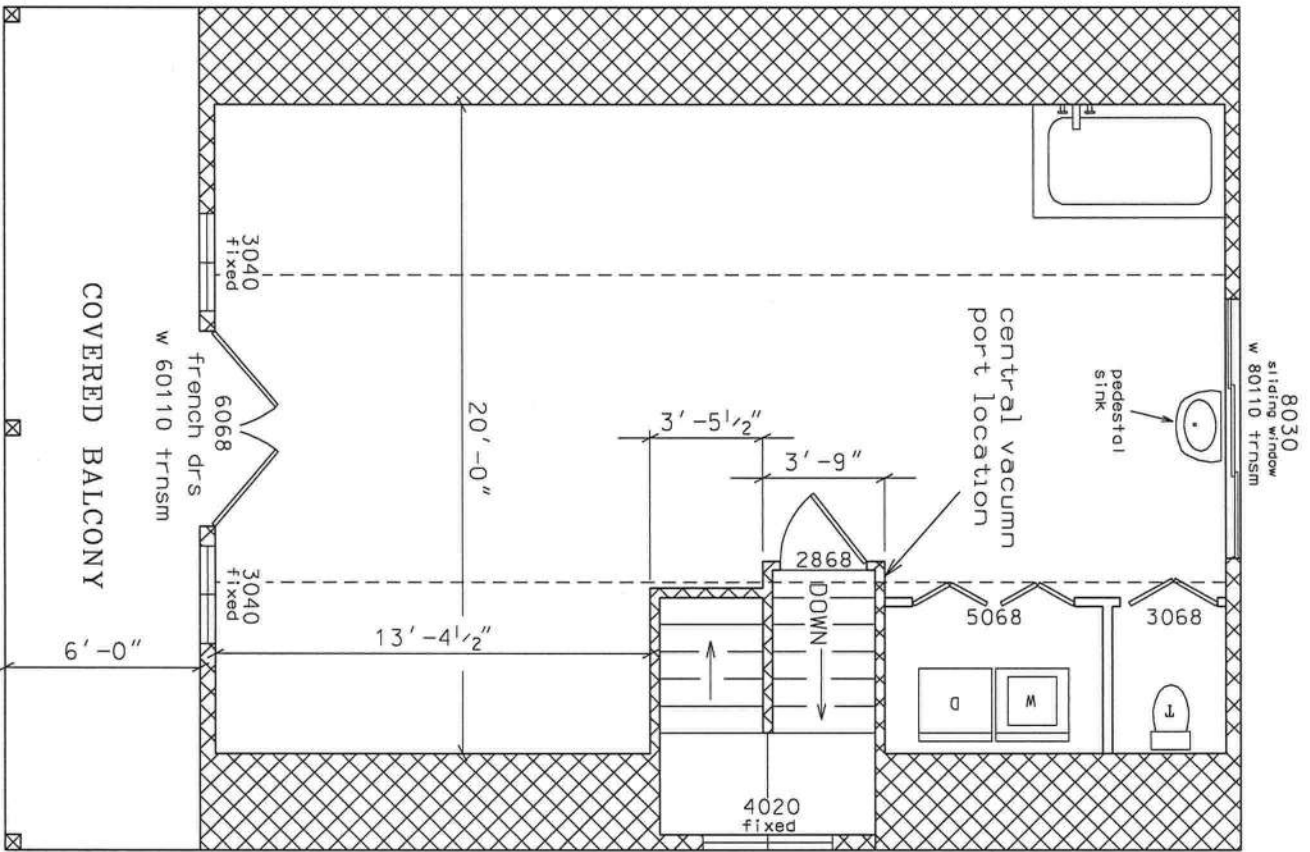
*M.J.H.*  
6-20-13



PLANS PREPARED BY:  
MARTY J. HUMPHRIES P.E. # 51976  
7932 240TH ST., O'BRIEN, FL 32071

MARGO RESIDENCE PLANS  
COLUMBIA COUNTY, FLORIDA

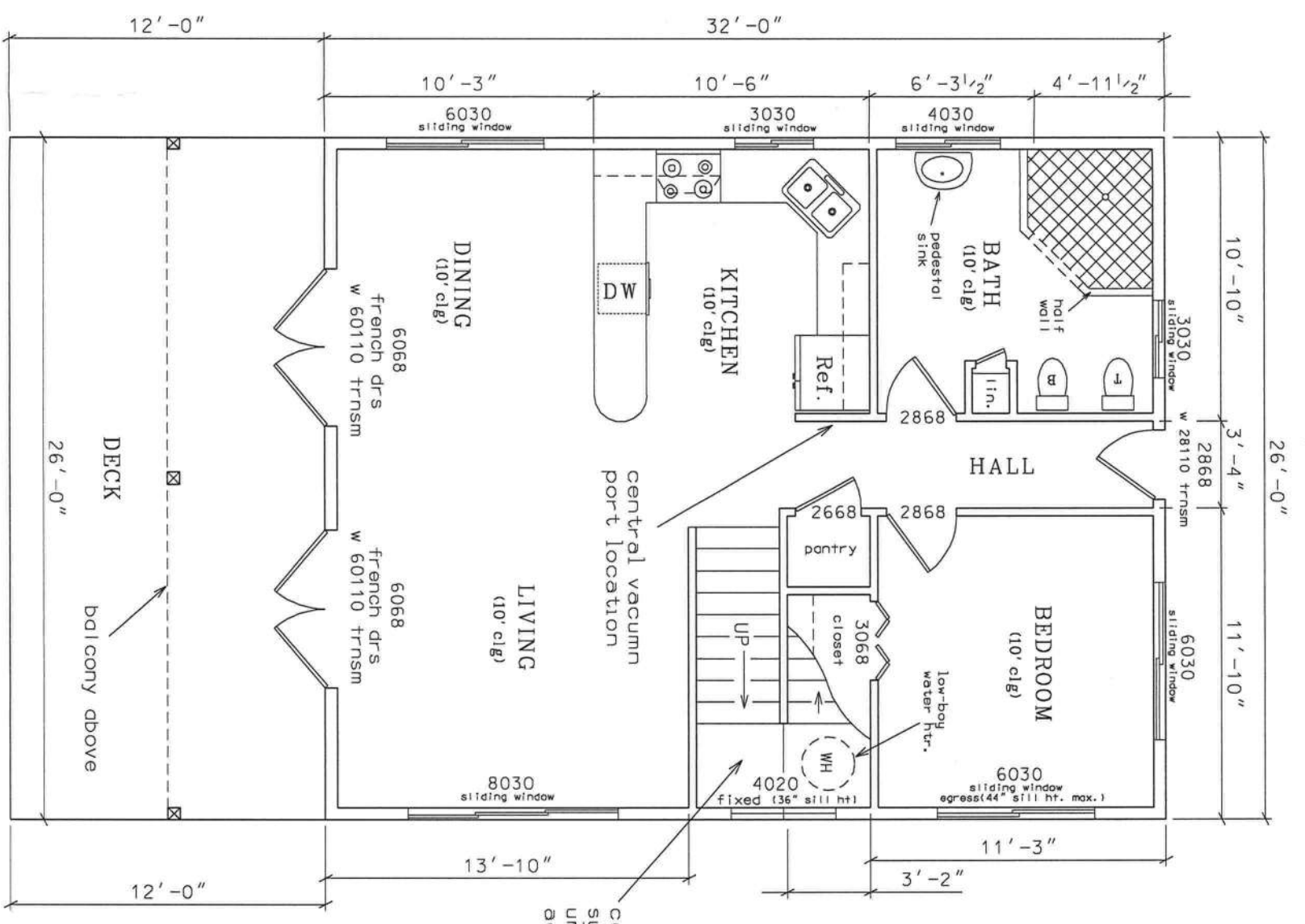
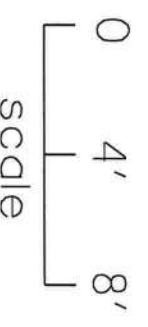
SHEET  
1  
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10



# FLOOR PLAN

(2nd floor)

Marty J. Humphries  
 6-20-13

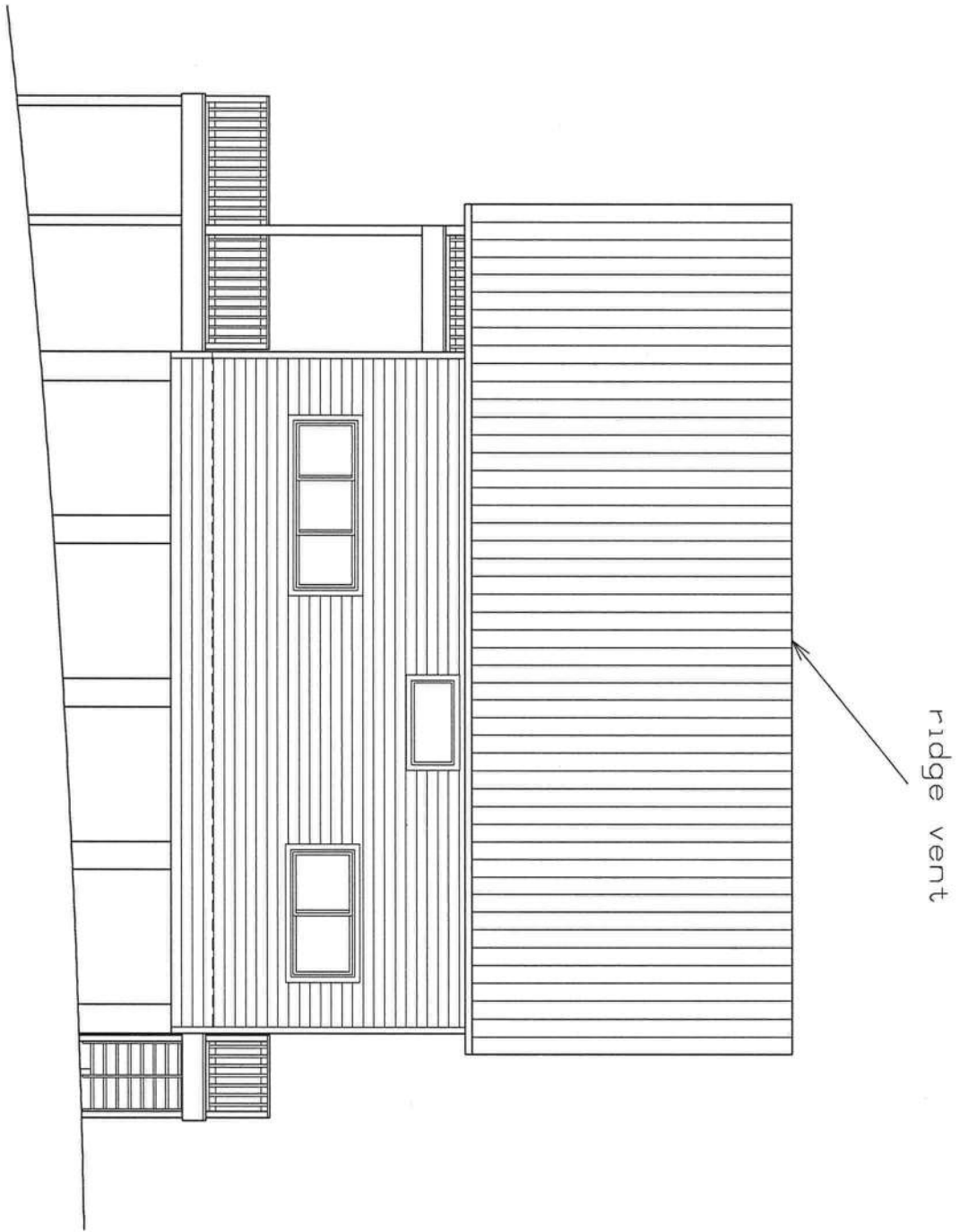


central vacuum system located under stairs with access panel

# FLOOR PLAN

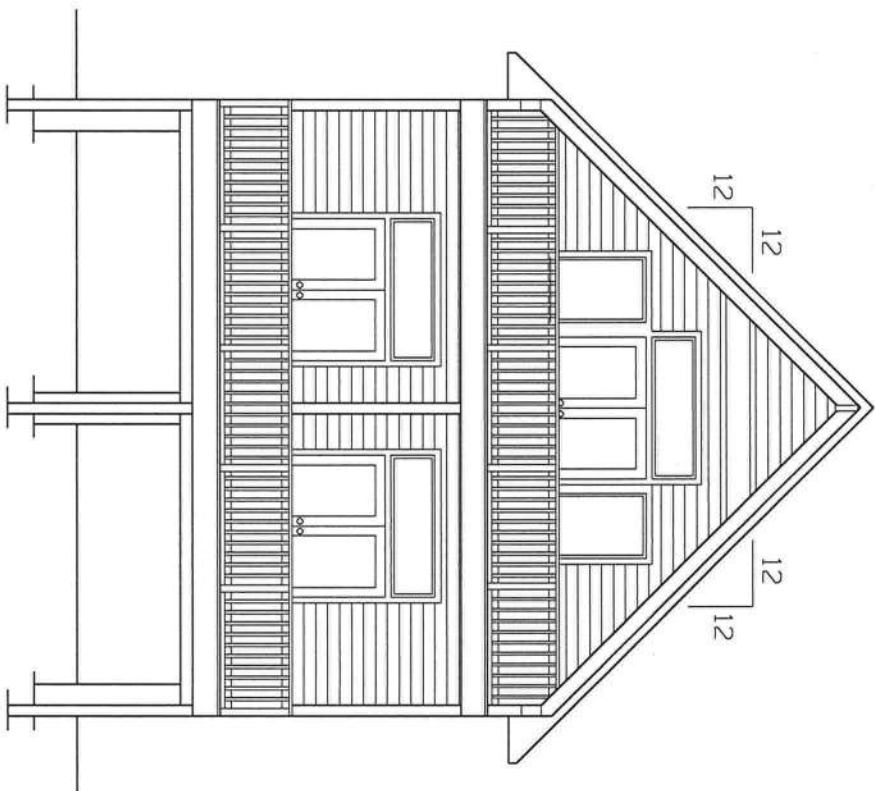
Note: All windows not shown egress shall have 48" sill height.





RIGHT ELEVATION

0 4' 8'  
scale



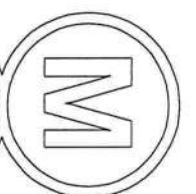
FRONT ELEVATION

0 4' 8'  
scale

*Marty J. Humphries*  
6-20-13

MARGO RESIDENCE PLANS  
COLUMBIA COUNTY, FLORIDA

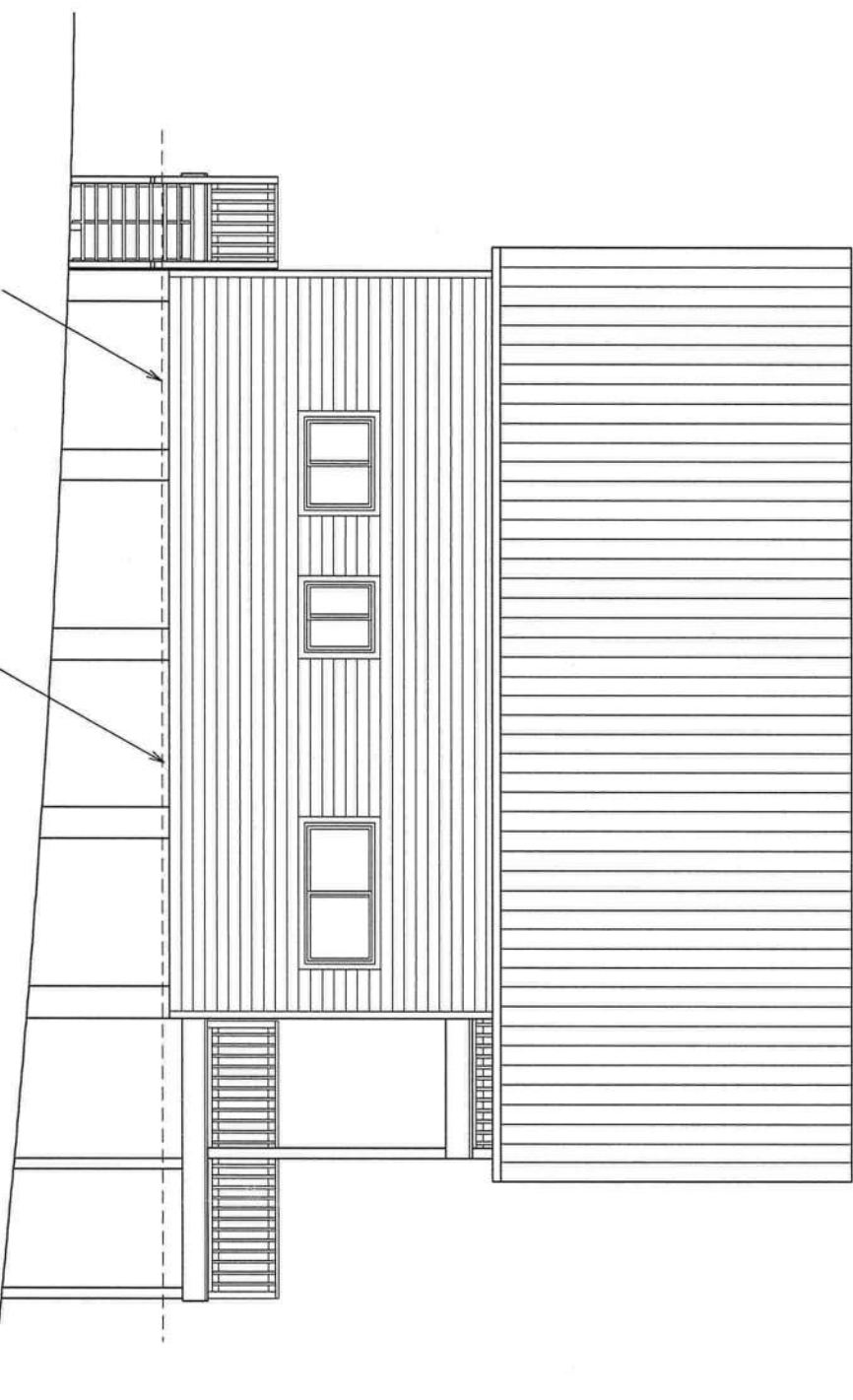
PLANS PREPARED BY:  
MARTY J. HUMPHRIES P.E. # 51976  
7932 240TH ST., O'BRIEN, FL 32071



SHEET

3 OF 10

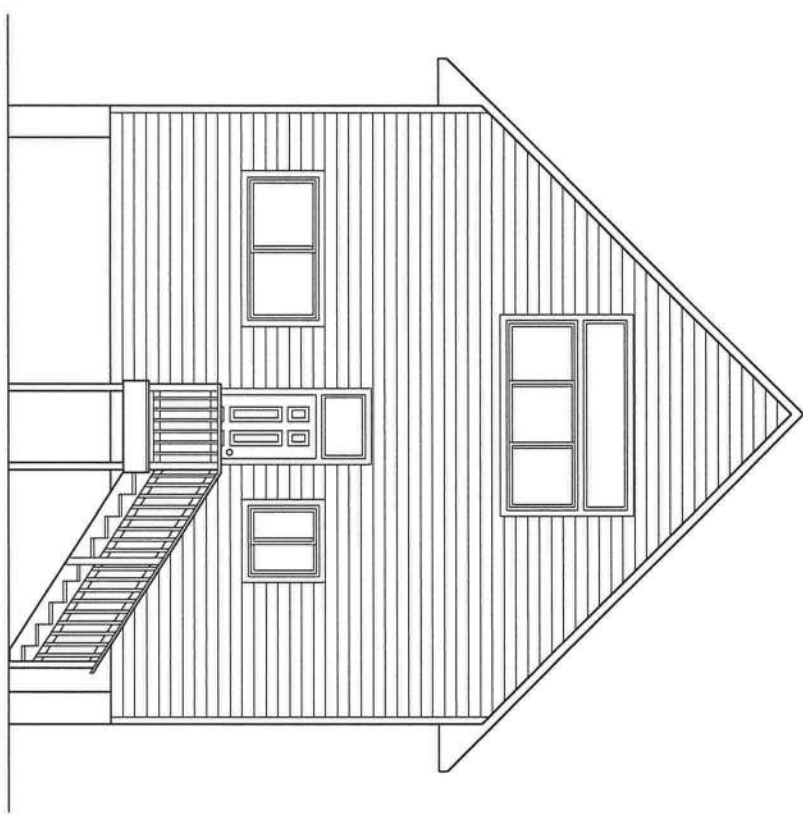
Note: lowest horizontal structural member shall be 1' higher than the 100 year flood elevation. Only masonry piers, wood columns, and stairs shall be constructed below this elevation. All electrical below floor of home shall be part of GFI circuits.



LEFT ELEVATION

0 4' 8'  
scale

Elevation 36.0 (NAVD 88)  
(1' above 100 year floor elevation of 35.0)



REAR ELEVATION

0 4' 8'  
scale

*Marty J. Humphries*  
6-20-13



**STRAPPING AND ANCHOR REQUIREMENTS**  
(Designed in accordance with 2010 FBC)

**WINDLOAD DATA AND EXPOSURE:**

Basic Wind Speed = 130 mph Vult.  
Importance Factor = 1.0  
Exposure Category = B  
Residential Occupancy = Group R3  
Mean Roof Height = 30'  
Height and Exposure Adjustment Coefficient = 1.0  
Roof Cross Slope = 12:12  
Wall Height = 10' above floor framing  
Risk Category = II  
Component and Cladding Pressures = Roof (Zone 1=27.8,-30.4, Zone 2=27.8,-35.6, Zone 3=27.8,-35.6), Wall (Zone 4=30.4,-33.0, Zone 5=30.4,-40.7) (units are psf)

**TRUSS/RAFTER ANCHORS:**

At Truss to Exterior Wall Plate Locations install two Simpson H2.5A anchors. At 2x12 rafters to porch beam location install Simpson H10A anchor and one H2.5A anchor

**WALL STRAP TIES:**

(See Wall/Pier Typical)

**MASONRY COLUMN TO FLOOR BEAM CONNECTION:**

(See Wall/Pier Typical)

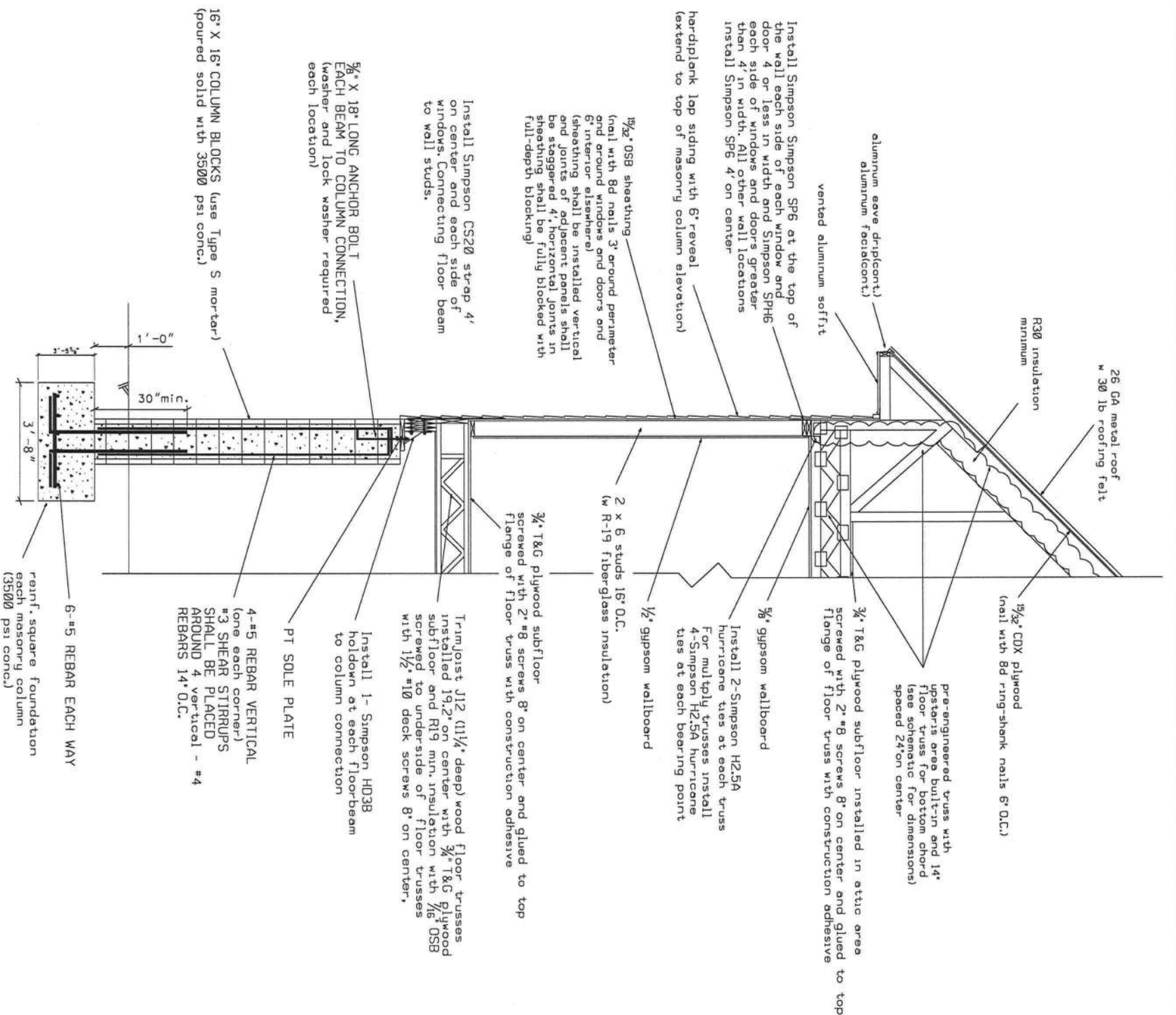
**DECK PORCH COLUMN ANCHORAGE:**

(see Foundation Plan and Floor Framing Plan)

**STAIR COLUMN ANCHORAGE:**

(see Foundation Plan)

Equivalent capacity anchors may be substituted, installed in accordance with the manufacturers requirements.



**WALL/PIER TYPICAL**

HEADER SIZES/MATERIAL SHALL BE AS FOLLOWS:

WINDOW AND DOOR OPENINGS (2 - #2 SYP 2X10's w 2x6 top and bottom nailed with 12d nails 10" O.C., minimum. For 8' window install 3 - #2 SYP 2x10's with 2x6 top and bottom nailed with 12d nails 10" O.C.)

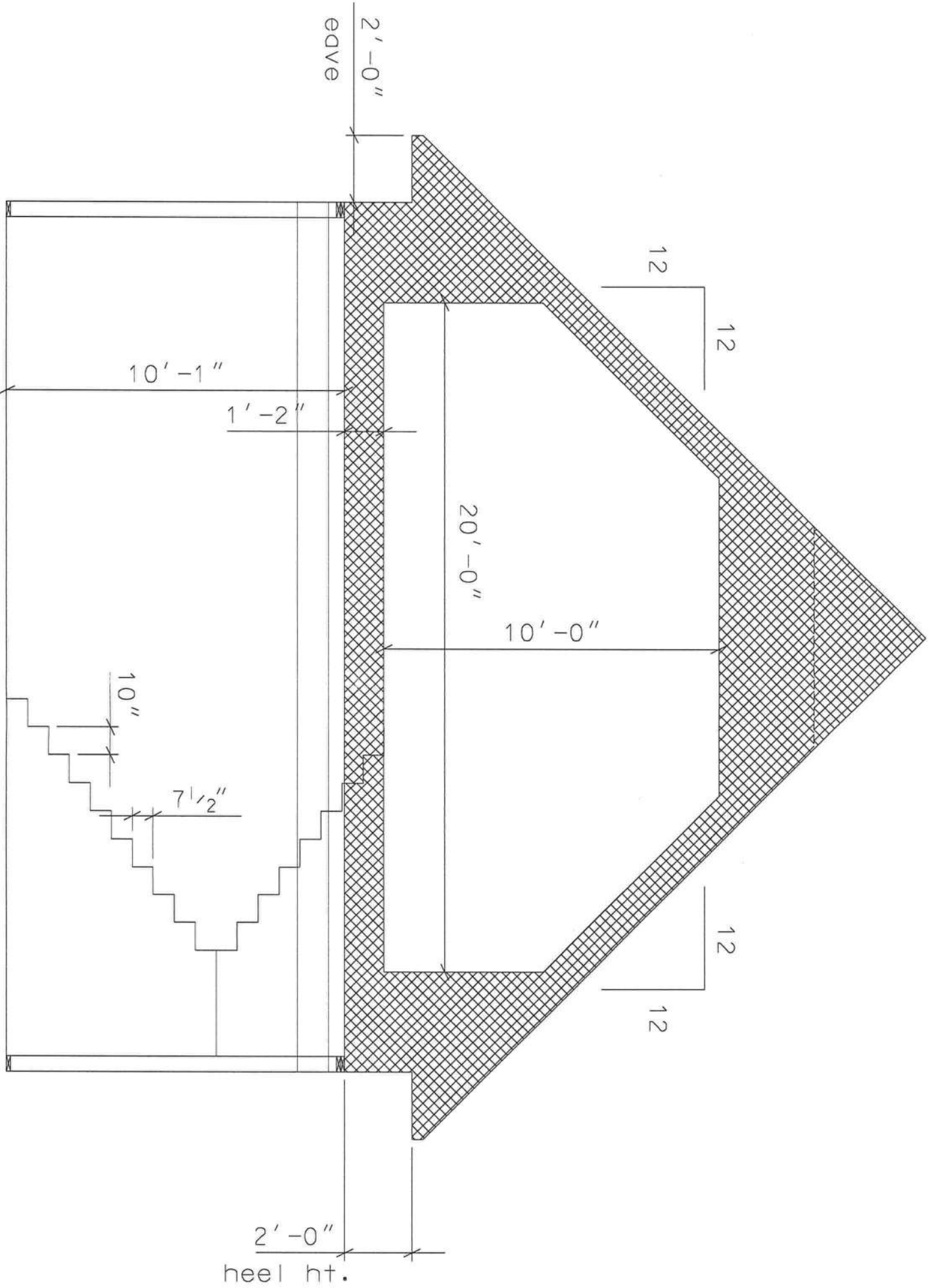
*Marty J. Humphries*  
6-20-13



PLANS PREPARED BY:  
MARTY J. HUMPHRIES P.E. # 51976  
7932 240TH ST., O'BRIEN, FL 32071

MARGO RESIDENCE PLANS  
COLUMBIA COUNTY, FLORIDA

SHEET  
5  
OF  
10



TRUSS SCHEMATIC

 body of truss

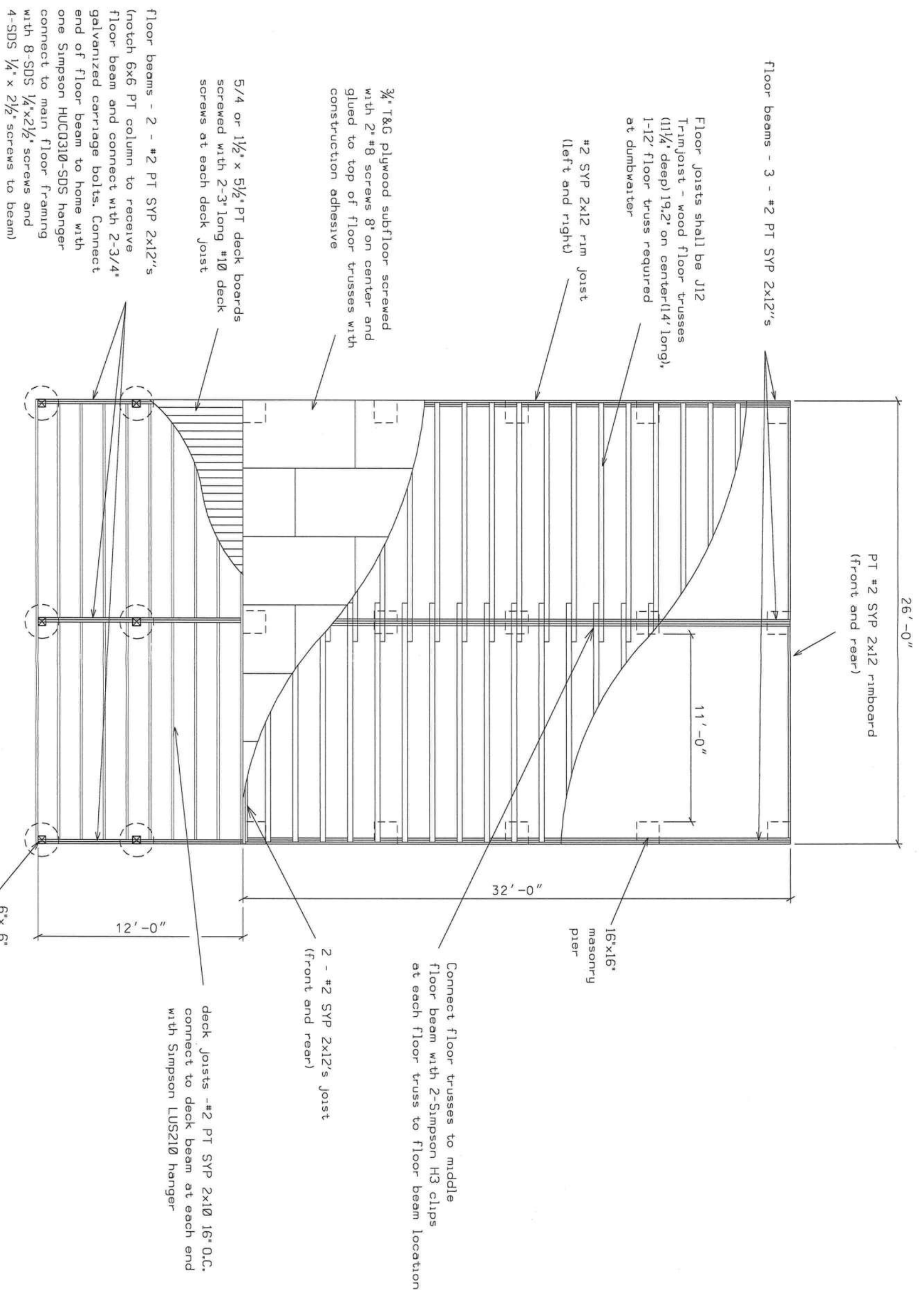
*Marty J. Humphries*  
6-20-13

MARGO RESIDENCE PLANS  
COLUMBIA COUNTY, FLORIDA

PLANS PREPARED BY:  
MARTY J. HUMPHRIES P.E. # 51976  
7932 240TH ST., O'BRIEN, FL 32071



SHEET  
6  
OF  
10



Floor beams - 3 - #2 PT SYP 2x12's

Floor joists shall be J12  
 Trim joist - wood floor trusses  
 (1 1/4" deep) 19,2' on center (14' long),  
 1-12' floor truss required  
 at dumbwater

#2 SYP 2x12 rim joist  
 (left and right)

3/4" T&G plywood subfloor screwed  
 with 2" #8 screws 8' on center and  
 glued to top of floor trusses with  
 construction adhesive

5/4 or 1 1/2" x 5 1/2" PT deck boards  
 screwed with 2-3" long #10 deck  
 screws at each deck joist

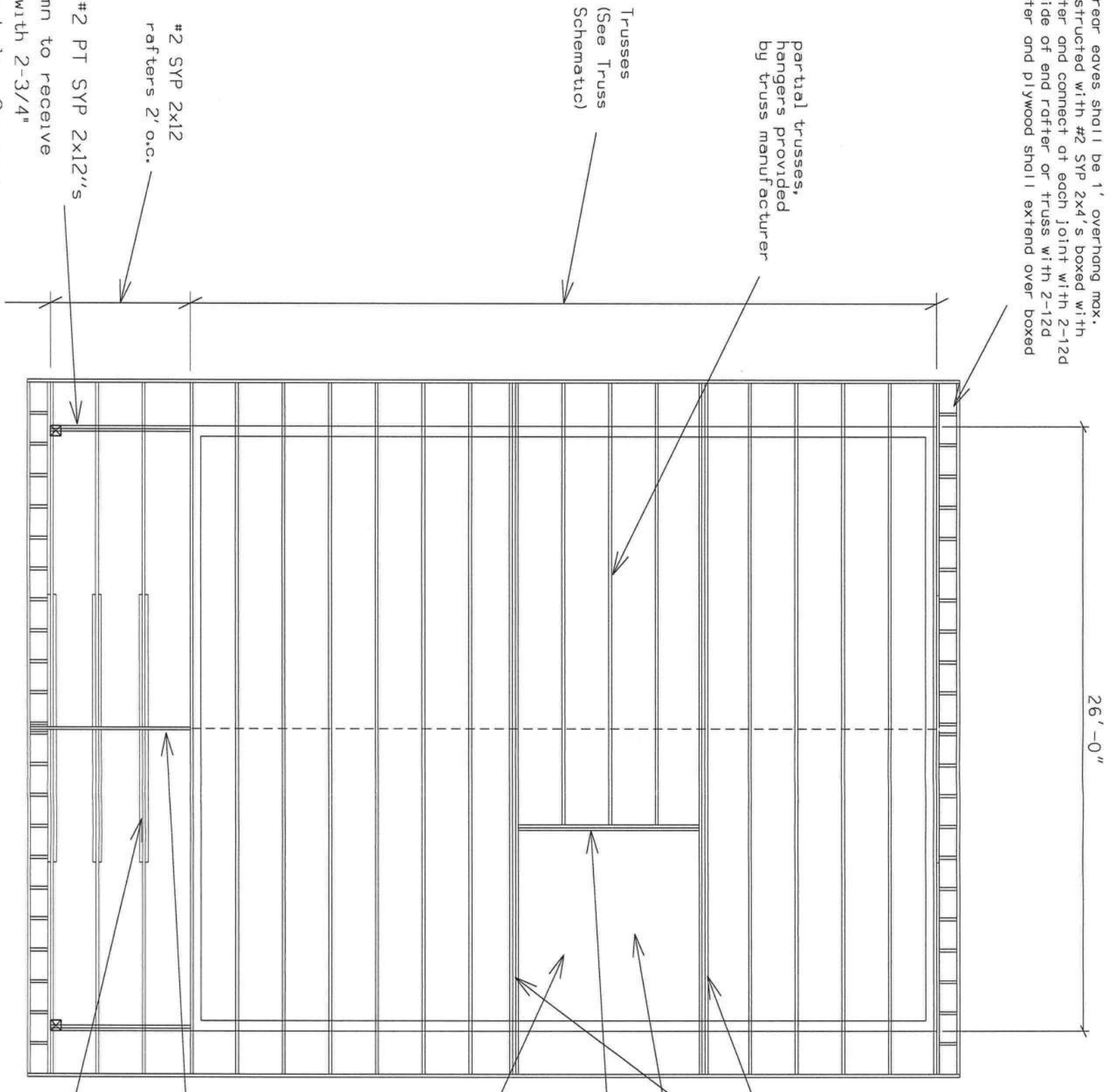
Floor beams - 2 - #2 PT SYP 2x12's  
 notch 6x6 PT column to receive  
 floor beam and connect with 2-3/4"  
 galvanized carriage bolts. Connect  
 end of floor beam to home with  
 one Simpson HUCQ310-SDS hanger  
 connect to main floor framing  
 with 8-SDS 1/4"x2 1/2" screws and  
 4-SDS 1/4" x 2 1/2" screws to beam)

# FLOOR FRAMING PLAN (N.T.S.)

NOTE: Same framing anchor requirements shall apply for second floor deck. 6x6 PT column from 1st floor deck to roof beam shall be notched and bolted with 2-3/4" galvanized carriage bolts to first floor deck beam and notched and bolted with 2-3/4" galvanized carriage bolts at second floor deck beam and at roof header.

*Marty J. Humphries*  
 6-20-13

Note: front and rear eaves shall be 1' overhang max. and shall be constructed with #2 SYP 2x4's boxed with 2x4's 16" on center and connect at each joint with 2-12d nails, nail to side of end rafter or truss with 2-12d nails 16" on center and plywood shall extend over boxed eave.



header beam - 2 - #2 PT SYP 2x12's (notch 6x6 PT column to receive beam and connect with 2-3/4" galvanized carriage bolts. Connect end of beam to home with one Simpson HUC0310-SDS hanger connect to main floor framing with 8-SDS 1/4"x2 1/2" screws and 4-SDS 1/4" x 2 1/2" screws to beam)

ROOF FRAMING PLAN (N.T.S.)

double/triple plate turss as required by truss plan

stairwell

double plate truss girder, hangers provided by truss manufacturer

frame roof over stairwell with #2 SYP 2x8's at 2' on center perpendicular to plate trusses. Install Simpson LUS210 hanger each end.

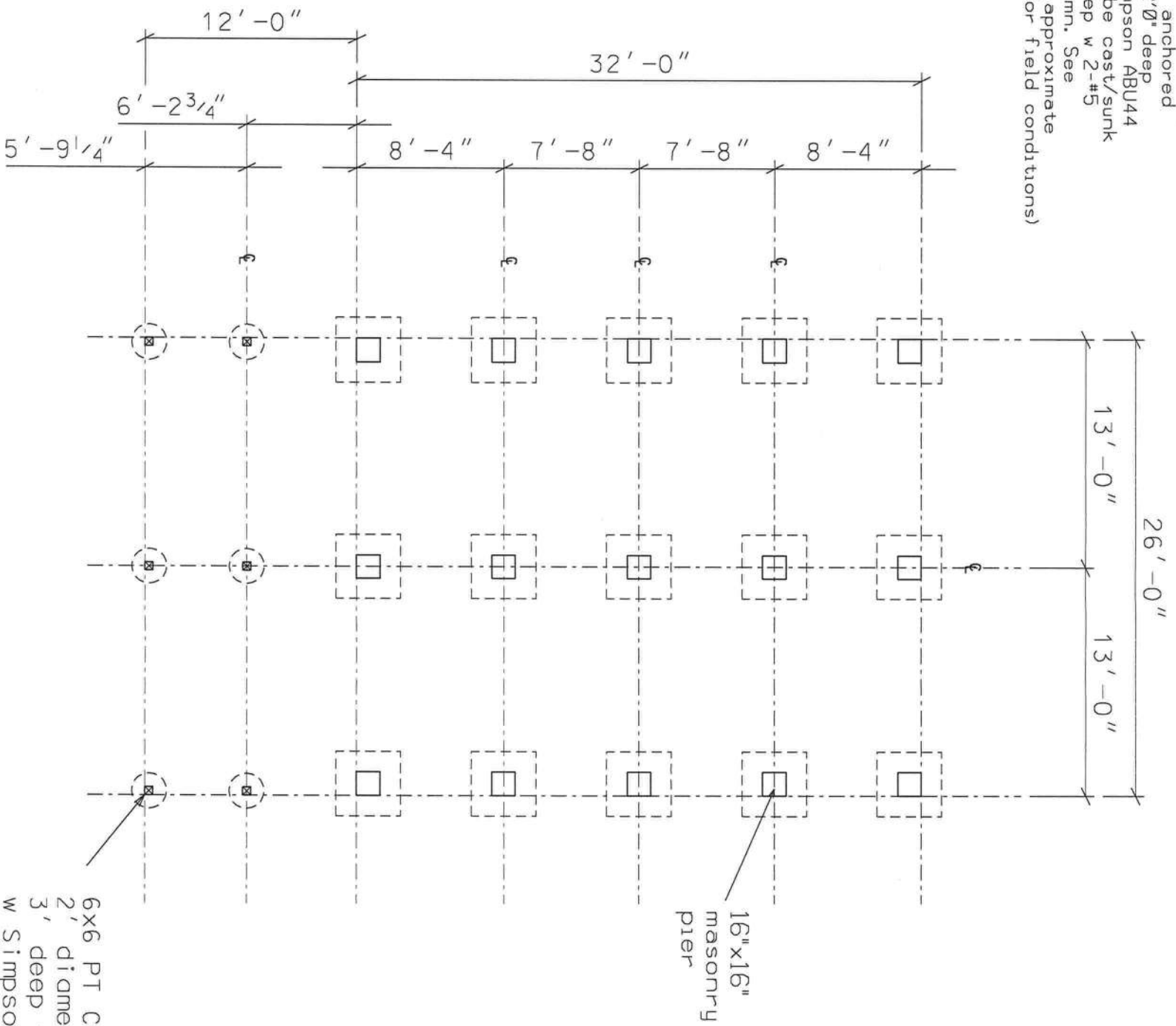
#2 SYP 2x12 ridge rafter  
Install Simpson LUS210 hanger at end wall

Install 2-#2 SYP 2x12 tie-beam 12' long connected to rafters w 3-5/8" galvanized carriage bolts. Install Simpson LSTA strap over ridge rafter connecting rafters together.

*Marty J. Humphries*  
6-20-13



NOTE: 4X4 PT stair columns shall either be anchored to 1'4" diam. x 2'0" deep footer with Simpson ABU44 or column may be cast/sunk in footer 2' deep w 2-#5 dowels thru column. See elevations for approximate layout. (adjust for field conditions)



**FOUNDATION PLAN**

6x6 PT Col.  
2' diameter x  
3' deep footer  
w Simpson ABU66  
anchor connecting  
column to footer

16"x16"  
masonry  
pier

*Marty J. Humphries*  
6-20-13

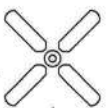















MARGO RESIDENCE PLANS  
COLUMBIA COUNTY, FLORIDA

PLANS PREPARED BY:  
MARTY J. HUMPHRIES P.E. # 51976  
7932 240TH ST., O'BRIEN, FL 32071



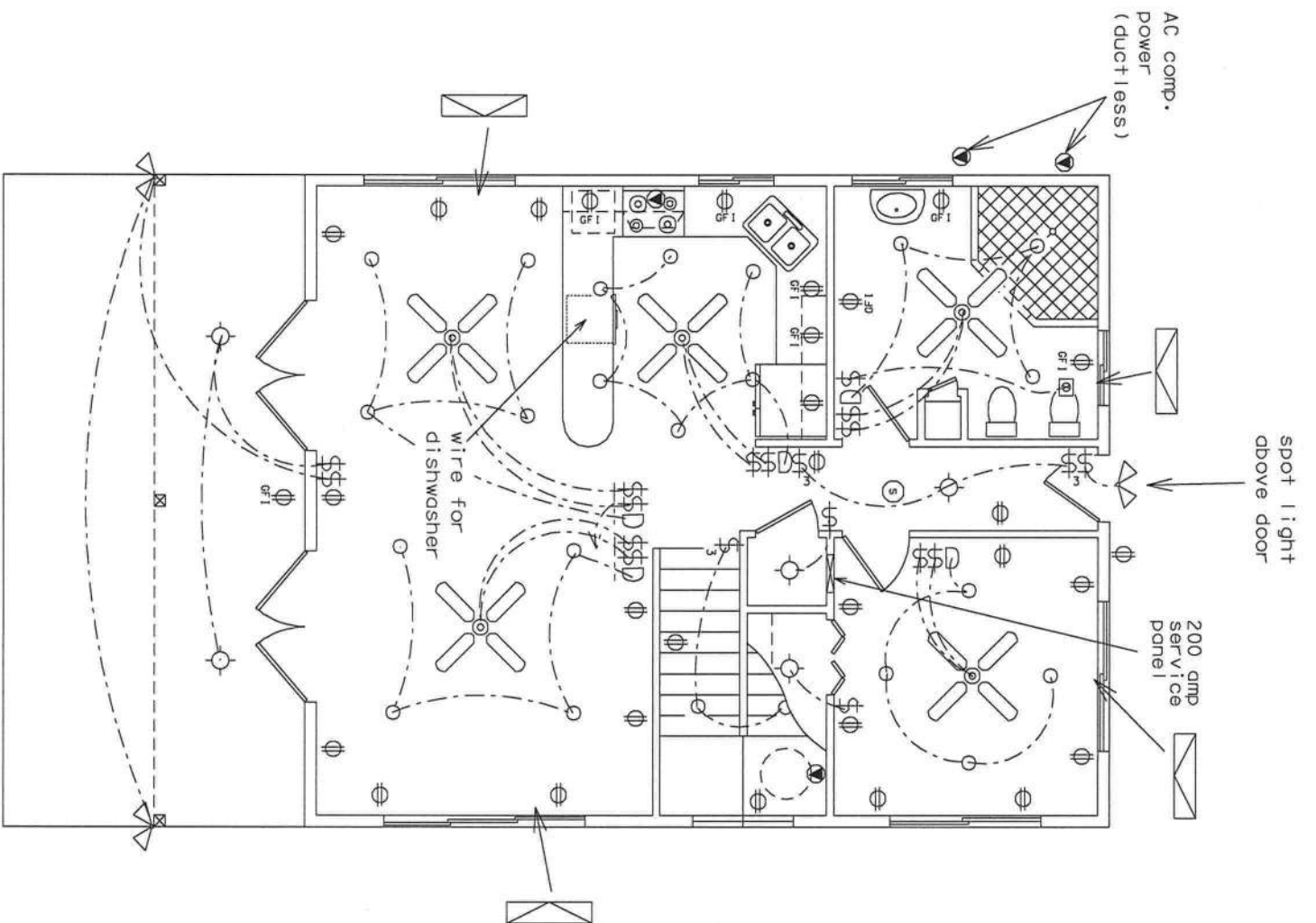
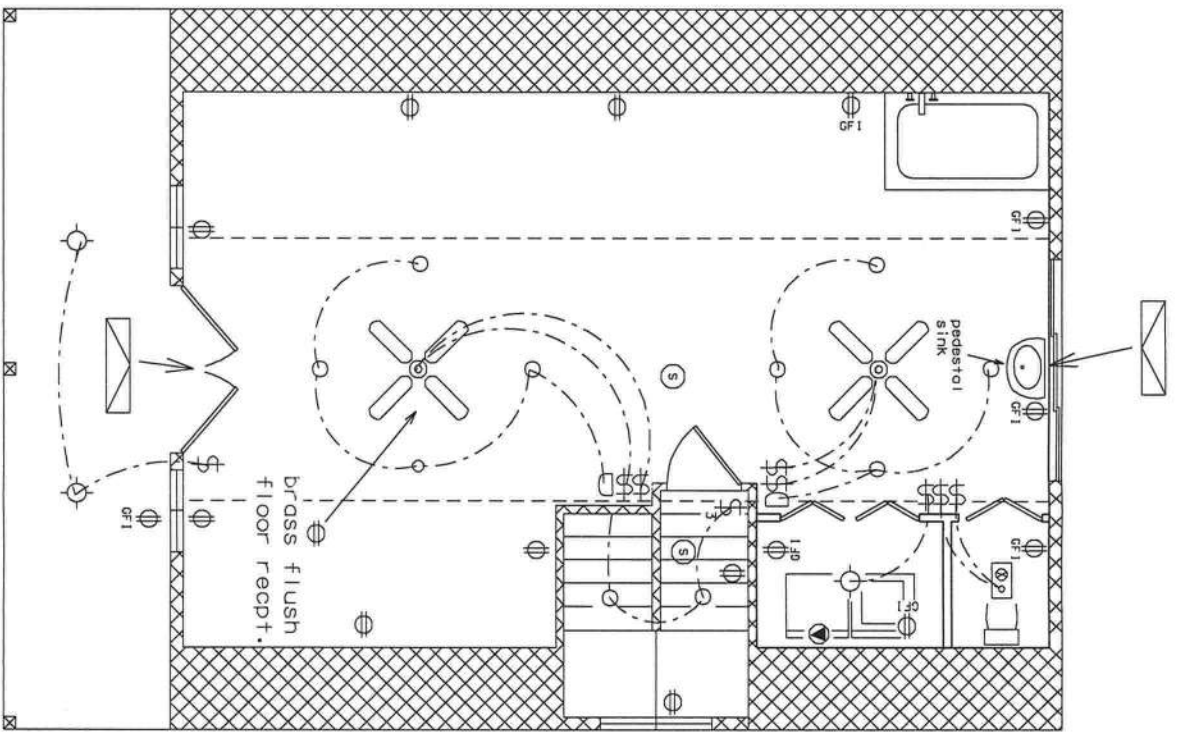
SHEET  
9  
OF  
10

# ELECTRICAL LEGEND

-  - CEILING FAN w LIGHTS
-  - LIGHT FIXTURE
-  - RECESSED CAN LIGHT FIXTURE
-  - SINGLE POLE SWITCH
-  - THREE-WAY SWITCH
-  - DIMMER SWITCH
-  - THREE-WAY DIMMER SWITCH
-  - RECEPT.
-  - GFI RECEPT OR PART OF A GFI CIRCUIT.
-  - SECURITY LIGHT
-  - EXHAUST WITH LIGHT
-  - EXHAUST
-  - 220 V.
-  - SMOKE DETECTOR (AC/DC and interconnected)
-  - TELEPHONE AND RG6 COAX
-  - AC INTERNAL AIR HANDLER(ductless system) (mounted above doors and windows) (install recept at each location)

## NOTES:

- 1.) ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF.
- 2.) ALL RECEPTS NOT A GFI OR PART OF A GFI CIRCUIT SHALL BE PART OF AN AFCI CIRCUIT.
- 3.) ALL ELECTRICAL CIRCUITS PLACED BELOW FLOOR OF HOME SHALL BE GFI.



# ELECTRICAL PLAN

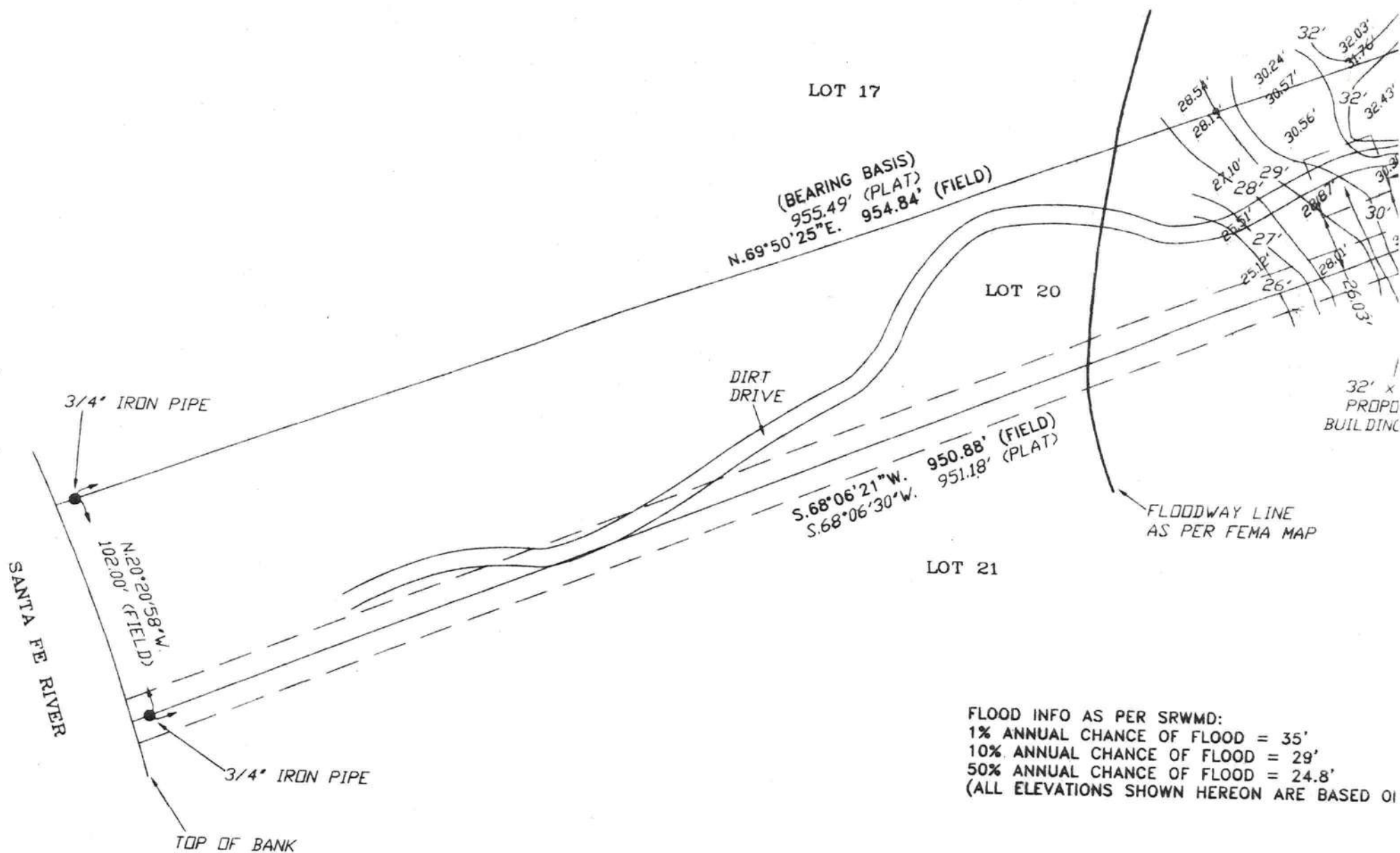
*Marty J. Humphries*  
6-20-13

DESCRIPTION:  
 LOT 20 OF "CEDAR SPRINGS SHORES-UNIT NO. 5" AS PER THE PLAT THEREOF  
 RECORDED IN PLAT BOOK 4, PAGE(S) 5-5B OF THE PUBLIC RECORDS OF COLUMBIA  
 COUNTY, FLORIDA.

INSERT  
 SCALE: 1"

SURVEYOR'S NOTES:

1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
2. BEARINGS ARE BASED ON SAID PLAT OF RECORD AND THE BEARING BASIS AS SHOWN HEREON.
3. THIS PARCEL IS IN THE FLOODWAY OF ZONE "AE" AND IS SUBJECT TO FLOODING. A BASE FLOOD ELEVATION IS ESTABLISHED TO BE 35 FEET AS PER FLOOD INSURANCE RATE MAP, DATED 4 FEBRUARY, 2009 FIRM PANEL NO. 12023C0469C & 12023C0488C. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
7. DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF.
8. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
9. THE ADJACENT OWNERSHIP INFORMATION AS SHOWN HEREON IS BASED ON THE COUNTY PROPERTY APPRAISERS GIS SYSTEM, UNLESS OTHERWISE DENOTED.



REVISED DRAWING ON 06/24/13.

CERTIFIED TO:

PETER MARGARITONDO

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPL  
 TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF  
 IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO

06/11/13

06/13/13

FIELD SURVEY DATE

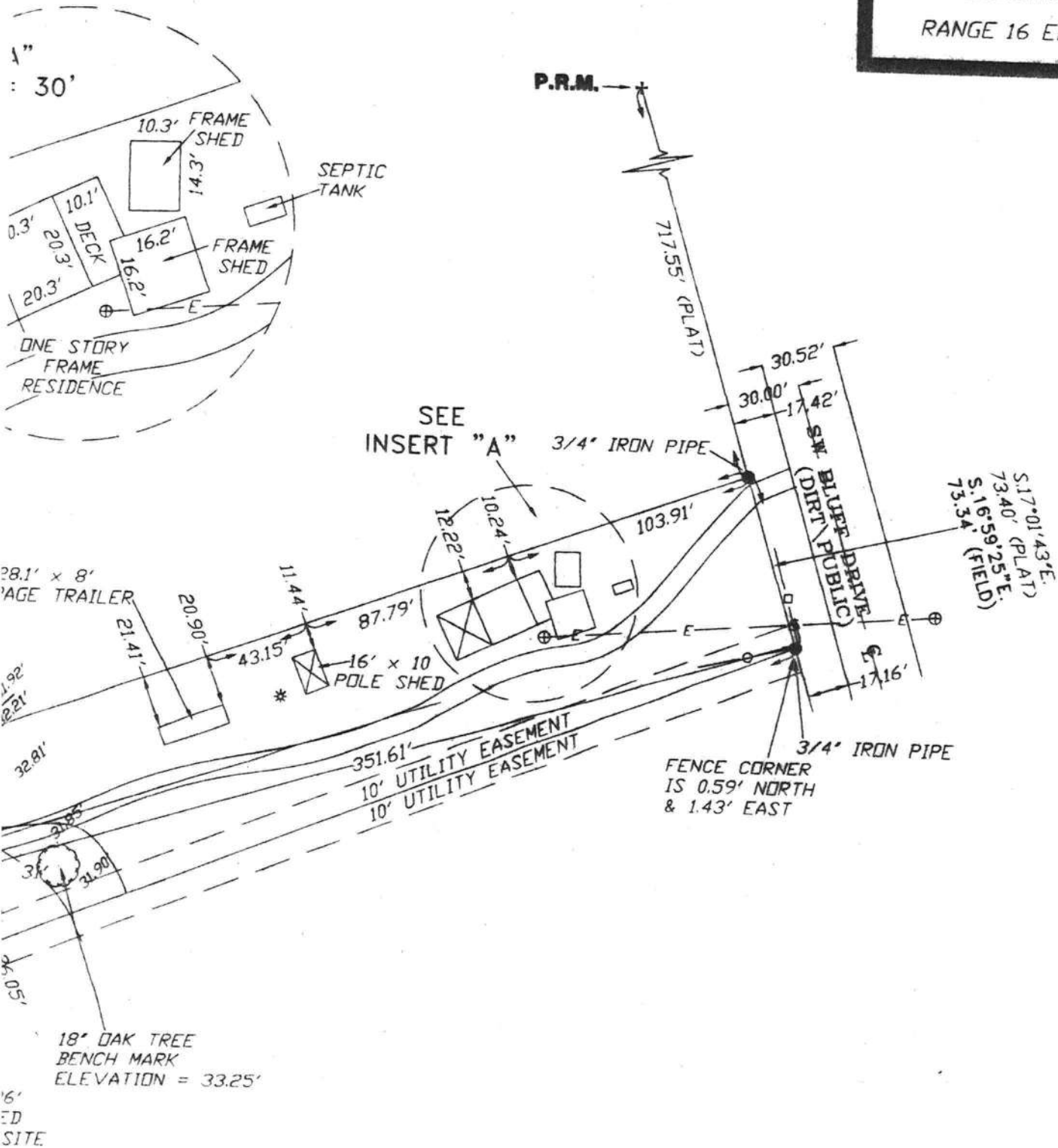
DRAWING DATE

L.  
 C.E.

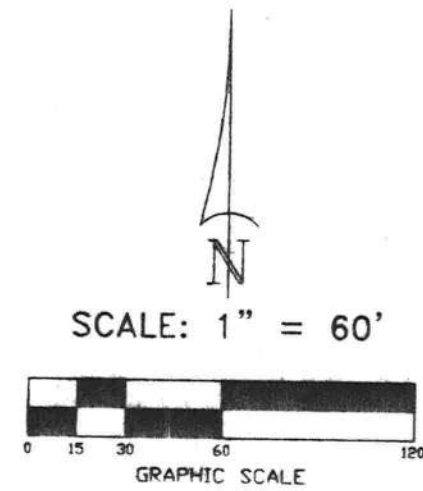
FIELD BOOK: 334 PAGE(S): 18-19

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SE  
 MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL

A BOUNDARY SURVEY IN SECTION 18, TOWNSHIP 7  
RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA



NGVD 88 DATUM)



SYMBOL LEGEND:			
■	4"x4" CONCRETE MONUMENT FOUND	⊕	CENTERLINE
□	4"x4" CONCRETE MONUMENT SET	--E--	ELECTRIC LINES
●	IRON PIPE FOUND	--X--	WIRE FENCE
○	IRON PIN AND CAP SET	--O--	CHAIN LINK FENCE
x	"X" CUT IN PAVEMENT	--□--	WOODEN FENCE
+	CALCULATED PROPERTY CORNER	---	SECTION LINE
⊙	NAIL & DISK	(PLAT)	AS PER A PLAT OF RECOR.
⊕	POWER POLE	(DEED)	AS PER A DEED OF RECOR.
⊗	WATER METER	(CALC.)	AS PER CALCULATIONS
⊙	UTILITY BOX	(FIELD)	AS PER FIELD MEASUREMENT
*	WELL	P.R.M.	PERMANENT REFERENCE MARK
⊕	SANITARY MANHOLE	P.C.P.	PERMANENT CONTROL POINT
+	SIGN POST		

SMALL CHARGE AND MEETS THE MINIMUM  
REQUIREMENTS OF PROFESSIONAL SURVEYORS AND MAPPERS  
AS PROVIDED IN SECTION 472.027, FLORIDA STATUTES.

*[Signature]*  
COTT BRITT, P.S.M.  
REGISTRATION # 5757

THIS IS A FLORIDA LICENSED SURVEYOR AND  
THIS MAP IS VALID ONLY AND IS NOT VALID.



# BRITT SURVEYING & MAPPING, LLC

LAND SURVEYORS AND MAPPERS, L.B. # 8016  
2086 SW MAIN BLVD, SUITE 112  
LAKE CITY, FLORIDA 32025

www.brittsurvey.com  
TELEPHONE: (386) 752-7163 FAX: (386) 752-5573

WORK ORDER # L-22672