DATE 04/03/2019

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000037949

APPLICANT JAMES BARKLEY PHONE 352.317.5532

ADDRESS 1588 SW FRY AVE FT. WHITE FL 32038

OWNER JAMES BARKLEY PHONE 352.317.5532

ADDRESS 1588 SW FRY AVENUE FT. WHITE FL 32038

CONTRACTOR JAMES BARKLEY PHONE 352.317.5532

LOCATION OF PROPERTY 47-S TO US 27,TL TO FRY AVENUE,TR AND IT'S THE 2ND LOT AFTER BUCCHI GLEN.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 135850.00

HEATED FLOOR AREA 2717.00 TOTAL AREA 2717.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 4'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT ____

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

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

PARCEL ID 10-7S-16-04172-004 SUBDIVISION ____

LOT ____ BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 5.01

		OWNER			
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor	
	19-0240	LH	TC	N	
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident	Time/STUP No.

COMMENTS: REPLACING EXISTING MOBILE HOME, MUST BE REMOVED 30 DAYS FROM CO ISSUANCE. 1 FOOT ABOVE ROAD.

Check # or Cash 244

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power ____ date/app. by

Foundation ____ date/app. by

Monolithic ____ (footer/Slab) date/app. by

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

Slab ____ date/app. by

Sheathing/Nailing ____ date/app. by

Framing ____ date/app. by

Insulation ____ date/app. by

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

Electrical rough-in ____ date/app. by

Heat & Air Duct ____ date/app. by

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

Pool ____ date/app. by

Permanent power ____ date/app. by

C.O. Final ____ date/app. by

Culvert ____ date/app. by

Pump pole ____ date/app. by

Utility Pole ____ date/app. by

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

Reconnection ____ date/app. by

RV ____ date/app. by

Re-roof ____ date/app. by

BUILDING PERMIT FEE $ 680.00 CERTIFICATION FEE $ 13.59 SURCHARGE FEE $ 13.59

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

PLAN REVIEW FEE $ 170.00 DP & FLOOD ZONE FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 952.18

INSPECTORS OFFICE ____ CLERKS OFFICE ____

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

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.

Front 30'
Sides 25'
Rear 25'

Columbia County New Building Permit Application

For Office Use Only Application # 1903-71 Date Received 3-21-19 By LH Permit # 37949

Zoning Official JMD Date 3-25-19 Flood Zone X Land Use A8 Zoning A-3

FEMA Map # N/A Elevation N/A MFE 1 above Road River N/A Plans Examiner TLC Date 3-28-19

Comments Replacing existing Mobile Home, must be removed 30 Days from CO.

☐ NOC ☐ EH ✓ Deed or PA ✓ Site Plan ☐ ~~State Road Info~~ ✓ Existing Well letter ✓ 911 Sheet ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ ~~Letter of Auth. from Contractor~~ ☐ F W Comp. letter

✓ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ✓ App Fee Paid ✓ Sub VF Form

Septic Permit No. 19-0240 OR City Water ☐ Fax

Applicant (Who will sign/pickup the permit) JAMES BARKLEY Phone 352-317-5532

Address 1588 SW FRY AVE FORT WHITE, FL 32038

Owners Name JAMES BARKLEY Phone 352-317-5532

911 Address 1588 SW FRY AVE FORT WHITE, FL 32038

Contractors Name OWNER BUILDER Phone

Address

Contractor Email jvbonline@hotmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Don Alan Yanskey 2421 NW 49th AVE Gainesville, FL 32605

Mortgage Lenders Name & Address

Circle the correct power company ☐ FL Power & Light ✓ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy

Property ID Number 10-7S-16-04172-004 Estimated Construction Cost 130.000

Subdivision Name Lot Block Unit Phase

Driving Directions from a Major Road FORT WHITE EAST ON HWY27 1.7mi RIGHT ON SW FRY AVE 1.5mi TO 1588 SW FRY AVE

Construction of SINGLE FAMILY HOME Commercial OR X Residential

Proposed Use/Occupancy RESIDENCE Number of Existing Dwellings on Property 2

Is the Building Fire Sprinkled? N If Yes, blueprints included Or Explain

Circle Proposed ☐ Culvert Permit or ☐ Culvert Waiver or ☐ D.O.T. Permit or ✓ Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 325' Side 113' Side 143 Rear 267'

Number of Stories 1 Heated Floor Area 2717 Total Floor Area 2717 Acreage 5.01

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)

LH - Left James a message on 3-20-19 Tried email also

Columbia County Building Permit Application

CODE: Florida Building Code 2017 and the 2014 National Electrical Code.

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.

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 pursued in good faith or a permit has been issued.

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 CONTRACTOR AND AGENT: ***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.

JAMES BARKLEY _____ _____

Print Owners Name **Owners Signature**

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

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.

_____ **Contractor's License Number** _____

Contractor's Signature **Columbia County Competency Card Number** _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20___.

Personally known ☐ **or Produced Identification** _____

_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1903-71 JOB NAME BARKLEY RESIDENCE

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. 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 general contractors permit.

NOTE: *It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.*
Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

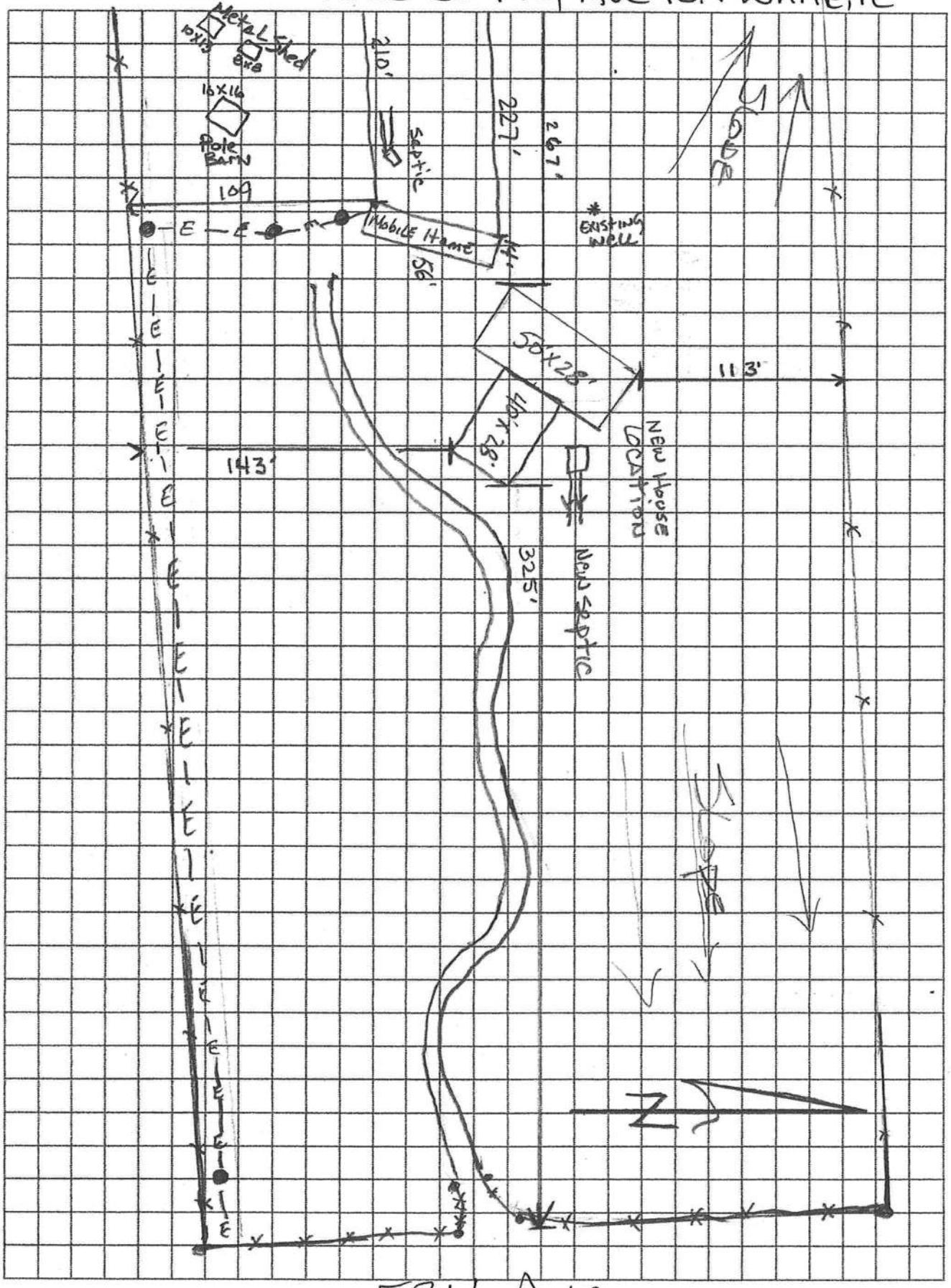
Violations will result in stop work orders and/or fines.

ELECTRICAL ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License#: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

Ref: F.S. 440.103; ORD. 2016-30

Site Plan

1588 SW FRY Ave Fort White, FL



Columbia County Property Appraiser

Jeff Hampton

2018 Tax Roll Year
updated: 2/8/2019

Parcel: << **10-7S-16-04172-004** >>

Aerial Viewer Pictometery Google Maps

Owner & Property Info

Result: 1 of 1

Owner	**BARKLEY JAMES V & MICHELLE M** 1588 SW FRY AVE FT WHITE, FL 32038		
Site	1588 FRY AVE, FT WHITE		
Description*	COMM AT SE COR OF SEC, RUN W 1323.38 FT FOR POB, CONT WEST 672.00 FT, N 325.26 FT, EAST 672.00 FT, S 325.26 FT TO POB 708-509, 1045-2206, CT 1064- 1738, QC 1092-1597, WD 1092- 2704, QC 1113-2000, QC 1319- 444,		
Area	5.01 AC	S/T/R	10-7S-16E
Use Code**	MOBILE HOM (000200)	Tax District	3

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2018 Certified Values		2019 Working Values	
Mkt Land (2)	$31,804	Mkt Land (2)	$31,804
Ag Land (0)	$0	Ag Land (0)	$0
Building (1)	$20,517	Building (1)	$20,632
XFOB (0)	$0	XFOB (0)	$0
Just	$52,321	Just	$52,436
Class	$0	Class	$0
Appraised	$52,321	Appraised	$52,436
SOH Cap [?]	$2,269	SOH Cap [?]	$1,433
Assessed	$50,052	Assessed	$51,003
Exempt	HX H3 OTHER $30,052	Exempt	HX H3 OTHER $31,003
Total Taxable	county:$20,000 city:$20,000 other:$20,000 school:$20,052	Total Taxable	county:$20,000 city:$20,000 other:$20,000 school:$21,003

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
7/26/2016	$100	1319/0444	QC	I	U	11
8/14/2006	$60,000	1092/2704	WD	V	Q	
8/10/2006	$100	1092/1597	QC	V	U	01
10/26/2005	$25,000	1064/1738	CT	V	U	01

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SFR MANUF (000200)	2006	784	784	$20,632

*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Legend

2016Aerials

Roads
- Roads
- others
- Dirt
- Interstate
- Main
- Other
- Paved
- Private

Parcels

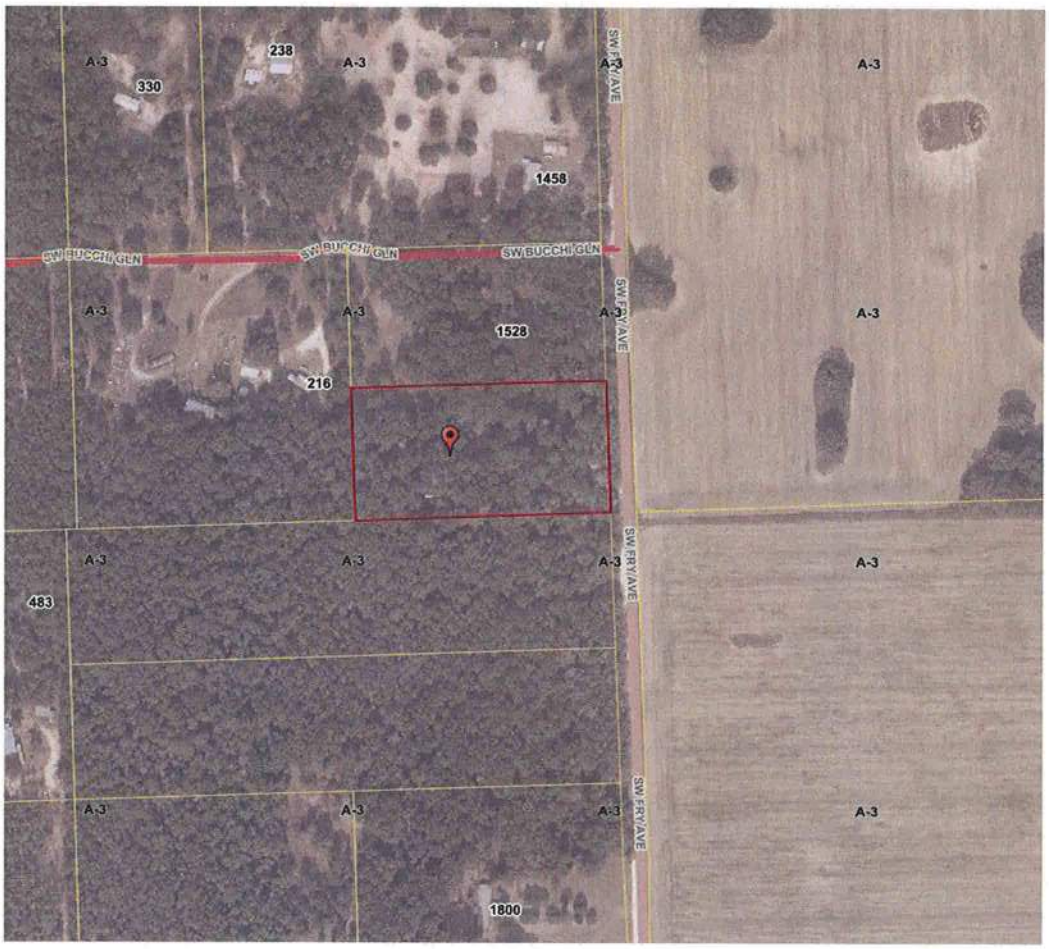
DevZones1
- others
- A-1
- A-2
- A-3
- CG
- CHI
- CI
- CN
- CSV
- ESA-2
- I
- ILW
- MUD-I
- PRD
- PRRD
- RMF-1
- RMF-2
- RO
- RR
- RSF-1
- RSF-2
- RSF-3
- RSF/MH-1
- RSF/MH-2
- RSF/MH-3
- DEFAULT

Addresses

2018 Flood Zones
- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH

Columbia County, FLA - Building & Zoning Property Map

Printed: Mon Mar 25 2019 09:40:05 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 10-7S-16-04172-004

Owner: BARKLEY JAMES V & MICHELLE M

Subdivision:

Lot:

Acres: 4.51571226

Deed Acres: 5.01 Ac

District: District 2 Rocky Ford

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

SS0809/2287

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

PERMIT NO. 19-1140
DATE PAID: 3/21/19
FEE PAID: 500.00
RECEIPT #: 1484561

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: JAMES BARKLEY

AGENT: _____ TELEPHONE: 352-317-5532

MAILING ADDRESS: 1588 SW FRY Ave Fort White FL 32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: _____ BLOCK: _____ SUBDIVISION: _____ PLATTED: _____

PROPERTY ID #: 10-7S-16-04172-004 ZONING: _____ I/M OR EQUIVALENT: [Y /(N)]

PROPERTY SIZE: 5.01 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y /(N)] DISTANCE TO SEWER: _____ FT

PROPERTY ADDRESS: 1588 SW FRY AVE FORT WHITE, FL 32038

DIRECTIONS TO PROPERTY: Fort White EAST ON HWY 27 1.7 miles turn right ON SW FRY AVE 1.5 miles to 1588

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	~~TRAILER HOME~~	~~2~~	~~768~~	~~EXISTING~~
2	SINGLE FAMILY HOME	4	2717	
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: _____ DATE: 3/21/19

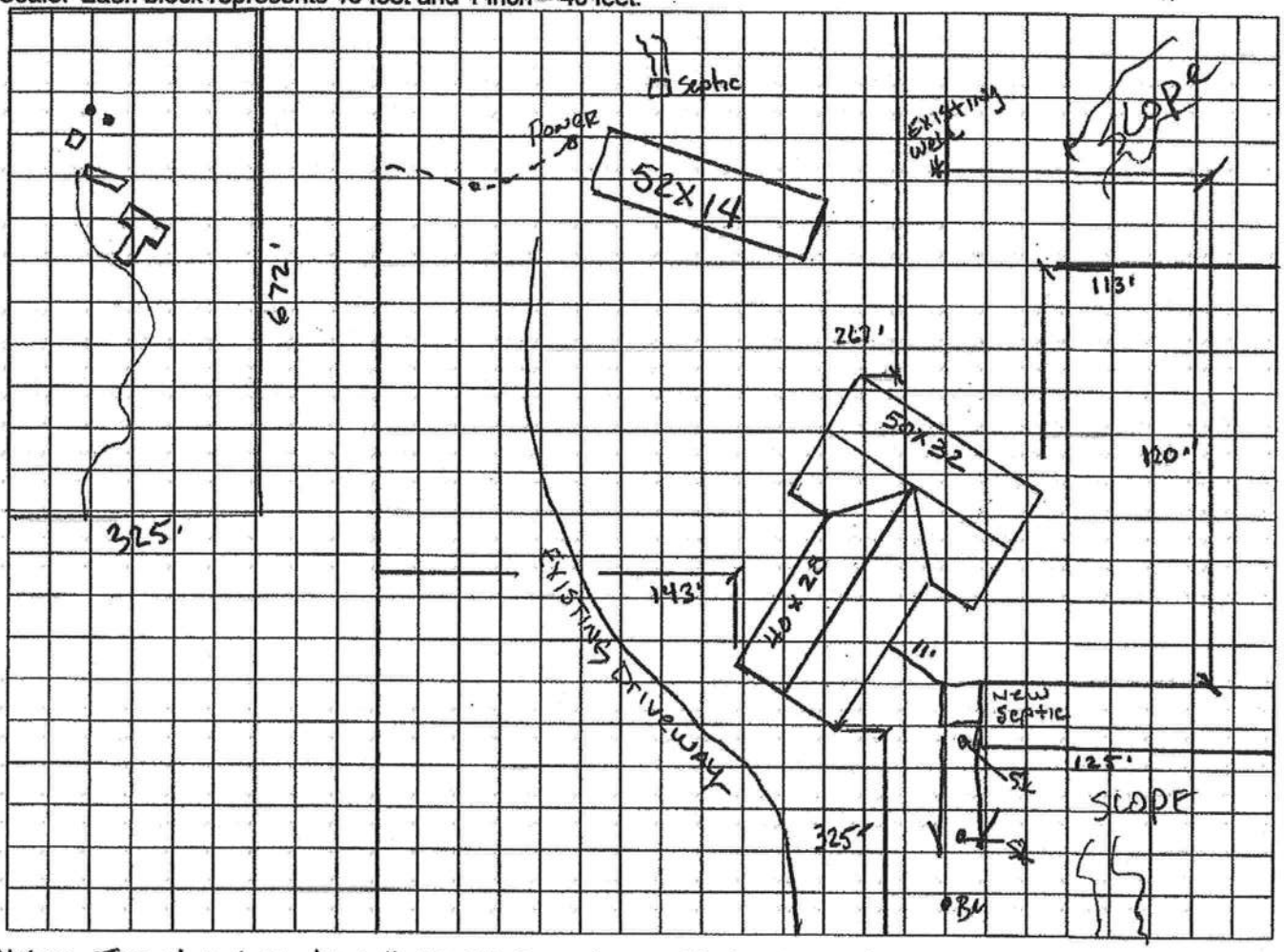
DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 19-0946

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

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



Notes: Two Metal sheds & 16x16 Pole Barn shown in Five Acer View.

Site Plan submitted by: James Barkley Owner 3/21/19

Plan Approved ✓ Not Approved ____ Date 3/28/19

By [signature] ESI Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018 AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. 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, FBC 1609.3.1 THRU 1609.3.3.

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

Revised 7/1/18

Website: http://www.columbiacountyfla.com/BuildingandZoning.asp

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

Items to Include- Each Box shall be Circled as Applicable

Select From Drop down

1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	**Condition space (Sq. Ft.)** 2717		**Total (Sq. Ft.) under roof** 2717	Yes	No	NA

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 107.1.

Site Plan information including:

4	Dimensions of lot or parcel of land	Yes		
5	Dimensions of all building set backs	Yes		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements. MAP INCLOSED	Yes		
7	Provide a full legal description of property.	Yes		

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**	Yes	No	NA

Select From Drop down

9	Basic wind speed (3-second gust), miles per hour	Yes		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	NA		
11	Wind importance factor and nature of occupancy	Yes		
12	The applicable internal pressure coefficient, Components and Cladding	Yes		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	Yes		

Elevations Drawing including:

14	All side views of the structure	Yes		
15	Roof pitch	Yes		
16	Overhang dimensions and detail with attic ventilation	Yes		
17	Location, size and height above roof of chimneys	NA		
18	Location and size of skylights with Florida Product Approval	NA		
19	Number of stories	Yes		
20	*Building height from the established grade to the roofs highest peak* 20'	No		

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	Yes		
22	Raised floor surfaces located more than 30 inches above the floor or grade	Yes		
23	All exterior and interior shear walls indicated	Yes		
24	Shear wall opening shown (Windows, Doors and Garage doors)	Yes		
25	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.	Yes		
26	Safety glazing of glass where needed Bath + kitchen order copy inclosed	Yes		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	NA		
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	NA		
29	Identify accessibility of bathroom (see FBCR SECTION 320)	Yes		

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 plans
(see Florida product approval form)

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

FBCR 403: Foundation Plans

		Select From Drop down		
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	Yes		
31	All posts and/or column footing including size and reinforcing	Yes		
32	Any special support required by soil analysis such as piling.	~~Yes~~	N/A	
33	Assumed load-bearing valve of soil 2500 PSF Pound Per Square Foot	Yes		
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) 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	Yes		

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

37	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. **Protection shall be provided by registered termiticides**	Yes		

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

38	Show all materials making up walls, wall height, and Block size, mortar type (mortar type S)	Yes		
39	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	Yes		

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

40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	No		
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers	Yes		
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	Yes		
43	Attachment of joist to girder	Yes		
44	Wind load requirements where applicable	-		
45	Show required under-floor crawl space	Yes		
46	Show required amount of ventilation opening for under-floor spaces	-		
47	Show required covering of ventilation opening	-		
48	Show the required access opening to access to under-floor spaces 1 EXISTING ACCESS	-		
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing 3/4" T+G Advantech 4'x8'	Yes		
50	Show Draftstopping, Fire caulking and Fire blocking	-		
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	-		
52	Provide live and dead load rating of floor framing systems (psf). .	Yes		

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		Select from Drop down		
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	Yes		
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	Yes		
55	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	Yes		
56	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	Yes		
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	-		
58	Indicate where pressure treated wood will be placed	Yes		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	Yes		
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	-		

FBCR :ROOF SYSTEMS:

61	Truss design drawing shall meet section FBC-R 802.10. 1 Wood trusses	Yes		
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	Yes		
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	Yes		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	-		
65	Provide dead load rating of trusses	Yes		

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

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		
		Select from Drop Down		
74	Show the insulation R value for the following areas of the structure	-		
75	Attic space	Yes		
76	Exterior wall cavity	Yes		
77	Crawl space	No		

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

83	Pump motor horse power (EXISTING) UNK	-		
84	Reservoir pressure tank gallon capacity	-		
85	Rating of cycle stop valve if used	-		

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	Yes		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by **Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A**	Yes		
88	Show the location of smoke detectors & Carbon monoxide detectors	Yes		
89	Show service panel, sub-panel, location(s) and total ampere ratings	Yes		
90	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. **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	Yes		
91	Appliances and HVAC equipment and disconnects	Yes		
92	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 **Combination arc-fault circuit interrupter,** Protection device.	Yes		

The Home Depot Special Order Quote

Customer Agreement #: H0270-31068
Printed Date: 7/29/2017

Customer:	JAMES BARKLEY
Address:	1588 SW FRY AVE FORT WHITE, FL 32038
Phone 1:	352-317-5532
Phone 2:	352-317-5532
Email:	BARJIBUBRO-JB@YAHOO.COM

Store:	0270
Associate:	PATRICK
Address:	7107 NW 4TH BLVD GAINESVILLE, FL 32607
Phone:	352-332-7440

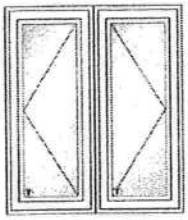
Pre-Savings Total:	$6,520.44
Total Savings:	($788.05)
Pre-Tax Price:	$5,732.39

Price Valid Through: 8/9/2017

All prices are subject to change. Customer is responsible for verifying product selections. The Home Depot will not accept returns for the below products.

Andersen WINDOWS • DOORS
American Craftsman by Andersen WINDOWS • DOORS
Catalog Version 01

C Kitchen
40 3/4 x 35 15/16
40 x 36 (1)



(1)

Frame Width = 20 3/8 x 2
Frame Height = 48

Kitchen + Bath

Line Number	Item Summary	Was Price	Now Price	Quantity	Total Savings	Total Price
100-1	70 Series NF Twin Casement-70NCW2 , Left-Right Unit 1: Left Unit 2: Right , 40.75 x 48 , / White - White	$567.85	$482.67	2	($170.36)	$965.34
	Unit 100 Total:	$567.85	$482.67		($170.36)	$965.34

D BATH

Begin Line 100 Description

70 Series NF Twin Casement-70NCW2
40.75 x 48
Installation Zip Code = 32606
U.S. ENERGY STAR® Climate Zone = Southern
ENERGY STAR Required = No
Frame Width = 20 3/8
Frame Height = 48
Unit 1: Unit Code = 34x40
Unit 1: Combination Operation / Venting = Left-Right
Unit 1: Venting / Handing = Left
Unit 1: Hinge Style = Hinge with Wash Mode
Unit 1: Hinge Type = Standard
Unit 2: Unit Code = 34x40
Unit 2: Combination Operation / Venting = Left-Right
Unit 2: Venting / Handing = Right
Unit 2: Hinge Style = Hinge with Wash Mode
Unit 2: Hinge Type = Standard
Exterior Color = White
Interior Finish Color = White
Performance Grade (PG) Rating = PG50
Glass Construction Type = Dual Pane
Glass Option = Low-E Sun
High Altitude Breather Tubes = No
Glass Strength = Tempered
Glass Tint = No Tint
Specialty Glass = None
Gas Fill = Air
None
Insect Screen Type = Full Screen
Drywall Return = No
Extension Jamb Type = None
Re-Order Item = No
Room Location = Bathroom #2
Unit U-Factor = 0.29
Unit Solar Heat Gain Coefficient (SHGC) = 0.18
U.S. ENERGY STAR Certified = Yes
Clear Opening Width = 8.531
Clear Opening Height = 42.75
Clear Opening Area = 2.532641
Vertical
Common Frame
0" thick, 48" length
SKU = 261615
Vendor Name = S/O SILVER LINE BLDG PRD
Vendor Number = 60660514
Customer Service = (888) 888-7020
Catalog Version Date = 04/24/2017

End Line 100 Description

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 performed.

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

****ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.****

Select from Drop down

93	**Building Permit Application** A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a **$15.00** application fee. The completed application with attached documents and application fee can be mailed.	Yes		
94	**Parcel Number** The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	Yes		
95	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	-		
96	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031	NA		
97	**Toilet facilities shall be provided for all construction sites**	Yes		
98	**Town of Fort White** (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.	NA		
99	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting 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 (Municode.com)	NA		
100	**CERTIFIED FINISHED FLOOR ELEVATIONS** 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.	NA		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**	NA		
102	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. 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 (**$50.00**) 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. EXISTING	NA		
103	**911 Address:** An application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125. EXISTING	NA		

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding

( ) Addition, Alteration, Modification or other Improvement

( ) Commercial, Cost of Construction_____ for construction of_____

( ) Other_____

I James Barkley, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Owner Builder Signature Date 3/21/19

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification _____

Notary Signature _____ Date 3/21/19 (Seal)

LAURIE HODSON
MY COMMISSION # FF 976102
EXPIRES: July 14, 2020
Bonded Thru Notary Public Underwriters

FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative_____

Revised: 7-1-15
DISCLOSURE STATEMENT 15
Documents: B&Z Forms

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING Front	Steves & Sons	Entry Door 36in. x 80in. Steel Prehung	FL17903.3
~~B. SLIDING~~ Back	Masonite	Entry Door 36in. x 80in. Steel Prehung	FL4904.3
C. SECTIONAL/ROLL UP			
D. OTHER Patio Door	MP Doors	Patio Door 60in. x 80in. 3/4 lite Hinged	FL14752.4
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT	Anderson	Model 70NCW 700 Series	FL11821
D. FIXED	Anderson	Model 70NCW 70 Series 50x50 Picture	FL19702.1
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	James Hardie	Lap siding Cemplank	FL13192
B. SOFFITS	James Hardie	Hardie Soffit	FL13265
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER	James Hardie	Reveal Panel	FL19901
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL	Snap-Clad	Snap-Clad Steel Panels & Hardware	See NOA on EAC Roofing Co.
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	See attached sheet		
B. WOOD ANCHORS			
C. TRUSS PLATES	See Truss Drawings		
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS	Dupont Tyvek	House Wrap	

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

NOTES: _____

Truss and Wood Anchors and Connectors

Simpson Strong-tie	H2.5A	FL10456.2
Simpson Strong-tie	H3	FL10456.2
Simpson Strong-tie	LSTA18Z	FL13872.7
Simpson Strong-tie	LTS12	FL13872.11
Simpson Strong-tie	LU24	FL10655.12
Simpson Strong-tie	RBC	FL104446

UNIVERSAL
ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review
4475 Southwest 35th Terrace, Gainesville, FL 32608 - P: 352.372.3392 - F: 352.336.7914

UES Project No.: 0210.1800071.0000
Date Typed: May 29, 2018

Construction Materials Testing Services
FIELD AND LABORATORY REPORT COVER PAGE

Client: Barkley Associates
1588 SW Fry Avenue
Fort White, FL 32038

Project: 1588 SW Fry Avenue, CSD
1588 SW Fry Avenue, Fort White, Columbia County, FL

As requested, Universal Engineering Sciences, Inc. (UES) representative(s) performed construction materials testing and/or field inspection services on the above project. Testing results and/or inspection observations are reported on the attached sheets. The contents of this package are summarized below:

Scope of Work

Work Order No.	Date	Type of Report
1045159-1	05/11/2018	Field Inspection Report

We hope this information is sufficient for your immediate needs. If you have any questions, please do not hesitate to contact the undersigned or Jeannine Seider.

Sincerely,
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for
FILE COPY
Code Compliance
PLANS EXAMINER

KEITH L. BUTTS, P.E.
LICENSE
No. 53986
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Keith L. Butts, P.E. 5-29-18
STATE OF FLORIDA
Professional Engineer No. 53986

This item has been electronically signed and sealed by Keith L. Butts, P.E. using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Attachments (1)
js

UNIVERSAL
ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review
4475 Southwest 35th Terrace, Gainesville, FL 32608 - P: 352.372.3392 - F: 352.336.7914

UES Project No: 0210.1800071.0000
UES Report No: 02-1045159

Activity Record

Client: Barkley Associates
1588 SW Fry Avenue
Fort White, FL 32038

Project: 1588 SW Fry Avenue, CSD
1588 SW Fry Avenue, Fort White, Columbia County, FL

Date of Activity: 05/11/2018

Technician: James Brewer

As Requested, a Universal Engineering Sciences Technician was present at the above referenced location for the purpose of locating reinforcing steel.

A reinforcing steel scan of the foundation was performed at areas exposed alongside the foundation exterior and interior walls. The scan was conducted utilizing the Profoscope Model PS02-003-0606-BO. Based on the results of the rebar scan there was no detection of vertical dowels in the foundation walls. The scan did detect one #5 horizontal bar on each side of the foundation walls appearing to be continuous, approximately 8 inches below the top of the foundation.

A scan was performed on the CMU stem wall on top of the foundation. The scan detected apparent #5 vertical bars at 4' centers within the stem wall. A #5 bar appeared to be installed at each corner of the stem wall. The vertical dowels appeared to be present from the top of the foundation to the top of the CMU stem wall.

This test was performed without deviation from ASTM procedures.

Project Summary
Entire House
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Notes: Specific model numbers listed in these reports have been used for design purposes only and do not represent the actual equipment model numbers that should be installed. The homeowner and installing HVAC contractor should determine the actual equipment match ups to be installed.

Design Information

Weather: Gainesville Rgnl, FL, US

Winter Design Conditions

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

Summer Design Conditions

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

Heating Summary

Structure	28059 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	28059 Btuh

Sensible Cooling Equipment Load Sizing

Structure	21533 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	21533 Btuh

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 1
Pressure / AVF	50 Pa / 3266 cfm

	Heating	Cooling
Area (ft²)	2732	2732
Volume (ft³)	30145	30145
Air changes/hour	0.51	0.28
Equiv. AVF (cfm)	254	141

Latent Cooling Equipment Load Sizing

Structure	5472 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	5472 Btuh
Equipment Total Load (Sen+Lat)	27005 Btuh
Req. total capacity at 0.81 SHR	2.2 ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref.	n/a
Efficiency	
Heating input	
Heating output	
Temperature rise	
Actual air flow	
Air flow factor	
Static pressure	
Space thermosta	

AC Unit Location Change

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.

Building Analysis
Entire House
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Design Conditions

Location:
Gainesville Rgnl, FL, US
Elevation: 164 ft
Latitude: 30°N

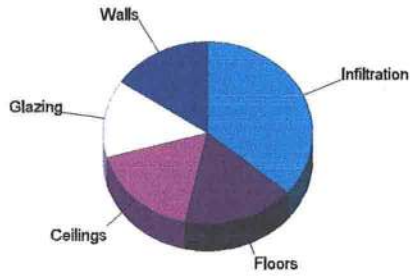
Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	50	50
Moisture difference (gr/lb)	32.5	46.9

Infiltration:	
Method	Blower door
Shielding / stories	3 (partial) / 1
Pressure / AVF	50 Pa / 3266 cfm

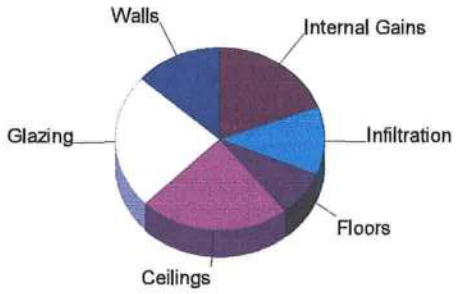
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.4	4365	15.6
Glazing	10.7	3870	13.8
Doors	0	0	0
Ceilings	1.7	4828	17.2
Floors	1.8	4825	17.2
Infiltration	4.6	10171	36.2
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	
Total		**28059**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.6	2904	13.5
Glazing	14.4	5172	24.0
Doors	0	0	0
Ceilings	1.7	4993	23.2
Floors	0.6	1709	7.9
Infiltration	1.2	2605	12.1
Ducts		0	0
Ventilation		0	0
Internal gains		4150	19.3
Blower		0	0
Adjustments		0	
Total		**21533**	**100.0**



Latent Cooling Load = 5472 Btuh
Overall U-value = 0.064 Btuh/ft²-°F

Data entries checked.

AED Assessment
Entire House
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Design Conditions

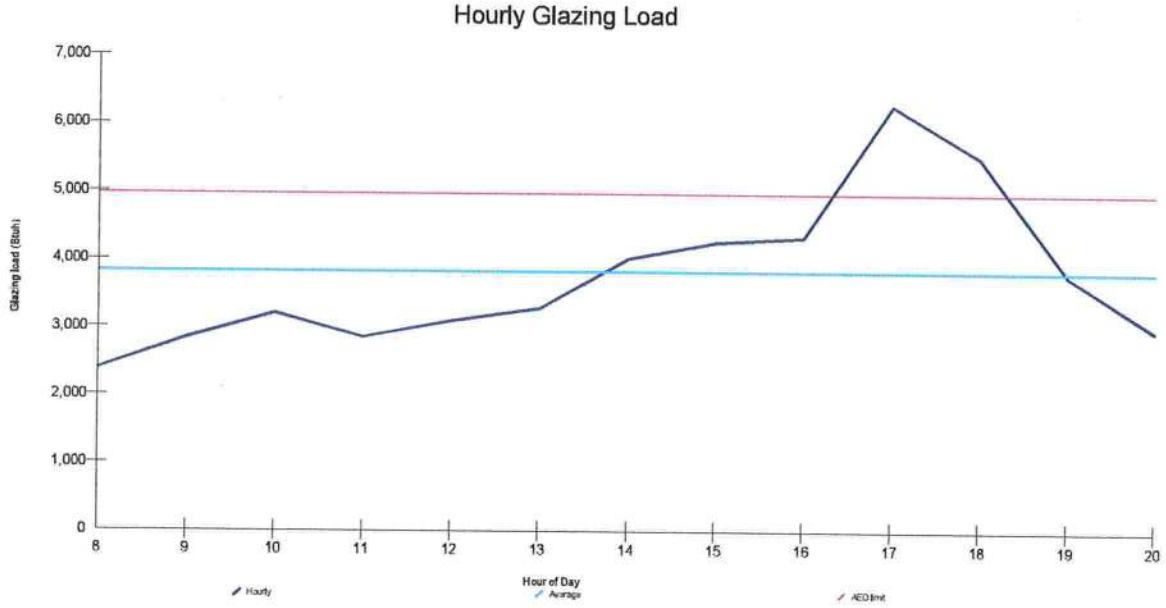
Location:
Gainesville Rgnl, FL, US
Elevation: 164 ft
Latitude: 30°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	50	50
Moisture difference (gr/lb)	32.5	46.9

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 64.3%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 1312 Btuh (PFG - 1.3*AFG)

Load Short Form
Entire House
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	50	50
Moisture difference (gr/lb)	32	47

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 1
Pressure / AVF	50 Pa / 3266 cfm

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)
Bedroom Syst	d	3200	15701	10643	550	550
Common Area Syst	d	2240	12358	10890	580	580
Entire House	d	5440	28059	21533	1130	1130
Other equip loads			0	0		
Equip. @ 1.00 RSM				21533		
Latent cooling				5472		
TOTALS		5440	28059	27005	1130	1130

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

Component Constructions
Entire House
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Design Conditions

Location:
Gainesville Rgnl, FL, US
Elevation: 164 ft
Latitude: 30°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	33	92
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	37	17
Relative humidity (%)	50	50
Moisture difference (gr/lb)	32.5	46.9

Infiltration:	
Method	Blower door
Shielding / stories	3 (partial) / 1
Pressure / AVF	50 Pa / 3266 cfm

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
Hardie 38 Sheathing 2x6 R19: Frm wall, Hardie ext, 3/8" wood shth, r-19 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	ne	556	0.065	19.0	2.38	1323	1.58	880
	se	390	0.065	19.0	2.38	927	1.58	617
	sw	494	0.065	19.0	2.38	1174	1.58	781
	nw	396	0.065	19.0	2.38	941	1.58	626
	all	1836	0.065	19.0	2.38	4365	1.58	2904
Partitions								
(none)								
Windows								
10D-v: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/2" gap, 1/8" thk; NFRC rated (SHGC=0.18); 7.5 ft overhang (6.7 ft window ht, 1.5 ft sep.); 6.67 ft head ht	ne	34	0.290	0	10.6	356	11.9	399
	sw	20	0.290	0	10.6	213	6.05	122
	all	54	0.290	0	10.6	569	9.72	521
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 100% outdoor insect screen; 7.5 ft overhang (2 ft window ht, 1.5 ft sep.); 6.67 ft head ht	ne	3	0.290	0	10.6	30	13.6	39
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 40% blinds 45°, light; 100% outdoor insect screen; 7.5 ft overhang (3 ft window ht, 1.5 ft sep.); 6.67 ft head ht	ne	10	0.290	0	10.6	109	12.0	123
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 40% blinds 45°, light; 100% outdoor insect screen; 1.5 ft overhang (5 ft window ht, 1.5 ft sep.); 6.67 ft head ht	ne	30	0.290	0	10.6	318	12.0	361
	se	45	0.290	0	10.6	478	11.4	511
	sw	15	0.290	0	10.6	159	11.4	170
	nw	15	0.290	0	10.6	159	12.0	181
	all	105	0.290	0	10.6	1114	11.6	1223
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 40% blinds 45°, light; 100% outdoor insect screen; 7.5 ft overhang (5 ft window ht, 1.5 ft sep.); 6.67 ft head ht	ne	15	0.290	0	10.6	159	12.0	181
	sw	15	0.290	0	10.6	159	6.22	93
	sw	26	0.290	0	10.6	274	6.22	161
	all	56	0.290	0	10.6	593	7.78	434
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 40% blinds 45°, light; 100% outdoor insect screen; 5.5 ft overhang (5 ft window ht, 1.5 ft sep.); 6.67 ft head ht	se	15	0.290	0	10.6	159	6.22	93
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 100% outdoor insect screen; 1.5 ft overhang (4 ft window ht, 1.5 ft sep.); 6.67 ft head ht	sw	13	0.290	0	10.6	142	12.4	165
	nw	13	0.290	0	10.6	142	13.6	182
	all	27	0.290	0	10.6	283	13.0	347

U-Factor .31 / SHGC .24: U-Factor .31 / SHGC .24; 40% blinds 45°, light; 1.5 ft overhang (5 ft window ht, 1.5 ft sep.); 6.67 ft head ht	sw	20	0.310	0	11.3	227	17.6	352
U-Factor .31 / SHGC .24: U-Factor .31 / SHGC .24; 40% blinds 45°, light; 7.5 ft overhang (5 ft window ht, 1.5 ft sep.); 6.67 ft head ht	sw	20	0.310	0	11.3	227	9.07	181
	sw	25	0.310	0	11.3	284	9.07	227
	all	45	0.310	0	11.3	511	9.07	408
10D-v: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/2" gap, 1/8" thk; NFRC rated (SHGC=0.18); 1.5 ft overhang (6.7 ft window ht, 1.5 ft sep.); 6.67 ft head ht	nw	20	0.290	0	10.6	213	11.9	240
U-Factor .29 / SHGC .18: U-Factor .29 / SHGC .18; 100% outdoor insect screen; 1.5 ft overhang (2 ft window ht, 1.5 ft sep.); 6.67 ft head ht	nw	3	0.290	0	10.6	30	13.6	39
	nw	3	0.290	0	10.6	32	13.6	41
	all	6	0.290	0	10.6	62	13.6	79

Doors
(none)

Ceilings
Rf/clg ceiling, membrane roof mat, frm cons, r-8 deck ins, 6" thkns, r-13 ceil ins	2867	0.046	21.0	1.68	4828	1.74	4993

Floors
19A-19cvtp: Flr floor, frm flr, 12" thkns, tile flr fnsh, r-19 cav ins, leaky crwl ovr	1050	0.049	19.0	1.41	1475	0.65	681
20P-19t: Flr floor, frm flr, 12" thkns, tile flr fnsh, r-19 cav ins, amb ovr	1600	0.050	19.0	1.83	2928	0.64	1028
22A-tph: Bg floor, heavy damp soil, on grade depth	9	1.358	0	49.7	422	0	0

Manual S Compliance Report
Bedroom Syst

ConsultAir, LLC

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Cooling Equipment

Design Conditions

Outdoor design DB:	91.9°F	Sensible gain:	10643	Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	76.2°F	Latent gain:	3092	Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	13735	Btuh		
Indoor RH:	50%	Estimated airflow:	550	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Amana		Model:	ASZ140181K+AVPTC25B14A	
Actual airflow:	550	cfm			
Sensible capacity:	13231	Btuh	124% of load		
Latent capacity:	3391	Btuh	110% of load		
Total capacity:	16622	Btuh	121% of load	SHR:	80%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	15701	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP					
Manufacturer:	Amana		Model:	ASZ140181K+AVPTC25B14A		
Actual airflow:	550	cfm				
Output capacity:	17200	Btuh	110% of load		Capacity balance:	33 °F
Supplemental heat required:	0	Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	550	cfm			
Output capacity:	4.7	kW	103% of load	Temp. rise:	62 °F

Meets all requirements of ACCA Manual S.

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Cooling Equipment

Design Conditions

Outdoor design DB:	91.9°F	Sensible gain:	10890	Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	76.2°F	Latent gain:	2379	Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	13270	Btuh		
Indoor RH:	50%	Estimated airflow:	580	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Amana		Model:	ASZ140181K+AVPTC25B14A	
Actual airflow:	580	cfm			
Sensible capacity:	13878	Btuh	127% of load		
Latent capacity:	2835	Btuh	119% of load		
Total capacity:	16713	Btuh	126% of load	SHR:	83%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	12358	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP					
Manufacturer:	Amana		Model:	ASZ140181K+AVPTC25B14A		
Actual airflow:	580	cfm				
Output capacity:	17200	Btuh	139% of load		Capacity balance:	27 °F
Supplemental heat required:		0 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	580	cfm			
Output capacity:	3.7	kW	103% of load	Temp. rise:	114 °F

Meets all requirements of ACCA Manual S.

Duct System Summary
Bedroom Syst
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.17 in H2O	0.17 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.208 / 0.122 in H2O	0.208 / 0.122 in H2O
Lowest friction rate	0.137 in/100ft	0.137 in/100ft
Actual air flow	550 cfm	550 cfm
Total effective length (TEL)	240 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
Attic Left	c	2871	99	148	0.267	7.0	0x0	VlFx	2.9	75.0	
Bath 2	h	705	25	16	0.225	4.0	0x0	VlFx	7.5	85.0	
Bdrm 2	h	2272	80	69	0.207	6.0	0x0	VlFx	15.6	85.0	
Bdrm 3	h	2804	98	80	0.196	6.0	0x0	VlFx	21.2	85.0	
Clst 2	h	424	15	8	0.215	4.0	0x0	VlFx	11.8	85.0	
Laundry	c	1013	28	52	0.237	5.0	0x0	VlFx	7.9	80.0	
Mstr Bath	h	1738	61	52	0.150	6.0	0x0	VlFx	18.5	120.0	st1
Mstr Bdrm a	c	449	23	23	0.170	4.0	0x0	VlFx	12.7	110.0	st1
Mstr Bdrm b	h	2098	74	73	0.137	6.0	0x0	VlFx	31.5	120.0	st1
WC	h	580	20	13	0.146	4.0	0x0	VlFx	22.2	120.0	st1
WIC b	h	786	28	15	0.154	4.0	0x0	VlFx	20.6	115.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	205	177	0.137	464	9.0	0 x 0	VinlFlx	

Return Branch Detail Table

Name	Grille 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
rb8	0x0	205	177	88.5	0.137	464	9.0	0x 0		MFx	
rb7	0x0	152	217	73.9	0.165	490	9.0	0x 0		MFx	
rb6	0x0	98	80	71.4	0.170	500	6.0	0x 0		MFx	
rb2	0x0	94	77	84.5	0.144	353	7.0	0x 0		MFx	

Duct System Summary
Common Area Syst
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.17 in H2O	0.17 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.179 / 0.151 in H2O	0.179 / 0.151 in H2O
Lowest friction rate	0.169 in/100ft	0.169 in/100ft
Actual air flow	580 cfm	580 cfm
Total effective length (TEL)	195 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
Attic Right	c 2016	93	107	0.229	6.0	0x0	MFx	3.3	75.0	
Bath 3	h 995	47	13	0.179	5.0	0x0	MFx	10.5	90.0	
Dining	h 1361	64	57	0.191	5.0	0x0	MFx	14.1	80.0	
Foyer	h 583	27	22	0.174	4.0	0x0	MFx	18.3	85.0	
Kitchen	c 2702	97	144	0.190	7.0	0x0	MFx	9.3	85.0	
Living Area	c 3139	153	167	0.180	8.0	0x0	MFx	14.8	85.0	
Office	h 2103	99	70	0.169	6.0	0x0	MFx	20.9	85.0	

Return Branch Detail Table

Name	Grille 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
rb4	0x0	481	510	63.0	0.239	650	12.0	0x 0		MFx	
rb3	0x0	99	70	88.8	0.169	503	6.0	0x 0		MFx	

Static Pressure and Friction Rate
Bedroom Syst
ConsultAir, LLC

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Available Static Pressure

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0.50	0.50
Pressure losses		
Coil	0	0
Heat exchanger	0	0
Supply diffusers	0.03	0.03
Return grilles	0.02	0.02
Filter	0.12	0.12
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0.33	0.33

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	22	14
Measured length of trunk	9	0
Equivalent length of fittings	120	75
Total length	152	89
Total effective length		240

Friction Rate

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0.137	OK	0.137	OK
Return Ducts	0.137	OK	0.137	OK

Fitting Equivalent Length Details

Supply	4W=35, 11B=30, 11G=5, 11G=5, 1A=35, 11G=5, 11G=5: TotalEL=120
Return	6M=20, 5B=40, 11G=5, 11G=5, 11G=5: TotalEL=75

Static Pressure and Friction Rate
Common Area Syst

ConsultAir, LLC

Hawthorne, Fl 32640 Phone: (904) 402-1463 Web: www.LoadCalculations.com

Job: 1588 SW Fry Ave
Date: 03/11/2019
By: David C Brown

Project Information

For: Barkley Residence
1588 SW Fry Ave, Fort White, FL 32038

Available Static Pressure

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0.50	0.50
Pressure losses		
Coil	0	0
Heat exchanger	0	0
Supply diffusers	0.03	0.03
Return grilles	0.02	0.02
Filter	0.12	0.12
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0.33	0.33

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	21	9
Measured length of trunk	0	0
Equivalent length of fittings	85	80
Total length	106	89
Total effective length		195

Friction Rate

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0.169	OK	0.169	OK
Return Ducts	0.169	OK	0.169	OK

Fitting Equivalent Length Details

Supply	4W=35, 1A=35, 11G=5, 11G=5, 11G=5: TotalEL=85
Return	6M=20, 5B=40, 11G=5, 11G=5, 11G=5, 11G=5: TotalEL=80

FORM R405-2017

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include:

- ☐ *This Checklist*
- ☐ *A FORM 405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page).*
- ☐ *An input summary checklist that can be used for field verification (usually 4 pages/may be greater).*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☐ *Mandatory Requirements (five pages)*

Required prior to CO for the Performance method:

- ☐ *Air Barrier and Insulation Inspection Component Criteria checklist (Table 402.4.1.1 - one page)*
- ☐ *A completed Form 2017 Envelope Leakage Test Report (usually one page). Section R402.4 or R402.4.1.2 exceptions may apply.*
- ☐ *If FORM R405 duct leakage type indicates anything other than "default leakage", then a completed FORM R405 Duct Leakage Test Report (usually one page).*

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Barkley Residence	Builder Name:	
Street:	1588 SW Fry Ave	Permit Office:	
City, State, Zip:	Fort White, FL 32038	Permit Number:	
Owner:	Barkley Residence	Jurisdiction:	221000
Design Location:	FL, Gainesville Rgnl	County:	(Florida Climate Zone 2)

1. New construction or existing	New (From Plans)	
2. Single family or multiple family	Single-Family	
3. Number of units, if multiple family	1	
4. Number of bedrooms	4	
5. Is this a worst case?	No	
6. Conditioned floor area above grade (ft²)		2732.00
Conditioned floor area below grade (ft²)		0

7. Windows (360 ft²)	Description	Area (ft²)
a. U-Factor:	Dbl, 0.290	295.12
SHGC:	0.18	
b. U-Factor:	Dbl, 0.310	65.00
SHGC:	0.24	
c. U-Factor:		
SHGC:		
d. U-Factor:		
SHGC:		

Area Weighted Average Overhang Depth: 4.458 ft
Area Weighted Average SHGC: 0.191

8. Floor types (2720.00 ft²)	Insulation (R)	Area (ft²)
a. Flr floor, frm flr, 12" thkns, t	19.0	1600.00
b. Flr floor, frm flr, 12" thkns, t	19.0	1049.50
c. Bg floor, heavy damp soil, on gr	0.0	70.50

9. Wall types (2196 ft²)	Insulation (R)	Area (ft²)
a. Frm wall, Hardie ext, 3/8" wood	19.0	2196.03
b. N/A		
c. N/A		
d. N/A		

10. Ceiling types (2867 ft²)	Insulation (R)	Area (ft²)
a. Rf/clg ceiling, membrane roof ma	21.0	2867.13
b. N/A		
c. N/A		

11. Ducts	R	Area (ft²)
a. Sup: Bedroom Syst, Ret: Bedroom Syst, AH: Bedroom Syst	6.0	194.47
b. Sup: Common Area Sys, Ret: Common Area Sys, AH: Bedroom Syst	6.0	137.55

12. Cooling systems	kBtu/hr	Efficiency
a. Split air source heat pump	17.2	SEER: 15.0
b. Split air source heat pump	17.2	SEER: 15.0
13. Heating systems	kBtu/hr	Efficiency
a. Split air source heat pump	17.2	HSPF: 8.3
b. Split air source heat pump	17.2	HSPF: 8.3

14. Hot water systems
a. Multiple, see details — Cap: 0 gal, EF: 0.99
b. Conservation features (None)

15. Credits None

Glass/Floor area: 0.066

Total Proposed Modified Loads: 104.74
Total Baseline Loads: 104.83

PASS

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

PREPARED BY: David C Brown - ConsultAir llc

DATE: 03/12/19

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

OWNER/AGENT: James Barkley

DATE: 3/20/19

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

BUILDING OFFICIAL: _____

DATE: _____

- **Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**

- **Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 6.5 ACH50 (R402.4.1.2).**

Building Input Summary Report

PROJECT

Title:	Barkley Residence	Bedrooms:	4	Address type:	Street address
Building Type:	FLAsBuilt	Bathrooms:	3	Lot#:	
Owner:	Barkley Residence	Conditioned Area:	2732	Block/Subdivision:	
# of Units:	1	Total Stories:	1	Platbook:	
Builder Name:		Worst Case:	No	Street:	1588 SW Fry Ave
Permit Office:		Rotate Angle:	0	County:	
Jurisdiction:	221000	Cross Ventilation:	No	City, State, Zip:	Fort White, FL 32038
Family Type:	Single-Family	Whole House Fan:	No		
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:		Shielding:	Moderate/Rural		
Comment:					

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
	FL, Gainesville Rgnl	FL_Gainesville_Rgn	2	33	92	70	75	1176	47	Medium

BLOCKS

#	Name	Area	Volume
1	Common Area Syst	2240.00 ft²	12388.44 ft³
2	Bedroom Syst	3200.00 ft²	17756.44 ft³

SPACES

#		Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Bdrm 2	183.75 ft²	1653.75 ft³	No	1	1	1	Yes	Yes	Yes
2	Clst 2	52.50 ft²	472.50 ft³	No	0	0	1	Yes	Yes	Yes
3	Bath 2	76.50 ft²	688.50 ft³	No	0	0	1	Yes	Yes	Yes
4	'	7.50 ft²	67.50 ft³	No	0	0	1	Yes	Yes	Yes
5	Clst 3	72.50 ft²	652.50 ft³	No	0	0	1	Yes	Yes	Yes
6	Linen 1	8.75 ft²	78.75 ft³	No	0	0	1	Yes	Yes	Yes
7	Bdrm 3	305.75 ft²	2751.75 ft³	No	1	1	1	Yes	Yes	Yes
8	Kitchen	301.00 ft²	2709.00 ft³	Yes	0	0	1	Yes	Yes	Yes
9	Hall	113.75 ft²	1023.75 ft³	No	0	0	1	Yes	Yes	Yes
10	Laundry	73.50 ft²	661.50 ft³	No	0	0	1	Yes	Yes	Yes
11	WIC a	45.88 ft²	412.88 ft³	No	0	0	1	Yes	Yes	Yes
12	WC	32.13 ft²	289.13 ft³	No	0	0	1	Yes	Yes	Yes
13	Mstr Linen	8.00 ft²	72.00 ft³	No	0	0	1	Yes	Yes	Yes
14	Mstr Bath	125.00 ft²	1125.00 ft³	No	0	0	1	Yes	Yes	Yes
15	Mstr Bdrm a	261.00 ft²	2349.00 ft³	No	1	1	1	Yes	Yes	Yes
16	Mstr Bdrm b	138.00 ft²	1242.00 ft³	No	0	0	1	Yes	Yes	Yes
17	Linen 2	10.50 ft²	94.50 ft³	No	0	0	1	Yes	Yes	Yes
18	Pantry 1	15.00 ft²	135.00 ft³	No	0	0	1	Yes	Yes	Yes
19	Pantry 2	13.50 ft²	121.50 ft³	No	0	0	1	Yes	Yes	Yes
20	Dining	153.50 ft²	1381.50 ft³	No	0	0	1	Yes	Yes	Yes
21	WIC b	85.00 ft²	765.00 ft³	No	0	0	1	Yes	Yes	Yes
22	Foyer	70.00 ft²	630.00 ft³	No	0	0	1	Yes	Yes	Yes
23	Living Area	308.00 ft²	2772.00 ft³	No	1	0	1	Yes	Yes	Yes
24	Office	169.75 ft²	1527.75 ft³	No	1	1	1	Yes	Yes	Yes
25	Ofc Clst	12.50 ft²	112.50 ft³	No	0	0	1	Yes	Yes	Yes
26	Bath 3	70.50 ft²	634.50 ft³	No	0	0	1	Yes	Yes	Yes
27	'	6.25 ft²	56.25 ft³	No	0	0	1	Yes	Yes	Yes
28	Attic Left	1600.00 ft²	3356.44 ft³	No	0	0	1	Yes	Yes	Yes
29	Attic Right	1120.00 ft²	2308.44 ft³	No	0	0	1	Yes	Yes	Yes

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FLOORS (Total Exposed Area = 2720 sq.ft.)

✓	#	Floor Type	Space	Perimeter	R-Value	Area	U-Factor	Tile	Wood	Carpet
	1	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Bdrm 2	27 ft	19	183.75 ft²	0.050	1.0	0	0
	2	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Clst 2	5 ft	19	52.50 ft²	0.050	1.0	0	0
	3	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Bath 2	8 ft	19	76.50 ft²	0.050	1.0	0	0
	4	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1		0 ft	19	7.50 ft²	0.050	1.0	0	0
	5	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Clst 3	0 ft	19	72.50 ft²	0.050	1.0	0	0
	6	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Linen 1	0 ft	19	8.75 ft²	0.050	1.0	0	0
	7	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Bdrm 3	29 ft	19	305.75 ft²	0.050	1.0	0	0
	8	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Kitchen	20 ft	19	301.00 ft²	0.049	1.0	0	0
	9	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Hall	0 ft	19	113.75 ft²	0.050	1.0	0	0
	10	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Laundry	7 ft	19	73.50 ft²	0.050	1.0	0	0
	11	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	WIC a	0 ft	19	45.88 ft²	0.050	1.0	0	0
	12	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	WC	8 ft	19	32.13 ft²	0.050	1.0	0	0
	13	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Mstr Linen	0 ft	19	8.00 ft²	0.050	1.0	0	0
	14	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Mstr Bath	20 ft	19	125.00 ft²	0.050	1.0	0	0
	15	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Mstr Bdrm a	1 ft	19	261.00 ft²	0.050	1.0	0	0
	16	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Mstr Bdrm b	23 ft	19	138.00 ft²	0.050	1.0	0	0
	17	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Linen 2	0 ft	19	10.50 ft²	0.050	1.0	0	0
	18	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Pantry 1	0 ft	19	15.00 ft²	0.049	1.0	0	0
	19	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Pantry 2	0 ft	19	13.50 ft²	0.049	1.0	0	0
	20	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Dining	13 ft	19	153.50 ft²	0.049	1.0	0	0
	21	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	WIC b	10 ft	19	85.00 ft²	0.050	1.0	0	0
	22	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Foyer	5 ft	19	70.00 ft²	0.049	1.0	0	0
	23	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Living Area	36 ft	19	308.00 ft²	0.049	1.0	0	0
	24	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Office	26 ft	19	169.75 ft²	0.049	1.0	0	0
	25	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1	Ofc Clst	0 ft	19	12.50 ft²	0.049	1.0	0	0
	26	Bg floor, heavy damp soil, on grade depth	Bath 3	9 ft	0	70.50 ft²	1.358	0	1.0	0
	27	Flr floor, frm flr, 12" thkns, tile flr fnsh, r-1		0 ft	19	6.25 ft²	0.049	1.0	0	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
	1	Flat	RoofMembrane	1181 ft²	972 ft²	Light	0.60	No	0.90	No	21	0
	2	Flat	RoofMembrane	1687 ft²	1224 ft²	Light	0.60	No	0.90	No	21	0

CEILING (Total Exposed Area = 2867 sq.ft.)

✓	#	Ceiling Type	Space	R-Value	U-Factor	Area	Framing Fraction	Truss Type
	1	Rf/clg ceiling, membrane roof mat, f	Attic Left	21	0.046	1686.55 ft²	0.10	Wood
	2	Rf/clg ceiling, membrane roof mat, f	Attic Right	21	0.046	1180.58 ft²	0.10	Wood

WALLS (Total Exposed Area = 2196 sq.ft.)

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	U-Factor	Frm. Frac.	Solar Absor.	Below Grade%
	1	NE	Exterior	Frm wall, Hardie	Bdrm 2	19	14	0	9	0	126.0 ft²	0	0.065	0.25	0.75	0
	2	NW	Exterior	Frm wall, Hardie	Bdrm 2	19	12	6	9	0	112.5 ft²	0	0.065	0.25	0.75	0
	3	NW	Exterior	Frm wall, Hardie	Clst 2	19	5	0	9	0	45.0 ft²	0	0.065	0.25	0.75	0
	4	NW	Exterior	Frm wall, Hardie	Bath 2	19	8	0	9	0	72.0 ft²	0	0.065	0.25	0.75	0
	5	NE	Exterior	Frm wall, Hardie	Bdrm 3	19	18	0	9	0	162.0 ft²	0	0.065	0.25	0.75	0
	6	SE	Exterior	Frm wall, Hardie	Bdrm 3	19	11	0	9	0	99.0 ft²	0	0.065	0.25	0.75	0
	7	NE	Exterior	Frm wall, Hardie	Kitchen	19	20	0	9	0	180.0 ft²	0	0.065	0.25	0.75	0
	8	NW	Exterior	Frm wall, Hardie	Laundry	19	7	0	9	0	63.0 ft²	0	0.065	0.25	0.75	0
	9	NW	Exterior	Frm wall, Hardie	WC	19	7	6	9	0	67.5 ft²	0	0.065	0.25	0.75	0
	10	SW	Exterior	Frm wall, Hardie	Mstr Bath	19	10	0	9	0	90.0 ft²	0	0.065	0.25	0.75	0
	11	NW	Exterior	Frm wall, Hardie	Mstr Bath	19	10	0	9	0	90.0 ft²	0	0.065	0.25	0.75	0
	12	SE	Exterior	Frm wall, Hardie	Mstr Bdrm a	19	0	6	9	0	4.5 ft²	0	0.065	0.25	0.75	0
	13	SE	Exterior	Frm wall, Hardie	Mstr Bdrm b	19	10	6	9	0	94.5 ft²	0	0.065	0.25	0.75	0
	14	SW	Exterior	Frm wall, Hardie	Mstr Bdrm b	19	12	0	9	0	108.0 ft²	0	0.065	0.25	0.75	0
	15	SW	Exterior	Frm wall, Hardie	Dining	19	13	0	9	0	117.0 ft²	0	0.065	0.25	0.75	0
	16	SW	Exterior	Frm wall, Hardie	WIC b	19	10	0	9	0	90.0 ft²	0	0.065	0.25	0.75	0
	17	SW	Exterior	Frm wall, Hardie	Foyer	19	5	0	9	0	45.0 ft²	0	0.065	0.25	0.75	0
	18	SE	Exterior	Frm wall, Hardie	Living Area	19	14	0	9	0	126.0 ft²	0	0.065	0.25	0.75	0
	19	SW	Exterior	Frm wall, Hardie	Living Area	19	22	0	9	0	198.0 ft²	0	0.065	0.25	0.75	0
	20	NE	Exterior	Frm wall, Hardie	Office	19	11	6	9	0	103.5 ft²	0	0.065	0.25	0.75	0
	21	SE	Exterior	Frm wall, Hardie	Office	19	14	0	9	0	126.0 ft²	0	0.065	0.25	0.75	0
	22	NE	Exterior	Frm wall, Hardie	Bath 3	19	8	6	9	0	76.5 ft²	0	0.065	0.25	0.75	0
	23	NW	Exterior	Frm wall, Hardie	Attic Right	19	0	0	2	1	0.0 ft²	0	0.065	0.25	0.75	0

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WINDOWS (Total Exposed Area = 360 sq.ft.)

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
	1	NE	1	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	2	NW	2	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	3	NW	4	None	Low-E Double	No	0.290	0.18	No	3.0 ft²	1 ft 6 in	1 ft 6 in	None	outdoor
	4	NE	5	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	5	SE	6	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	6	NE	7	Vinyl	Low-E Double	Yes	0.290	0.18	No	33.5 ft²	7 ft 6 in	1 ft 6 in	None	None
	7	NE	7	None	Low-E Double	No	0.290	0.18	No	10.3 ft²	7 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	8	NW	8	Vinyl	Low-E Double	Yes	0.290	0.18	No	20.1 ft²	1 ft 6 in	1 ft 6 in	None	None
	9	NW	9	None	Low-E Double	No	0.290	0.18	No	2.8 ft²	1 ft 6 in	1 ft 6 in	None	outdoor
	10	SW	10	None	Low-E Double	No	0.290	0.18	No	13.3 ft²	1 ft 6 in	1 ft 6 in	None	outdoor
	11	NW	11	None	Low-E Double	No	0.290	0.18	No	13.3 ft²	1 ft 6 in	1 ft 6 in	None	outdoor
	12	SE	13	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	5 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	13	SW	14	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	14	SW	14	None	Low-E Double	No	0.310	0.24	No	20.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	None
	15	SW	15	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	7 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	16	SW	15	None	Low-E Double	No	0.310	0.24	No	20.0 ft²	7 ft 6 in	1 ft 6 in	Blinds 45°	None
	17	SW	17	Vinyl	Low-E Double	Yes	0.290	0.18	No	20.1 ft²	7 ft 6 in	1 ft 6 in	None	None
	18	SE	18	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	19	SW	19	None	Low-E Double	No	0.290	0.18	No	25.8 ft²	7 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	20	SW	19	None	Low-E Double	No	0.310	0.24	No	25.0 ft²	7 ft 6 in	1 ft 6 in	Blinds 45°	None
	21	NE	20	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	7 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	22	SE	21	None	Low-E Double	No	0.290	0.18	No	15.0 ft²	1 ft 6 in	1 ft 6 in	Blinds 45°	outdoor
	23	NE	22	None	Low-E Double	No	0.290	0.18	No	2.8 ft²	7 ft 6 in	1 ft 6 in	None	outdoor

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
	1					0

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Blower Door	0.000455	3266	179.2	336.5	0.51	6.50

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1	Split air source heat pump		HSPF: 8.3	17.2 kBtu/hr	1	sys#1
	2	Split air source heat pump		HSPF: 8.3	17.2 kBtu/hr	2	sys#2

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	Split air source heat pump		SEER: 15.0	17.2 kBtu/hr	580 cfm	0.70	1	sys#1
	2	Split air source heat pump		SEER: 15.0	17.2 kBtu/hr	550 cfm	0.70	2	sys#2

HOT WATER SYSTEM

✓	#	System Type	Subtype	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric instantaneous			0.99	0 gal	70 gal	120 °F	None
	2	Electric instantaneous			0.99	0 gal	70 gal	120 °F	None

DUCTS

✓	#	Supply Location	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25 Out	Percent Leakage	QN	RLF	HVAC # Heat	HVAC # Cool
	1	Common Area Sys	6.0	138 ft²	Common Area Sys	23 ft²	Default Leakage	Bedroom Syst	(Default)	6.00			1	1
	2	Bedroom Syst	6.0	194 ft²	Bedroom Syst	69 ft²	Default Leakage	Bedroom Syst	(Default)	6.00			2	2

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TEMPERATURES

Programmable Thermostat: N Ceiling Fans:

Cooling	[X]Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Heating	[X]Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Venting	[X]Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec

Thermostat Schedule:	Florida Building Code, 6th Edition	Hours											
Schedule Type	(2017)	1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72
Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72

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ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX = 100

The lower the EnergyPerformance Index, the more efficient the home.

1. New home or addition	1.	New (From Plans)
2. Single-family or multiple-family	2.	Single-Family
3. Number of units, if multiple-family	3.	1
4. Number of bedrooms	4.	4
5. Is this a worst case? (yes/no)	5.	No
6. Conditioned floor area (ft²)	6.	2732.00
7. Windows, type and area*		
a. U-Factor:	7a.	Dbl, 0.290
b. Solar Heat Gain Coefficient (SHGC):	7b.	0.18
c. Area (ft²)	7c.	295.12
8. Skylights		
a. U-Factor:	8a.	
b. Solar Heat Gain Coefficient (SHGC):	8b.	
9. Floor type, insulation level		
a. Slab-on-grade (R-value):	9a.	19.0
b. Wood, raised (R-value):	9b.	19.0
c. Concrete, raised (R-value)	9c.	0.0
10 Wall type and insulation:		
a. Exterior:		
1. Wood frame (Insulation R-value):	10a1.	19
2. Masonry (Insulation R-value):	10a2.	
b. Adjacent:		
1. Wood frame (Insulation R-value):	10b1.	
2. Masonry (Insulation R-value):	10b2.	
11. Ceiling type and insulation level		
a. Under attic (R-value):	11a.	21.0
b. Single assembly (R-value):	11b.	
c. Knee walls/skylight walls (R-value)	11c.	
d. Radiant barrier installed	11d.	

12. Ducts, location & insulation level		
a. Supply ducts:	R	6.0
b. Return ducts:	R	6.0
c. AHU location:		Bedroom Syst
13. Cooling systems	Capacity	17.2
a. Split system:	SEER	15.00
b. Single package:	SEER	
c. Ground/water source:	SEER/COP	
d. Room unit/PTAC:	EER	
e. Other:		
14. Heating systems	Capacity	17.2
a. Split system heat pump:	HSPF	8.30
b. Single package heat pump:	HSPF	
c. Electric resistance:	COP	
d. Gas furnace, natural gas:	AFUE	
e. Gas furnace, LPG:	AFUE	
f. Other:		
15. Water heating systems		
a. Electric resistance:	EF	0.990
b. Gas fired, natrual gas:	EF	
c. Gas fired, LPG:	EF	
d. Solar system with tank:	EF	
e. Dedicated heat pump with tank:	EF	
f. Heat recovery unit:	HeatRec%	
g. Other:		
16. HVAC credits claimed (Performance Method)		
a. Ceiling fans:		
b. Cross ventilation:		
c. Whole house fan:		
d. Multizone cooling credit:		Yes
e. Multizone heating credit:		Yes
f. Programmable thermostat:		

*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

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

Builder Signature: _____ Date: 3/20/19

Address of New Home: 1588 SW Fry Ave City/FL Zip: Fort White, FL 32038

FORM R405-2017

Florida Building Code, Energy Conservation, 6th Edition (2017)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:	1588 SW Fry Ave Fort White, FL 32038	PERMIT #:

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

☐ **R401.3 Energy Performance Level (EPL) display card (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statues) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. completed and signed by the builder The building official shall verify that the EPL display card accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix RD.

☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeledin accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-figging doors on masonry fireplaces,the doors shall be listed and labeled in accordance with UL 907.

☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

☐ **R402.4.4 Rooms containing fuel-burning appliances** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:
1. Direct vent apliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

☐ **R403.1 Controls**

☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.

☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

☐ **R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.

☐ **R403.3.3 Duct testing.** Ducts shall be pressure tested to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
2. Post construction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test.

Exceptions:

1. A duct leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. Duct testing is not mandatory for buildings complying by Section 405 of this code.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

☐ **R403.3.5 Building Cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.

☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace termperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for how water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

MANDATORY REQUIREMENTS - (Continued)

☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/2 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.

☐ **R403.5.6 Water heater efficiencies (Mandatory).**

☐ **R403.5.6.1 Storage water heater temperature controls.**

☐ **R403.5.6.1.1 Automatic controls.** Service water heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).

☐ **R403.5.6.1.2 shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water heating systems to be turned off.

☐ **R403.5.6.2 Water heating equipment.** Water heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water heating category. Solar water heaters shall met the criteria of Section R403.5.6.2.1.

☐ **R403.5.6.2.1 Solar water heating system.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:

1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
2. Be installed at an orientation within 45 degrees of true south.

☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation, including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.

☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure of for mechanical ventilation shall meet the following criteria:

1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
3. If ventilation air is drawn from enclosed spaces(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum or R-19, space permitting, or R-10 otherwise.

☐ **R403.7 Heating and cooling equipment (Mandatory).**

☐ **R403.7.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved methodologies, heating and cooling calculation based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

TABLE R403.6.1

WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM CFM	MINIMUM EFFICACY (a) CFM/WATT	AIRFLOW RATE MAXIMUM CFM
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	< 90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm - 28.3 L/min. (a) When tested in accordance HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

☐ **R403.7.1.2 Heating equipment capacity.**

☐ **R403.7.1.2.1 Heat pumps** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.

☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1

☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:

1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
2. A variable capacity system sized for optimum performance during base load periods is utilized.

☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

☐ **R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

☐ **R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operations.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

☐ **R404.1 Lighting equipment (Mandatory).** Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

Exception: Low-voltage lighting.

☐ **R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

FORM R405-2017

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:	Barkley Residence	Builder Name	
Street:	1588 SW Fry Ave	Permit Office:	
City, State, Zip:	Fort White, FL 32038	Permit Number:	
Owner:	Barkley Residence	Jurisdiction:	221000
Design Location:	FL, Gainesville Rgnl		

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	✓
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	☐
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attics paces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	☐
Walls	The junction of the foundation and sill plate shall be sealed.The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities with corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier	☐
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		☐
Rim joists	Rim joists are insulated and include an air barrier.	Rim joists shall be insulated.	☐
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity Insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top sideof sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	☐
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls.	☐
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.		☐
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	☐
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		☐
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	☐
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	☐
Shower/tub on exterior wall	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	Exterior walls adjacent to showers and tubs shall be insulated.	☐
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		☐
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.		☐
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		☐

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

FORM R405-2017

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance
2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: 221000	Permit Number:

Job Information

Builder:	Community:	Lot:
Address: 1588 SW Fry Ave	Unit:	
City: Fort White	State: FL	Zip: 32038

Air Leakage Test Results

Passing results must meet either the Performance, Prescriptive, or ERI Method.

☐ **PRESCRIPTIVE METHOD** — The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) in Climate Zones 1 and 2.

☐ **PERFORMANCE or ERI METHOD** — The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on FORM R405-2017 (Performance) or R406-2017 (ERI), section labeled as Infiltration, sub-section ACH50.

ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 6.500

$$\frac{\text{CFM(50)}}{\text{\_\_\_\_\_}} \times 60 \div \frac{\text{Building Volume}}{30145} = \frac{\text{ACH(50)}}{\text{\_\_\_\_\_}}$$

☐ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

- ☐ Retrieved from architectural plans
- ☑ Code software calculated
- ☐ Field measured and calculated

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statues, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or and approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

FORM R405-2017

Duct Leakage Test Report

Residential Perscriptive, Performance or ERI Method Compliance
2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: 221000	Permit Number:

Job Information

Builder:	Community:	Lot:
Address: 1588 SW Fry Ave	Unit:	
City: Fort White	State: FL	Zip: 32038

Duct Leakage Test Results

System 1	_____ cfm25
System 2	_____ cfm25
System 3	_____ cfm25
Sum of any additional systems	_____ cfm25
Total of all systems	**_____ cfm25**

_____ (Total of all systems) ÷ 2732 (Total Conditioned Square Footage) = _____ Qn

☐ **PASS** ☐ **FAIL**

☐ **Prescriptive Method** cfm25 (Total)

To qualify as "substantially leak free" Qn Total must be less than or equal to 0.04 if air handler unit is installed. If air handler unit is not installed, Qn Total must be less than or equal to 0.03. This testing method meets the requirements in accordance with Section R403.3.3.

Is the air handler unit installed during testing? ☐ YES (<= 0.04 Qn) ☐ NO (<= 0.03 Qn)

☐ **Performance / ERI Method** cfm25 (Out or Total)

To qualify using this method, Qn must be not greater than the proposed duct leakage Qn specified on Form R405-2017 or R406-2017.

Leakage Type selected on Form R405-2017 (Energy Calc) or R406-2017	*Qn specified on Form R405-2017 (Energy Calc) or R406-2017*
Default Leakage	

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statues.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above duct leakage test results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Reference Home Characteristics

Barkley Residence
1588 SW Fry Ave
Fort White, FL 32038

Title: Barkley Res
FLBase2017

TMY City: FL_Gainesville_Rgn

Above-grade Walls (Uo)	0.084
Above-grade Wall Solar Absorptance	0.75
Above-grade Wall Infared Emittance	0.90
Basement Walls (Uo)	n/a
Above-grade Floors (Uo)	0.064
Slab Insulation R-Value	0.0
Ceilings (Uo)	0.030
Roof Solar Absorptance	0.75
Roof Infared Emittance	0.90
Attic Vent Area (ft²)	0.00
Crawlspace Vent Area (ft²)	n/a
Exposed Masonry Floor Area (ft²)	14.10
Carpet & Pad R-Value	1.6
Door Area (ft²)	40.00
Door U-Factor	0.400
North Window Area (ft²)	90.03
South Window Area (ft²)	90.03
East Window Area (ft²)	90.03
West Window Area (ft²)	40.65
Window U-Factor	0.400
Window SHGC (Heating)	0.2169
Window SHGC (Cooling)	0.2169
ACH50	7.00
Internal Gains * (Btu/day)	181688
Water heater gallons per day	140.00
Water Heater set point temperature	120.00
Water heater efficiency rating	0.95
Labeled Heating System Rating and Efficiency	HSPF = 8.2
Labeled Cooling System Rating and Efficiency	SEER = 14.0
Air Distribution System Efficiency	0.88
Thermostat Type	Manual
Heating Thermostat Settings	72.0 (All hours)

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

O'Neal Roofing Company
212 SE Hickory Drive
Lake City, FL 32025

SCOPE:

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

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Snap Clad 24 ga. x 16" and 18" Wide Steel Panel over Wood Deck

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

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

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

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

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

This NOA consists of pages 1 through 5.
The submitted documentation was reviewed by Juan E. Collao, R.A.

ROOFING SYSTEM APPROVAL:

Category:	Roofing
Sub-Category:	Metal, Panels (Non-Structural)
Material:	Steel
Deck Type:	Wood
Maximum Design Pressure	**-144.25 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Snap-Clad 24 ga. x 18 " Wide Steel Panel	Length: various Height: 1 ¾" Width: 16" & 18" Thickness 0.0276" Min. Yield Strength: 58 ksi	TAS 110	Corrosion resistant preformed standing seam, coated, pre-finished steel panels.
Individual Clip	Length: 3.5" Height: 1.875" Width: 1.982" Thickness 20 ga	TAS 110	20 ga. galvanized steel clip with 2 holes, or 20 ga. stainless steel clip with 2 holes.
Continuous Clip	Length: 14.75" Height: 1.875" Width: 1.982" Thickness 20 ga.	TAS 110	20 ga. galvanized steel clips with 8 holes, or 20 ga. stainless steel clip with 8 holes.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Valspar	433X515	ASTM B 117	11/21/11
Valspar	433B173	ASTM D 4587, ASTM G 23	11/21/11
Architectural Testing	73784.01-109-18	TAS-100	08/10/07
Architectural Testing	B5219.02-450-18	TAS-125	04/17/12
Architectural Testing	B5219.04-450-18	TAS-125	04/24/12

APPROVED ASSEMBLIES:

System A:	Snap-Clad 24 ga. x 16" or 18" Wide Steel Panel
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction $^{19}/_{32}$" or greater plywood or wood plank, or for re-roofing 15/32" or greater plywood.
Maximum Uplift Pressure:	**See Table A Below**

Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d ring shank nails spaced 6" o.c. In reroofing, where the deck is less than $^{19}/_{32}$" thick (Minimum $^{15}/_{32}$") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum Underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 ¼" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any approved Underlayment having a current NOA.
Fire Barrier:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with the current published installation instructions and details in PAC Contractors Association's Roofing Installation Manual.
Metal Panels and Accessories:	Install the " Snap-Clad 24 ga. x 18" Wide Steel Panel " panels including flashing penetrations, valleys, end laps and accessories in compliance PAC Contractors Association's current, published installation instructions and in compliance with the minimum requirements detailed in Roofing Application Standard RAS 133. Panels shall be installed along the rib with SNAP CLAD Clips secured with #10 x 1-1/2" fasteners (2 per clip for individual clip; 8 per clip for continuous clip); the screws shall be of sufficient length to penetrate through the sheathing a minimum of $^{3}/_{16}$". The female rib of panel is snapped over the male rib of panel. Panel clips shall be spaced a maximum distance listed below in **Table A**.

TABLE A
MAXIMUM DESIGN PRESSURES

Roof Areas	Field	Perimeter and Corner[1]
Maximum Design Pressures	**-95.50 psf.**	**-144.25 psf**
Clip Type	**Individual**	**Continuous**
Maximum Clip Spacing	**24" o.c.**	**Continuous**

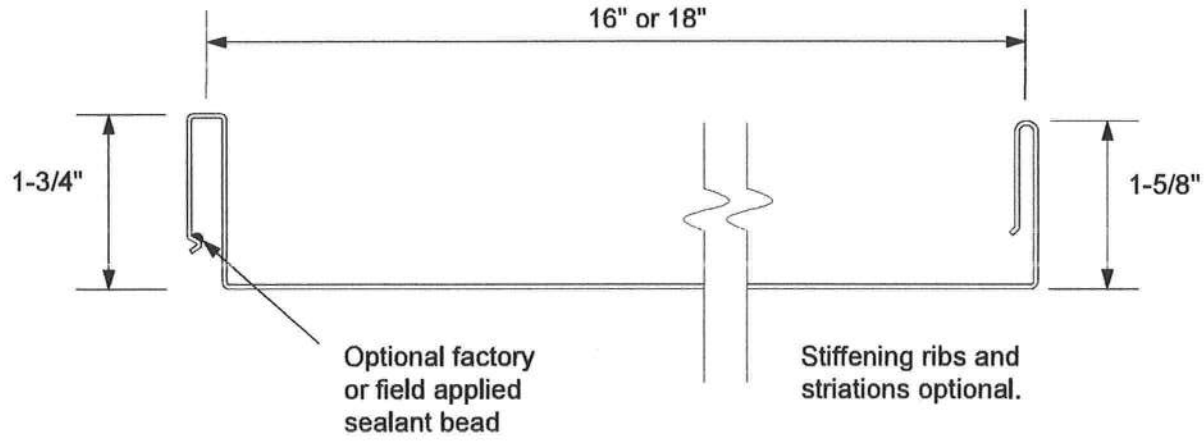
1. Extrapolation shall not be allowed

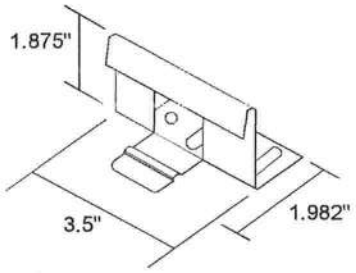
LIMITATIONS

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
3. Panels may be rolls formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Roofing Application Standard RAS 133.
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, city, state, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below. All clips shall be permanently labeled with the manufacturer's name and/or logo, and/or model.

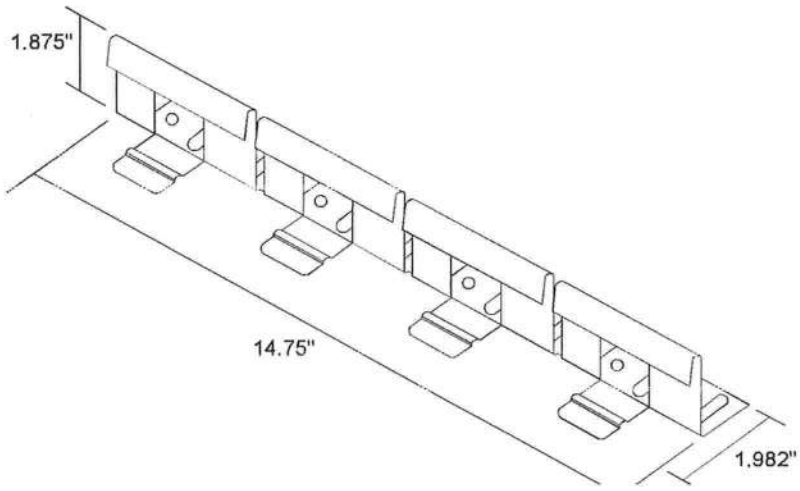
5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.
6. Panels may be shop or jobsite roll formed with machine model # **12155 or 7401001** from PAC Contractors Association.

PROFILE DRAWINGS





INDIVIDUAL CLIP



CONTINUOUS CLIP

END OF THIS ACCEPTANCE

Wind Load Analysis and Certification

Barkley Residence

2017 Florida Building Code section 1609 according to ASCE 7
Ultimate Design Wind Speed (Vult) = 130 MPH (3 second gust)
Nominal Design Wind Speed (Vasd)) = 101 MPH
Risk Category = II
Exposure Category = B, Enclosed Building
Applicable Internal Pressure Coefficient = .18
Design Wind Pressure for use of External Components (Components and Cladding)= +32.1psf, -45.3psf

Roof Decking

7/16" OSB or ½", 5/8"or ¾" CDX Decking; 48"x96" Sheets, Perpendicular to Roof Framing Members
8d common (.131" dia) or 8d ring-shank (.113' dia.) nails at 4" O.C. on Ends, 8" O.C. in Interior
Trusses or Rafters at 2' O.C. (horizontal distance), No Intermediate Blocking Required
Rafters: 2x6 SYP #2 up to 10' horizontal span, 2x8 SYP #2 up to14' horizontal span

Shear Wall Segments

7/16" OSB or ½" CDX plywood, 48" Wide Sheets - Sheathing Continuous from Top Plate down to Pressure Treated Sole Plate Bearing on Foundation.
8d common (.131" dia) nails at 3" O.C. on Edges and Ends, 8" O.C. in Interior
Transverse Shearwall = 50', Longitudinal Shearwall = 55'
2x4 SPF (No. 1&2) Studs at 16" O.C., up to 12' wall height
or: 2x6 SPF (No. 1&2) Studs at 16" O.C., up to 17' wall height
Nail Together Double Top Plate 6" O.C. w/12-d Common Nails (SYP top plates)
Other Wall Segments - Same as Shear Walls

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PLANS EXAMINER

Gabled End Wall Framing – N/A

Special Notes: attach rim beams to columns with Simpson HD3B or equivalent.

Footings and Foundations (Based on Truss Engineering)

20" Wide x 10" Deep 3000 psi Concrete Strip Footing with 2-#5's, Continuous
8"x8"x16" Concrete Masonry Stemwall, Minimum 2 Courses, Maximum 5 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners **and 6'-0" O.C.** (10" hook top and bottom) (min 25" lap all #5 rebar) **(1) #5 continuous top course.**
Or: 30"x30" x 15" pad under each column(w/ 3- #5 each way), 8x8 CMU column (max 4 courses) with #5 vert (10" hook at bottom)
All concrete 3000 psi

Hurricane-Resistance Hardware (Based on Truss Engineering)

Truss Clips/Headers/Girders/Top and Bottom of Wall Unit - See Table
Anchor Bolts- A-307 (1/2"Dia. x 10" with min 8" embedment) at 48"O.C. (First bolt at 9" from Corner, then 48" O.C.) and at each end of Each Shearwall Segment (2" round or square washers).

I hereby certify that the accompanying Wind Load Analysis for the **Barkley Residence**, demonstrates compliance with the 2017 FBC section 1609 according to ASCE 7, to the best of my knowledge.

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

HOLD-DOWN TABLE **Barkley Residence** **4/8/2018**

Wood Sections	**Uplift Force** Lbs	**Top Connector** Simpson **	**Rating** Lbs	**Bottom Connector** Simpson **	**Rating** Lbs
HEADERS					
	up to 455 lbs	LSTA9	775	H3	455
	up to 910 lbs	LSTA12	970	2-H3	910

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

Trusses/Girders - Uplift

up to 600 lbs - use H2.5A top, no special device required at bottom
over 600 lbs but under 990 lbs use H10 top, no special device required at bottom

Must Use proper bolt anchors

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

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

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

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

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

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

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

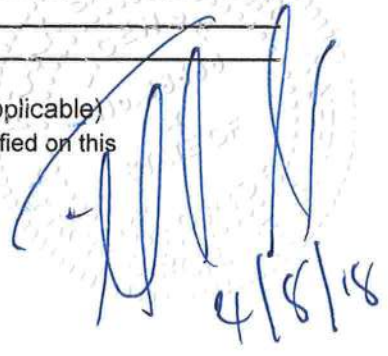
STUDS

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

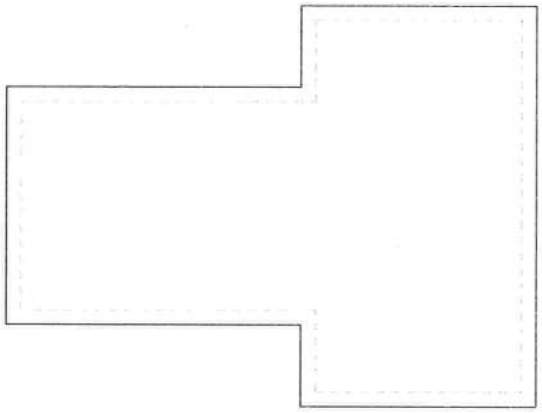
Please Note: All Beams must be sheathed or strapped to Double Top Plate (if applicable)

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

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



Project Name: Barkley Residence



Location:

By: F Sapienza

Start Date: 4/9/2018

Comments:

Local Information

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

Basic Wind Speed: 130 mph

Topography: None

Optional Factors

This project uses load combinations from ASCE 7.

Section - Main Section

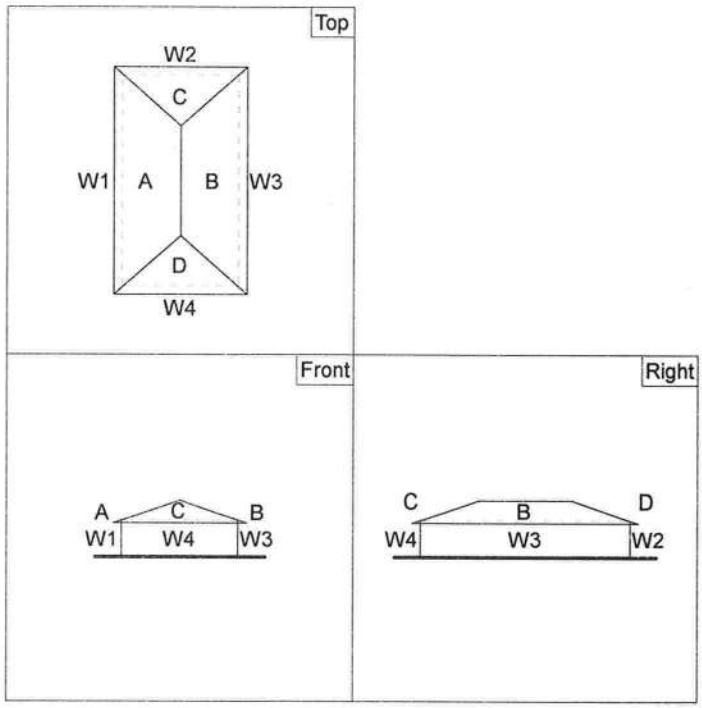
Enclosure Classification: Enclosed
Building Category: II

Wall	Length(ft)	Overhang(ft)
1	50.0	2.0
2	28.0	2.0
3	50.0	2.0
4	28.0	2.0

Wall Height: 9 ft
Parapet Height: 0 ft

Roof Shape: Hipped

Roof	Slope(:12)
A&B	4.0
C&D	4.0



Section - 1

Enclosure Classification: Enclosed
Building Category: II

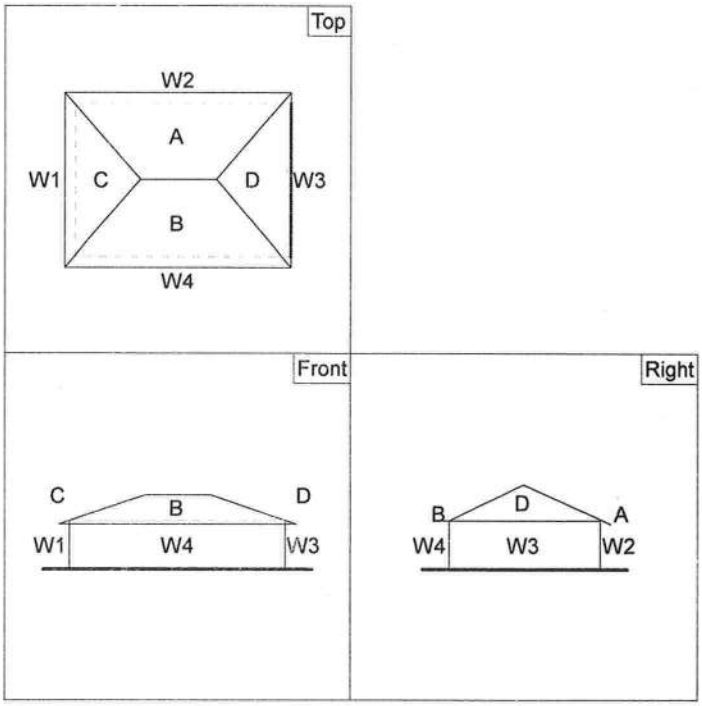
Connected to: Main Section
Connected to wall: W1
Position on W1: 11 ft

Wall	Length(ft)	Overhang(ft)
1	28.0	2.0
2	40.0	2.0
3	28.0	0.0
4	40.0	2.0

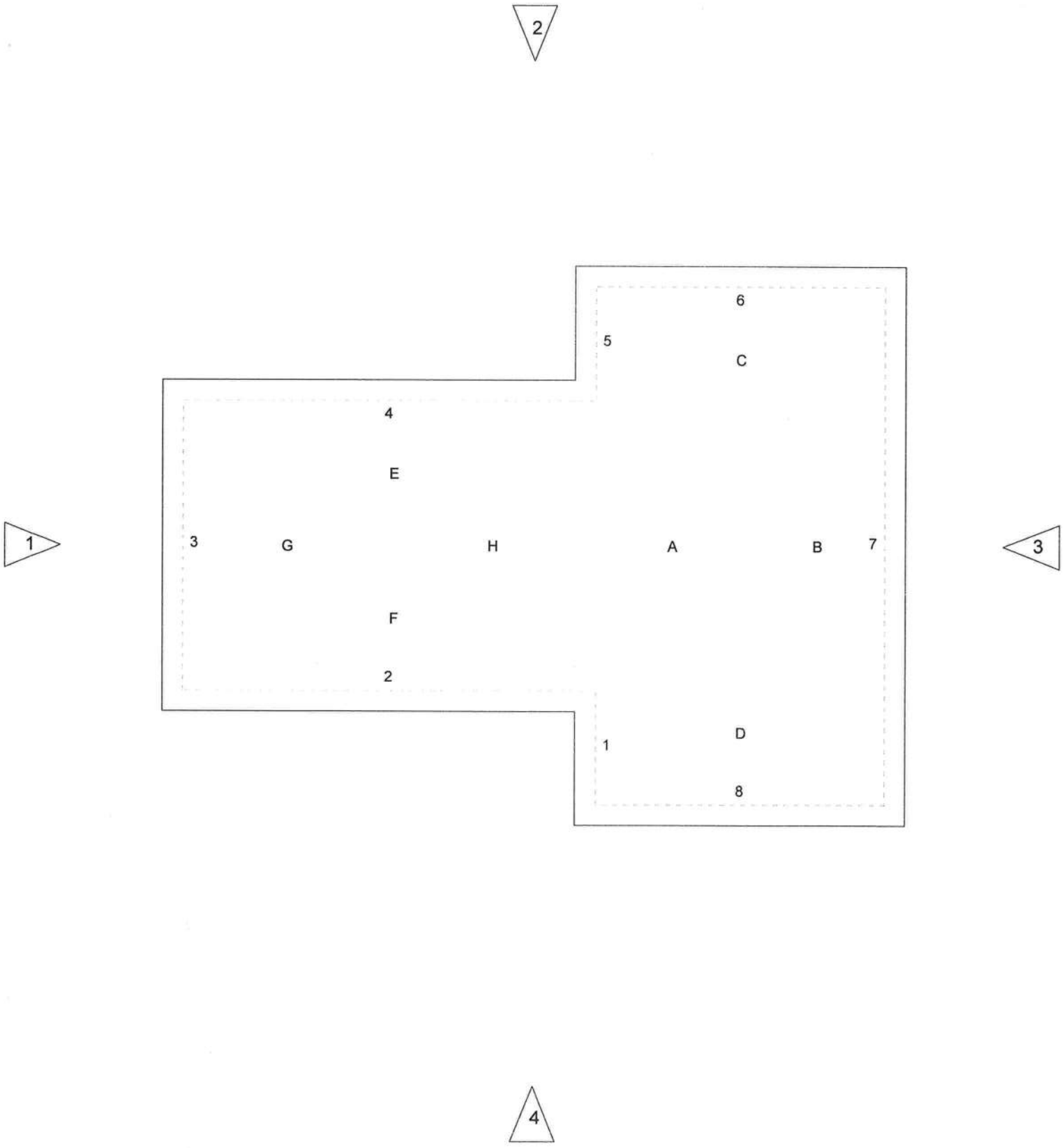
Wall Height: 9 ft
Parapet Height: 0 ft

Roof Shape: Hipped

Roof	Slope(:12)
A&B	4.0
C&D	4.0



Composite Drawing



MWFRS Net Pressures

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

Wind Direction 1

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Windward Wall	0.0	21.1	0.87	0.80	0.18	14.7	10.9	18.5
		9.0	21.1				14.7	10.9	18.5
	Overhang Top	11.3	21.1		0.14	0	2.6		
		11.3	21.1		-0.36		-6.6		
	Overhang Bot	9.0	21.1		0.80		14.7		
2	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
3	Windward Wall	0.0	21.1	0.87	0.80	0.18	14.7	10.9	18.5
		13.7	21.1				14.7	10.9	18.5
	Overhang Top	11.3	21.1		0.14	0	2.6		
		11.3	21.1		-0.36		-6.6		
	Overhang Bot	9.0	21.1		0.80		14.7		
4	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
5	Windward Wall	0.0	21.1	0.87	0.80	0.18	14.7	10.9	18.5
		9.0	21.1				14.7	10.9	18.5
	Overhang Top	11.3	21.1		0.14	0	2.6		
		11.3	21.1		-0.36		-6.6		
	Overhang Bot	9.0	21.1		0.80		14.7		
6	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
7	Leeward Wall	11.3	21.1	0.87	-0.43	0.18	-7.9	-11.7	-4.1
8	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
A	Windward Roof	11.3	21.1	0.87	0.05	0.18	0.9	-2.9	4.7
		11.3	21.1		-0.44		-8.1	-11.9	-4.3
B	Leeward Roof	11.3	21.1	0.87	-0.57	0.18	-10.5	-14.3	-6.7
C&D	Roof	0 to 5.7	21.1	0.87	-0.90	0.18	-16.5	-20.3	-12.7
		5.7 to 11.3	21.1				-16.5	-20.3	-12.7

MWFRS Net Pressures

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

Wind Direction 1

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
C&D	Roof	11.3 to 22.7	21.1	0.87	-0.50	0.18	-9.2	-13.0	-5.4
		22.7 to 28.0	21.1		-0.30		-5.5	-9.3	-1.7
E&F	Roof	0 to 5.7	21.1	0.87	-0.90	0.18	-16.5	-20.3	-12.7
		5.7 to 11.3	21.1				-16.5	-20.3	-12.7
		11.3 to 22.7	21.1		-0.50		-9.2	-13.0	-5.4
		22.7 to 40.0	21.1		-0.30		-5.5	-9.3	-1.7
G	Windward Roof	11.3	21.1	0.87	0.12	0.18	2.2	-1.6	6.0
		11.3	21.1		-0.38		-7.0	-10.8	-3.2
H	Leeward Roof	11.3	21.1	0.87	-0.57	0.18	-10.5	-14.3	-6.7

MWFRS Net Pressures

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

Wind Direction 2

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
2	Leeward Wall	11.3	21.1		-0.50		-9.1	-12.9	-5.3
3	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
4	Windward Wall	0.0	21.1	0.86	0.80	0.18	14.5	10.7	18.3
		9.0	21.1				14.5	10.7	18.3
	Overhang Top	11.3	21.1		0.14	0	2.5		
		11.3	21.1		-0.36		-6.5		
	Overhang Bot	9.0	21.1		0.80		14.5		
5	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
6	Windward Wall	0.0	21.1	0.86	0.80	0.18	14.5	10.7	18.3
		13.7	21.1				14.5	10.7	18.3
	Overhang Top	11.3	21.1		0.14	0	2.5		
		11.3	21.1		-0.36		-6.5		
	Overhang Bot	9.0	21.1		0.80		14.5		
7	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
8	Leeward Wall	11.3	21.1	0.86	-0.50	0.18	-9.1	-12.9	-5.3
A&B	Roof	0 to 5.7	21.1	0.86	-0.90	0.18	-16.3	-20.1	-12.5
		5.7 to 11.3	21.1				-16.3	-20.1	-12.5
		11.3 to 22.7	21.1		-0.50		-9.1	-12.9	-5.3
		22.7 to 50.0	21.1		-0.30		-5.4	-9.2	-1.6
C	Windward Roof	11.3	21.1	0.86	0.14	0.18	2.5	-1.3	6.3
		11.3	21.1		-0.36		-6.5	-10.3	-2.7
D	Leeward Roof	11.3	21.1	0.86	-0.57	0.18	-10.3	-14.1	-6.5
E	Windward Roof	11.3	21.1	0.86	0.05	0.18	0.9	-2.9	4.7

MWFRS Net Pressures

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

Wind Direction 2

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
		11.3	21.1		-0.44		-8.0	-11.8	-4.2
F	Leeward Roof	11.3	21.1	0.86	-0.57	0.18	-10.3	-14.1	-6.5
G&H	Roof	0 to 5.7	21.1	0.86	-0.90	0.18	-16.3	-20.1	-12.5
		5.7 to 11.3	21.1				-16.3	-20.1	-12.5
		11.3 to 22.7	21.1		-0.50		-9.1	-12.9	-5.3
		22.7 to 28.0	21.1		-0.30		-5.4	-9.2	-1.6

MWFRS Net Pressures

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

Wind Direction 3

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Leeward Wall	11.3	21.1	0.87	-0.43	0.18	-7.9	-11.7	-4.1
2	Side Wall	11.3	21.1		-0.70		-12.8	-16.6	-9.1
3	Leeward Wall	11.3	21.1	0.87	-0.43	0.18	-7.9	-11.7	-4.1
4	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
5	Leeward Wall	11.3	21.1	0.87	-0.43	0.18	-7.9	-11.7	-4.1
6	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
7	Windward Wall	0.0	21.1	0.87	0.80	0.18	14.7	10.9	18.5
		9.0	21.1				14.7	10.9	18.5
	Overhang Top	11.3	21.1		0.14	0	2.6		
		11.3	21.1		-0.36		-6.6		
	Overhang Bot	9.0	21.1		0.80		14.7		
8	Side Wall	11.3	21.1	0.87	-0.70	0.18	-12.8	-16.6	-9.1
A	Leeward Roof	11.3	21.1	0.87	-0.57	0.18	-10.5	-14.3	-6.7
B	Windward Roof	11.3	21.1	0.87	0.05	0.18	0.9	-2.9	4.7
		11.3	21.1		-0.44		-8.1	-11.9	-4.3
C&D	Roof	0 to 5.7	21.1	0.87	-0.90	0.18	-16.5	-20.3	-12.7
		5.7 to 11.3	21.1				-16.5	-20.3	-12.7
		11.3 to 22.7	21.1		-0.50		-9.2	-13.0	-5.4
		22.7 to 28.0	21.1		-0.30		-5.5	-9.3	-1.7
E&F	Roof	0 to 5.7	21.1	0.87	-0.90	0.18	-16.5	-20.3	-12.7
		5.7 to 11.3	21.1				-16.5	-20.3	-12.7
		11.3 to 22.7	21.1		-0.50		-9.2	-13.0	-5.4
		22.7 to 40.0	21.1		-0.30		-5.5	-9.3	-1.7

MWFRS Net Pressures

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

Wind Direction 3

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
G	Leeward Roof	11.3	21.1	0.87	-0.57	0.18	-10.5	-14.3	-6.7
H	Windward Roof	11.3	21.1		0.12		2.2	-1.6	6.0
		11.3	21.1		-0.38		-7.0	-10.8	-3.2

MWFRS Net Pressures

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

Wind Direction 4

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
2	Windward Wall	0.0	21.1		0.80		14.5	10.7	18.3
		9.0	21.1				14.5	10.7	18.3
	Overhang Top	11.3	21.1		0.14	0	2.5		
		11.3	21.1		-0.36		-6.5		
	Overhang Bot	9.0	21.1		0.80		14.5		
3	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
4	Leeward Wall	11.3	21.1	0.86	-0.50	0.18	-9.1	-12.9	-5.3
5	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
6	Leeward Wall	11.3	21.1	0.86	-0.50	0.18	-9.1	-12.9	-5.3
7	Side Wall	11.3	21.1	0.86	-0.70	0.18	-12.7	-16.5	-8.9
8	Windward Wall	0.0	21.1	0.86	0.80	0.18	14.5	10.7	18.3
		13.7	21.1				14.5	10.7	18.3
	Overhang Top	11.3	21.1		0.14	0	2.5		
		11.3	21.1		-0.36		-6.5		
	Overhang Bot	9.0	21.1		0.80		14.5		
A&B	Roof	0 to 5.7	21.1	0.86	-0.90	0.18	-16.3	-20.1	-12.5
		5.7 to 11.3	21.1				-16.3	-20.1	-12.5
		11.3 to 22.7	21.1		-0.50		-9.1	-12.9	-5.3
		22.7 to 50.0	21.1		-0.30		-5.4	-9.2	-1.6
C	Leeward Roof	11.3	21.1	0.86	-0.57	0.18	-10.3	-14.1	-6.5
D	Windward Roof	11.3	21.1	0.86	0.14	0.18	2.5	-1.3	6.3
		11.3	21.1		-0.36		-6.5	-10.3	-2.7
E	Leeward Roof	11.3	21.1	0.86	-0.57	0.18	-10.3	-14.1	-6.5

MWFRS Net Pressures

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

Wind Direction 4

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
F	Windward Roof	11.3	21.1	0.86	0.05	0.18	0.9	-2.9	4.7
		11.3	21.1		-0.44		-8.0	-11.8	-4.2
G&H	Roof	0 to 5.7	21.1	0.86	-0.90	0.18	-16.3	-20.1	-12.5
		5.7 to 11.3	21.1				-16.3	-20.1	-12.5
		11.3 to 22.7	21.1		-0.50		-9.1	-12.9	-5.3
		22.7 to 28.0	21.1		-0.30		-5.4	-9.2	-1.6

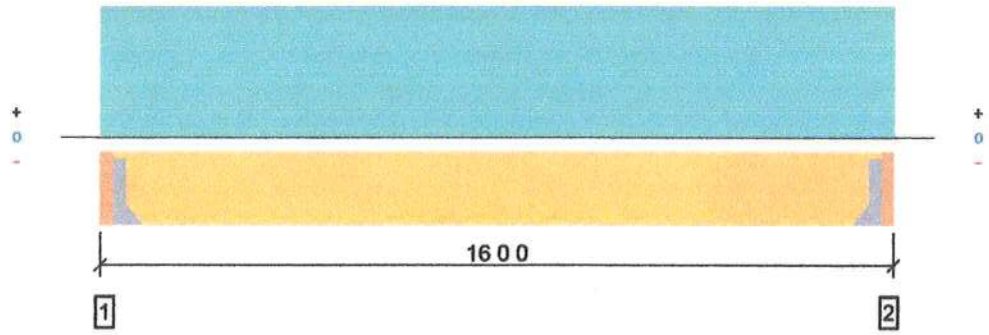
FORTE

MEMBER REPORT *Level, Floor: Joist*

1 piece(s) 2 x 12 Southern Pine No. 2 @ 16" OC

PASSED

Overall Length: 16 0 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	565 @ 0 3 8	1271 (1.50")	Passed (44%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	497 @ 1 2 12	1969	Passed (25%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	2179 @ 8 0 0	2274	Passed (96%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.272 @ 8 0 0	0.385	Passed (L/680)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.374 @ 8 0 0	0.771	Passed (L/495)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	N/A	N/A	--	--	--

System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 2 10 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 15 5 0 o/c unless detailed otherwise.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.
- No composite action between deck and joist was considered in analysis.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Hanger on 11 1/4" SYP beam	3.50"	Hanger[1]	1.50"	160	427	587	See note [1]
2 - Hanger on 11 1/4" SYP beam	3.50"	Hanger[1]	1.50"	160	427	587	See note [1]

- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- [1] See Connector grid below for additional information and/or requirements.

Connector: Simpson Strong-Tie Connectors

Support	Model	Seat Length	Top Nails	Face Nails	Member Nails	Accessories
1 - Face Mount Hanger	LU210	1.50"	N/A	10-10d common	6-10d x 1-1/2	
2 - Face Mount Hanger	LU210	1.50"	N/A	10-10d common	6-10d x 1-1/2	

Loads	Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 16 0 0	16"	15.0	40.0	Residential - Living Areas

Member Notes

Barkley Residence - Floor Joist Framing
32'-0" Wide Area

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

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9/7/2018 7:48:51 AM
Forte v5.3, Design Engine: V7.0.0.5

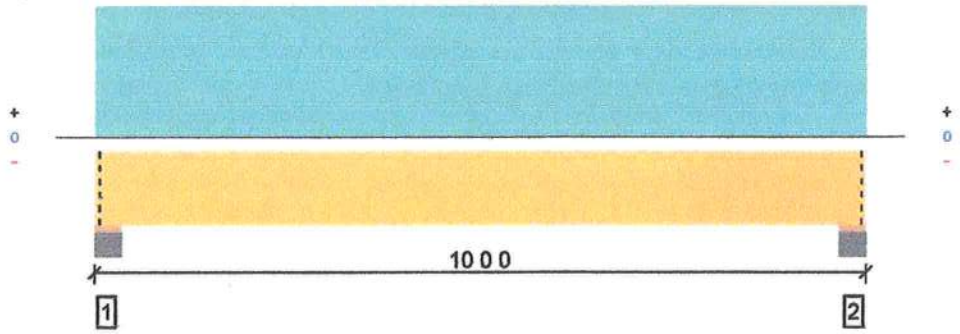
FORTE

MEMBER REPORT *Level, Floor: Flush Beam*

2 piece(s) 4 x 12 Southern Pine No. 2

PASSED

Overall Length: 10 0 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	4510 @ 0 5 12	28674 (7.25")	Passed (16%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	3119 @ 1 6 8	9188	Passed (34%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	9217 @ 5 0 0	10151	Passed (91%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.083 @ 5 0 0	0.226	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.117 @ 5 0 0	0.452	Passed (L/930)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 10 0 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 10 0 0 o/c unless detailed otherwise.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SYP	7.25"	7.25"	1.50"	1300	3210	4510	Blocking
2 - Plate on concrete - SYP	7.25"	7.25"	1.50"	1300	3210	4510	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 0 0 to 10 0 0	N/A	20.0		
1 - Uniform (PLF)	0 0 0 to 10 0 0 (Front)	N/A	240.0	642.0	Residential - Living Areas

Member Notes

Barkley Residence - Floor Joist Framing
32'-0" Wide Area

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

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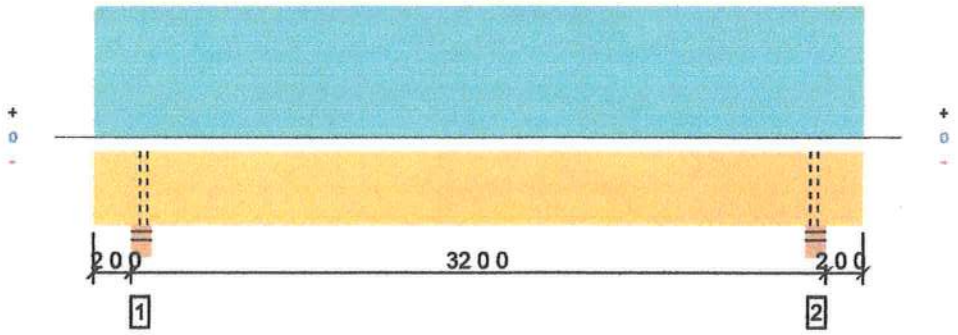
9/7/2018 8:32:06 AM
Forte v5.3, Design Engine: V7.0.0.5

FORTE® MEMBER REPORT *Level, Roof: Joist* **FAILED**

1 piece(s) 6 x 12 Southern Pine No. 2 @ 24" OC

Overall Length: 36 0 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1262 @ 2 2 12	11344 (5.50")	Passed (11%)	--	1.0 D + 1.0 Lr (Adj Spans)
Shear (lbs)	1022 @ 3 5 0	8697	Passed (12%)	1.25	1.0 D + 1.0 Lr (Adj Spans)
Moment (Ft-lbs)	8581 @ 18 0 0	10734	Passed (80%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Live Load Defl. (in)	-0.237 @ 0 0 0	0.200	Failed (2L/226)	--	1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	-0.412 @ 0 0 0	0.223	Failed (2L/130)	--	1.0 D + 1.0 Lr (Alt Spans)

System : Roof
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch: 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Overhang deflection criteria: LL (0.2") and TL (2L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 36 0 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 36 0 0 o/c unless detailed otherwise.
- Upward deflection on left and right cantilevers exceeds 0.4".
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	5.50"	5.50"	1.50"	540	722	1262	Blocking
2 - Stud wall - SPF	5.50"	5.50"	1.50"	540	722	1262	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Spacing	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
1 - Uniform (PSF)	0 0 0 to 36 0 0	24"	15.0	20.0	Roof

Member Notes

Barkley Residence - Roof Loads To Walls
32'-0" Wide Area

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

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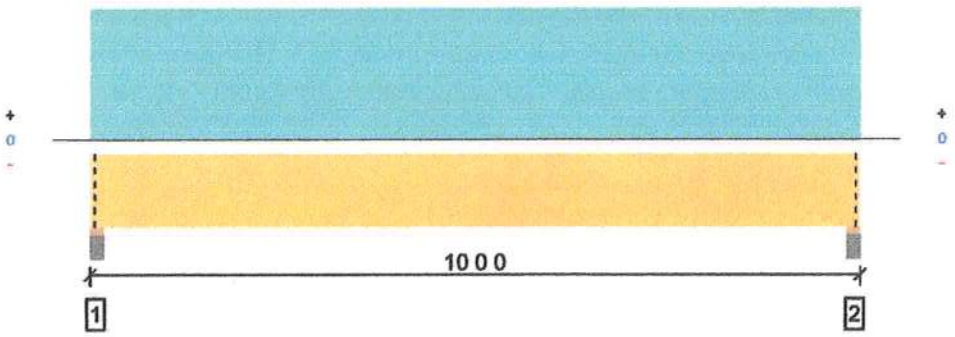
Donald A. Yanskey Donald A. Yanskey, Architect (352) 278-7872 dayayan85arch@gmail.com	

9/7/2018 8:39:14 AM
Forte v5.3, Design Engine: V7.0.0.5

FORTE® **MEMBER REPORT** *Level, Floor: Flush Beam* **PASSED**

2 piece(s) 4 x 12 Southern Pine No. 2

Overall Length: 10 0 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	5057 @ 9 9 12	14831 (3.75")	Passed (34%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	3078 @ 1 3 0	9188	Passed (34%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	9505 @ 5 0 0	10151	Passed (94%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.085 @ 5 0 0	0.241	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.168 @ 5 0 0	0.481	Passed (L/688)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 10 0 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 10 0 0 o/c unless detailed otherwise.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Total	
1 - Plate on concrete - SYP	3.76"	3.76"	1.50"	2500	1605	1805	5910	Blocking
2 - Plate on concrete - SYP	3.75"	3.75"	1.50"	2500	1605	1805	5910	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 0 0 to 10 0 0	N/A	20.0			
1 - Uniform (PLF)	0 0 0 to 10 0 0 (Front)	N/A	270.0	-	361.0	Residential - Living Areas
2 - Uniform (PLF)	0 0 0 to 10 0 0 (Front)	N/A	90.0	-	-	
3 - Uniform (PLF)	0 0 0 to 10 0 0 (Front)	N/A	120.0	321.0	-	

Member Notes

Barkley Residence - Floor Beam Perimeter
32'-0" Wide Area

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

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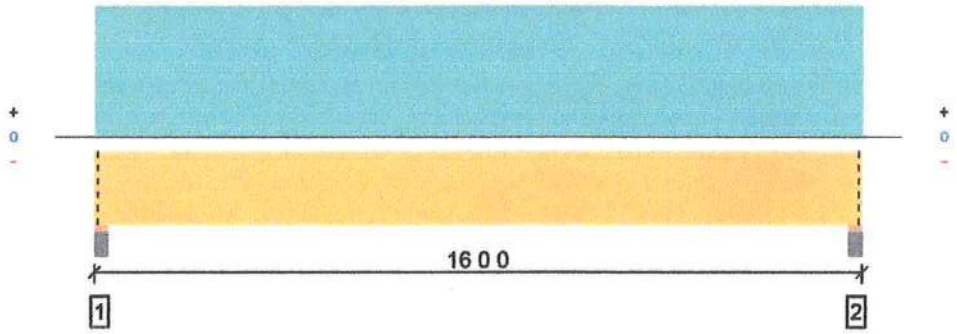
9/7/2018 8:49:24 AM
Forte v5.3, Design Engine: V7.0.0.5

FORTE MEMBER REPORT *Level, Floor: Flush Beam* **PASSED**

1 piece(s) 6 x 12 Southern Pine No. 2

Overall Length: 16 0 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2392 @ 0 2 4	7734 (3.75")	Passed (31%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	2012 @ 1 3 4	8697	Passed (23%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	9125 @ 8 0 0	10734	Passed (85%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.176 @ 8 0 0	0.391	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.479 @ 8 0 0	0.781	Passed (L/391)	--	1.0 D + 1.0 Lr (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 16 0 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16 0 0 o/c unless detailed otherwise.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Plate on concrete - SYP	3.75"	3.75"	1.50"	1512	880	2392	Blocking
2 - Plate on concrete - SYP	3.75"	3.75"	1.50"	1512	880	2392	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 0 0 to 16 0 0	N/A	16.0		
1 - Uniform (PLF)	0 0 0 to 16 0 0 (Front)	N/A	83.0	110.0	Residential - Living Areas
2 - Uniform (PLF)	0 0 0 to 16 0 0 (Front)	N/A	90.0	-	

Member Notes

Barkley Residence - Floor Beam
16'-0" Long Span

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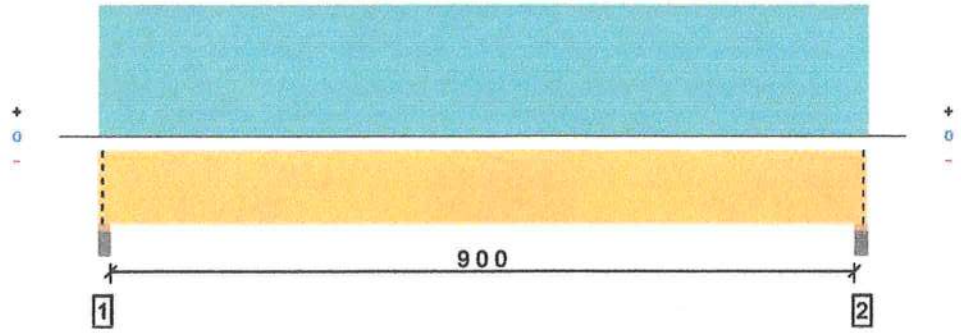
9/7/2018 9:15:25 AM
Forte v5.3, Design Engine: V7.0.0.5

FORTE® **MEMBER REPORT** *Level, Floor: Flush Beam* **PASSED**

2 piece(s) 4 x 12 Southern Pine No. 2

Overall Length: 9 7 0



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3829 @ 0 2 0	13843 (3.50")	Passed (28%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	2847 @ 1 2 12	9188	Passed (31%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	8547 @ 4 9 8	10151	Passed (84%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.080 @ 4 9 8	0.231	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.113 @ 4 9 8	0.463	Passed (L/981)	--	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 9 7 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 9 7 0 o/c unless detailed otherwise.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Plate on concrete - SYP	3.50"	3.50"	1.50"	1114	2715	3829	Blocking
2 - Plate on concrete - SYP	3.50"	3.50"	1.50"	1114	2715	3829	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 0 0 to 9 7 0	N/A	20.0		
1 - Uniform (PSF)	0 0 0 to 9 7 0 (Front)	14 2 0	15.0	40.0	Residential - Living Areas

Member Notes

Barkley Residence - Center Floor Beam
28'-4" Wide Area

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
Donald A. Yanskey Donald A. Yanskey, Architect (352) 278-7872 dayayan85arch@gmail.com	

9/11/2018 2:37:41 PM
Forte v5.3, Design Engine: V7.0.0.5

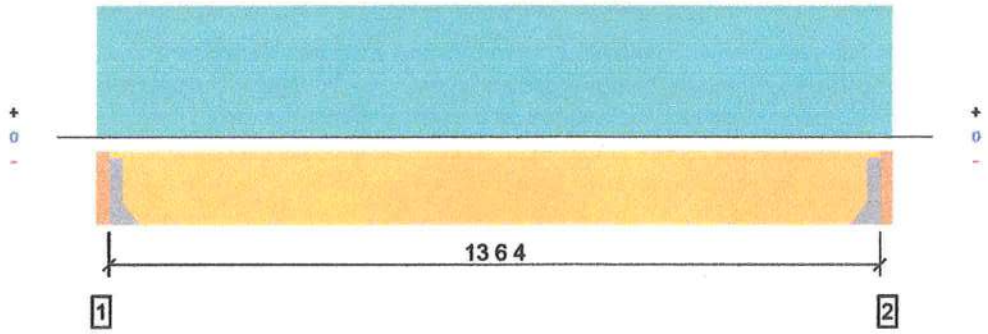
FORTE

MEMBER REPORT *Level, Floor: Joist*

1 piece(s) 2 x 10 Southern Pine No. 2 @ 16" OC

PASSED

Overall Length: 14 1 4



All locations are measured from the outside face of left support (or left cantilever end).All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	496 @ 0 3 8	1271 (1.50")	Passed (39%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	439 @ 1 0 12	1619	Passed (27%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	1676 @ 7 0 10	1640	Passed (102%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.290 @ 7 0 10	0.338	Passed (L/560)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.398 @ 7 0 10	0.676	Passed (L/408)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	N/A	N/A	--	--	--

System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 0 6 0 o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 13 6 0 o/c unless detailed otherwise.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.
- No composite action between deck and joist was considered in analysis.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Hanger on 9 1/4" SYP beam	3.50"	Hanger[1]	1.50"	141	376	517	See note [1]
2 - Hanger on 9 1/4" SYP beam	3.50"	Hanger[1]	1.50"	141	376	517	See note [1]

- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- [1] See Connector grid below for additional information and/or requirements.

Connector: Simpson Strong-Tie Connectors

Support	Model	Seat Length	Top Nails	Face Nails	Member Nails	Accessories
1 - Face Mount Hanger	LU28	1.50"	N/A	8-10d common	6-10d x 1-1/2	
2 - Face Mount Hanger	LU28	1.50"	N/A	8-10d common	6-10d x 1-1/2	

Loads	Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 14 1 4	16"	15.0	40.0	Residential - Living Areas

Member Notes

Barkley Residence - Floor Joist Framing
28'-4" Wide Area

Weyerhaeuser Notes

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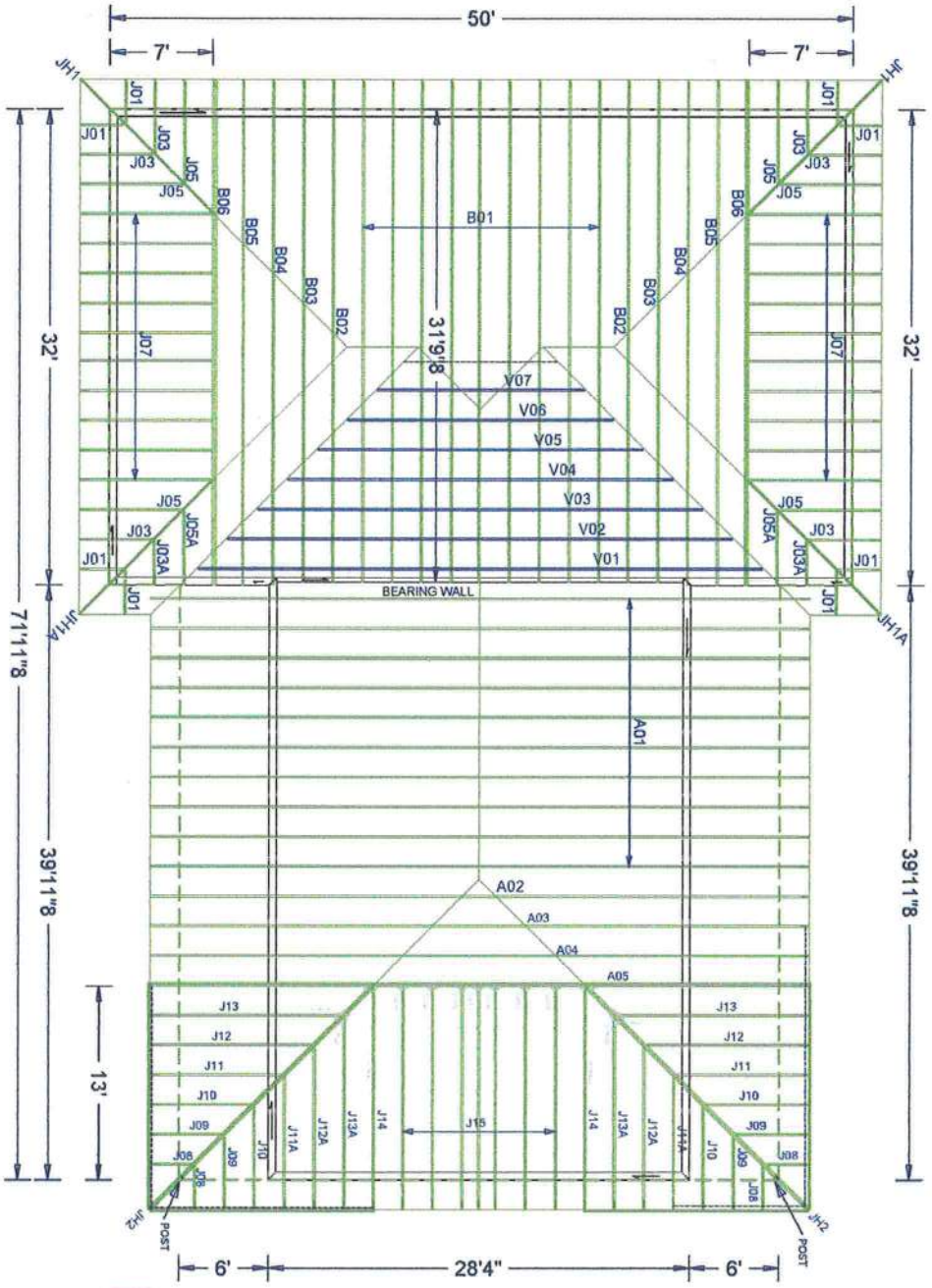
The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
Donald A. Yanskey Donald A. Yanskey, Architect (352) 278-7872 dayayan85arch@gmail.com	

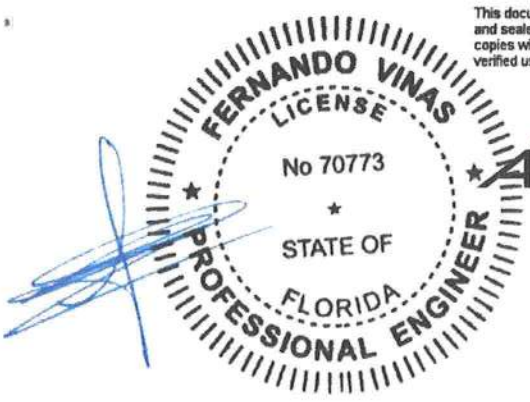
9/7/2018 8:02:42 AM
Forte v5.3, Design Engine: V7.0.0.5



W.B. Howland Truss Co.
610 11TH STREET SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)

ROOF PITCH:4/12 @ 24" OC.
CLG PITCH:FLAT
OVERHANG: 6" CANT & 2' OH, PI
LOADING:40
WIND LOAD:130
EXPOSURE:"C"
EXT WALLS:2 X 6 X 9'
DATE: 10/17/18

PAGE NO: 1 OF 1	JOB NO: 17-1863C	Job Name: BARKLEY Customer: OWNER BUILDER Designer: Bob Glover ADDRESS: SALESMAN: HOUSE : <Not Found>	JOB #: 17-1863C	WB HOWLAND



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ALPINE AN ITW COMPANY

#0-278
03/06/2019

Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

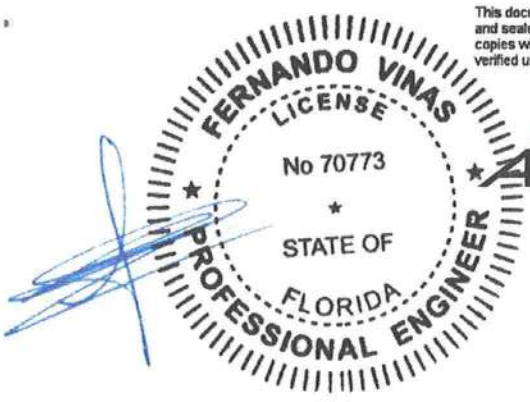
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 17-1863C
Job Description: /BARKLEY /OWNER BUILDER	
Address: FORT WHITE, FL	

Job Engineering Criteria:	
Design Code: FBC2017RES	*View Version:* 18.02.00.1126.20 *JRef #:* 1WJ52150001
Wind Standard: ASCE7_10 *Wind Speed (mph):* 130.000000	*Roof Load (pdf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 38 truss drawing(s) and 2 detail(s).

Item	Seal #	Truss
1	065.19.1114.37917	A01
3	065.19.1114.53147	A03
5	065.19.1115.14213	A05
7	065.19.1115.25950	B02
9	065.19.1115.35923	B04
11	065.19.1115.59677	B06
13	065.19.1118.08120	J03
15	065.19.1118.28587	J05
17	065.19.1118.49030	J07
19	065.19.1121.39167	J09
21	065.19.1122.07867	J11
23	065.19.1122.34603	J12
25	065.19.1123.10320	J13
27	065.19.1120.50723	J14
29	065.19.1124.38563	JH1
31	065.19.1120.37543	JH2

Item	Seal #	Truss
2	065.19.1114.43687	A02
4	065.19.1114.59613	A04
6	065.19.1115.21570	B01
8	065.19.1115.30090	B03
10	065.19.1115.44687	B05
12	065.19.1118.01047	J01
14	065.19.1118.21490	J03A
16	065.19.1118.39907	J05A
18	065.19.1121.18670	J08
20	065.19.1121.53877	J10
22	065.19.1122.21980	J11A
24	065.19.1122.49860	J12A
26	065.19.1123.31247	J13A
28	065.19.1124.04210	J15
30	065.19.1124.52683	JH1A
32	065.19.1125.05347	V01



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03/06/2019

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6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 17-1863C
Job Description: /BARKLEY /OWNER BUILDER	
Address: FORT WHITE, FL	

Item	Seal #	Truss
33	065.19.1125.14577	V02
35	065.19.1125.33333	V04
37	065.19.1125.44063	V06

Item	Seal #	Truss
34	065.19.1125.25250	V03
36	065.19.1125.38437	V05
38	065.19.1125.55773	V07

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AF&PA. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

General Notes (continued)

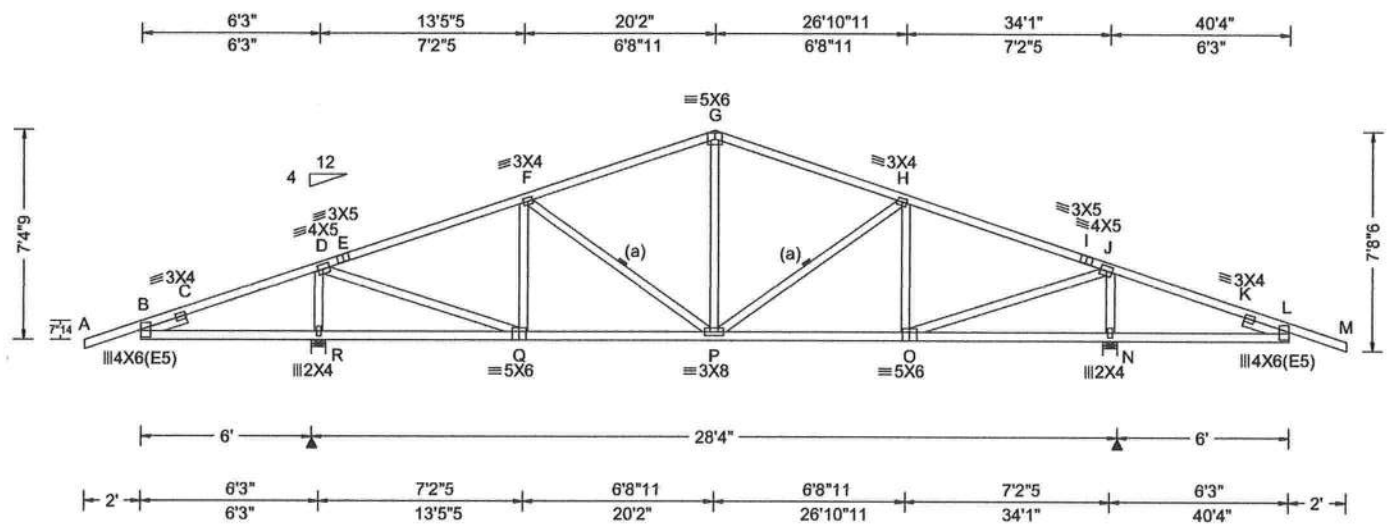
Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:
1. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co

SEQN: 615858 COMN FROM: CDM	Ply: 1 Qty: 10	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** A01	Cust: R 215 JRef: 1WJ52150001 T12 DrwNo: 065.19.1114.37917 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.03 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.064	K	890	240
VERT(CL): 0.169	K	336	180
HORZ(LL): -0.014	K	-	-
HORZ(TL): 0.043	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.902
Max BC CSI: 0.548
Max Web CSI: 0.780

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1815	/-	/-	/1285	/210	/205
N	1815	/-	/-	/1285	/210	/-

Wind reactions based on MWFRS
R Brg Width = 6.0 Min Req = 2.1
N Brg Width = 6.0 Min Req = 2.1
Bearings R & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1376	- 1170	G - H	215	- 1001
C - D	1041	- 950	H - I	205	- 1086
D - E	184	- 1100	I - J	184	- 1100
E - F	205	- 1086	J - K	1041	- 950
F - G	215	- 1001	K - L	1376	- 1170

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	983	- 919	P - O	997	- 113
R - Q	932	- 874	O - N	957	- 874
Q - P	997	- 145	N - L	983	- 919

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - D	668	- 1627	H - O	331	- 462
D - Q	1750	- 715	O - J	1750	- 715
Q - F	331	- 462	J - N	668	- 1627

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.627'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.627'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Left and right cantilevers are exposed to wind

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 2 located at 33.83'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7-4-9.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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

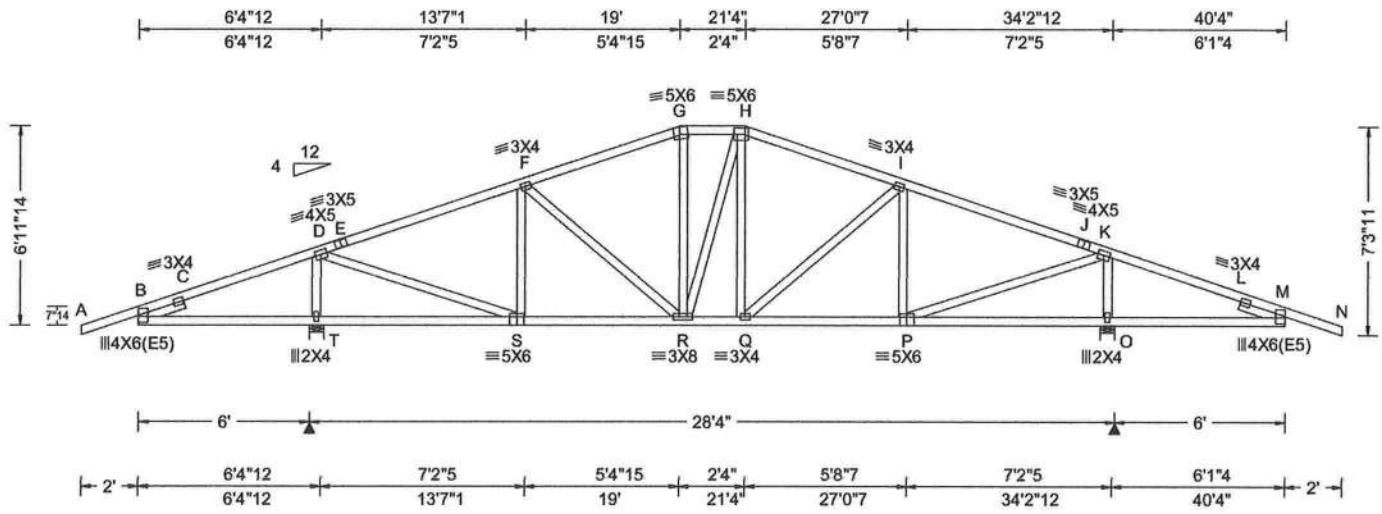
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise,top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and 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 any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615859 HIPS	Ply: 1	Job Number: 17-1863C	Cust: R 215 JRef:1WJ52150001 T21
FROM: CDM	Qty: 1	/BARKLEY /OWNER BUILDER	DrwNo: 065.19.1114.43687
		Truss Label: A02	/ FV 03/06/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.03 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.063	C	895	240
VERT(CL): 0.168	C	335	180
HORZ(LL): -0.014	L	-	-
HORZ(TL): 0.043	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.917
Max BC CSI: 0.474
Max Web CSI: 0.796

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1815	/-	/-	/1285	/211	/196
O	1815	/-	/-	/1285	/211	/-

Wind reactions based on MWFRS
T Brg Width = 6.0 Min Req = 2.1
O Brg Width = 6.0 Min Req = 2.1
Bearings T & O are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1375	- 1163	H - I	240	- 1023
C - D	1039	- 950	I - J	230	- 1081
D - E	208	- 1096	J - K	208	- 1096
E - F	230	- 1082	K - L	1039	- 950
F - G	239	- 1021	L - M	1375	- 1163
G - H	254	- 911			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	983	- 918	Q - P	992	- 117
T - S	931	- 872	P - O	957	- 872
S - R	992	- 137	O - M	983	- 918
R - Q	910	- 77			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - D	678	- 1626	I - P	335	- 465
D - S	1741	- 730	P - K	1741	- 730
S - F	335	- 464	K - O	678	- 1626

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.649'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.649'

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left and right cantilevers are exposed to wind

Blocking
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 2 located at 33.83'

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-11-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/06/2019

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

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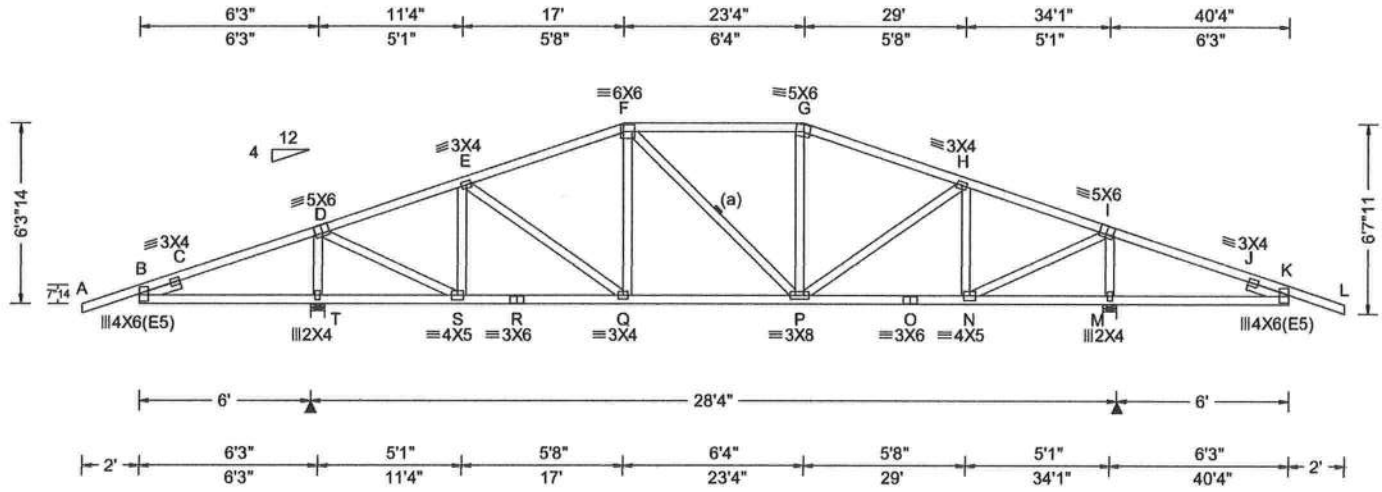
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615897 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** A03	Cust: R 215 JRef: 1WJ52150001 T4 DrwNo: 065.19.1114.53147 / FV 03/06/2019



Loading Criteria (psf)

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TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.03 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.068	C	858	240
VERT(CL): 0.161	C	362	180
HORZ(LL): 0.017	C	-	-
HORZ(TL): 0.040	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.739
Max BC CSI: 0.481
Max Web CSI: 0.614

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1811	/-	/-	/1282	/212	/179
M	1812	/-	/-	/1282	/212	/-

Wind reactions based on MWFRS
T Brg Width = 6.0 Min Req = 2.1
M Brg Width = 6.0 Min Req = 2.1
Bearings T & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1364	- 1143	G - H	275	- 1097
C - D	1052	- 941	H - I	214	- 898
D - E	214	- 899	I - J	1053	- 941
E - F	276	- 1096	J - K	1364	- 1143
F - G	292	- 990			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	977	- 931	P - O	836	- 194
T - S	926	- 885	O - N	836	- 194
S - R	837	- 132	N - M	951	- 885
R - Q	837	- 132	M - K	977	- 931
Q - P	990	- 94			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - D	672	- 1637	P - H	395	- 281
D - S	1611	- 656	H - N	353	- 649
S - E	353	- 651	N - I	1610	- 657
E - Q	392	- 278	I - M	672	- 1638

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Bracing
(a) Continuous lateral restraint equally spaced on member.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left and right cantilevers are exposed to wind

Blocking
Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 2 located at 33.83'

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-3-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/06/2019

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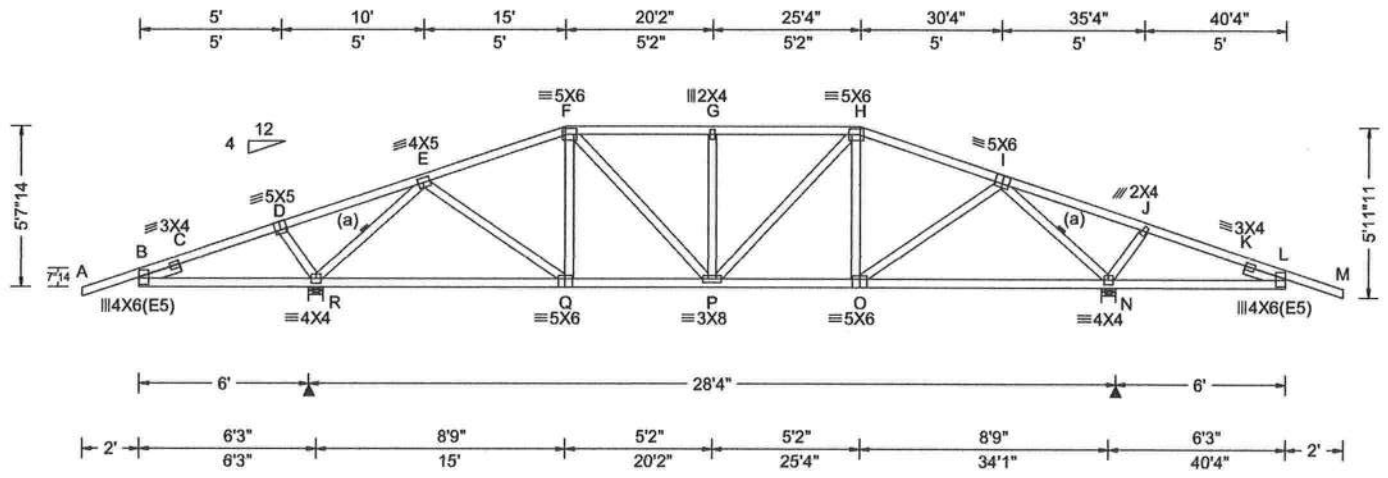
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615861 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** A04	Cust: R 215 JRef: 1WJ52150001 T3 DrwNo: 065.19.1114.59613 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.03 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.045	G	999	240
VERT(CL): 0.091	C	641	180
HORZ(LL): 0.015	J	-	-
HORZ(TL): 0.034	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.596
Max BC CSI: 0.685
Max Web CSI: 0.441

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1814	/-	/-	/1275	/214	/162
N	1812	/-	/-	/1275	/214	/-

Wind reactions based on MWFRS
R Brg Width = 6.0 Min Req = 2.1
N Brg Width = 6.0 Min Req = 2.1
Bearings R & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1203	- 1260	G - H	280	- 1147
C - D	917	- 924	H - I	280	- 1105
D - E	1079	- 955	I - J	1075	- 953
E - F	280	- 1106	J - K	915	- 923
F - G	280	- 1147	K - L	1200	- 1260

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	951	- 814	P - O	1001	- 110
R - Q	634	- 148	O - N	644	- 271
Q - P	1001	- 85	N - L	949	- 811

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - E	826	- 1889	O - I	678	- 326
E - Q	674	- 325	I - N	825	- 1882

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Bracing
(a) Continuous lateral restraint equally spaced on member.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left and right cantilevers are exposed to wind

Blocking
Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 2 located at 33.83'

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-7-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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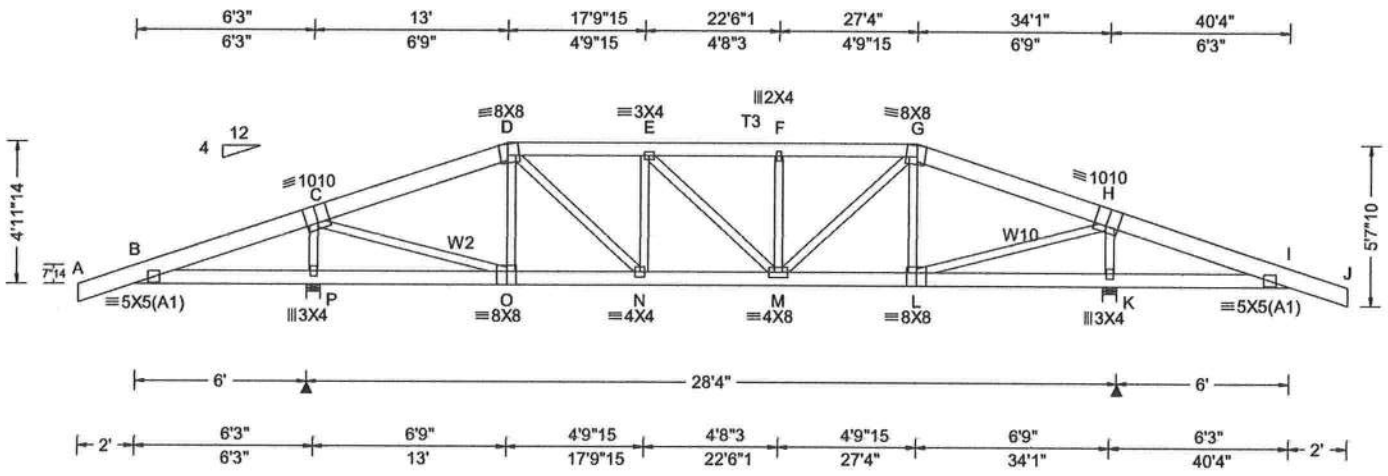
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615894 HIPS FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** A05	Cust: R 215 JRef:1WJ52150001 T2 DrwNo: 065.19.1115.14213 / FV 03/06/2019

2 Complete Trusses Required



Loading Criteria (psf)
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TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.03 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.088	F	999	240
VERT(CL): 0.177	F	999	180
HORZ(LL): 0.012	D	-	-
HORZ(TL): 0.026	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.259
Max BC CSI: 0.858
Max Web CSI: 0.742

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
P	4871 /-	/-	/-	/1025	/-
K	4871 /-	/-	/-	/1025	/-

Wind reactions based on MWFRS
P Brg Width = 6.0 Min Req = 2.9
K Brg Width = 6.0 Min Req = 2.9
Bearings P & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1688	-544	F - G	268	-2583
C - D	206	-1833	G - H	207	-1835
D - E	266	-2567	H - I	1689	-545
E - F	268	-2583			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	510	-1588	M - L	1693	-178
P - O	498	-1540	L - K	498	-1541
O - N	1691	-178	K - I	510	-1589
N - M	2569	-268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	533	-2310	M - G	1293	-123
C - O	3282	-711	G - L	67	-437
D - O	68	-449	L - H	3285	-712
D - N	1289	-122	H - K	533	-2312

Lumber

Top chord 2x8 SP 2400f-2.0E :T3 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W2, W10 2x4 SP #2:

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	61 plf at	-2.00 to	61 plf at	13.00
TC: From	31 plf at	13.00 to	31 plf at	27.33
TC: From	61 plf at	27.33 to	61 plf at	42.33
BC: From	4 plf at	-2.00 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	13.00
BC: From	10 plf at	13.00 to	10 plf at	27.33
BC: From	20 plf at	27.33 to	20 plf at	40.33
BC: From	4 plf at	40.33 to	4 plf at	42.33

TC: 650 lb Conc. Load at -2.00,42.33
BC: 887 lb Conc. Load at 12.99,27.35
BC: 517 lb Conc. Load at 15.06,17.06,19.06,20.17 21.27,23.27,25.27

Purlins

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

Wind

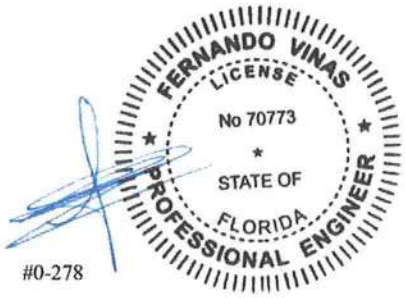
Wind loads and reactions based on MWFRS.
Left and right cantilevers are exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-11-14.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/06/2019

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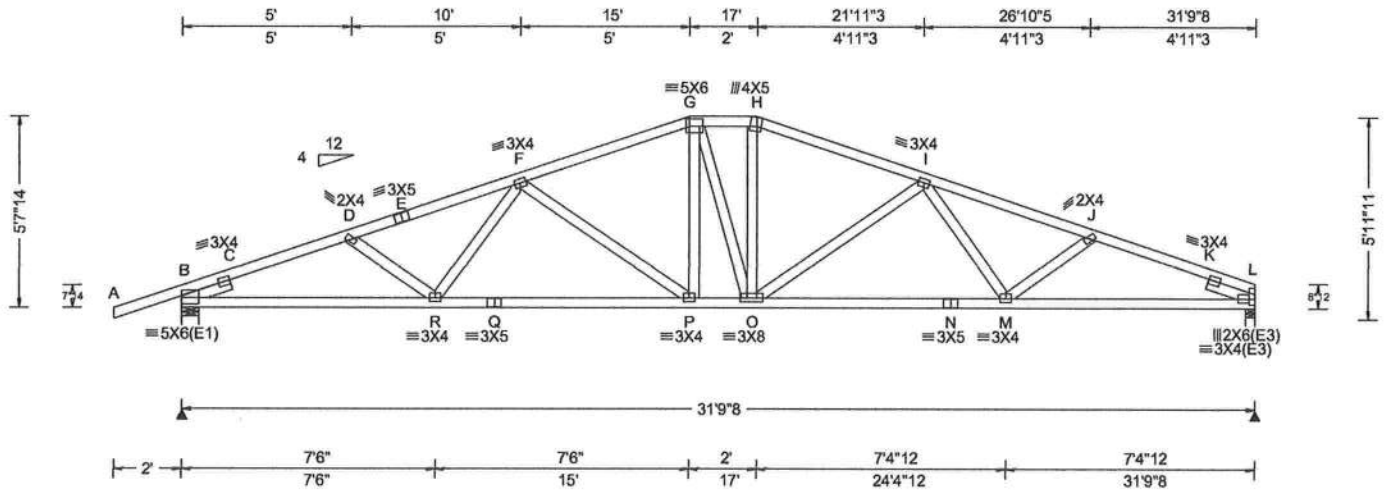
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615863 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** B02	Cust: R 215 JRef: 1WJ52150001 T6 DrwNo: 065.19.1115.25950 / FV 03/06/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.18 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.181	P	999	240
VERT(CL): 0.362	P	999	180
HORZ(LL): 0.060	M	-	-
HORZ(TL): 0.120	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.339
Max BC CSI: 0.927
Max Web CSI: 0.467

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1424	/-	/-	/841	/97	/133
L	1285	/-	/-	/733	/53	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.7
L Brg Width = 3.5 Min Req = 1.5
Bearings B & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	767	-2933	G - H	563	-1917
C - D	700	-2902	H - I	574	-2062
D - E	661	-2725	I - J	680	-2685
E - F	672	-2696	J - K	720	-2844
F - G	575	-2073	K - L	729	-2887

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2695	-626	O - N	2378	-533
R - Q	2399	-553	N - M	2378	-533
Q - P	2399	-553	M - L	2637	-633
P - O	1915	-409			

Maximum Web Forces Per Ply (lbs)

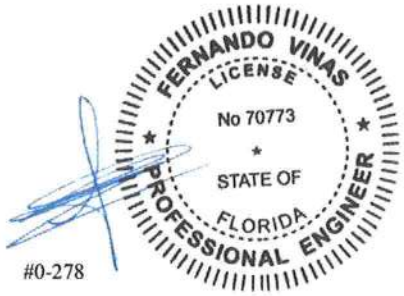
Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - P	178	-598	O - H	437	-113
G - P	438	-91	O - I	176	-583

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-7-14.



#0-278

03/06/2019

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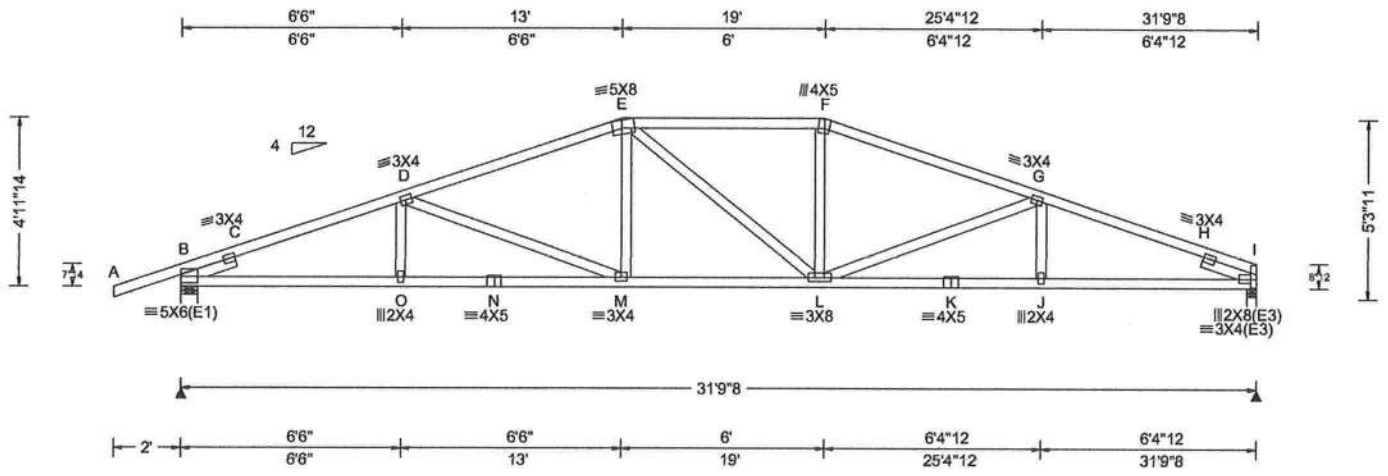
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615864 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** B03	Cust: R215 JRef: 1WJ52150001 T14 DrwNo: 065.19.1115.30090 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.18 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.178	M	999	240
VERT(CL): 0.357	M	999	180
HORZ(LL): 0.060	J	-	-
HORZ(TL): 0.121	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.476
Max BC CSI: 0.762
Max Web CSI: 0.557

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1424	/-	/-	/840	/117	/117
I	1285	/-	/-	/732	/69	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.7
I Brg Width = 3.5 Min Req = 1.5
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	802	-2922	F - G	641	-2305
C - D	734	-2887	G - H	730	-2838
D - E	651	-2321	H - I	770	-2904
E - F	633	-2140			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2684	-652	L - K	2631	-635
O - N	2679	-654	K - J	2631	-635
N - M	2679	-654	J - I	2635	-634
M - L	2142	-508			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	156	-579	L - F	400	-57
E - M	409	-40	L - G	161	-540

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.693'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.688'

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

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-11-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/06/2019

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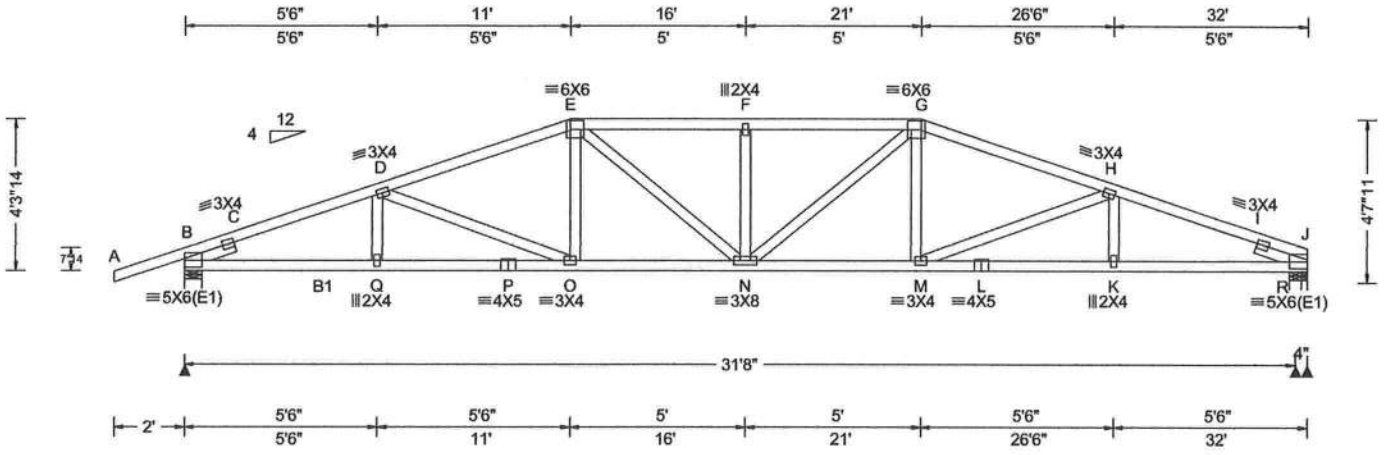
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615865 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** B04	Cust: R215 JRef: 1WJ52150001 T58 DrwNo: 065.19.1115.35923 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.20 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.189	F	999	240
VERT(CL): 0.379	F	999	180
HORZ(LL): 0.052	K	-	-
HORZ(TL): 0.105	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.675
Max Web CSI: 0.691

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1432	/-	/-	/841	/277	/104
R	110	/-	/-	/85	/15	/-
J	1276	/-	/-	/651	/239	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.7
R Brg Width = 4.0 Min Req = 1.5
J Brg Width = 2.0 Min Req = 1.5
Bearings B, R, & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	818	- 2931	F - G	758	- 2587
C - D	760	- 2900	G - H	704	- 2540
D - E	710	- 2526	H - I	756	- 2902
E - F	758	- 2587	I - J	827	- 2938

Maximum Bot Chord Forces Per Ply (lbs)

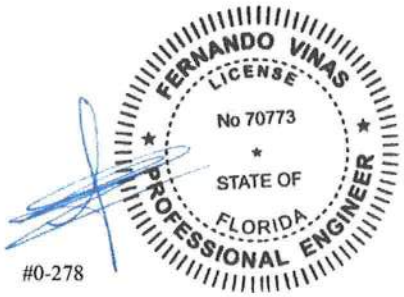
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2694	- 679	N - M	2361	- 569
Q - P	2690	- 680	M - L	2691	- 675
P - O	2690	- 680	L - K	2691	- 675
O - N	2348	- 578	K - J	5306	- 1332

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP 2400f-2.0E :B1 2x4 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-3-14.



#0-278

03/06/2019

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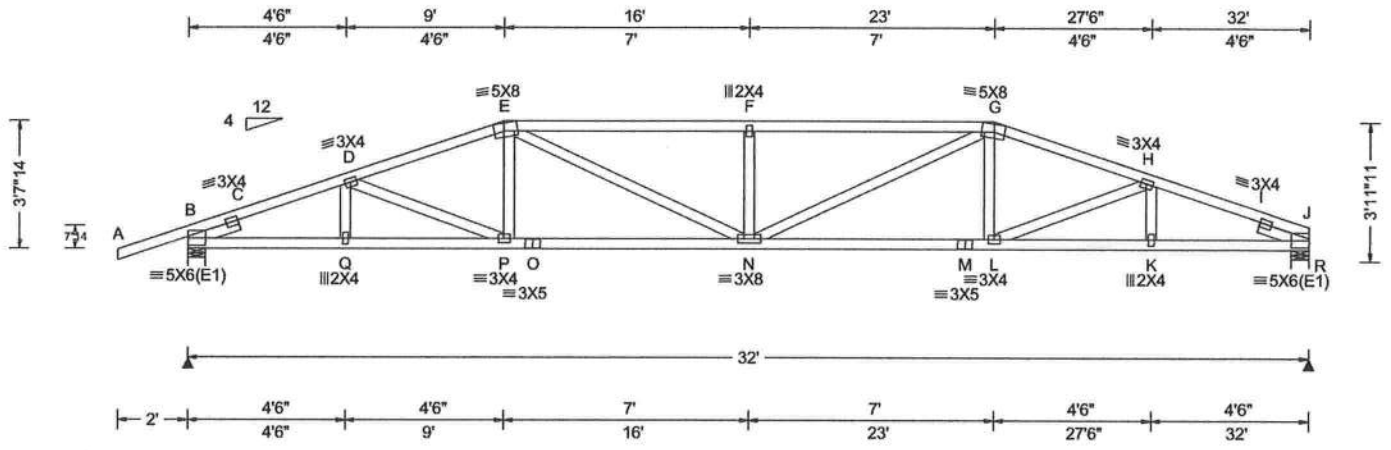
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615866 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** B05	Cust: R 215 JRef: 1WJ52150001 T28 DrwNo: 065.19.1115.44687 / FV 03/06/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.20 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.240	F	999	240
VERT(CL): 0.481	F	798	180
HORZ(LL): 0.060	K	-	-
HORZ(TL): 0.120	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.757
Max BC CSI: 0.821
Max Web CSI: 0.265

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1432	/-	/-	/834	/278	/89
R	1293	/-	/-	/728	/239	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.7
R Brg Width = 6.0 Min Req = 1.5
Bearings B & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	802	- 2871	F - G	907	- 3163
C - D	767	- 2840	G - H	760	- 2723
D - E	762	- 2705	H - I	782	- 2900
E - F	907	- 3163	I - J	839	- 2933

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2635	- 689	N - M	2551	- 635
Q - P	2633	- 691	M - L	2551	- 635
P - O	2535	- 646	L - K	2699	- 697
O - N	2535	- 646	K - J	2700	- 695

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - N	696	- 203	N - G	679	- 187
F - N	185	- 455			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Purlins

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

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-7-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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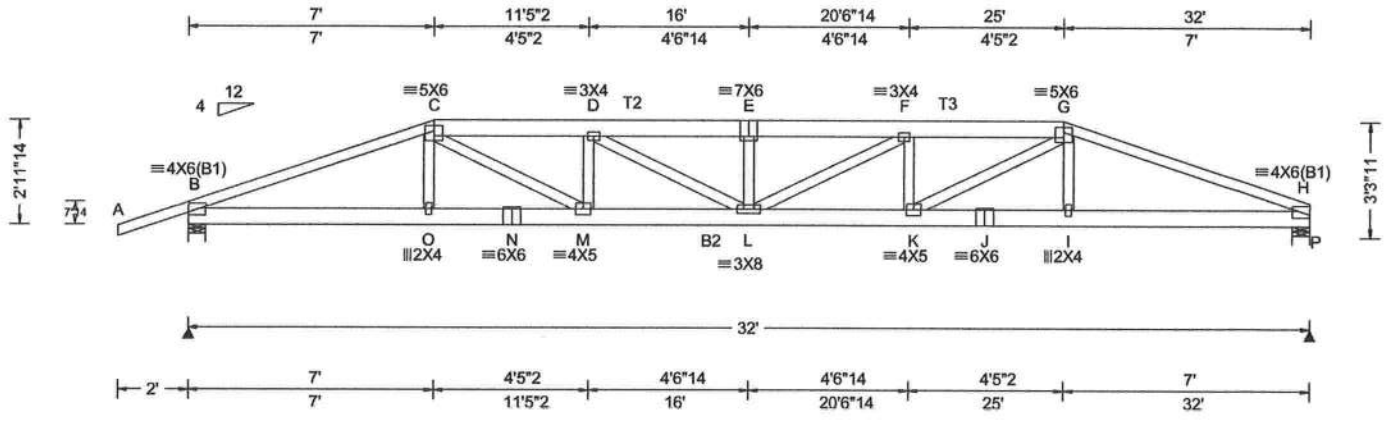
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615895 HIPS FROM: CDM	Ply: 2 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** B06	Cust: R215 JRef:1WJ52150001 T9 DrwNo: 065.19.1115.59677 / FV 03/06/2019

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.20 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.316 E 999 240 VERT(CL): 0.631 E 602 180 HORZ(LL): 0.059 I - - HORZ(TL): 0.118 I - - Creep Factor: 2.0 Max TC CSI: 0.643 Max BC CSI: 0.908 Max Web CSI: 0.613 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	3059 / -	/ -	/ -	/616	/ -
P	2938 / -	/ -	/ -	/568	/ -

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
P Brg Width = 6.0 Min Req = 1.5
Bearings B & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	689	-3568	E - F	985	-5150
C - D	902	-4719	F - G	909	-4740
D - E	985	-5150	G - H	706	-3619

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	3342	-638	L - K	4800	-925
O - N	3339	-641	K - J	3388	-658
N - M	3339	-641	J - I	3388	-658
M - L	4781	-918	I - H	3392	-656

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - M	1608	-304	L - F	403	-69
M - D	149	-553	F - K	144	-538
D - L	425	-77	K - G	1576	-292

Lumber

Top chord 2x4 SP 2400f-2.0E :T2, T3 2x6 SP #2:
Bot chord 2x6 SP 2400f-2.0E :B2 2x6 SP #2:
Webs 2x4 SP #3

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" 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.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	61 plf at	-2.00 to	61 plf at	7.00
TC: From	31 plf at	7.00 to	31 plf at	25.00
TC: From	61 plf at	25.00 to	61 plf at	32.00
BC: From	4 plf at	-2.00 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.03
BC: From	10 plf at	7.03 to	10 plf at	24.97
BC: From	20 plf at	24.97 to	20 plf at	32.00

TC: 286 lb Conc. Load at 7.03
TC: 187 lb Conc. Load at 9.06,11.06,13.06,15.06 16.94,18.94,20.94,22.94
TC: 292 lb Conc. Load at 24.97
BC: 427 lb Conc. Load at 7.03
BC: 131 lb Conc. Load at 9.06,11.06,13.06,15.06 16.94,18.94,20.94,22.94
BC: 455 lb Conc. Load at 24.97

Purlins

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

Wind

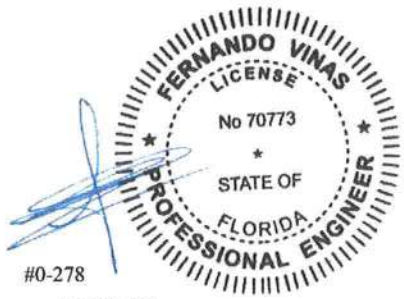
Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-11-14.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/06/2019

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

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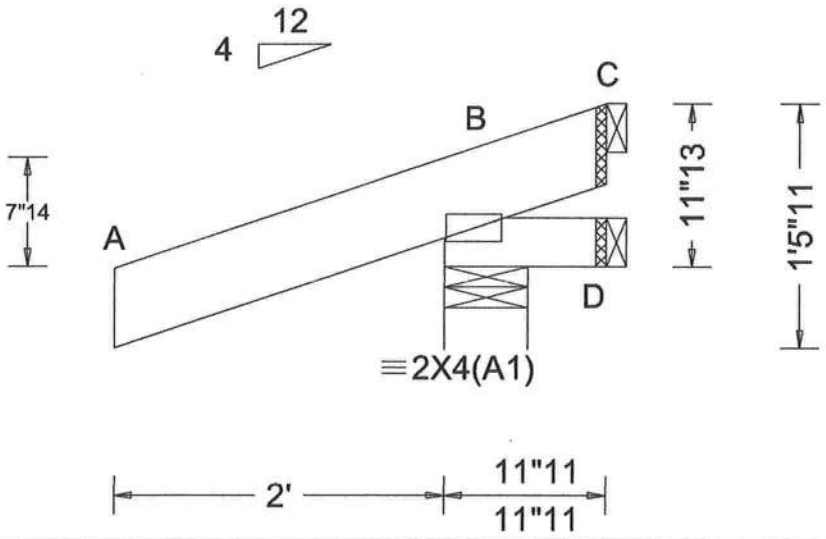
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615867 JACK FROM: CDM	Ply: 1 Qty: 8	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J01	Cust: R215 JRef: 1WJ52150001 T26 DrwNo: 065.19.1118.01047 / FV 03/06/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.201 Max BC CSI: 0.024 Max Web CSI: 0.000 VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	358	/-	/-	/268	/142	/32
D	9	/-7	/-	/14	/8	/-
C	-	/-141	/-	/74	/117	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord 2x6 SP #2
Bot chord 2x4 SP #2

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 0-11-13.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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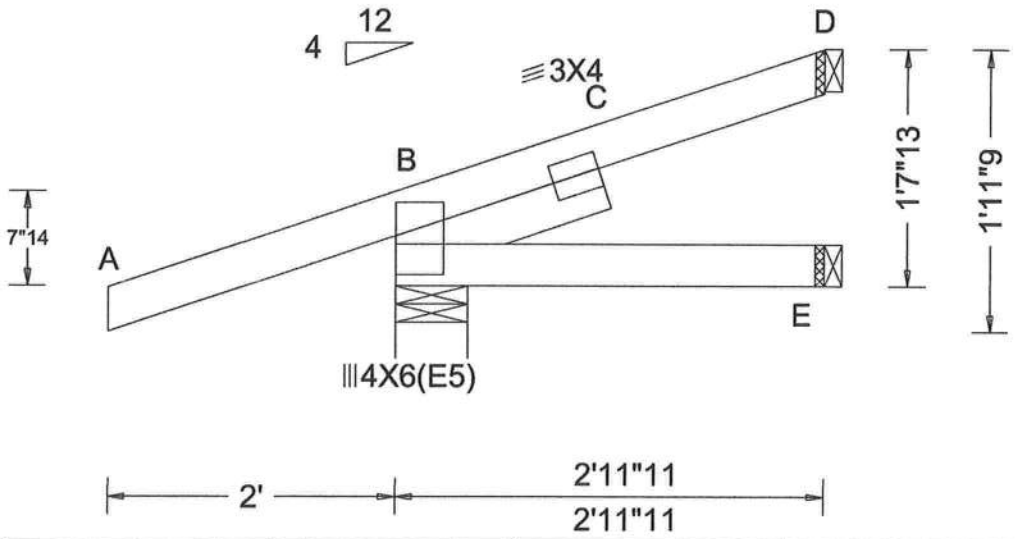
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615868 JACK FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J03	Cust: R 215 JRef: 1WJ52150001 T10 DrwNo: 065.19.1118.08120 / FV 03/06/2019	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.002	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.308
Max BC CSI: 0.079
Max Web CSI: 0.065

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	295	/-	/-	/211	/81	/47
E	54	/-	/-	/38	/-	/-
D	49	/-	/-	/20	/20	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-7-13.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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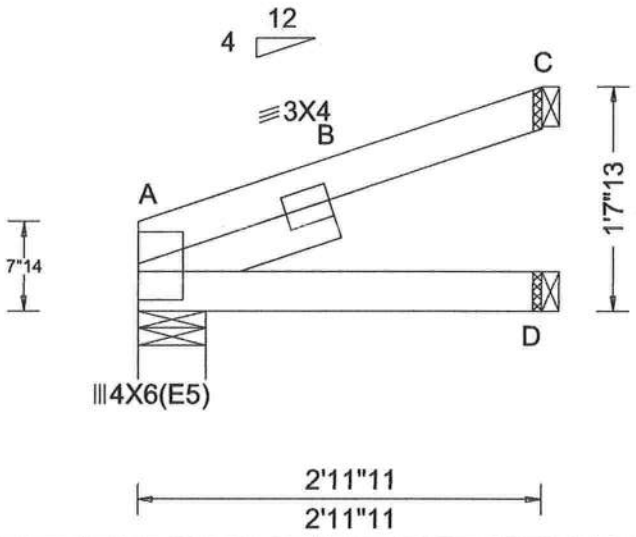
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615869 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J03A		Cust: R 215 JRef: 1WJ52150001 T57 DrwNo: 065.19.1118.21490 / FV 03/06/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.003 B - - HORZ(TL): 0.007 B - - Creep Factor: 2.0 Max TC CSI: 0.165 Max BC CSI: 0.086 Max Web CSI: 0.070 VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	121	/-	/-	/76	/14	/28
D	56	/-	/-	/39	/-	/-
C	87	/-	/-	/39	/31	/-

Wind reactions based on MWFRS
A Brg Width = 6.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind

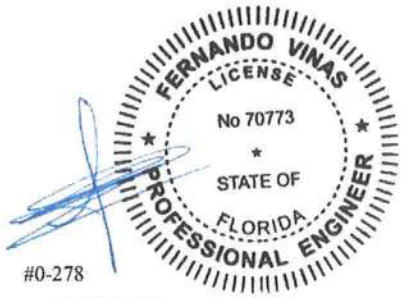
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-7-13.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.



#0-278

03/06/2019

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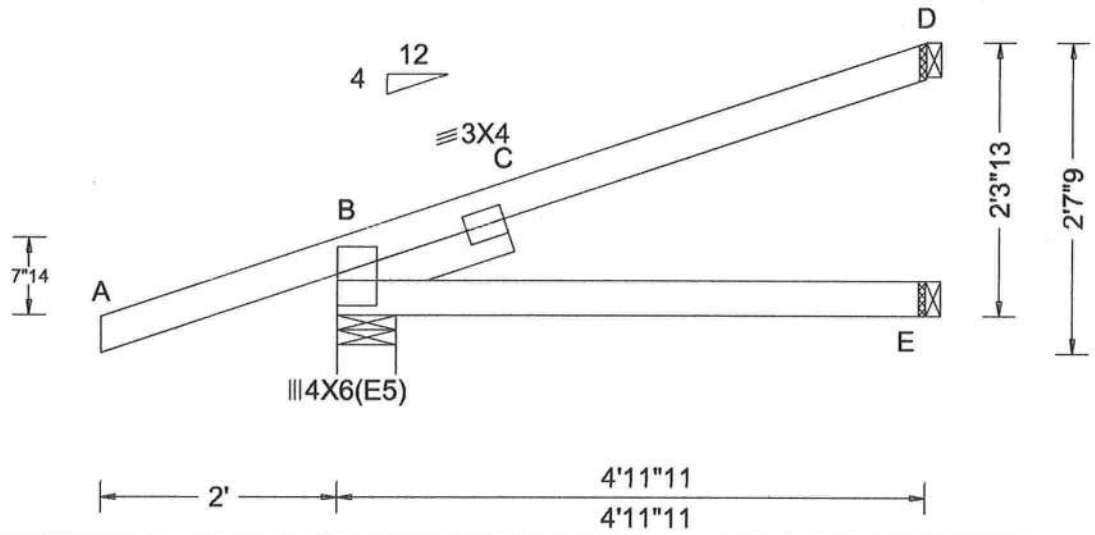
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615870 JACK FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J05	Cust: R215 JRef:1WJ52150001 T35 DrwNo: 065.19.1118.28587 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.010	C	-	-
HORZ(TL): 0.019	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.330
Max BC CSI: 0.251
Max Web CSI: 0.202

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	359	/-	/-	/249	/73	/66
E	92	/-	/-	/63	/-	/-
D	123	/-	/-	/49	/43	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	361	-453

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-3-13.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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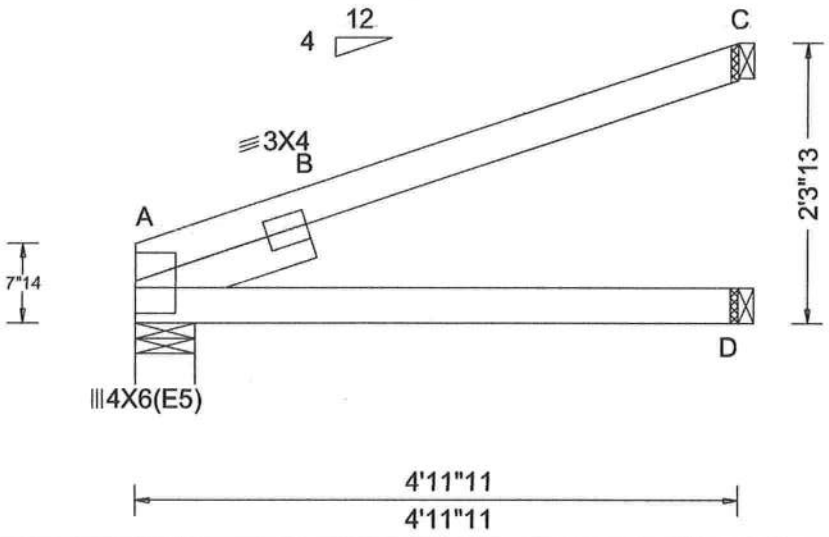
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615871 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J05A	Cust: R 215 JRef: 1WJ52150001 T27 DrwNo: 065.19.1118.39907 / FV 03/06/2019	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): 0.017	B	-	-
HORZ(TL): 0.034	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.416
Max BC CSI: 0.265
Max Web CSI: 0.242

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	/ Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
A	202	/-	/-	/127	/26	/47
D	95	/-	/-	/66	/-	/-
C	143	/-	/-	/64	/49	/-

Wind reactions based on MWFRS
A Brg Width = 6.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	597	-667

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-3-13.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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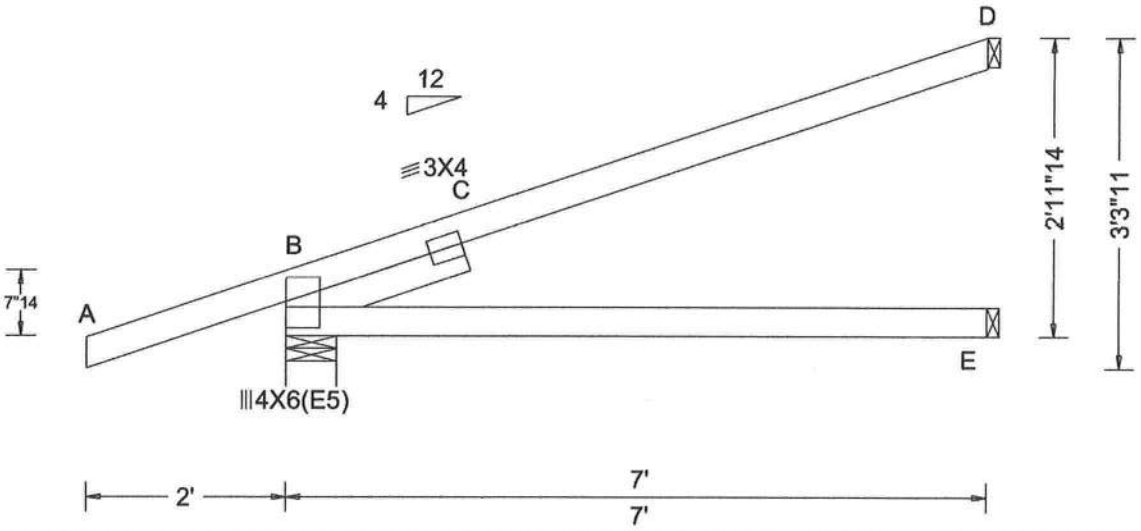
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615872 EJAC FROM: CDM	Ply: 1 Qty: 20	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J07	Cust: R 215 JRef: 1WJ52150001 T34 DrwNo: 065.19.1118.49030 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.044 C - -
HORZ(TL): 0.085 C - -
Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.538
Max Web CSI: 0.384

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	433	/-	/-	/295	/79	/86
E	131	/-	/-	/89	/-	/-
D	187	/-	/-	/80	/64	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	833	-955

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.863'

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

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-11-14.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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

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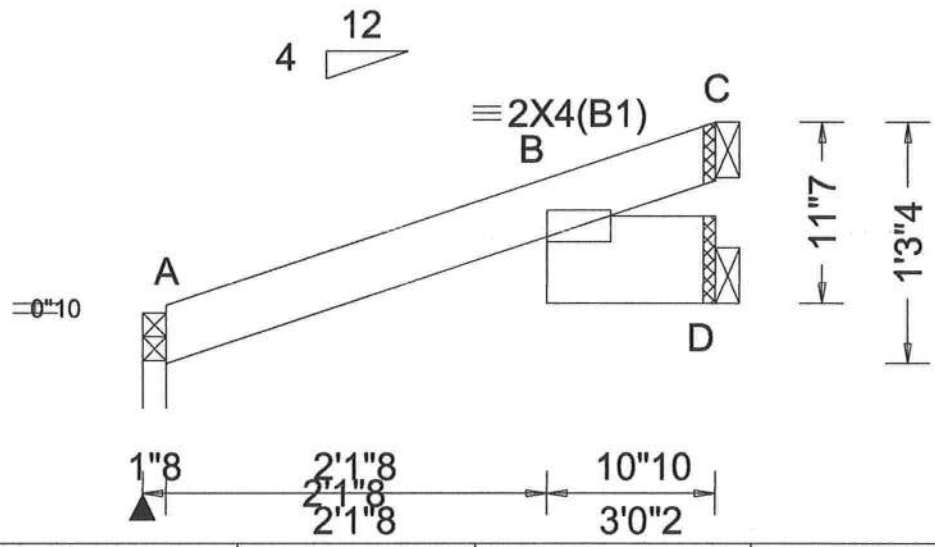
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615873 JACK FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J08		Cust: R 215 JRef: 1WJ52150001 T30 DrwNo: 065.19.1121.18670 / FV 03/06/2019	



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**				**▲Maximum Reactions (lbs)**						
TCLL:	20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#		Gravity			Non-Gravity		
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.008	D	999	240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.015	D	999	180	A	96	/-	/-	/75	/42	/-
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.005	C	-	-	D	19	/-	/-	/27	/16	/32
Des Ld:	40.00	EXP: C Kzt: NA	**Code / Misc Criteria**	HORZ(TL): 0.009	C	-	-	C	96	/-	/-	/61	/22	/-
NCBCLL:	10.00	Mean Height: 15.00 ft	Bldg Code: FBC 2017 RES	Creep Factor: 2.0				Wind reactions based on MWFRS						
Soffit:	2.00	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI: 0.213				A Brg Width = 1.5						
Load Duration:	1.25	BCDL: 5.0 psf	Rep Fac: Yes	Max BC CSI: 0.005				D Brg Width = 1.5						
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI: 0.000				C Brg Width = 1.5						
		C&C Dist a: 3.00 ft	Plate Type(s):					Members not listed have forces less than 375#						
		Loc. from endwall: Any	WAVE	VIEW Ver: 18.02.00A.1126.20										
		GCpi: 0.18												
		Wind Duration: 1.60												

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2

Wind

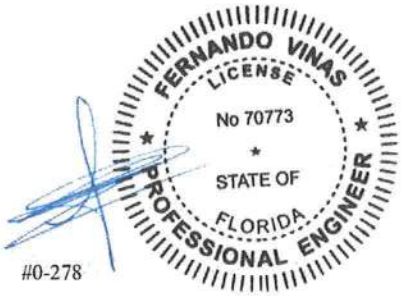
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 0-11-7.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.



#0-278

03/06/2019

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

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and 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 any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

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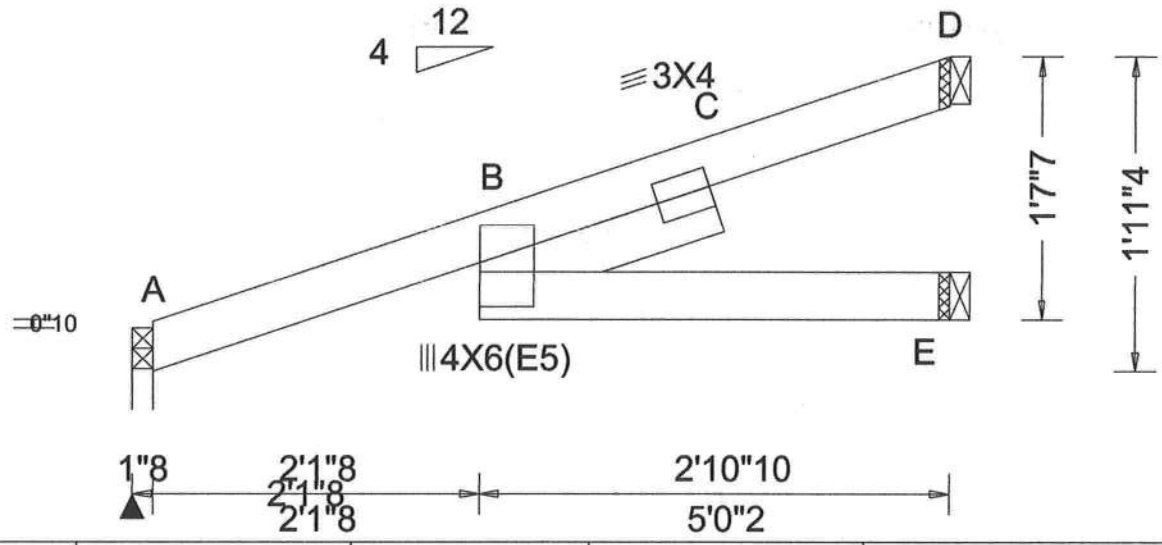
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615874 JACK FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J09		Cust: R 215 JRef: 1WJ52150001 T29 DrwNo: 065.19.1121.39167 / FV 03/06/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲Maximum Reactions (lbs)**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.068 E 860 240 VERT(CL): 0.127 E 461 180 HORZ(LL): -0.030 D - - HORZ(TL): 0.056 D - - Creep Factor: 2.0 Max TC CSI: 0.463 Max BC CSI: 0.116 Max Web CSI: 0.086 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 173 /- /- /139 /63 /- E 61 /- /- /72 /26 /46 D 150 /- /- /94 /36 /- Wind reactions based on MWFRS A Brg Width = 1.5 E Brg Width = 1.5 D Brg Width = 1.5 Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-7-7.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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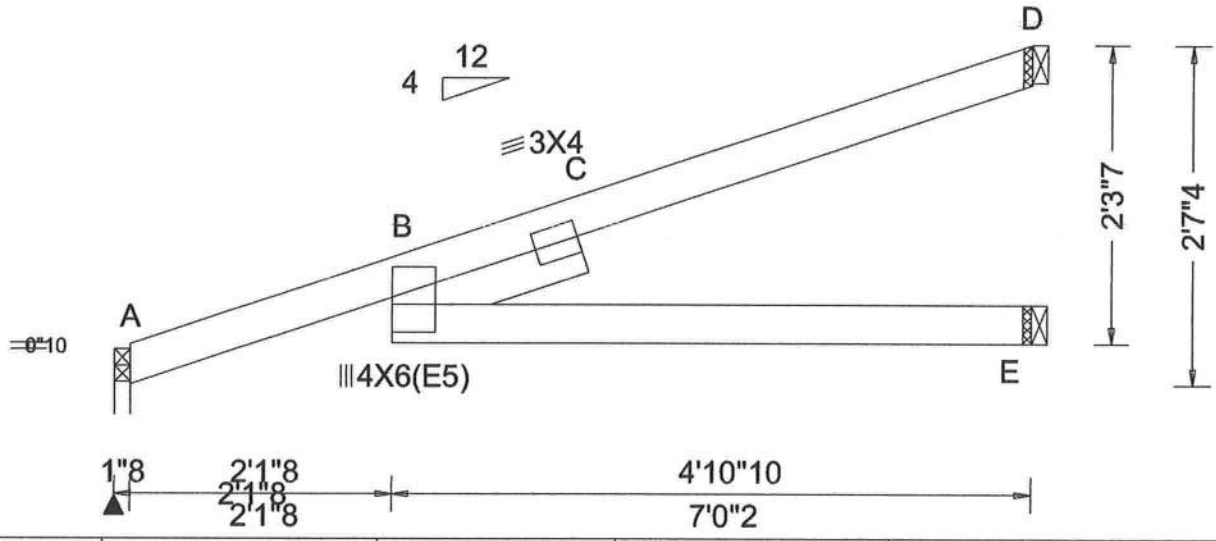
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615875 JACK FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J10	Cust: R 215 JRef: 1WJ52150001 T24 DrwNo: 065.19.1121.53877 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.170	C	484	240
VERT(CL): 0.326	C	253	180
HORZ(LL): -0.054	D	-	-
HORZ(TL): 0.104	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.466
Max BC CSI: 0.314
Max Web CSI: 0.252

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	252	/-	/-	/207	/83	/-
E	100	/-	/-	/116	/41	/65
D	207	/-	/-	/122	/54	/-

Wind reactions based on MWFRS
A Brg Width = 1.5
E Brg Width = 1.5
D Brg Width = 1.5
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	859	-919

Lumber

Top chord 2x4 SP 2400f-2.0E
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-3-7.

Provide (3) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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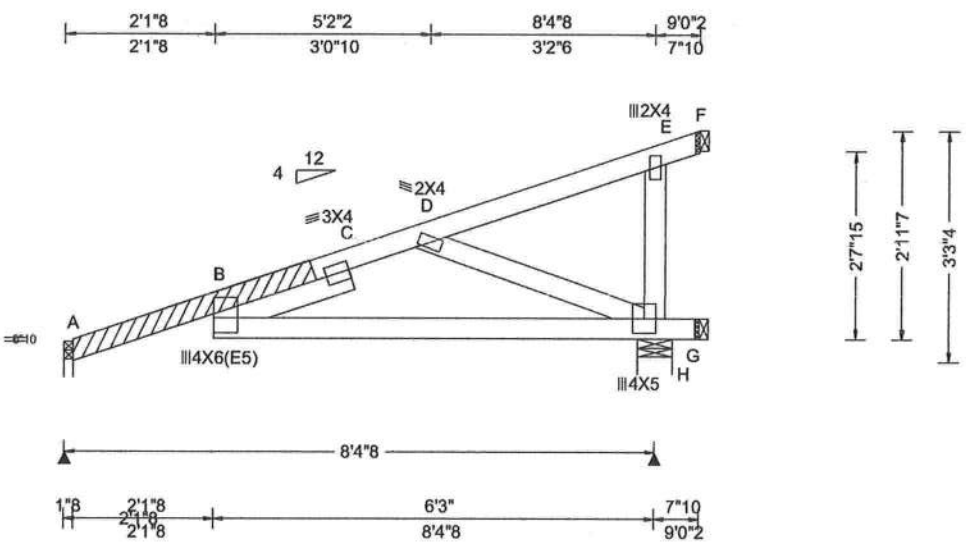
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615876 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J11	Cust: R 215 JRef: 1WJ52150001 T23 DrwNo: 065.19.1122.07867 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.123	H	819	240
VERT(CL): 0.238	H	422	180
HORZ(LL): -0.050	F	-	-
HORZ(TL): 0.097	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.814
Max BC CSI: 0.472
Max Web CSI: 0.143

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	279	/-	/-	/223	/86	/-
H	970	/-	/-	/954	/299	/85
G	-	/-382	/-	/153	/452	/-
F	-	/-250	/-	/46	/156	/-

Wind reactions based on MWFRS
A Brg Width = 1.5 Min Req = 1.5
H Brg Width = 6.0 Min Req = 1.5
G Brg Width = 1.5 Min Req = -
F Brg Width = 1.5 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	474	-646	C - D	221	-424

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - H	460	-177

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - H	344	-504	E - H	217	-375

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 2.005'

Tray Scab(s)

(1) 2x4x3-7-5 x SP #2 scab at left end. Attach scab to face of chord with: 0.131"x3", min. nails @ 8" oc, plus additional nail clusters at: BRG.: (0), heel: (2), 1st panel point: (0).

Wind

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

Additional Notes

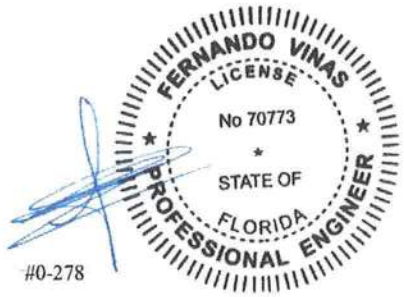
Refer to General Notes for additional information

Negative reaction(s) of -382# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 2-11-7.

Provide (3) 16d common 0.162"x3.5", toe-nails at TC.
Provide (3) 16d common 0.162"x3.5", toe-nails at BC.

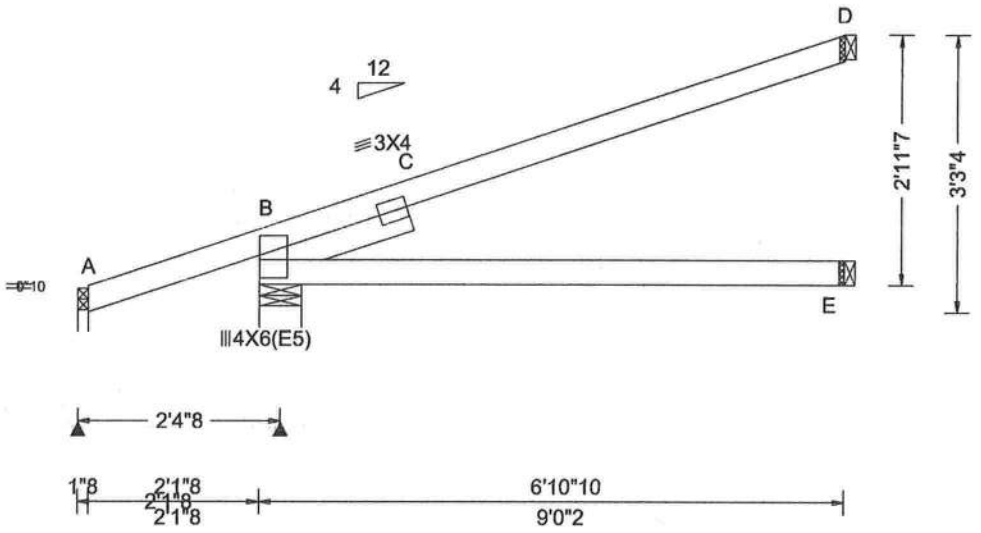


#0-278

03/06/2019

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615877 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J11A		Cust: R215 JRef:1WJ52150001 T38 DrwNo: 065.19.1122.21980 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.027 C - -
HORZ(TL): 0.054 C - -
Creep Factor: 2.0
Max TC CSI: 0.686
Max BC CSI: 0.490
Max Web CSI: 0.364

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	6	/-108	/-	/23	/44	/-
B	520	/-	/-	/318	/109	/85
E	125	/-	/-	/86	/-	/-
D	169	/-	/-	/74	/58	/-

Wind reactions based on MWFRS
A Brg Width = 1.5 Min Req = 1.5
B Brg Width = 6.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	552	-676

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.833'

Wind

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

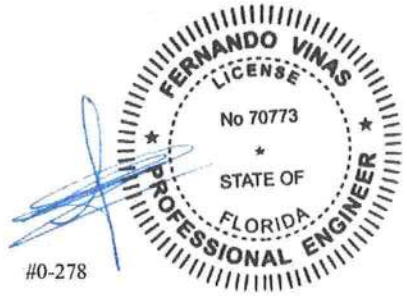
Additional Notes

Refer to General Notes for additional information

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 2-11-7.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.



#0-278

03/06/2019

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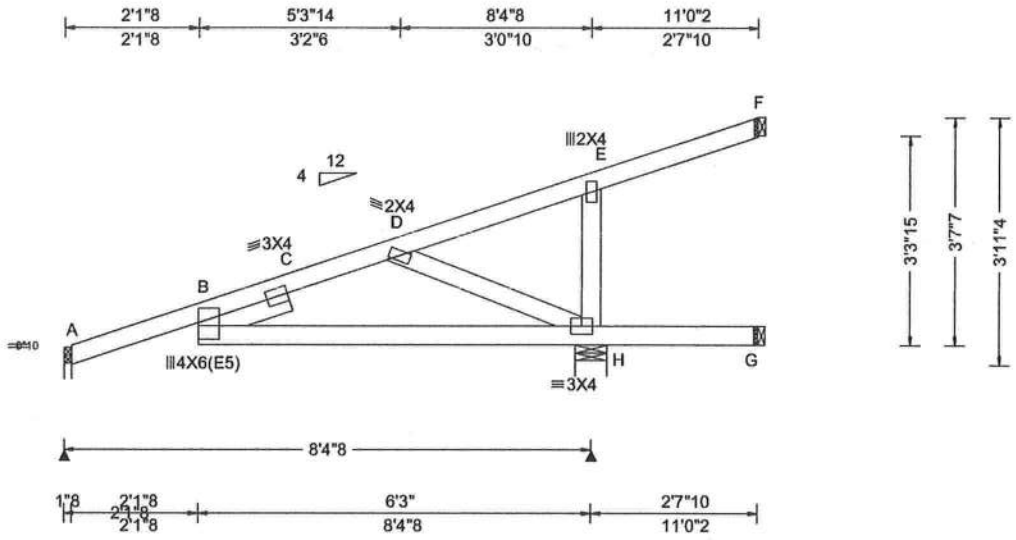
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615878 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J12	Cust: R215 JRef:1WJ52150001 T22 DrwNo: 065.19.1122.34603 / FV 03/06/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.111	C	910	240
VERT(CL): 0.217	C	464	180
HORZ(LL): -0.044	F	-	-
HORZ(TL): 0.087	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.408
Max BC CSI: 0.412
Max Web CSI: 0.130

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	282	/-	/-	/225	/84	/-
H	580	/-	/-	/494	/135	/104
G	-	/-28	/-	/43	/57	/-
F	47	/-25	/-	/3	/17	/-

Wind reactions based on MWFRS
A Brg Width = 1.5 Min Req = 1.5
H Brg Width = 6.0 Min Req = 1.5
G Brg Width = 1.5 Min Req = -
F Brg Width = 1.5 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	529	-706	C - D	185	-412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - H	436	-143

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	327	-480

Lumber
Top chord 2x4 SP 2400f-2.0E
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

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

Additional Notes
Refer to General Notes for additional information
Shim all supports to solid bearing.
The overall height of this truss excluding overhang is 3-7-7.
Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (2) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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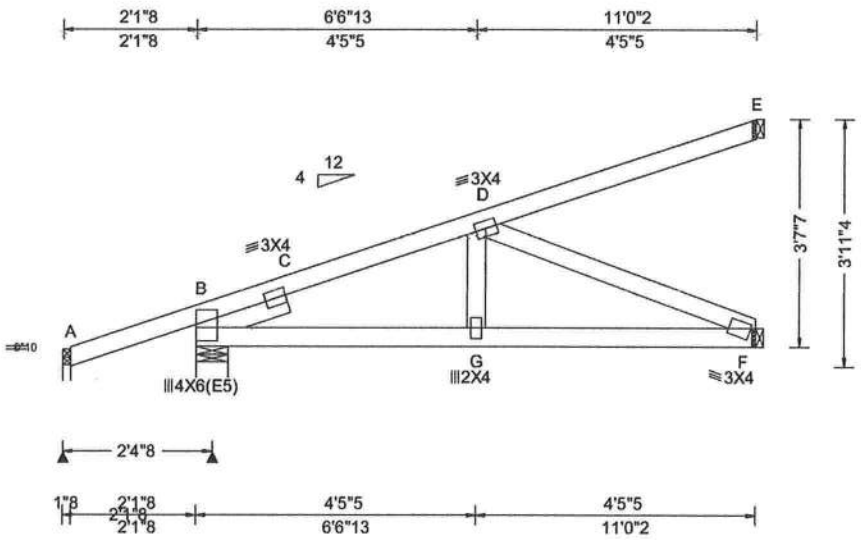
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615879 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J12A	Cust: R 215 JRef:1WJ52150001 T37 DrwNo: 065.19.1122.49860 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.011	C	999	240
VERT(CL): 0.022	C	999	180
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.008	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.271
Max BC CSI: 0.272
Max Web CSI: 0.247

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	47	/-7	/-	/33	/27	/-
B	464	/-	/-	/297	/80	/104
F	248	/-	/-	/182	/45	/-
E	110	/-	/-	/49	/34	/-

Wind reactions based on MWFRS
A Brg Width = 1.5 Min Req = 1.5
B Brg Width = 6.0 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	82	-602	C - D	90	-525

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	479	-177	G - F	473	-177

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - F	195	-519

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

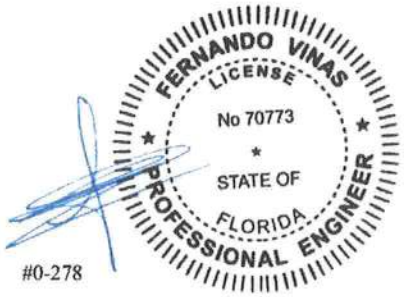
Wind
Wind loads based on MWFRS with additional C&C member design.

Additional Notes
Refer to General Notes for additional information

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 3-7-7.

Provide (2) 0.131"x3.0", min. toe-nails at top chord.
Provide (3) 0.131"x3.0", min. toe-nails at bottom chord.



#0-278

03/06/2019

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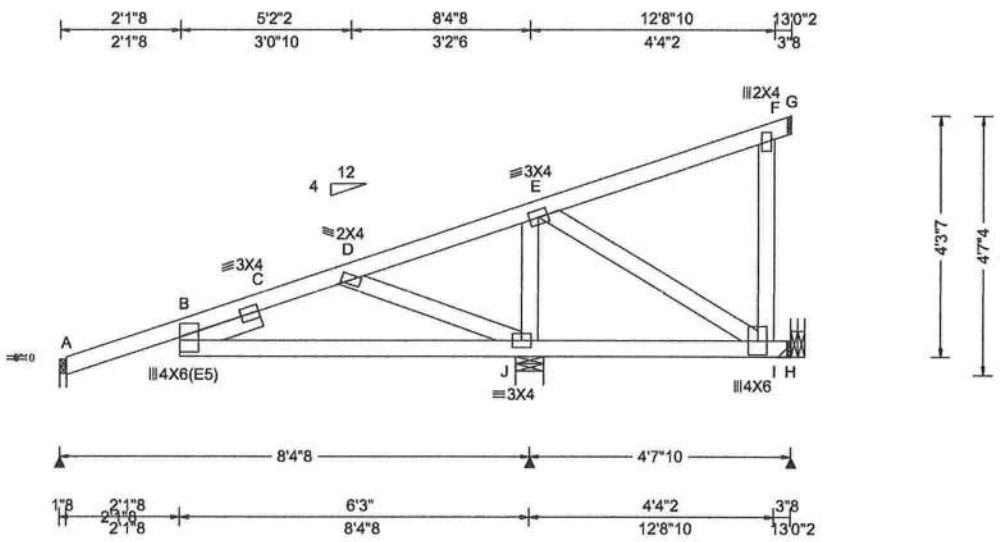
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615880 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J13	Cust: R215 JRef: 1WJ52150001 T20 DrwNo: 065.19.1123.10320 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.034	C	999	240
VERT(CL): 0.069	C	999	180
HORZ(LL): -0.010	G	-	-
HORZ(TL): 0.019	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.265
Max Web CSI: 0.345

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	99	/-	/-	/82	/45	/-
J	1073	/-	/-	/857	/220	/123
H	19	/-244	/-	/96	/187	/-

Wind reactions based on MWFRS
A Brg Width = 1.5 Min Req = 1.5
J Brg Width = 6.0 Min Req = 1.5
H Brg Width = - Min Req = -
Bearing J is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	813	-856	D - E	705	-550

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	392	-319	J - I	407	-574

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - J	264	-399	E - I	663	-466
J - E	478	-801			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Hangers / Ties

(J) Hanger Support Required, by others

Wind

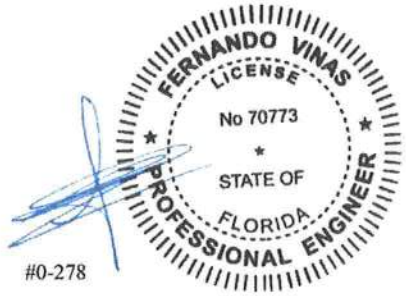
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

Negative reaction(s) of -244# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

The overall height of this truss excluding overhang is 4-3-7.



#0-278

03/06/2019

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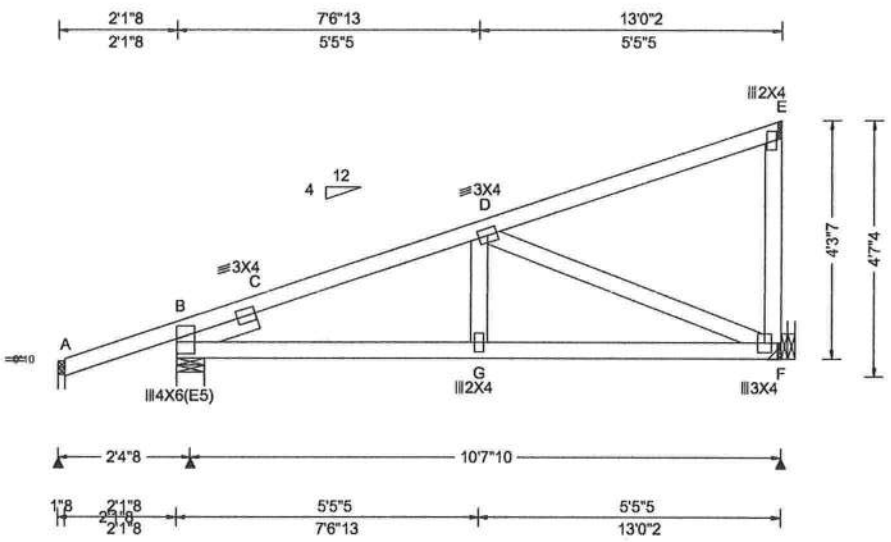
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615881 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J13A		Cust: R215 JRef:1WJ52150001 T36 DrwNo: 065.19.1123.31247 / FV 03/06/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#	
VERT(LL):	0.018	C	999	240
VERT(CL):	0.037	C	999	180
HORZ(LL):	0.007	C	-	-
HORZ(TL):	0.014	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.338
Max BC CSI: 0.369
Max Web CSI: 0.418

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	/ Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
A	41	/-24	/-	/26	/27	/-
B	569	/-	/-	/362	/98	/123
F	432	/-	/-	/279	/97	/-

Wind reactions based on MWFRS
A Brg Width = 1.5 Min Req = 1.5
B Brg Width = 6.0 Min Req = 1.5
F Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	105	-821	C - D	106	-695

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	630	-201	G - F	624	-202

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - F	214	-667

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Hangers / Ties
(J) Hanger Support Required, by others

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-3-7.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/06/2019

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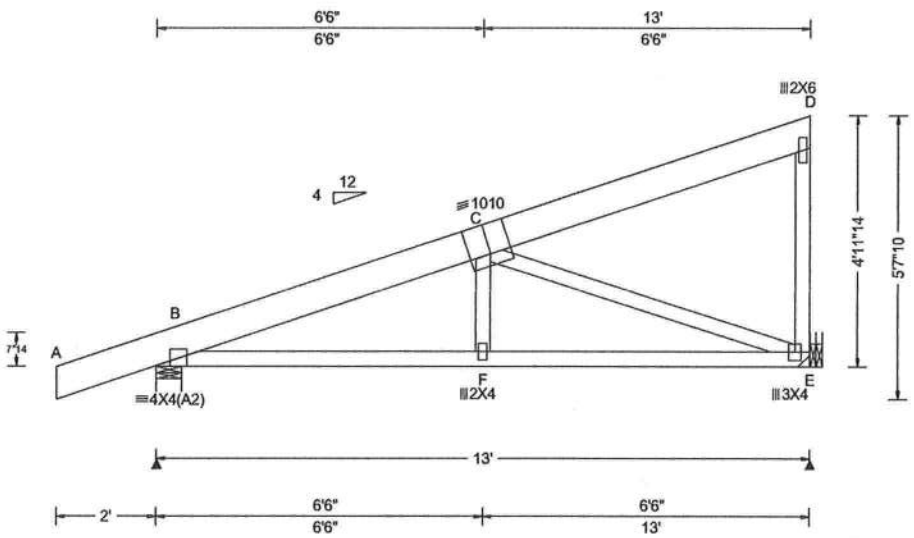
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615890 EJAC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J14	Cust: R 215 JRef:1WJ52150001 T18 DrwNo: 065.19.1120.50723 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	F	999	240
VERT(CL): 0.036	F	999	180
HORZ(LL): 0.006	E	-	-
HORZ(TL): 0.013	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.211
Max BC CSI: 0.537
Max Web CSI: 0.531

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	994 /-	/-	/-	/317	/-
E	464 /-	/-	/-	/71	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
E Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	88	-701

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - F	583	-47	F - E	578	-49

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - E	52	-616

Lumber
Top chord 2x8 SP 2400f-2.0E
Bot chord 2x4 SP #2
Webs 2x4 SP #3

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 61 plf at -2.00 to 61 plf at 13.00
BC: From 4 plf at -2.00 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 13.00
TC: 273 lb Conc. Load at -2.00

Hangers / Ties
(J) Hanger Support Required, by others

Wind
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-11-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/06/2019

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

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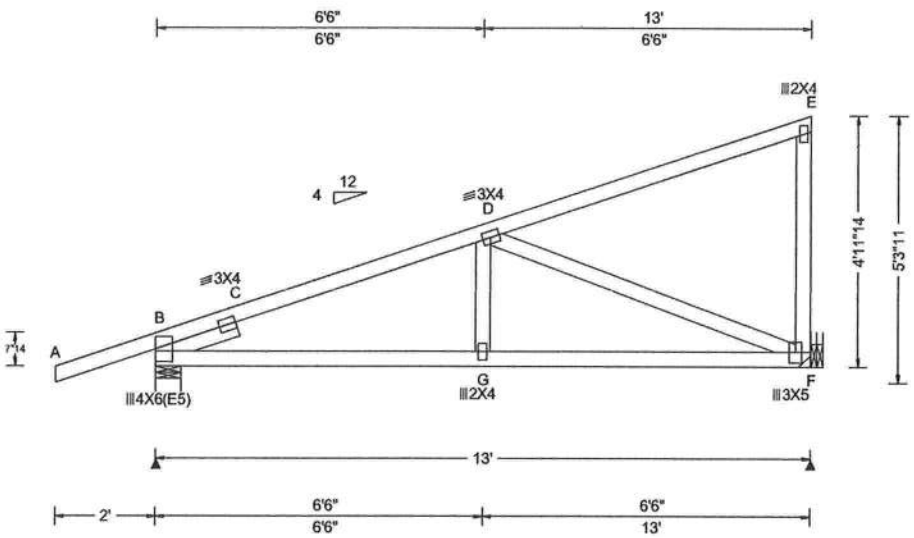
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615882 EJAC FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** J15	Cust: R 215 JRef: 1WJ52150001 T31 DrwNo: 065.19.1124.04210 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.033	C	999	240
VERT(CL): 0.066	C	999	180
HORZ(LL): 0.012	C	-	-
HORZ(TL): 0.024	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.598
Max Web CSI: 0.747

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	668	/-	/-	/442	/66	/96
F	517	/-	/-	/332	/41	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
F Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	208	- 1034	C - D	123	- 865

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	786	- 229	G - F	780	- 230

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - F	248	- 840

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.693'

Hangers / Ties
Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Additional connection required to evenly distribute hanger reaction throughout all plies of supporting girder.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=12'9" uses the following support conditions: 12'9"
Bearing F (12'9", 9'1"2) LUS26
Supporting Member: (2)2x6 SP #2
into supporting member,
into supported member.

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

Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-11-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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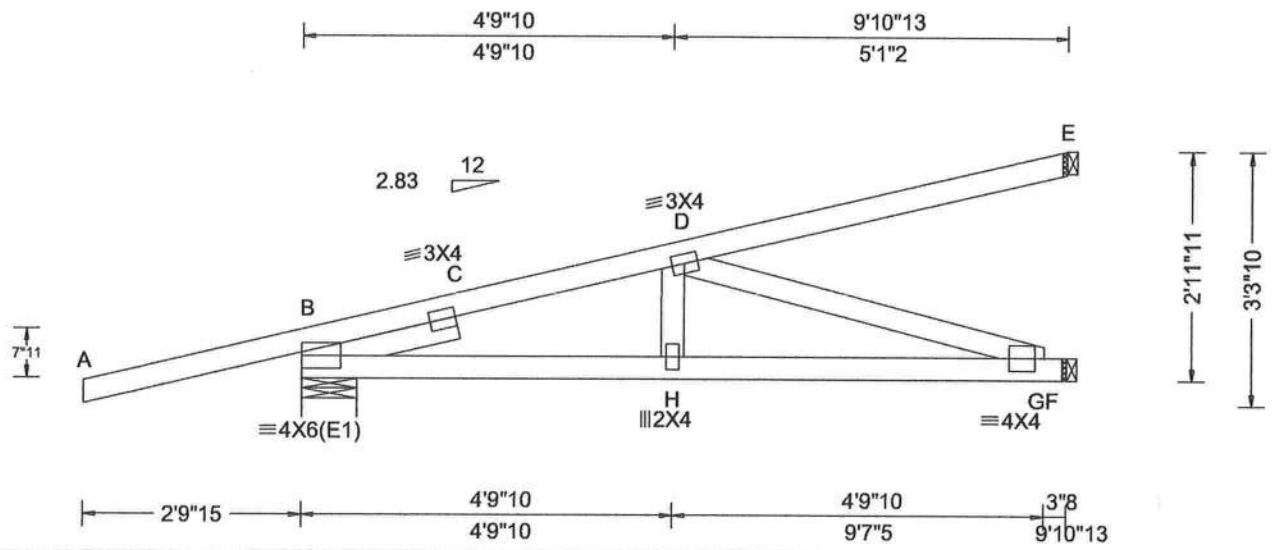
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615891 HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** JH1	Cust: R 215 JRef:1WJ52150001 T25 DrwNo: 065.19.1124.38563 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.058	C	999	240
VERT(CL): 0.058	H	999	180
HORZ(LL): -0.016	C	-	-
HORZ(TL): 0.018	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.750
Max BC CSI: 0.783
Max Web CSI: 0.409

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	379	/-	/-	/-	/275	/-
F	296	/-	/-	/-	/71	/-
E	100	/-	/-	/-	/14	/-

Wind reactions based on MWFRS
B Brg Width = 8.5 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	326	-808	C - D	256	-808

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	770	-264	H - G	752	-265

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - G	278	-790

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 2.049'

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -2.83 to 61 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 9.90
BC: From 0 plf at -2.83 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 9.90
TC: -109 lb Conc. Load at 1.44
TC: 99 lb Conc. Load at 4.27
TC: 246 lb Conc. Load at 7.10
BC: 18 lb Conc. Load at 1.44
BC: 108 lb Conc. Load at 4.27
BC: 184 lb Conc. Load at 7.10

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-11-11.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

Provide (3) 0.131"x3.0", min. toe-nails at top chord.
Provide (3) 0.131"x3.0", min. toe-nails at bottom chord.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/06/2019

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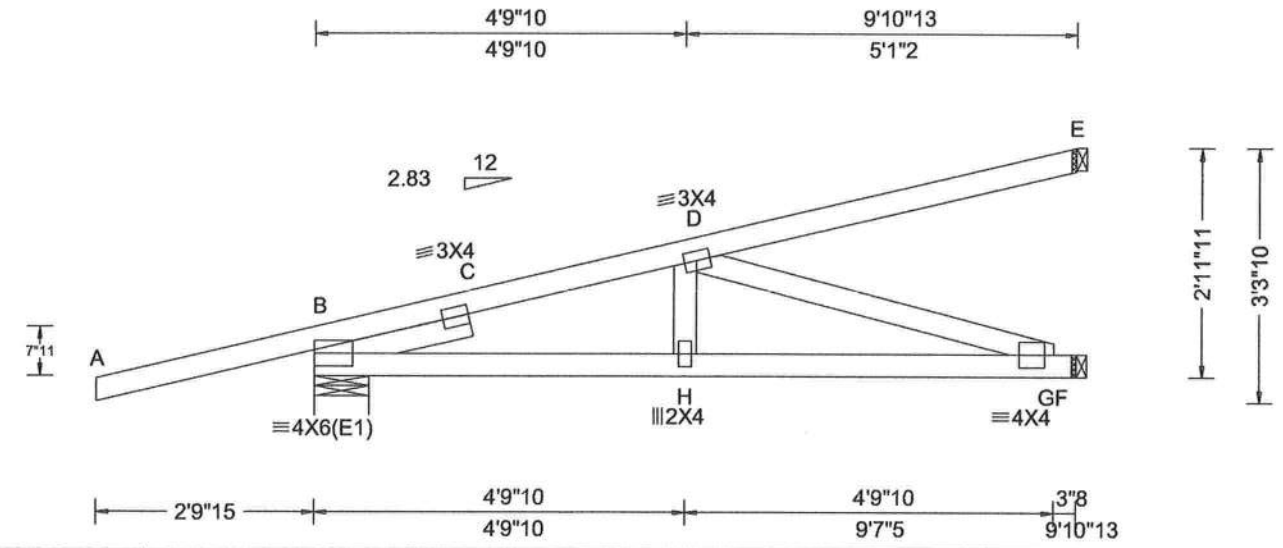
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615892 HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** JH1A	Cust: R215 JRef:1WJ52150001 T13 DrwNo: 065.19.1124.52683 / FV 03/06/2019



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.060	C	999	240
VERT(CL): 0.063	H	999	180
HORZ(LL): -0.017	C	-	-
HORZ(TL): 0.018	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.794
Max BC CSI: 0.821
Max Web CSI: 0.457

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	379	/-	/-	/-	/283	/-
F	324	/-	/-	/-	/80	/-
E	105	/-	/-	/-	/15	/-

Wind reactions based on MWFRS
B Brg Width = 8.5 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	343	-901	C - D	283	-901

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	859	-290	H - G	841	-291

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - G	305	-883

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 2.049'

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	0 plf at	-2.83 to	61 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.90
BC: From	0 plf at	-2.83 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.90

TC: -109 lb Conc. Load at 1.44
TC: 137 lb Conc. Load at 4.27
TC: 266 lb Conc. Load at 7.10
BC: 18 lb Conc. Load at 1.44
BC: 110 lb Conc. Load at 4.27
BC: 187 lb Conc. Load at 7.10

Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-11-11.

Provide (3) 16d common 0.162"x3.5", toe-nails at TC.
Provide (3) 16d common 0.162"x3.5", toe-nails at BC.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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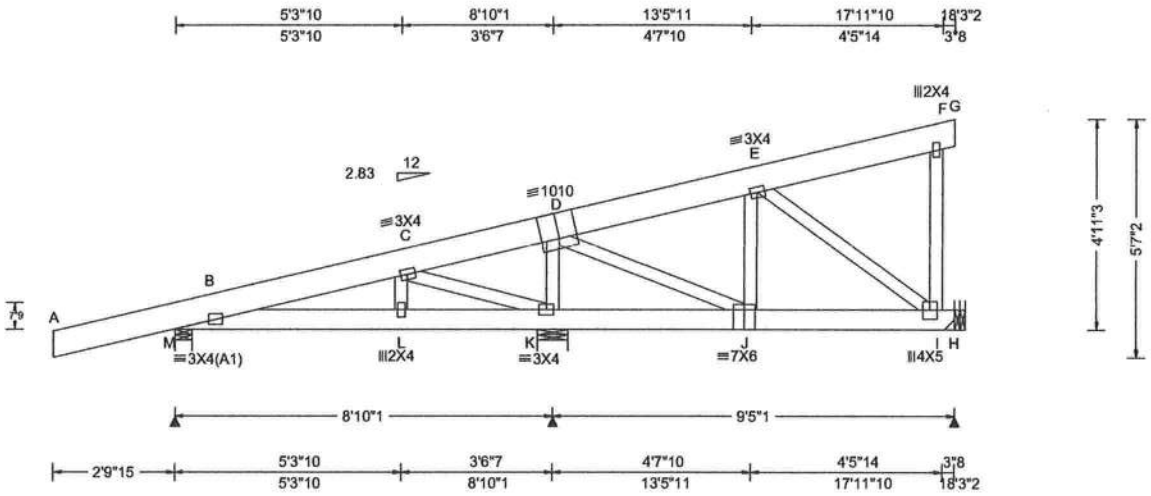
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615893 HIP_	Ply: 2	**Job Number:** 17-1863C	Cust: R 215 JRef: 1WJ52150001 T32
FROM: CDM	Qty: 2	/BARKLEY /OWNER BUILDER	DrwNo: 065.19.1120.37543
		Truss Label: JH2	/ FV 03/06/2019

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): -0.010 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): -0.018 L 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 L - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.006 L - -
NCBCLL: 0.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.323
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.327
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.124
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.00A.1126.20
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	1730	/-	/-	/-	/580	/-
K	1063	/-	/-	/-	/914	/-
H	423	/-	/-	/-	/286	/-

Wind reactions based on MWFRS
M Brg Width = 4.9 Min Req = 1.5
K Brg Width = 8.5 Min Req = 1.5
H Brg Width = - Min Req = -
Bearings M & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
K - D	274	-486

Lumber

Top chord 2x8 SP 2400f-2.0E
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @11.00" 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.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	0 plf at	-2.83 to	61 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	8.84
TC: From	2 plf at	8.84 to	42 plf at	11.67
TC: From	2 plf at	11.67 to	2 plf at	18.26
BC: From	0 plf at	-2.83 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	18.26

TC: 536 lb Conc. Load at -2.70
TC: 352 lb Conc. Load at -2.45
TC: 193 lb Conc. Load at 1.38
TC: 300 lb Conc. Load at 4.21
TC: 413 lb Conc. Load at 7.03
TC: 78 lb Conc. Load at 9.86
TC: 158 lb Conc. Load at 12.69
BC: 38 lb Conc. Load at 1.38
BC: 121 lb Conc. Load at 4.21
BC: 200 lb Conc. Load at 7.03
BC: -94 lb Conc. Load at 9.86
BC: 236 lb Conc. Load at 12.69
BC: 452 lb Conc. Load at 15.52

Hangers / Ties

(J) Hanger Support Required, by others

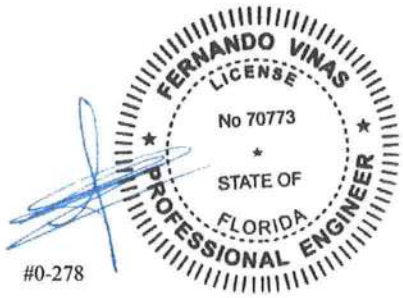
Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-11-3.



03/06/2019

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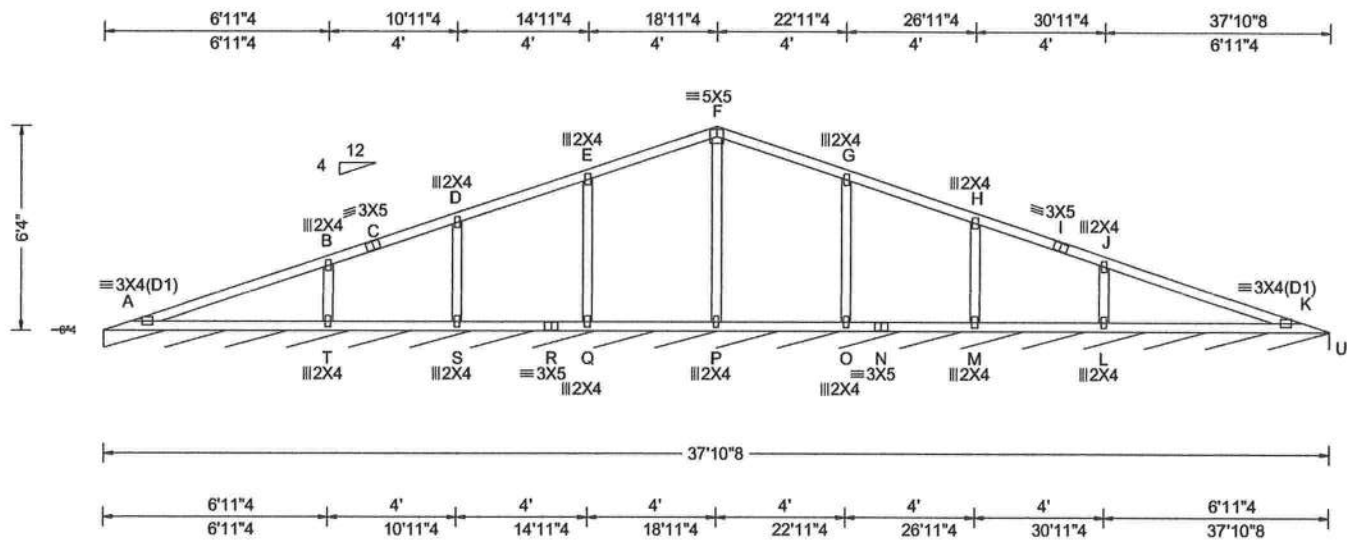
Suite 305
Orlando FL, 32821

SEQN: 615883 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V01	Cust: R215 JRef: 1WJ52150001 T1 DrwNo: 065.19.1125.05347 / FV 03/06/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲ Maximum Reactions (lbs), or *=PLF**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.79 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.052 L 999 240 VERT(CL): 0.104 L 999 180 HORZ(LL): -0.014 L - - HORZ(TL): 0.028 L - - Creep Factor: 2.0 Max TC CSI: 0.551 Max BC CSI: 0.379 Max Web CSI: 0.237 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U* 80 /- /- /41 /2 /4 Wind reactions based on MWFRS U Brg Width = 454 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

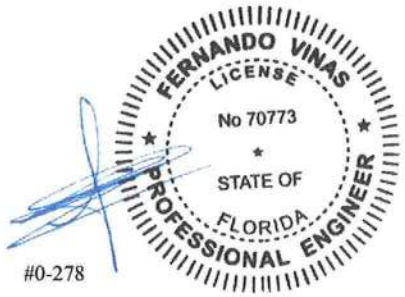
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 6-4-0.



#0-278

03/06/2019

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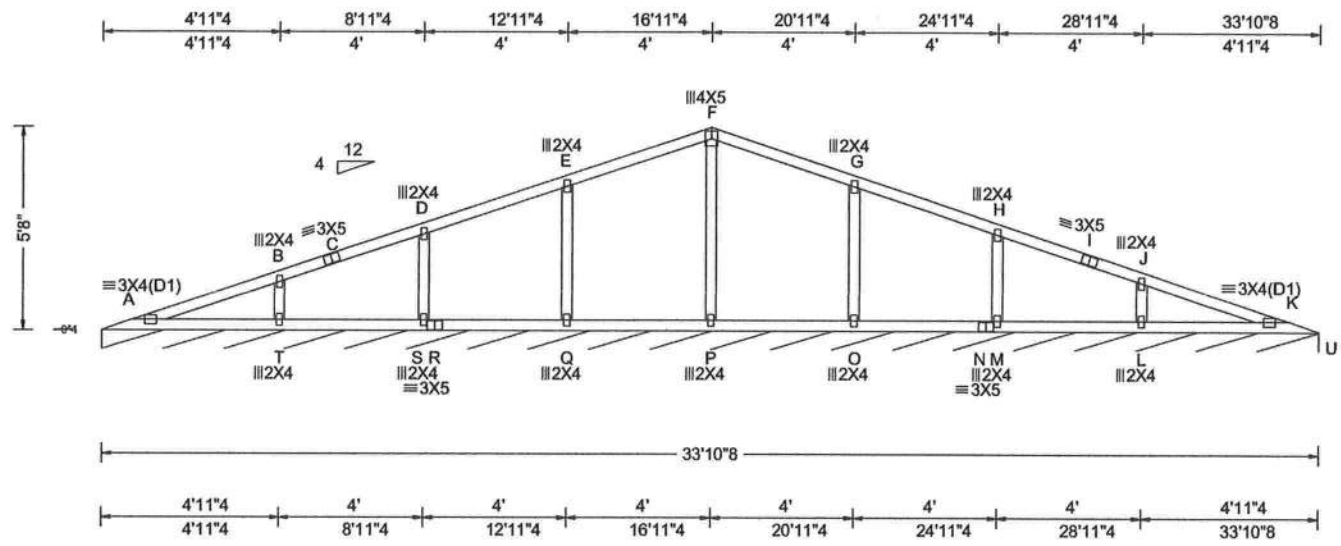
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615884 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V02	Cust: R 215 JRef:1WJ52150001 T5 DrwNo: 065.19.1125.14577 / FV 03/06/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲Maximum Reactions (lbs), or *=PLF**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.39 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.017 L 999 240 VERT(CL): 0.033 L 999 180 HORZ(LL): -0.004 L - - HORZ(TL): 0.009 L - - Creep Factor: 2.0 Max TC CSI: 0.294 Max BC CSI: 0.199 Max Web CSI: 0.138 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U* 80 /- /- /41 /3 /4 Wind reactions based on MWFRS U Brg Width = 406 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

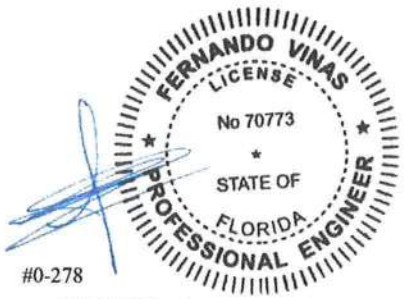
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 5-8-0.



#0-278

03/06/2019

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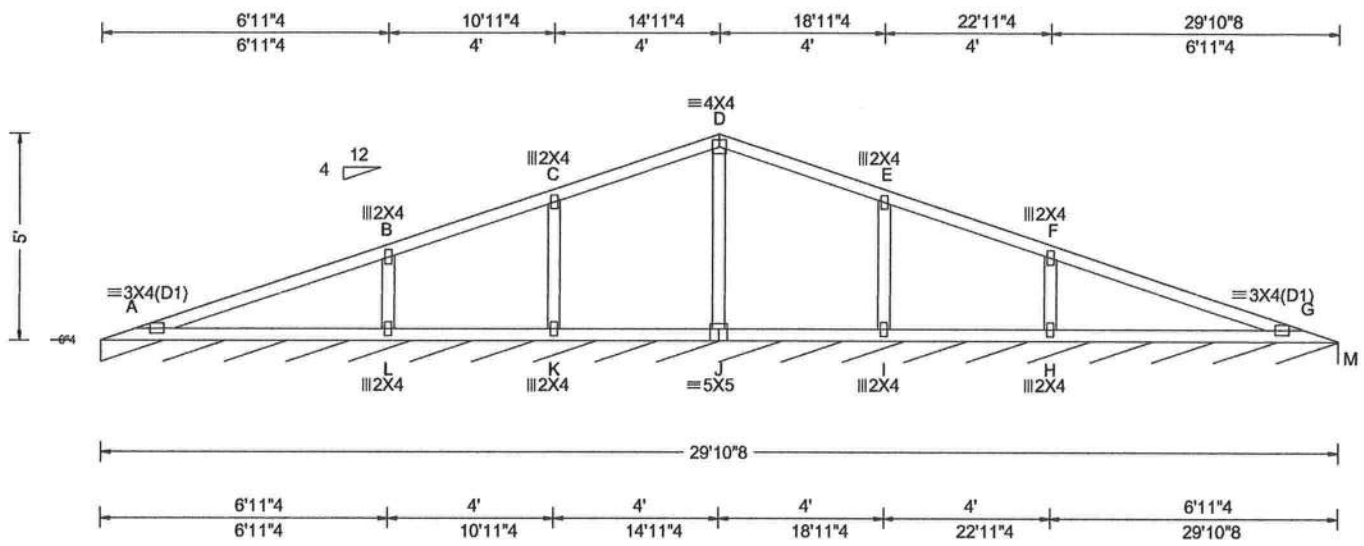
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615885 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V03	Cust: R215 JRef:1WJ52150001 T7 DrwNo: 065.19.1125.25250 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.051	H	999	240
VERT(CL): 0.103	H	999	180
HORZ(LL): 0.013	L	-	-
HORZ(TL): 0.026	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.368
Max Web CSI: 0.172

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M*	80	/-	/-	/40	/3	/3

Wind reactions based on MWFRS
M Brg Width = 358 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - J	81	-387

Lumber

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

Wind

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

Additional Notes

Refer to General Notes for additional information

See DWG VAL160101014 for valley details.

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

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/06/2019

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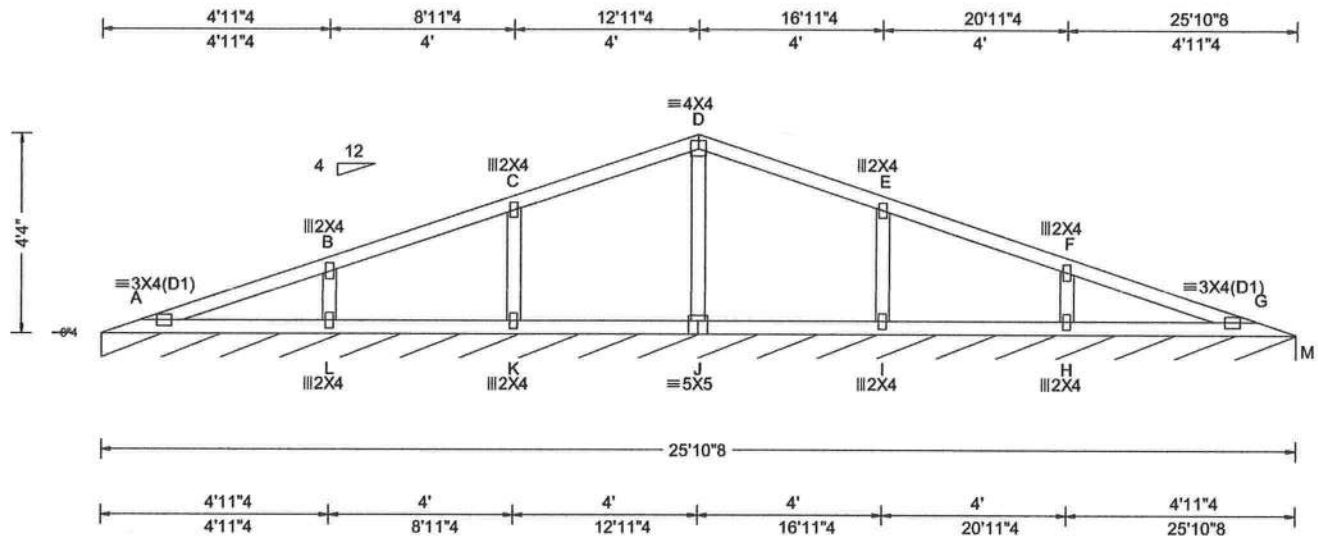
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615886 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V04	Cust: R 215 JRef:1WJ52150001 T8 DrwNo: 065.19.1125.33333 / FV 03/06/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲Maximum Reactions (lbs), or *=PLF**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.017 H 999 240 VERT(CL): 0.034 H 999 180 HORZ(LL): -0.004 H - - HORZ(TL): 0.008 H - - Creep Factor: 2.0 Max TC CSI: 0.281 Max BC CSI: 0.191 Max Web CSI: 0.091 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M* 80 /- /- /40 /3 /3 Wind reactions based on MWFRS M Brg Width = 310 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

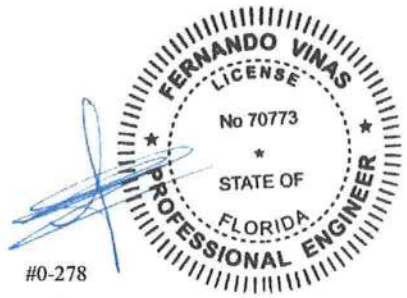
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 4-4-0.



#0-278

03/06/2019

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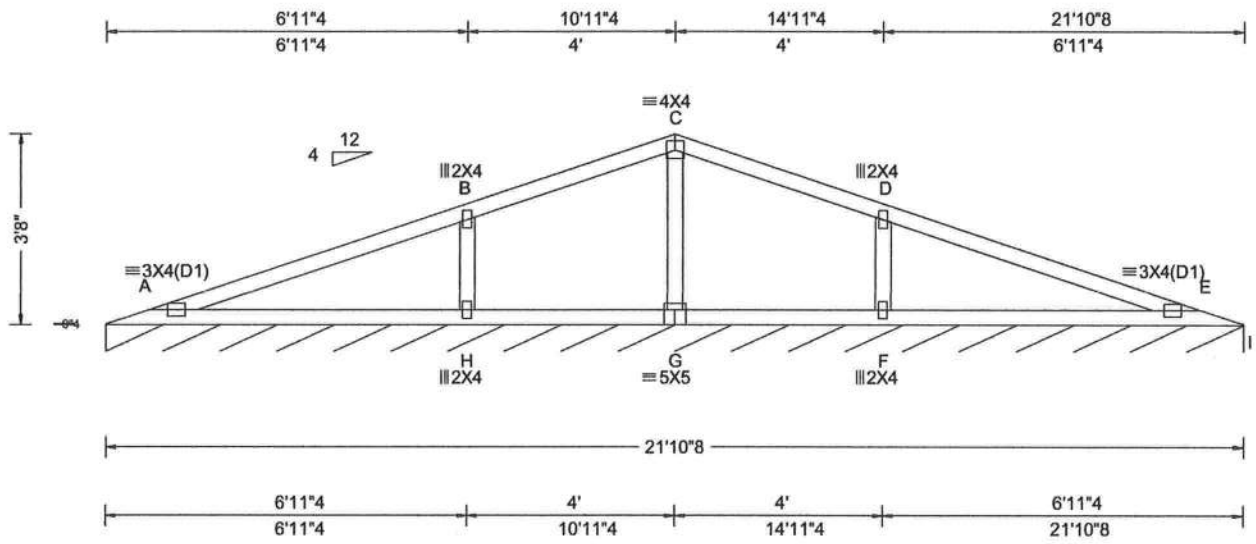
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615887 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V05	Cust: R 215 JRef: 1WJ52150001 T15 DrwNo: 065.19.1125.38437 / FV 03/06/2019	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.048	F	999	240
VERT(CL): 0.096	F	999	180
HORZ(LL): 0.012	H	-	-
HORZ(TL): 0.024	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.597
Max BC CSI: 0.376
Max Web CSI: 0.100

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I*	80	/-	/-	/40	/3	/3

Wind reactions based on MWFRS
I Brg Width = 262 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	419	-105	C - D	385	-43
B - C	385	-43	D - E	419	-106

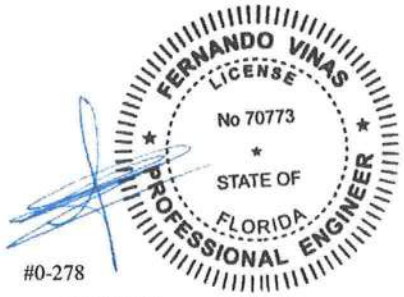
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	154	-381	F - D	155	-381

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

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

Additional Notes
Refer to General Notes for additional information
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 3-8-0.



#0-278

03/06/2019

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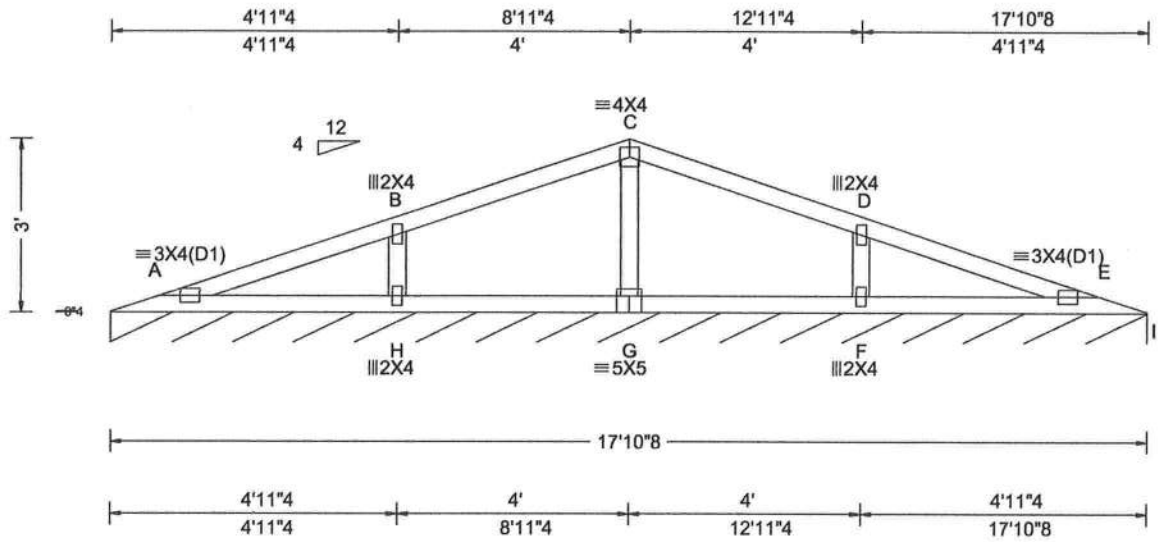
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615888 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V06	Cust: R 215 JRef: 1WJ52150001 T16 DrwNo: 065.19.1125.44063 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.13 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	F	999	240
VERT(CL): 0.030	F	999	180
HORZ(LL): -0.004	F	-	-
HORZ(TL): 0.008	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.348
Max BC CSI: 0.191
Max Web CSI: 0.059

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs), or *=PLF

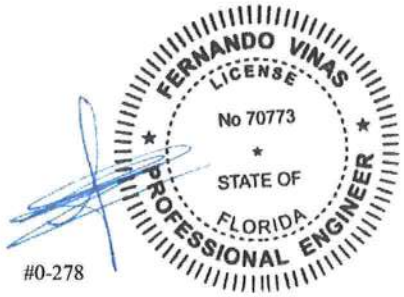
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I*	79	/-	/-	/39	/3	/2

Wind reactions based on MWFRS
I Brg Width = 214 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

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

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

Additional Notes
Refer to General Notes for additional information
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 3-0-0.



#0-278

03/06/2019

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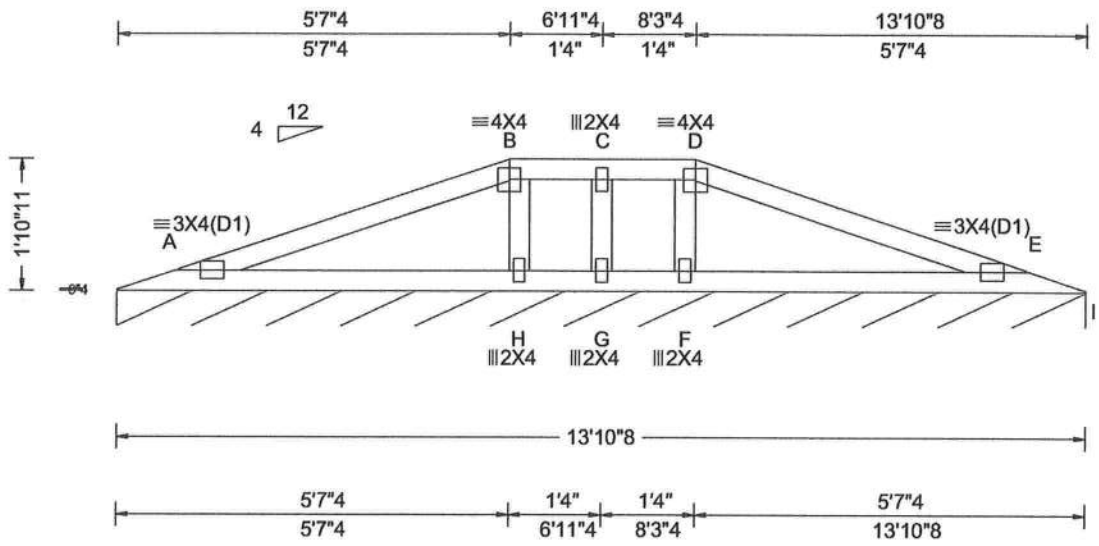
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615889 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 17-1863C /BARKLEY /OWNER BUILDER **Truss Label:** V07	Cust: R 215 JRef:1WJ52150001 T17 DrwNo: 065.19.1125.55773 / FV 03/06/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.031	F	999	240
VERT(CL): 0.062	F	999	180
HORZ(LL): -0.009	F	-	-
HORZ(TL): 0.017	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.408
Max BC CSI: 0.274
Max Web CSI: 0.052

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I*	79	/-	/-	/38	/5	/2
G		/-109				

Wind reactions based on MWFRS
I Brg Width = 166 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	416	-146	C - D	381	-115
B - C	381	-115	D - E	416	-147

Maximum Bot Chord Forces Per Ply (lbs)

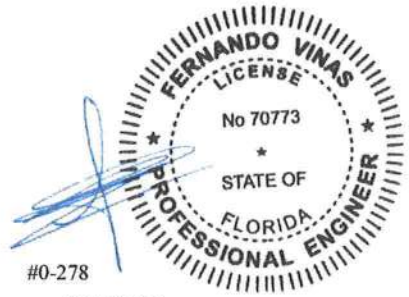
Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	182	-381	G - F	182	-381

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

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

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

Additional Notes
Refer to General Notes for additional information
See DWG VAL160101014 for valley details.
The overall height of this truss excluding overhang is 1-10-11.



#0-278
03/06/2019

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CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

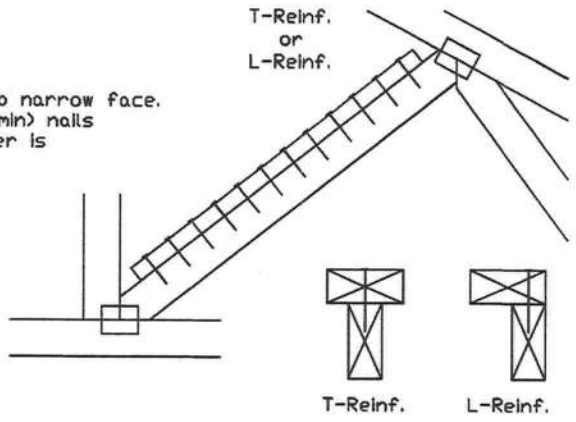
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

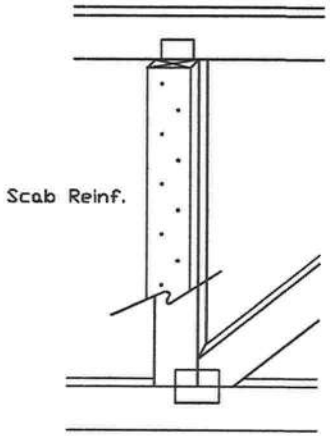
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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Maryland Heights, MO 63043

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FERNANDO M. VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/06/2019

TC	LL	PSF	REF CLR Subst.
TC	DL	PSF	DATE 01/02/19
BC	DL	PSF	DRWG BRCLBSUB0119
BC	LL	PSF	
TOT. LD.		PSF	
DUR. FAC.			
SPACING			

Valley Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for
ASCE 7-10 160 mph. 30' Mean Height, Enclosed
Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-10 140 mph. 30' Mean Height, Enclosed
Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

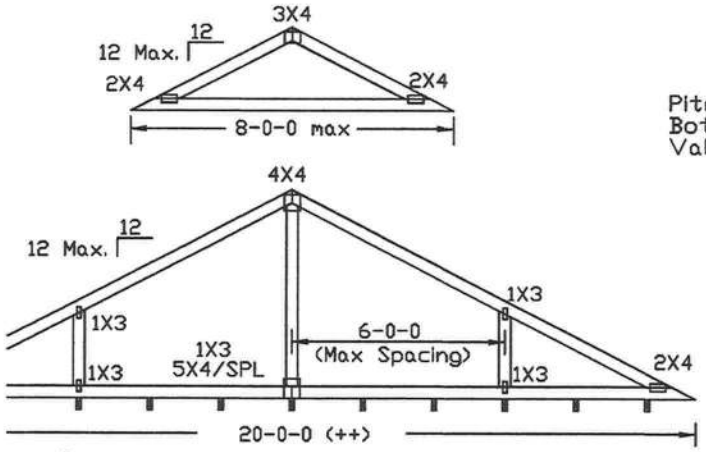
All plates shown are ITW BCG Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

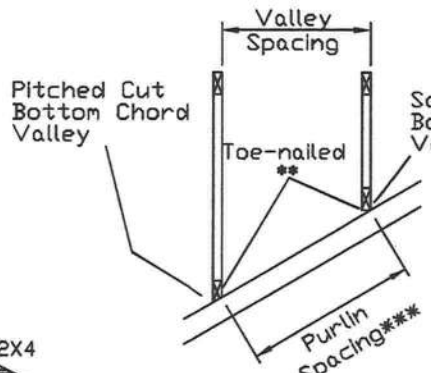
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

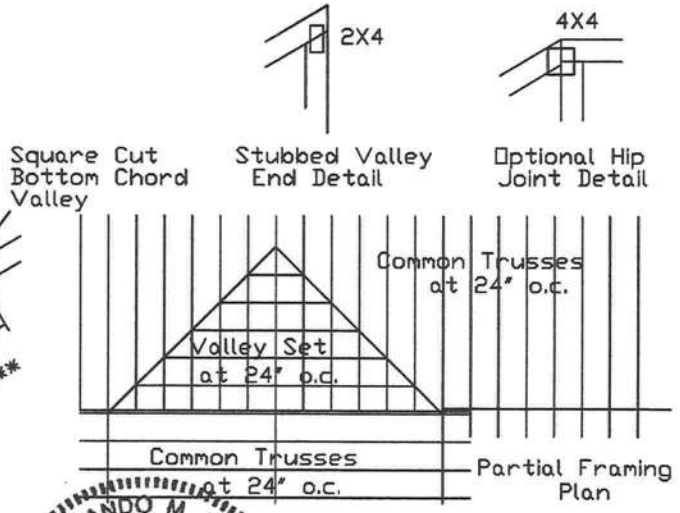
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



Supporting trusses at 24" o.c. maximum spacing.





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FERNANDO M. VINA
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No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
05/06/2019

TC LL	30	30	40PSF	REF VALLEY DETAIL
TC DL	20	15	7PSF	DATE 10/01/2014
BC DL	10	10	10 PSF	DRWG VAL160101014
BOT LL	0	0	0PSF	
TOT LD.	60	55	57PSF	
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		