



City of Belle Isle BUILDING PERMIT 2018-06-026

PERMIT MUST BE POSTED ON SITE

Permit Number: 2018-06-026

Issue Date: 8/06/2018

Site Address: **2203 Hoffner Ave 32809**

Parcel Number 18-23-30-5120-00-360

Subdivision:

Class: Residential

Description of Work: **Construction of new 3,800 SFT. house.**

OVERSIZED PLANS

Issued To: PRIMECO, LLC

Business Phone: 407 552-1285

Name: BADILLO, JOSE R

Contractor License CGC1522060

Payment Date & Method: 8 / 6 / 2018

Visa Master Card Amex Discover Check / Money Order # 26001

"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."

BUILDING	INSPECTOR	DATE	COMMENTS
100 Demo Final			
110 Footing			
120 Stem Wall			
130 Slab			
140 Lintel/Tie Beam			
150 Down Pour			
160 Tilt Panel			
170 Window In-progress			
180 Sheathing (wall)			
190 Sheathing (roof)			
195 Dry-in (roof/walls)			
200 Framing			
205 Drywall Nail/Screw			
210 Fire Rated Assembly			
220 Above-Ceiling			
230 Insulation			
240 Lathe			
250 Final			
260 Other			

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Inspection requests are to be emailed to BDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 4pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed. Inspection results will be sent out the following business day.



City of Belle Isle

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Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
JUN 08 2018

Building / Land Use Permit Application

DATE: 6/4/2018

PERMIT # 2018-06026

PROJECT ADDRESS 2203 HOPPER AVE. Belle Isle, FL 32809 32812

PROPERTY OWNER FREDERICK CHRISTENSEN PHONE _____ VALUE OF WORK (labor & material) \$ 460,000.00

PLEASE LIST THE NATURE OF YOUR PROPOSED IMPROVEMENTS

CONSTRUCTION OF NEW 3,800 SFT. HOUSE.

Please provide information, if applicable.

- **SINGLE FAMILY RESIDENCE:** 8.5"x11" Plat Survey, Plot Plan of Home and Floor Plans of New Construction/Revision Required
- **BOAT DOCK:** DEP Clearance Required with Application (Call 407-897-4100); please provide a copy of their report
- **SEPTIC SYSTEM (RESIDENTIAL):** - Provide verification of OC Health Dept approval for on-site septic tank system, per FAC Chap. 64E-6
- Homeowners will be required to have a contractor on record for homes that are rented and/or not homestead

Please Complete for the City of Belle Isle Zoning Review: Parcel Id Number: 18-23-30-5120-00-360

To obtain this information, please visit <http://www.ocpafl.org/Searches/ParcelSearch.aspx>

SPECIAL CONDITIONS: STRUCTURES MAY NOT ENCRUSH INTO ANY EASEMENT OR REQUIRED SETBACK. Survey specific foundation plan required to show compliance with zoning setbacks. Note: this Zoning Approval MAY or MAY NOT be in conflict with your Deed Restrictions. For New Single Family Residence, a Traffic Impact Fee and School Impact will be assessed.

Wind Exposure Category: B X C D

PLANNING & ZONING APPROVAL:

ZONING APPROVED
DATE 7/26/18 By: [Signature]
City of Belle Isle

PLEASE COMPLETE for Building Review (min. of 2 sets of signed/sealed plans required)

CONSTRUCTION TYPE _____
 OCCUPANCY GROUP _____ Comm _____ Res: X Single Fam _____ Multi Fam _____
 #BLDG. _____ #UNITS _____ #STORIES _____ TOTAL SQ.FT. 3,800 SFT.
 MAX. FLOOR LOAD _____ MAX. OCCUPANCY _____
 MIN. FLOOD ELEV. _____ LOW FLOOR ELEV. _____
 WATER SERVICE _____ WELL _____ SEPTIC _____

REVIEW	Date: Sent _____	RCD _____	Y	N	X
SPRINKLERS REQ'D					
If Required - SUBMIT COPY OF PLANS FOR FIRE					
ZONING			<u>Y</u>	N	
CERT OF OCC			<u>Y</u>	N	
TRAFFIC			<u>Y</u>	N	
SCHOOL			<u>Y</u>	N	
FIRE			<u>Y</u>	N	
SWIMMING POOL			<u>Y</u>	N	
SCREEN ENCLOSURE			<u>Y</u>	N	
ROOFING			<u>Y</u>	N	
BOAT DOCK			<u>Y</u>	N	
BUILDING			<u>Y</u>	N	
WINDOW(S)			<u>Y</u>	N	
DOOR(S)			<u>Y</u>	N	
FENCE			<u>Y</u>	N	
SHED			<u>Y</u>	N	
DRIVEWAY			<u>Y</u>	N	
OTHER			<u>Y</u>	N	

BUILDING REVIEWER [Signature] DATE 8-3-18

VERIFIED CONTRACTOR'S LICENSE & INSURANCE ARE ON FILE [Signature] DATE 6-12-18

Per FSS 105.3.3:
An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies."

Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

SEPARATE PERMITS ARE REQUIRED FOR ROOFING, ELECTRICAL, PLUMBING, GAS, MECHANICAL, SIGNS, POOLS, ENCLOSURES, ETC.

1% BCAIB FEE 27.92
 1.5% DCA FEE 41.87
 TOTAL 3,026.29

OTHER PERMITS REQUIRED:

	Y	NA
ELECTRICAL	<u>Y</u>	NA
PREPOWER	<u>Y</u>	NA
MECHANICAL	<u>Y</u>	NA
PLUMBING	<u>Y</u>	NA
ROOFING	<u>Y</u>	NA
GAS	<u>Y</u>	NA

PAID
8-6-2018
Amex
26001

114036

4x459
 1511K
 25
 1836
 1861
 930.2
 2791.50



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Building Permit (Land Use) Application
 To be completed as required by State Statute Section 713 and other applicable sections.

PERMIT # 2018-06-026

Owner's Name Frederick Christensen Jr.

Owner's Address 2203 Hoffner Ave. Belle Isle, FL 32809

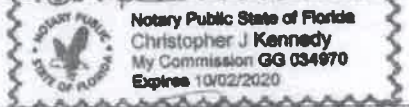
Contractor Name <u>Jose Basillo</u>	Company Name <u>Primeco LLC</u>
License # <u>CGC 1522060</u>	Company Address <u>13314 SPYSON PT</u>
Contact Phone/Cell <u>407-552-1285</u>	City, State, ZIP <u>Orlando, FL 32832</u>
Contact Email <u>JB.PRIMECO@gmail.com</u>	Contact Fax

WARNING TO OWNER: Your failure to record a Notice of Commencement may result in your paying twice for improvements to your property. A notice of commencement must be recorded if job is \$2500(+) or if A/C Replacement \$7500(+) and posted on the job site before the first inspection. If you intend to obtain financing, consult with your lender or an attorney before recording your Notice of Commencement.

I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Division of Building Safety Regulations (www.floridabuilding.org) and City Ordinances (www.municode.com) regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable City and/or State of Florida codes and/or ordinances. Application is hereby made to obtain a permit to do the 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 will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for all other construction including ROOFING, ELECTRICAL, MECHANICAL, PLUMBING, GAS, SIGNS, POOLS, SCREEN ENCLOSURES, ETC.

OWNER'S AFFIDAVIT: 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.

Owner Signature [Signature]
 The foregoing instrument was acknowledged before me this 3/23/18
 by Frederick Christensen Jr. who is personally known to me
 and who produced I.D. CG23-252-84-42670
 as identification and who did not take an oath.
 Notary as to Owner
 State of Florida
 County of Orange



Contractor Signature [Signature]
 COMPANY NAME Primeco LLC
 The foregoing instrument was acknowledged before me this 3/23/18
 by Jose Basillo who is personally known to me
 and who produced FL Lic # B344436762500
 as identification and who did not take an oath.
 Notary as to Owner
 State of Florida
 County of Orange



Impervious Surface Ratio Worksheet
 Development Zoned A-1, A-2, R-1-AAA, R-1-AA, R-1-A, R-1 per City Code, Section 50-74: Impervious Surface Ratio

- Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).
 Total Lot Area 15,246 X 0.35 =
 Allowable Impervious Area (BASE) 5,336 FT²
- Calculate the "proposed" impervious area on the lot. This includes the sum of all areas that do not allow direct percolation of rainwater. Examples include house, pool, deck, driveway, accessory building, etc.
 - House 3,890 FT²
 - Driveway 1,100 FT²
 - Walkway _____
 - Accessory Buildings _____
 - Pool & Spa _____
 - Deck & Patio _____
 - Other _____
 Actual Impervious Area (AIA) 4,990 FT²
- If AIA is less than BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing onsite retention.
- If AIA is greater than BASE, then onsite retention **must be provided**.

Assuming 7.5 inches of rainfall based on a 24hr 10 year Rain Event (TP40), the formula is: (7.5 Inches rainfall/12 inches p/foot) X (result from line 4) = cubic feet of storage volume needed

2002 Hoffner

Record Notarized Document at OC Comptroller's Office - 109 E. Church Street, Suite 300, Orlando

Permit Number: _____
Folio/Parcel Identification Number: _____
Prepared by: _____
Return to: 2809 E. Josly Ave.
Orlando, FL 32806

DOCH 20180386204
06/28/2018 01:39:16 PM Page 1 of 1
Rec Fee: \$10.00
Phil Diamond, Comptroller
Orange County, FL
IP - Ret To: FREDERICK CHRISTENSEN



NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- Description of property** (legal description of the property, and street address if available)
2203 HOFFNER AVE. BELLE ISLE, FL 32809
- General description of improvement**
New construction
- Owner information or Lessee information if the Lessee contracted for the improvement**
Name Frederick Christensen
Address 2203 Hoffner Ave Belle Isle, FL 32809
Interest in Property 100
Name and address of fee simple titleholder (if different from Owner listed above)
Name _____
Address _____
- Contractor**
Name Primeco LLC Telephone Number 407-552-1285
Address 13314 Sproston PT Orlando, FL 32832
- Surety** (if applicable, a copy of the payment bond is attached)
Name _____ Telephone Number _____
Address _____ Amount of Bond \$ _____
- Lender**
Name _____ Telephone Number _____
Address _____
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
Name _____ Telephone Number _____
Address _____
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
Name _____ Telephone Number _____
Address _____
- Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) _____



State of Florida, County of Orange
I hereby certify that this is a true copy of the document as reflected in the Official Records
PHIL DIAMOND, COUNTY COMPTROLLER
BY: [Signature], D.C.
DATED: 06-28-18

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

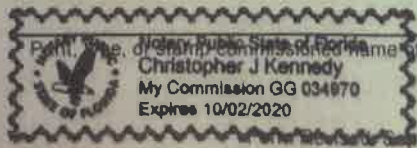
Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.

[Signature]
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager

Signatory's Title/Office

The foregoing instrument was acknowledged before me this 21 day of June by Freddy Christensen
month/year name of person
as Officer for _____
Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

[Signature]
Signature of Notary Public - State of Florida



Personally Known X OR Produced ID _____
Type of ID Produced _____

September 26, 2011



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

(850) 487-1395

**BADILLO, JOSE R
PRIMECO, LLC
13314 SPROSTON PT.
SUITE 204
ORLANDO FL 32832**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

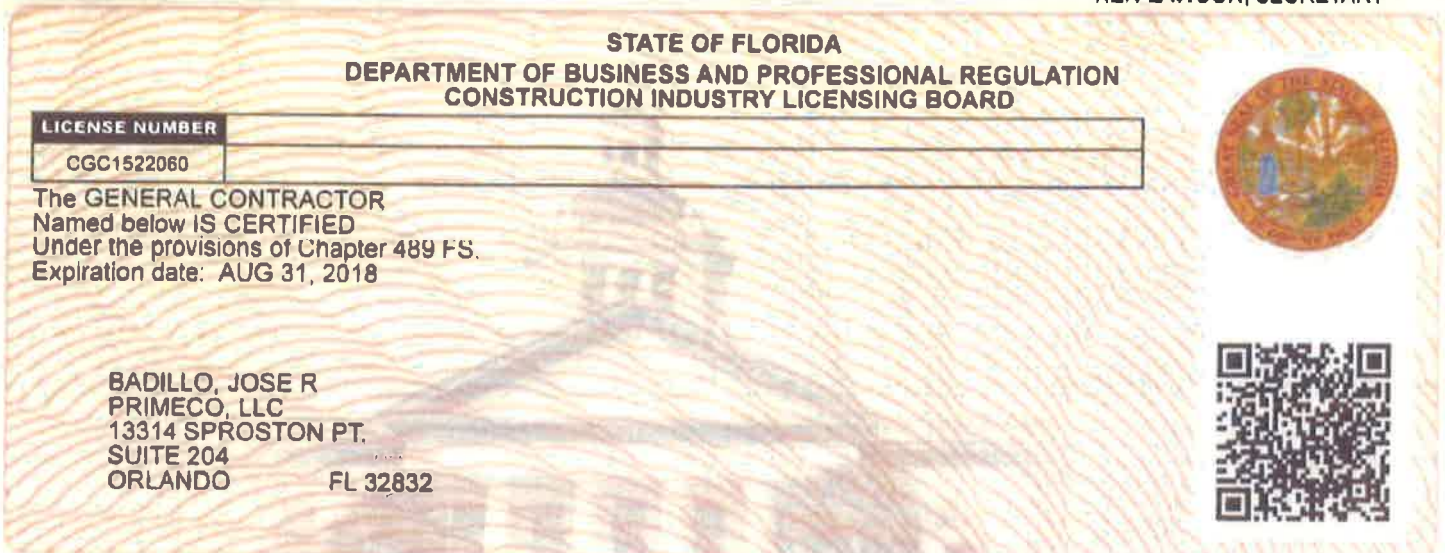
Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY



ISSUED: 06/27/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1606270000478



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
3/1/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER FULCRO INSURANCE OF GA LLC 47 PERIMETER CENTER E SUITE 100 ATLANTA GA 30346	CONTACT NAME: ENRIQUE R. PEREZ PHONE (A/C, No, Ext): (404) 873-2536 E-MAIL ADDRESS: EPEREZ@FULCROINSURANCE.COM	FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE	
INSURED PRIMECO LLC & 13314 SPROSTON PT ORLANDO FL 32832 FEIN: 474374230	INSURER A: FWCJUA	NAIC #
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

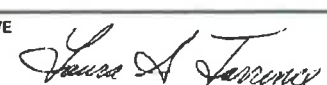
COVERAGES **CERTIFICATE NUMBER:** 1803010058 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR	INSR	WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:							EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COM/OP AGG \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY							COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$							EACH OCCURRENCE \$ AGGREGATE \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below				6G436008	6/1/2017	6/1/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 100,000.00 E.L. DISEASE - EA EMPLOYEE \$ 100,000.00 E.L. DISEASE - POLICY LIMIT \$ 500,000.00

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

MINIMUM PREMIUM POLICY

CERTIFICATE HOLDER City of Belle Isle 1600 Nela Avenue Belle Isle FL 32809 Phone Number: (407) 851-7730	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
--	---

9310 7/14/2017

Tax Collector Local Business Tax Receipt Orange

In addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to... from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

2017

EXPIRES 9/30/2018

5000-1168

EMPLOYEE 1801 CERT GENERAL CONTR \$30.00

\$60.00
\$60.00
\$0.00



•BADILLO JOSE R

PRIMECO LLC
13314 SPROSTON PT
ORLANDO FL 32832

MOBILE)

79310 7/14/2017

This receipt is official when validated by the Tax Collector.



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Product Approval Form

DATE: 7-9-18

PERMIT # 2018-06-026

PROJECT ADDRESS 2203 Huffman Ave, Belle Isle, FL 32809 32812

As required by Florida Statue 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at www.floridabuilding.org or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

1. This Product Approval Cover Sheet
2. Internet screen from FloridaBuilding.org showing PA#, approval and code edition stamped
3. Manufacturer's installation details from FloridaBuilding.org and requirements for each product stamped

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding			<u>FL 2179.1</u>	Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbf Hung			<u>FL 1435.4</u>	Asphalt Shingles			
Horizontal Slider			<u>FL 1844.2</u>	Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion			<u>FL 1759.1</u>	Underlayment			
Skylights				Other			
Other							
STRUCTURAL COMPONENTS				OTHER			
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

Reviewed for Code Compliance
 Universal Engineering Sciences

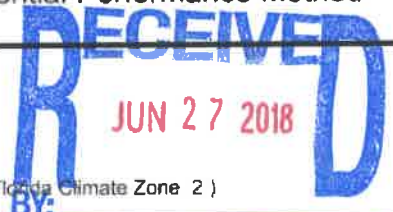
It is the applicant's responsibility to verify that specific products have been installed in accordance with their limitations and with the minimum required design pressures for the structure. Specific compliance will be verified during field inspections.

Applicant Signature _____

Date _____

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method



Project Name: CHRISTENSEN Street: 2203 HOFFNER AVE City, State, Zip: BELLE ISLE, FL, Owner: CHRISTENSEN Design Location: FL, Orlando	Builder Name: OWNER Permit Office: Permit Number: Jurisdiction: County: ORANGE (Florida Climate Zone 2)
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<table style="width:100%;"> <tr> <td>1. New construction or existing</td> <td>New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Single-family</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>2873</td> </tr> <tr> <td> Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(450.5 sqft.)</td> <td>Description Area</td> </tr> <tr> <td> a. U-Factor:</td> <td>Dbl, U=0.40 450.50 ft²</td> </tr> <tr> <td> SHGC:</td> <td>SHGC=0.40</td> </tr> <tr> <td> b. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> </tr> <tr> <td> c. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> </tr> <tr> <td> d. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> </tr> <tr> <td> Area Weighted Average Overhang Depth:</td> <td>3.679 ft.</td> </tr> <tr> <td> Area Weighted Average SHGC:</td> <td>0.400</td> </tr> <tr> <td>8. Floor Types (2873.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td> a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 2873.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td>R= ft²</td> </tr> <tr> <td> c. N/A</td> <td>R= ft²</td> </tr> </table>	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	3	5. Is this a worst case?	No	6. Conditioned floor area above grade (ft ²)	2873	Conditioned floor area below grade (ft ²)	0	7. Windows(450.5 sqft.)	Description Area	a. U-Factor:	Dbl, U=0.40 450.50 ft ²	SHGC:	SHGC=0.40	b. U-Factor:	N/A ft ²	SHGC:		c. U-Factor:	N/A ft ²	SHGC:		d. U-Factor:	N/A ft ²	SHGC:		Area Weighted Average Overhang Depth:	3.679 ft.	Area Weighted Average SHGC:	0.400	8. Floor Types (2873.0 sqft.)	Insulation Area	a. Slab-On-Grade Edge Insulation	R=0.0 2873.00 ft ²	b. N/A	R= ft ²	c. N/A	R= ft ²	<table style="width:100%;"> <tr> <td>9. Wall Types (2853.3 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td> a. Concrete Block - Int Insul, Exterior</td> <td>R=4.2</td> <td>2713.30 ft²</td> </tr> <tr> <td> b. Frame - Wood, Adjacent</td> <td>R=13.0</td> <td>140.00 ft²</td> </tr> <tr> <td> c. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td> d. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>10. Ceiling Types (2873.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td> a. Under Attic (Vented)</td> <td>R=30.0</td> <td>2873.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td> c. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>11. Ducts</td> <td></td> <td>R ft²</td> </tr> <tr> <td> a. Sup: Attic, Ret: Attic, AH: Main</td> <td></td> <td>6 250</td> </tr> <tr> <td>12. Cooling systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td> a. Central Unit</td> <td>60.0</td> <td>SEER:15.00</td> </tr> <tr> <td>13. Heating systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td> a. Electric Heat Pump</td> <td>60.0</td> <td>HSPF:8.70</td> </tr> <tr> <td>14. Hot water systems</td> <td></td> <td>Cap: 50 gallons</td> </tr> <tr> <td> a. Electric</td> <td></td> <td>EF: 0.950</td> </tr> <tr> <td> b. Conservation features</td> <td></td> <td>None</td> </tr> <tr> <td>15. Credits</td> <td></td> <td>CF, Pstat</td> </tr> </table>	9. Wall Types (2853.3 sqft.)	Insulation	Area	a. Concrete Block - Int Insul, Exterior	R=4.2	2713.30 ft ²	b. Frame - Wood, Adjacent	R=13.0	140.00 ft ²	c. N/A	R=	ft ²	d. N/A	R=	ft ²	10. Ceiling Types (2873.0 sqft.)	Insulation	Area	a. Under Attic (Vented)	R=30.0	2873.00 ft ²	b. N/A	R=	ft ²	c. N/A	R=	ft ²	11. Ducts		R ft ²	a. Sup: Attic, Ret: Attic, AH: Main		6 250	12. Cooling systems	kBtu/hr	Efficiency	a. Central Unit	60.0	SEER:15.00	13. Heating systems	kBtu/hr	Efficiency	a. Electric Heat Pump	60.0	HSPF:8.70	14. Hot water systems		Cap: 50 gallons	a. Electric		EF: 0.950	b. Conservation features		None	15. Credits		CF, Pstat
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Glass/Floor Area: 0.157	Total Proposed Modified Loads: 84.73	PASS
	Total Baseline Loads: 86.58	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u>GANNON BOGGS III</u> DATE: <u>6-5-18</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____ DATE: _____</p>	<p>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.</p> <div style="text-align: right;"> </div> <p>BUILDING OFFICIAL: DATE: <u>8-3-18</u></p>
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- 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 6.00 ACH50 (R402.4.1.2).



INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	CHRISTENSEN	Bedrooms:	3	Address Type:	Street Address							
Building Type:	User	Conditioned Area:	2873	Lot #								
Owner Name:	CHRISTENSEN	Total Stories:	1	Block/Subdivision:								
# of Units:	1	Worst Case:	No	PlatBook:								
Builder Name:	OWNER	Rotate Angle:	0	Street:	2203 HOFFNER AVE							
Permit Office:		Cross Ventilation:		County:	ORANGE							
Jurisdiction:		Whole House Fan:		City, State, Zip:	BELLE ISLE , FL ,							
Family Type:	Single-family											
New/Existing:	New (From Plans)											
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	TMY Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range	
<input type="checkbox"/>	FL, Orlando	FL_ORLANDO_INTL_AR	41	91	70	75	526	44	Medium			
BLOCKS												
	Number	Name	Area	Volume								
	1	Block1	2873	28730								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	Main	2873	28730	Yes	4	3	1	Yes	Yes	Yes	
FLOORS												
<input checked="" type="checkbox"/>	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet			
<input type="checkbox"/>	1	Slab-On-Grade Edge Insulatio	Main	287 ft	0	2873 ft²	---	0.6	0	0.4		
ROOF												
<input checked="" type="checkbox"/>	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
<input type="checkbox"/>	1	Hip	Metal	3112 ft²	0 ft²	Light	0.6	No	0.9	No	0	22.6
ATTIC												
<input checked="" type="checkbox"/>	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC					
<input type="checkbox"/>	1	Full attic	Vented	150	2873 ft²	N	N					
CEILING												
<input checked="" type="checkbox"/>	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type				
<input type="checkbox"/>	1	Under Attic (Vented)	Main	30	Blown	2873 ft²	0.11	Wood				

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	SE	Exterior	Concrete Block - Int Insul	Main	4.2	53	4	10		533.3 ft²		0	0.4	0
2	SE	Exterior	Concrete Block - Int Insul	Main	4.2	14		10		140.0 ft²		0	0.4	0
3	SW	Exterior	Concrete Block - Int Insul	Main	4.2	48		10		480.0 ft²		0	0.4	0
4	W	Exterior	Concrete Block - Int Insul	Main	4.2	9	4	10		93.3 ft²		0	0.4	0
5	NW	Exterior	Concrete Block - Int Insul	Main	4.2	25	8	10		256.7 ft²		0	0.4	0
6	NW	Exterior	Concrete Block - Int Insul	Main	4.2	43	8	10		436.7 ft²		0	0.4	0
7	SW	Exterior	Concrete Block - Int Insul	Main	4.2	6	8	10		66.7 ft²		0	0.4	0
8	NE	Exterior	Concrete Block - Int Insul	Main	4.2	61	4	10		613.3 ft²		0	0.4	0
9	SE	Garage	Frame - Wood	Main	13	14		10		140.0 ft²		0.13	0.4	0
10	N	Exterior	Concrete Block - Int Insul	Main	4.2	9	4	10		93.3 ft²		0	0.4	0

DOORS

✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	SE	Insulated	Main	None	.35	6		8		48 ft²
2	NW	Insulated	Main	None	.35	3		8		24 ft²
3	SE	Insulated	Main	None	.35	2	8	8		21.3 ft²
4	NE	Insulated	Main	None	.35	3		8		24 ft²
5	SE	Insulated	Main	None	.35	3		8		24 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Omt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	SE	1	Metal	Low-E Double	Yes	0.4	0.4	N	72.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
2	SE	1	Metal	Low-E Double	Yes	0.4	0.4	N	40.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
3	W	4	Metal	Low-E Double	Yes	0.4	0.4	N	20.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
4	NW	5	Metal	Low-E Double	Yes	0.4	0.4	N	20.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
5	NW	5	Metal	Low-E Double	Yes	0.4	0.4	N	48.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
6	NW	5	Metal	Low-E Double	Yes	0.4	0.4	N	20.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
7	NW	6	Metal	Low-E Double	Yes	0.4	0.4	N	22.5 ft²	8 ft 0 in	0 ft 8 in	Drapes/blinds	None
8	NW	6	Metal	Low-E Double	Yes	0.4	0.4	N	96.0 ft²	8 ft 0 in	0 ft 8 in	Drapes/blinds	None
9	NW	6	Metal	Low-E Double	Yes	0.4	0.4	N	40.0 ft²	8 ft 0 in	0 ft 8 in	Drapes/blinds	None
10	SW	7	Metal	Low-E Double	Yes	0.4	0.4	N	48.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
11	N	10	Metal	Low-E Double	Yes	0.4	0.4	N	20.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None
12	SW	3	Metal	Low-E Double	Yes	0.4	0.4	N	4.0 ft²	1 ft 4 in	0 ft 8 in	Drapes/blinds	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE														
<input checked="" type="checkbox"/>	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation								
	1	590.9489 ft²	590.9489 ft²	64 ft	10 ft	1								
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50						
1	Wholehouse	Proposed ACH(50)	.000381	2873	157.72	296.62	.2954	6						
HEATING SYSTEM														
<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts							
	1	Electric Heat Pump/	None	HSPF:8.7	60 kBtu/hr	1	sys#1							
COOLING SYSTEM														
<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts					
	1	Central Unit/	None	SEER: 15	60 kBtu/hr	1800 cfm	0.75	1	sys#1					
HOT WATER SYSTEM														
<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
	1	Electric	None	Garage	0.95	50 gal	60 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF							
	None	None			ft²									
DUCTS														
<input checked="" type="checkbox"/>	#	--- Supply ---			--- Return ---			Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
	1	Attic	6	250 ft²	Attic	143.65	Default Leakage	Main	(Default)	(Default)			1	1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

Hours

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	Fan Watts	HRV	Heating System	Run Time	Cooling System
Runtime Vent	60	0	0	0	1 - Electric Heat Pump	%	1 - Central Unit

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft ²	0 ft	0.3	Main

Name:

Signature: _____

Rating Compant:

Date: _____

Building Input Summary Report

PROJECT										
Title:	CHRISTENSEN	Bedrooms:	3	Address type:	S					
Building Type:	User	Conditioned Area:	2873	Lot #:						
Owner:	CHRISTENSEN	Total Stories:	1	Block/SubDivision:						
Builder Name:	OWNER	Worst Case:	No	PlatBook:						
Permit Office:		Rotate Angle:	0	Street:	2203 HOFFNER AVE					
Jurisdiction:		Cross Ventilation:		County:	ORANGE					
Family Type:	Single-family	Whole House Fan:		City, State, Zip:	BELLE ISLE, FL,					
New/Existing:	New (From Plans)	Terrain:	Suburban							
Year Construct:		Shielding:	Suburban							
Comment:										
CLIMATE										
<input checked="" type="checkbox"/> Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range
<input type="checkbox"/> FL, Orlando	FL_ORLANDO_INTL_ARPT	41	91		70	75	526	44		Medium
UTILITY										
<input checked="" type="checkbox"/> Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
<input type="checkbox"/> Electricity	kWh	EnergyGauge Default					0.00	0.11		
<input type="checkbox"/> Natural Gas	Therm	EnergyGauge Default					0.00	0.68		
<input type="checkbox"/> Fuel Oil	Gallon	EnergyGauge Default					0.00	1.10		
<input type="checkbox"/> Propane	Gallon	EnergyGauge Default					0.00	1.40		
SURROUNDINGS										
Omt	Type	-----Shade Trees-----			Exist	-----Adjacent Buildings-----				
		Height	Width	Distance		Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
<input checked="" type="checkbox"/> Number	Name	Area	Volume							
<input type="checkbox"/> 1	Block1	2873	28730							
SPACES										
<input checked="" type="checkbox"/> Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
<input type="checkbox"/> 1	Main	2873	28730	Yes	4	3	Yes	Yes	Yes	

Building Input Summary Report

FLOORS (Total Exposed Area = 2873 sq. ft.)													
✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet			
1	Slab-On-Grade Edge Ins	Main	287	0	2873 ft	0.657		0.6	0	0.4			
ROOF													
✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt Tested	Emitt	Deck Insul.	Pitch (deg)		
1	Hip	Metal	3112 ft²	0 ft²	Light	0.6	No	0.9	No	0	22.6		
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	2873 ft²	N	N							
CEILING (Total Exposed Area = 2873 sq. ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
1	Under Attic(Vented)	Main	30.0	Blown	2873.0ft²	0.032	0.11	Wood					
WALLS (Total Exposed Area = 2853 sq. ft.)													
✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
1	SE	Exterior	Conc. Blk - Int Ins	Main	4.2	53.0 4	10.0 0	533.3	0.147		0	0.4	0 %
2	SE	Exterior	Conc. Blk - Int Ins	Main	4.2	14.0 0	10.0 0	140.0	0.147		0	0.4	0 %
3	SW	Exterior	Conc. Blk - Int Ins	Main	4.2	48.0 0	10.0 0	480.0	0.147		0	0.4	0 %
4	W	Exterior	Conc. Blk - Int Ins	Main	4.2	9.0 4	10.0 0	93.3	0.147		0	0.4	0 %
5	NW	Exterior	Conc. Blk - Int Ins	Main	4.2	25.0 8	10.0 0	256.7	0.147		0	0.4	0 %
6	NW	Exterior	Conc. Blk - Int Ins	Main	4.2	43.0 8	10.0 0	436.7	0.147		0	0.4	0 %
7	SW	Exterior	Conc. Blk - Int Ins	Main	4.2	6.0 8	10.0 0	66.7	0.147		0	0.4	0 %
8	NE	Exterior	Conc. Blk - Int Ins	Main	4.2	61.0 4	10.0 0	613.3	0.147		0	0.4	0 %
9	SE	Garage	Frame - Wood	Main	13.0	14.0 0	10.0 0	140.0	0.076		0.13	0.4	0 %
10	N	Exterior	Conc. Blk - Int Ins	Main	4.2	9.0 4	10.0 0	93.3	0.147		0	0.4	0 %
DOORS (Total Exposed Area = 141 sq. ft.)													
✓ #	Omt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area				
1	SE	Exterior	Insulated	Main	None	0.35	6.00 0	8.00 0	48.0ft²				
2	NW	Exterior	Insulated	Main	None	0.35	3.00 0	8.00 0	24.0ft²				
3	SE	Garage	Insulated	Main	None	0.35	2.00 8	8.00 0	21.3ft²				
4	NE	Exterior	Insulated	Main	None	0.35	3.00 0	8.00 0	24.0ft²				
5	SE	Exterior	Insulated	Main	None	0.35	3.00 0	8.00 0	24.0ft²				

Building Input Summary Report

WINDOWS														
(Total Exposed Area = 451 sq.ft.)														
✓ #	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Imp	Storm	Area	---Overhang---		Interior Shade	Screening
											Depth	Separation		
___ 1	SE	1	Metal	Low-E Double	Yes	0.40	0.40	N	N	72.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 2	SE	1	Metal	Low-E Double	Yes	0.40	0.40	N	N	40.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 3	W	4	Metal	Low-E Double	Yes	0.40	0.40	N	N	20.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 4	NW	5	Metal	Low-E Double	Yes	0.40	0.40	N	N	20.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 5	NW	5	Metal	Low-E Double	Yes	0.40	0.40	N	N	48.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 6	NW	5	Metal	Low-E Double	Yes	0.40	0.40	N	N	20.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 7	NW	6	Metal	Low-E Double	Yes	0.40	0.40	N	N	22.5ft²	8.0 ft 0 in	0.0 ft 8 in	Drapes/blinds	None
___ 8	NW	6	Metal	Low-E Double	Yes	0.40	0.40	N	N	96.0ft²	8.0 ft 0 in	0.0 ft 8 in	Drapes/blinds	None
___ 9	NW	6	Metal	Low-E Double	Yes	0.40	0.40	N	N	40.0ft²	8.0 ft 0 in	0.0 ft 8 in	Drapes/blinds	None
___ 10	SW	7	Metal	Low-E Double	Yes	0.40	0.40	N	N	48.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 11	N	10	Metal	Low-E Double	Yes	0.40	0.40	N	N	20.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None
___ 12	SW	3	Metal	Low-E Double	Yes	0.40	0.40	N	N	4.0ft²	1.0 ft 4 in	0.0 ft 8 in	Drapes/blinds	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	
___ 1	Wholehouse	Proposed ACH(50)	0.00038	2873	157.72	296.62	0.2954	6.0	All	

GARAGE						
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation	
___ 1	591 ft²	591 ft²	64 ft	10 ft	1	

MASS						
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space	
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main	

HEATING SYSTEM										
✓ #	System Type	Subtype	AHRI #	Efficiency	Capacity kBTu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt Current		
___ 1	Electric Heat Pump	None		HSPF: 8.70	60.0	0.00	0.00	0.00	sys#1	1

COOLING SYSTEM										
✓ #	System Type	Subtype	AHRI #	Efficiency	Capacity kBTu/hr	Air Flow cfm	SHR	Duct	Block	
___ 1	Central Unit	None		SEER:15	60.0	1800	0.75	sys#1	1	

Building Input Summary Report

HOT WATER SYSTEM										
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.95 (---)	50.00 gal	60 gal	120 deg	Standard	None	0
Recirculation System		Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS													
✓ Duct #	Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	250 ft²	Attic	6.0	144 ft²	Default Leakage	Main	(Default)	(Default)			1 1

MECHANICAL VENTILATION							
✓ Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
___ Runtime Vent	60.0	0.0	0.0	0.0 W	0 %	1 - Electric Heat Pump	1 - Central Unit

TEMPERATURES													
Programable Thermostat: Y						Ceiling Fans: N							
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec	
✓ Thermostat Schedule: HERS 2006 Reference	Hours												
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM 78	PM 80	78	78	78	78	78	78	78	80	80	80	80
___ Cooling (WEH)	AM 78	PM 78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM 66	PM 68	66	66	66	66	68	68	68	68	68	68	68
___ Heating (WEH)	AM 66	PM 68	66	66	66	66	68	68	68	68	68	68	68

REFRIGERATORS										
✓ ID	Type	Screen	Location	Quantity	Vol	Frz. Vol	Make	Model	Schedule	kWhPerYr
___ 1	Default Refrigerator	Default New	Main	1	26	5			HERS2011	

HARD WIRED LIGHTING										
✓ ID	Type	Screen	Location	Total#	Quantity#	Comp FI	All Other FI	Bulb Type	Schedule	Watts per bulb
___ 1	Hard-Wired	Default	Main	20	2				HERS2011	60
___ 2	Hard-Wired	Default	Exterior	20	2				HERS2011	60
___ 3	Hard-Wired	Default	Garage	20	2				HERS2011	60

Building Input Summary Report

MISC ELECTRICAL LOADS

✓ ID	Type	Screen	Location	Item	Quantity	Category	Operating	Schedule	Off Standby
1	Misc Elec Load	Simple Default	Main		1		1	HERS2011	1

CEILING FANS

✓ ID	Type	Screen	Default/New	cfmperW
1	CeilingFan	Default New	Standard	---

APPLIANCES & LIGHTING SCHEDULES

Appliance Schedule: HERS2014			Hours											
Schedule Type			1	2	3	4	5	6	7	8	9	10	11	12
Occupancy peak:	400 Btu	AM	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.980	0.460	0.270	0.270	0.270
% Released:	100 %	PM	0.270	0.270	0.270	0.270	0.330	0.610	1.000	1.000	0.930	0.930	0.930	0.930
refrig peak:	94 W	AM	0.824	0.804	0.784	0.764	0.744	0.734	0.744	0.754	0.764	0.794	0.814	0.854
% Released:	100 %	PM	0.854	0.864	0.884	0.904	0.925	0.945	0.925	0.915	0.904	0.894	0.874	0.854
cWash peak:	0 W	AM	0.200	0.100	0.050	0.050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
% Released:	30 %	PM	0.875	0.850	0.800	0.625	0.625	0.600	0.575	0.550	0.625	0.700	0.650	0.375
E-cDry peak:	0 W	AM	0.200	0.100	0.050	0.050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
% Released:	15 %	PM	0.875	0.850	0.800	0.625	0.625	0.600	0.575	0.550	0.625	0.700	0.650	0.375
dWash peak:	0 W	AM	0.139	0.050	0.028	0.024	0.029	0.090	0.169	0.303	0.541	0.594	0.502	0.443
% Released:	60 %	PM	0.376	0.396	0.334	0.323	0.344	0.448	0.791	1.000	0.800	0.597	0.383	0.281
E-rOven peak:	0 W	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.400
% Released:	80 %	PM	0.457	0.343	0.286	0.400	0.571	1.000	0.857	0.429	0.286	0.229	0.171	0.114
TVs peak:	226 W	AM	0.100	0.050	0.050	0.050	0.100	0.200	0.400	0.450	0.400	0.200	0.100	0.100
% Released:	100 %	PM	0.050	0.050	0.150	0.450	0.850	1.000	0.950	0.800	0.500	0.250	0.150	0.100
cFan peak:	170 W	AM	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.250	0.250	0.250	0.250	0.250
% Released:	100 %	PM	0.250	0.250	0.250	0.250	0.250	0.250	0.550	0.600	0.600	0.600	0.600	0.600
lgts-in peak:	890 W	AM	0.160	0.150	0.160	0.180	0.230	0.450	0.420	0.260	0.190	0.160	0.120	0.110
% Released:	100 %	PM	0.160	0.170	0.250	0.270	0.340	0.550	0.600	0.880	1.000	0.880	0.510	0.280
lgts-out peak:	65 W	AM	1.000	1.000	1.000	1.000	1.000	0.750	0.750	0.000	0.000	0.000	0.000	0.000
% Released:	0 %	PM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.750	0.750	0.750	1.000
lgts-gar peak:	37 W	AM	0.000	0.000	0.000	0.000	0.000	0.500	0.750	1.000	0.750	0.500	0.000	0.000
% Released:	0 %	PM	0.000	0.000	0.500	0.500	0.750	1.000	0.750	0.500	0.000	0.000	0.000	0.000
MEL peak:	0 W	AM	0.500	0.500	0.500	0.750	0.750	0.850	1.000	1.000	1.000	1.000	0.900	0.900
% Released:	90 %	PM	0.900	0.900	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.850	0.750	0.750

Florida Code Summary Report

CHRISTENSEN
 2203 HOFFNER AVE
 BELLE ISLE, FL,
 Registration #:

Title: CHRISTENSEN
 FLProp2017

TMY City: FL_ORLANDO_INTL
 Elec Util: EnergyGauge Default
 Gas Util: EnergyGauge Default
 Run Date:

Energy Uses	Reference Home	Proposed Home	e-Ratio
Heating	2.88 MBtu	3.23 MBtu	1.12
Cooling	21.77 MBtu	20.97 MBtu	0.96
Hot Water	8.25 MBtu	8.19 MBtu	0.99
Total	32.91 MBtu	32.39 MBtu	0.98

Building Loads	Reference Home	Proposed Home	e-Ratio
Heating	7.15 MBtu	8.00 MBtu*	1.12
Cooling	71.69 MBtu	69.05 MBtu*	0.96
Hot Water	7.74 MBtu	7.69 MBtu*	0.99
Total	86.58 MBtu	84.73 MBtu	0.98

* normalized modified loads

Glass/Floor Area: 0.157	Total Proposed Modified Loads: 84.73	PASS
	Total Reference Loads: 86.58	

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:	Permit #:
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Job Information

Builder: OWNER	Community:	Lot: NA
Address: 2203 HOFFNER AVE		
City: BELLE ISLE	State: FL	Zip:

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):* 6.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 + \frac{28730}{\text{Building Volume}} = \text{ACH}(50)$$

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 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*.

- 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: _____

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: CHRISTENSEN Street: 2203 HOFFNER AVE City, State, Zip: BELLE ISLE , FL , Owner: CHRISTENSEN Design Location: FL, Orlando		Builder Name: OWNER Permit Office: Permit Number: Jurisdiction:		CHECK
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 air 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 attic spaces 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 within 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 shall include the 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 side of 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 instead of floor insulation, insulation shall be permanently attached to the crawlspace		
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening 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 installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	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 sub-floor 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.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

The lower the Energy Performance Index, the more efficient the home.

<p>1. New home or, addition</p> <p>2. Single-family or multiple-family</p> <p>3. No. of units (if multiple-family)</p> <p>4. Number of bedrooms</p> <p>5. Is this a worst case? (yes/no)</p> <p>6. Conditioned floor area (sq. ft.)</p> <p>7. Windows, type and area</p> <p style="margin-left: 20px;">a) U-factor:(weighted average)</p> <p style="margin-left: 20px;">b) Solar Heat Gain Coefficient (SHGC)</p> <p style="margin-left: 20px;">c) Area</p> <p>8. Skylights</p> <p style="margin-left: 20px;">a) U-factor:(weighted average)</p> <p style="margin-left: 20px;">b) Solar Heat Gain Coefficient (SHGC)</p> <p>9. Floor type, insulation level:</p> <p style="margin-left: 20px;">a) Slab-on-grade (R-value)</p> <p style="margin-left: 20px;">b) Wood, raised (R-value)</p> <p style="margin-left: 20px;">c) Concrete, raised (R-value)</p> <p>10. Wall type and Insulation:</p> <p style="margin-left: 20px;">A. Exterior:</p> <p style="margin-left: 40px;">1. Wood frame (Insulation R-value)</p> <p style="margin-left: 40px;">2. Masonry (Insulation R-value)</p> <p style="margin-left: 20px;">B. Adjacent:</p> <p style="margin-left: 40px;">1. Wood frame (Insulation R-value)</p> <p style="margin-left: 40px;">2. Masonry (Insulation R-value)</p> <p>11. Ceiling type and insulation level</p> <p style="margin-left: 20px;">a) Under attic</p> <p style="margin-left: 20px;">b) Single assembly</p> <p style="margin-left: 20px;">c) Knee walls/skylight walls</p> <p style="margin-left: 20px;">d) Radiant barrier installed</p>	<p>1. <u>New (From Plans)</u></p> <p>2. <u>Single-family</u></p> <p>3. <u>1</u></p> <p>4. <u>3</u></p> <p>5. <u>No</u></p> <p>6. <u>2873</u></p> <p>7a. <u>0.400</u></p> <p>7b. <u>0.400</u></p> <p>7c. <u>450.5</u></p> <p>8a. <u>NA</u></p> <p>8b. <u>NA</u></p> <p>9a. <u>0.0</u></p> <p>9b. _____</p> <p>9c. _____</p> <p>10A1. _____</p> <p>10A2. <u>4.2</u></p> <p>10B1. <u>13.0</u></p> <p>10B2. _____</p> <p>11a. <u>30.0</u></p> <p>11b. _____</p> <p>11c. _____</p> <p>11d. <u>No</u></p>	<p>12. Ducts, location & Insulation level</p> <p style="margin-left: 20px;">a) Supply ducts R <u>6.0</u></p> <p style="margin-left: 20px;">b) Return ducts R <u>6.0</u></p> <p style="margin-left: 20px;">c) AHU location <u>Attic/Attic</u></p> <p>13. Cooling system: Capacity <u>60.0</u></p> <p style="margin-left: 20px;">a) Split system SEER _____</p> <p style="margin-left: 20px;">b) Single package SEER _____</p> <p style="margin-left: 20px;">c) Ground/water source SEER/COP _____</p> <p style="margin-left: 20px;">d) Room unit/PTAC EER _____</p> <p style="margin-left: 20px;">e) Other <u>15.0</u></p> <p>14. Heating system: Capacity <u>60.0</u></p> <p style="margin-left: 20px;">a) Split system heat pump HSPF _____</p> <p style="margin-left: 20px;">b) Single package heat pump HSPF _____</p> <p style="margin-left: 20px;">c) Electric resistance COP _____</p> <p style="margin-left: 20px;">d) Gas furnace, natural gas AFUE _____</p> <p style="margin-left: 20px;">e) Gas furnace, LPG AFUE _____</p> <p style="margin-left: 20px;">f) Other <u>8.70</u></p> <p>15. Water heating system</p> <p style="margin-left: 20px;">a) Electric resistance EF <u>0.95</u></p> <p style="margin-left: 20px;">b) Gas fired, natural gas EF _____</p> <p style="margin-left: 20px;">c) Gas fired, LPG EF _____</p> <p style="margin-left: 20px;">d) Solar system with tank EF _____</p> <p style="margin-left: 20px;">e) Dedicated heat pump with tank EF _____</p> <p style="margin-left: 20px;">f) Heat recovery unit HeatRec% _____</p> <p style="margin-left: 20px;">g) Other _____</p> <p>16. HVAC credits claimed (Performance Method)</p> <p style="margin-left: 20px;">a) Ceiling fans <u>Yes</u></p> <p style="margin-left: 20px;">b) Cross ventilation <u>No</u></p> <p style="margin-left: 20px;">c) Whole house fan <u>No</u></p> <p style="margin-left: 20px;">d) Multizone cooling credit _____</p> <p style="margin-left: 20px;">e) Multizone heating credit _____</p> <p style="margin-left: 20px;">f) Programmable thermostat <u>Yes</u></p>
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*Label required by Section R303.1.3 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: _____

Address of New Home: 2203 HOFFNER AVE City/FL Zip: BELLE ISLE, FL

Residential System Sizing Calculation

Summary

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN

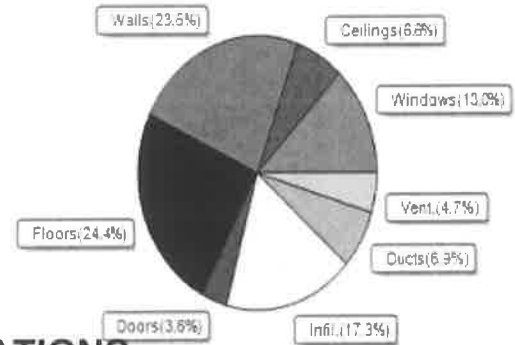
6/5/2018

Location for weather data: Orlando, FL - Defaults: Latitude(28.43) Altitude(118 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (76F) Humidity difference(44gr.)					
Winter design temperature(TMY3 99%)	36	F	Summer design temperature(TMY3 99%)	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	34	F	Summer temperature difference	18	F
Total heating load calculation	47104	Btuh	Total cooling load calculation	45408	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	127.4	60000	Sensible (SHR = 0.75)	134.0	45000
Heat Pump + Auxiliary(0.0kW)	127.4	60000	Latent	126.8	15000
			Total (Electric Heat Pump)	132.1	60000

WINTER CALCULATIONS

Winter Heating Load (for 2873 sqft)

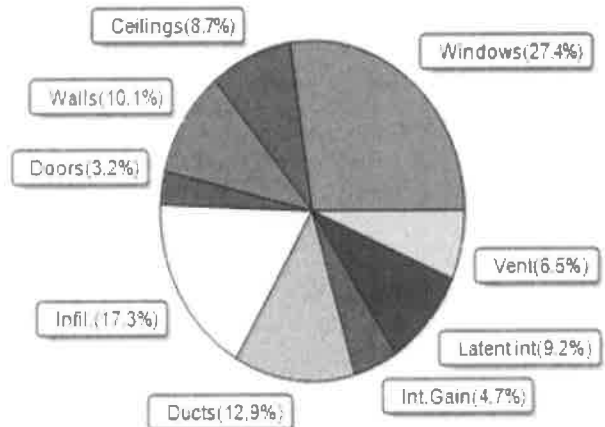
Load component	Load	
Window total	451 sqft	6127 Btuh
Wall total	2261 sqft	11071 Btuh
Door total	141 sqft	1682 Btuh
Ceiling total	2873 sqft	3111 Btuh
Floor total	2873 sqft	11514 Btuh
Infiltration	218 cfm	8130 Btuh
Duct loss		3233 Btuh
Subtotal		44868 Btuh
Ventilation	60 cfm	2236 Btuh
TOTAL HEAT LOSS		47104 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2873 sqft)

Load component	Load	
Window total	451 sqft	12436 Btuh
Wall total	2261 sqft	4601 Btuh
Door total	141 sqft	1435 Btuh
Ceiling total	2873 sqft	3934 Btuh
Floor total		0 Btuh
Infiltration	159 cfm	3132 Btuh
Internal gain		2120 Btuh
Duct gain		4736 Btuh
Sens. Ventilation	60 cfm	1184 Btuh
Blower Load		0 Btuh
Total sensible gain		33576 Btuh
Latent gain(ducts)		1111 Btuh
Latent gain(infiltration)		4732 Btuh
Latent gain(ventilation)		1789 Btuh
Latent gain(internal/occupants/other)		4200 Btuh
Total latent gain		11832 Btuh
TOTAL HEAT GAIN		45408 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: GANNON BOGGS III

DATE: 6-5-18

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN
Building Type: User

6/5/2018

Reference City: Orlando, FL (Defaults) Winter Temperature Difference: 34.0 F (TMY3 99%)

Component Loads for Whole House							
Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.40	Metal	0.40	SE	72.0	13.6	979 Btuh
2	2, NFRC 0.40	Metal	0.40	SE	40.0	13.6	544 Btuh
3	2, NFRC 0.40	Metal	0.40	W	20.0	13.6	272 Btuh
4	2, NFRC 0.40	Metal	0.40	NW	20.0	13.6	272 Btuh
5	2, NFRC 0.40	Metal	0.40	NW	48.0	13.6	653 Btuh
6	2, NFRC 0.40	Metal	0.40	NW	20.0	13.6	272 Btuh
7	2, NFRC 0.40	Metal	0.40	NW	22.5	13.6	306 Btuh
8	2, NFRC 0.40	Metal	0.40	NW	96.0	13.6	1306 Btuh
9	2, NFRC 0.40	Metal	0.40	NW	40.0	13.6	544 Btuh
10	2, NFRC 0.40	Metal	0.40	SW	48.0	13.6	653 Btuh
11	2, NFRC 0.40	Metal	0.40	N	20.0	13.6	272 Btuh
12	2, NFRC 0.40	Metal	0.40	SW	4.0	13.6	54 Btuh
Window Total					450.5(sqft)		6127 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	421	5.00	2106 Btuh
2	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	68	5.00	340 Btuh
3	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	476	5.00	2380 Btuh
4	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	73	5.00	367 Btuh
5	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	169	5.00	843 Btuh
6	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	254	5.00	1271 Btuh
7	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	19	5.00	93 Btuh
8	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	589	5.00	2946 Btuh
9	Frame - Wood - Adj		(0.089)	13.0/0.0	119	3.02	358 Btuh
10	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	73	5.00	367 Btuh
Wall Total					2261(sqft)		11071 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior, n		(0.350)		48	11.9	571 Btuh
2	Insulated - Exterior, n		(0.350)		24	11.9	286 Btuh
3	Insulated - Garage, n		(0.350)		21	11.9	254 Btuh
4	Insulated - Exterior, n		(0.350)		24	11.9	286 Btuh
5	Insulated - Exterior, n		(0.350)		24	11.9	286 Btuh
Door Total					141(sqft)		1682Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Metal		(0.032)	30.0/0.0	2873	1.1	3111 Btuh
Ceiling Total					2873(sqft)		3111Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	287.0 ft(perim.)	40.1	11514 Btuh
Floor Total					2873 sqft		11514 Btuh
Envelope Subtotal:							33505 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN
Building Type: User

6/5/2018

Infiltration	Type Natural(Adjusted for ventilation)	Wholehouse ACH 0.47	Volume(cuft) 28730	Wall Ratio 1.00	CFM= 218.2	8130 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)				(DLM of 0.078)	3233 Btuh
All Zones	Sensible Subtotal All Zones					44868 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	44868 Btuh
	Ventilation Sensible Heat Loss	2236 Btuh
	Total Heat Loss	47104 Btuh

EQUIPMENT

1. Electric Heat Pump	#	60000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

Manual J Summer Calculations

Residential Load - Component Details (continued)

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN

Climate:FL_ORLANDO_INTL_ARPT

6/5/2018

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural(Adjusted for ventilation)	0.33	28730	1	158.8	3132 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		4	X 230	+	1200	2120 Btuh
			Sensible Envelope Load:			27657 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.171)		4736 Btuh
			Sensible Load All Zones			32393 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN

Climate: FL_ORLANDO_INTL_ARPT

6/5/2018

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	27657 Btuh
	Sensible Duct Load	4736 Btuh
	Total Sensible Zone Loads	32393 Btuh
	Sensible ventilation	1184 Btuh
	Blower	0 Btuh
	Total sensible gain	33576 Btuh
	Latent infiltration gain (for 44 gr. humidity difference)	4732 Btuh
	Latent ventilation gain	1789 Btuh
	Latent duct gain	1111 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	3400 Btuh
	Latent total gain	11832 Btuh
	TOTAL GAIN	45408 Btuh

EQUIPMENT

1. Central Unit	#	60000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value)
 (U - Window U-Factor)
 (InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
 - For Blinds: Assume medium color, half closed
 For Draperies: Assume medium weave, half closed
 For Roller shades: Assume translucent, half closed
 (IS - Insect screen: none(N), Full(F) or Half(½))
 (Omt - compass orientation)



Version 8

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN
Building Type: User

6/5/2018

Reference City: Orlando, FL (Defaults) Winter Temperature Difference: 34.0 F (TMY3 99%)

Component Loads for Room #1: Main

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.40	Metal	0.40	SE	72.0		13.6	979 Btuh
2	2, NFRC 0.40	Metal	0.40	SE	40.0		13.6	544 Btuh
3	2, NFRC 0.40	Metal	0.40	W	20.0		13.6	272 Btuh
4	2, NFRC 0.40	Metal	0.40	NW	20.0		13.6	272 Btuh
5	2, NFRC 0.40	Metal	0.40	NW	48.0		13.6	653 Btuh
6	2, NFRC 0.40	Metal	0.40	NW	20.0		13.6	272 Btuh
7	2, NFRC 0.40	Metal	0.40	NW	22.5		13.6	306 Btuh
8	2, NFRC 0.40	Metal	0.40	NW	96.0		13.6	1306 Btuh
9	2, NFRC 0.40	Metal	0.40	NW	40.0		13.6	544 Btuh
10	2, NFRC 0.40	Metal	0.40	SW	48.0		13.6	653 Btuh
11	2, NFRC 0.40	Metal	0.40	N	20.0		13.6	272 Btuh
12	2, NFRC 0.40	Metal	0.40	SW	4.0		13.6	54 Btuh
	Window Total				450.5(sqft)			6127 Btuh
Walls	Type	Omt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	421		5.00	2106 Btuh
2	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	68		5.00	340 Btuh
3	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	476		5.00	2380 Btuh
4	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	73		5.00	367 Btuh
5	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	169		5.00	843 Btuh
6	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	254		5.00	1271 Btuh
7	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	19		5.00	93 Btuh
8	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	589		5.00	2946 Btuh
9	Frame - Wood - Adj		(0.089)	13.0/0.0	119		3.02	358 Btuh
10	Conc Blk,Hollow - Ext		(0.147)	4.2/0.0	73		5.00	367 Btuh
	Wall Total				2261(sqft)			11071 Btuh
Doors	Type	Storm	Ueff.	R-Value	Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.350)		48		11.9	571 Btuh
2	Insulated - Exterior, n		(0.350)		24		11.9	286 Btuh
3	Insulated - Garage, n		(0.350)		21		11.9	254 Btuh
4	Insulated - Exterior, n		(0.350)		24		11.9	286 Btuh
5	Insulated - Exterior, n		(0.350)		24		11.9	286 Btuh
	Door Total				141(sqft)			1682Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value	Area	X	HTM=	Load	
1	Vented Attic/L/Metal	(0.032)	30.0/0.0	2873		1.1	3111 Btuh	
	Ceiling Total			2873(sqft)			3111Btuh	
Floors	Type	Ueff.	R-Value	Size	X	HTM=	Load	
1	Slab On Grade	(1.180)	0.0	287.0 ft(perim.)		40.1	11514 Btuh	
	Floor Total			2873 sqft			11514 Btuh	
Room Envelope Subtotal:								33505 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN
Building Type: User

6/5/2018

Infiltration	Type Natural(Adjusted for ventilation)	Wholehouse ACH 0.47	Room Volume 28730	Wall Ratio 1.00	CFM= 218.2	8130 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)			(DLM of 0.078)		3233 Btuh
Room #1	Sensible Room Subtotal					44868 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	44868 Btuh 2236 Btuh 47104 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	60000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (Manual J Heat Transfer Multiplier)



Version 8

Manual J Summer Calculations

Residential Load - Component Details (continued)

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN

Climate: FL_ORLANDO_INTL_ARPT

6/5/2018

Infiltration	Type Natural(Adjusted for ventilation)	Wholehouse ACH 0.35	Volume(cuft) 28730	Wall Ratio 1.00	CFM= 158.8	Load 3132 Btuh
Internal gain		Occupants 4	Btuh/occupant X 230	+	Appliance 1200	Load 2120 Btuh
Sensible Envelope Load:						23817 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.171)	4078 Btuh
Sensible Zone Load						27895 Btuh

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1		Excursion Subtotal:	3841 Btuh 3841 Btuh
Duct load				658 Btuh
Sensible Excursion Load				4498 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

Project Title:
CHRISTENSEN

Climate: FL_ORLANDO_INTL_ARPT

6/5/2018

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	27657 Btuh
	Sensible Duct Load	4736 Btuh
	Total Sensible Zone Loads	32393 Btuh
	Sensible ventilation	1184 Btuh
	Blower	0 Btuh
	Total sensible gain	33576 Btuh
	Latent infiltration gain (for 44 gr. humidity difference)	4732 Btuh
	Latent ventilation gain	1789 Btuh
	Latent duct gain	1111 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	3400 Btuh
	Latent total gain	11832 Btuh
	TOTAL GAIN	45408 Btuh

EQUIPMENT

1. Central Unit	#	60000 Btuh
-----------------	---	------------

*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Omt - compass orientation)



Version 8

Residential Window Diversity

MidSummer

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

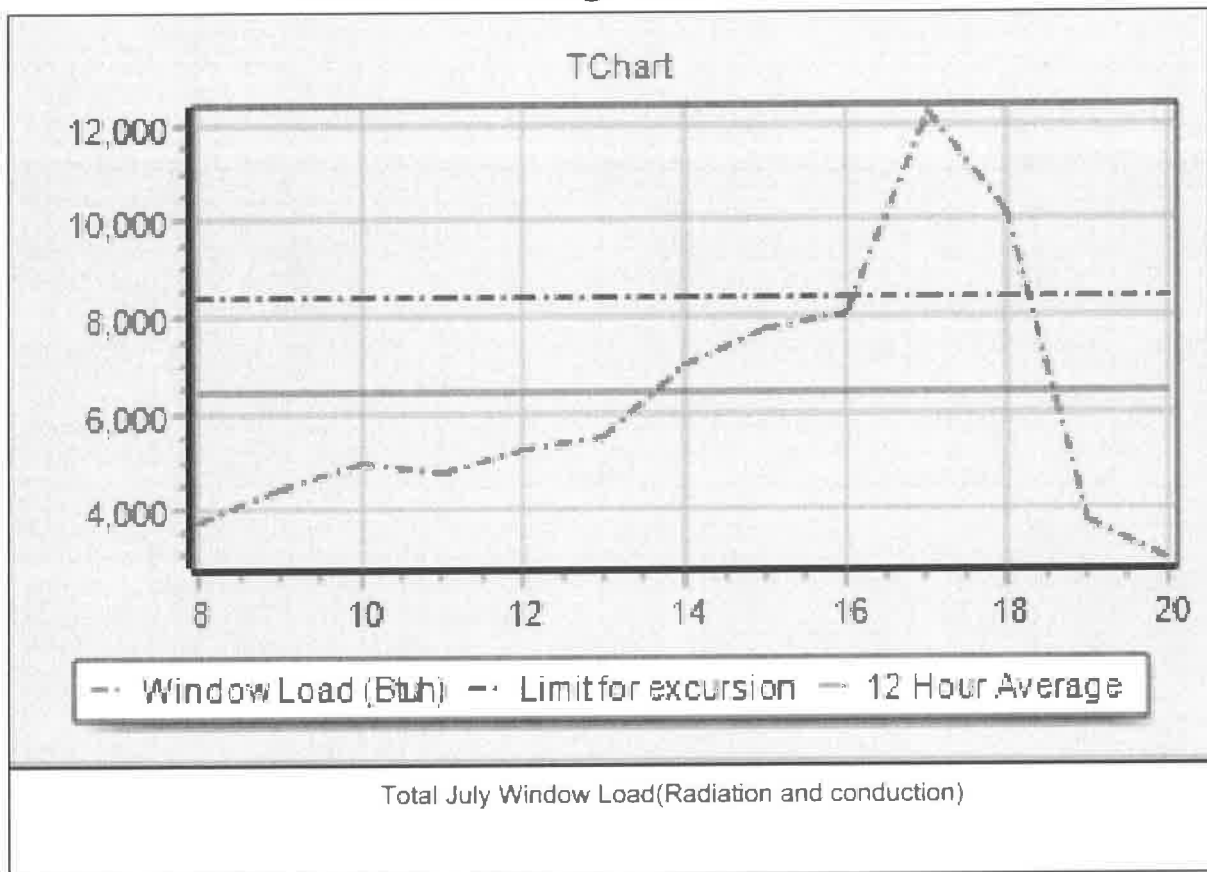
Project Title:
CHRISTENSEN

6/5/2018

Weather data for: Orlando - Defaults

Summer design temperature	93 F	Average window load for July	6473 Btuh
Cooling setpoint	75 F	Peak window load for July	12256 Btu
Summer temperature difference	18 F	Excursion limit(130% of Ave.)	8415 Btuh
Latitude	28.43 North	Window excursion (July)	3841 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: GANNON BOGGS III

DATE: 6-5-18



Residential Window Diversity

October

CHRISTENSEN
2203 HOFFNER AVE
BELLE ISLE, FL

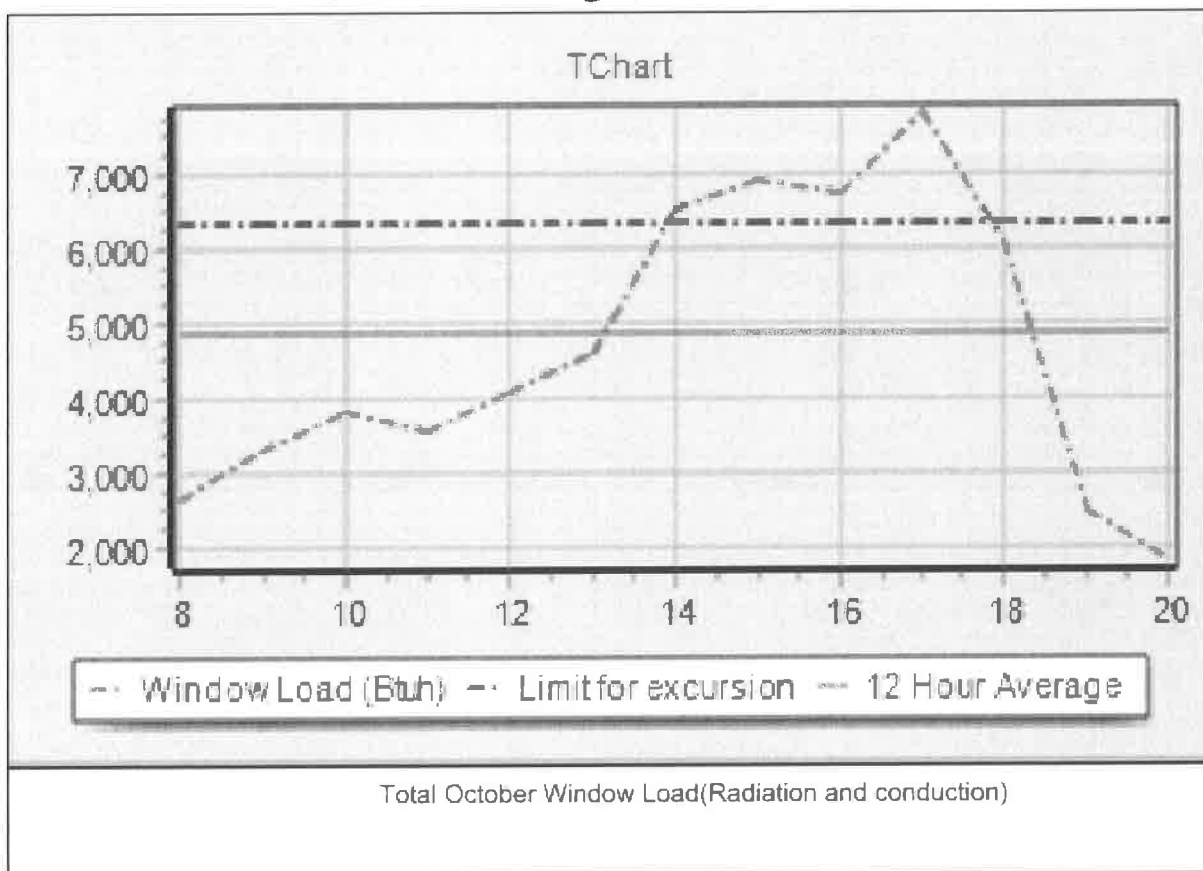
Project Title:
CHRISTENSEN

6/5/2018

Weather data for: Orlando - Defaults

Summer design temperature	93 F	Average window load for October	4889 Btuh
Cooling setpoint	75 F	Peak window load for October	7832 Btuh
Summer temperature difference	18 F	Excursion limit(130% of Ave.)	6356 Btuh
Latitude	28.43 North	Window excursion (October)	1476 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: GANNON BOGGS III

DATE: 6-5-18





JUN 27 2018

Alpine, an ITW Company
 6750 Forum Drive, Suite 305
 Orlando, FL 32837
 Phone: (800)755-6001
 alpineitw.com

Site Information:

Customer: Accu-Span Truss Company	Job Number: 20005
Job Description: CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS	
Address: BELLE ISLE	City, State, Zip: Orange County, **

Name, Address and License # of Structural EOR if one exists for the building:

Name:	License #:	State:
Address:	City, State, Zip:	

Job Engineering Criteria:

Design Code: FBC2017RES	View Version: 17.02.01.1114.21	JRef #: 1WbX4080013
Wind Standard: ASCE7_10	Wind Speed (mph): 139	Roof Load (psf): 20.00-10.00- 0.00- 10.00
		Floor Load (psf): None

This package contains a job notes page, 60 truss drawings and 4 details.

Item	Seal #	Truss
1	169.18.1140.05027	A01
3	169.18.1140.15010	A03
5	169.18.1140.24053	A05
7	169.18.1136.40238	A07
9	169.18.1136.40643	A09
11	169.18.1140.34787	A11
13	169.18.1140.55693	A13
15	169.18.1136.40861	A15
17	169.18.1136.40501	A17
19	169.18.1136.40440	A19
21	169.18.1136.40348	A21
23	169.18.1136.40456	A23
25	169.18.1136.40580	B01
27	169.18.1136.40892	B03
29	169.18.1136.40268	B05
31	169.18.1136.40471	C02
33	169.18.1136.40595	C04
35	169.18.1136.40830	C06

Item	Seal #	Truss
2	169.18.1140.12273	A02
4	169.18.1140.18620	A04
6	169.18.1140.29250	A06
8	169.18.1136.40720	A08
10	169.18.1136.40674	A10
12	169.18.1140.43540	A12
14	169.18.1141.02200	A14
16	169.18.1136.40908	A16
18	169.18.1136.40985	A18
20	169.18.1136.40176	A20
22	169.18.1136.40565	A22
24	169.18.1136.40970	A24
26	169.18.1136.40362	B02
28	169.18.1136.40190	B04
30	169.18.1136.40269	C01
32	169.18.1136.40877	C03
34	169.18.1136.40392	C05
36	169.18.1136.40706	C07



06/19/2018



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Site Information:

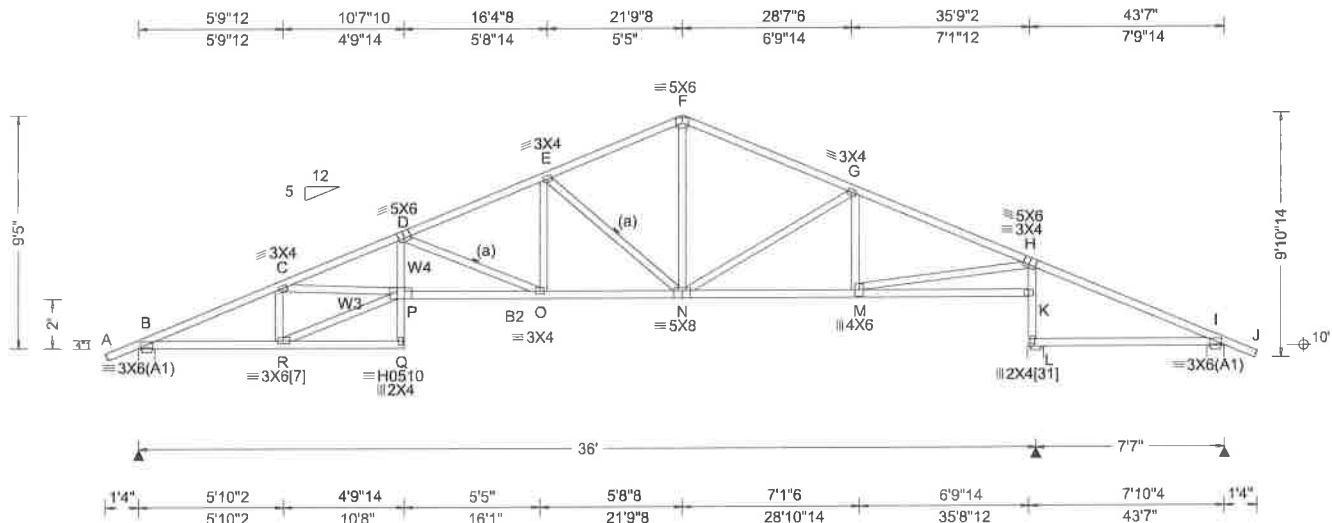
Customer: Accu-Span Truss Company	Job Number: 20005
JobDescription: CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS	
Address: BELLE ISLE	City, State, Zip: Orange County, **

Item	Seal #	Truss
37	169.18.1136.40705	C08
39	169.18.1136.40612	C10
41	169.18.1136.40924	C12
43	169.18.1136.40768	C14
45	169.18.1136.40783	C16
47	169.18.1136.40955	C18
49	169.18.1136.40939	CJ1A
51	169.18.1136.40300	CJ5
53	169.18.1136.40534	EJ5
55	169.18.1136.40409	HJ2
57	169.18.1136.40457	HJ7
59	169.18.1136.40237	J7G

Item	Seal #	Truss
38	169.18.1136.40206	C09
40	169.18.1136.40346	C11
42	169.18.1136.40347	C13
44	169.18.1136.40799	C15
46	169.18.1136.40814	C17
48	169.18.1136.40846	CJ1
50	169.18.1136.41001	CJ3
52	169.18.1136.40549	EJ2
54	169.18.1136.40535	EJ7
56	169.18.1136.40658	HJ5
58	169.18.1136.40175	J5G
60	169.18.1136.40769	J7GT



06/19/2018



Loading Criteria (psf) TCCL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.294 P 999 240 VERT(TL): 0.927 P 720 180 HORZ(LL): 0.106 M - - HORZ(TL): 0.215 M - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.718 Max Web CSI: 0.784 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W
				B 1543 / - / 906 / - / 200 / 8.0 L 1854 / - / 994 / - / - / 8.0 I 366 / 27 / 241 / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.6 L Min Brg Width Req = 1.9 I Min Brg Width Req = 1.5 Bearings B, L, & I are a rigid surface. Bearings B, L, & I require a seat plate. Members not listed have forces less than 375#

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2 2x4 SP #1 Dense:
 Webs 2x4 SP #3 :W3, W4 2x4 SP #2 Dense:

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Plate No	Plate Size	Chord Shift	Chord Bite
[7]	W3X6	2.50 L	1.25	[31]	W2X4	S	2.75

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	671 -3122	E - F	521 -1946
C - D	1054 -5089	F - G	518 -1967
D - E	681 -2988	G - H	510 -2183

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	2822 -535	O - N	2658 -422
P - O	4669 -833	N - M	1950 -310

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	263 -1160	E - N	309 -1230
C - P	1851 -301	F - N	1076 -231
R - P	2997 -567	M - H	2057 -335
P - D	1380 -231	H - K	377 -1704
D - O	453 -2153	K - L	368 -1769
O - E	860 -138		



#0-278
 06/19/2018

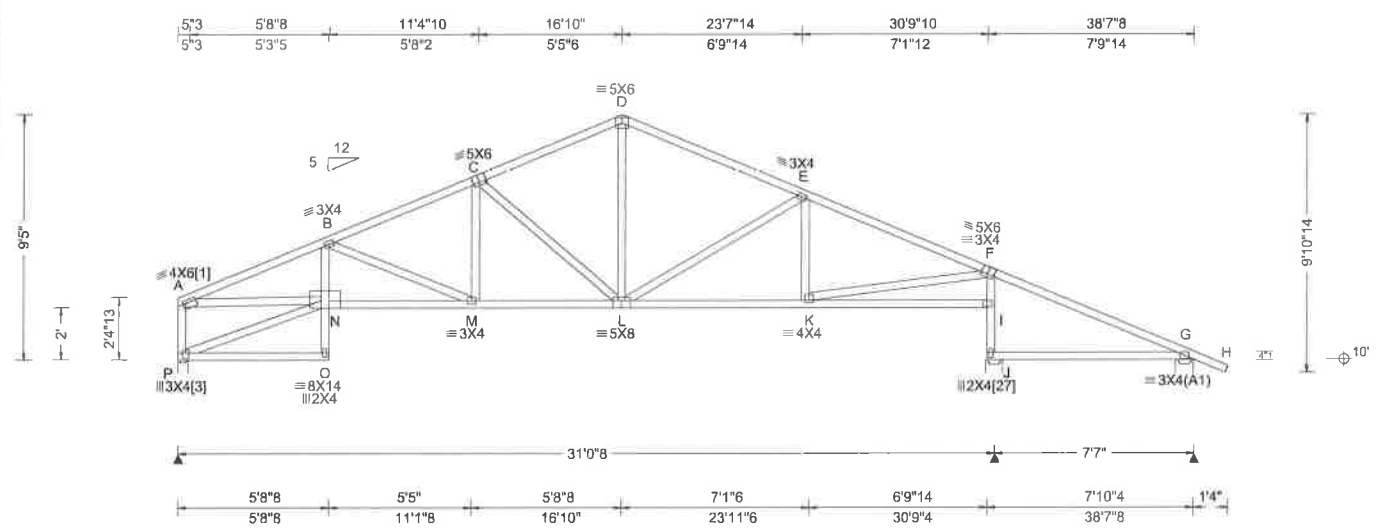
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Loading Criteria (psf) TCCL: 20.00 TC DL: 10.00 BCCL: 0.00 BC DL: 10.00 Des Ld: 40.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TC DL: 4.2 psf BC DL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.86 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Def/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.121 M 999 240 VERT(TL): 0.387 M 999 180 HORZ(LL): 0.071 I - - HORZ(TL): 0.143 I - - Creep Factor: 2.0 Max TC CSI: 0.629 Max BC CSI: 0.685 Max Web CSI: 0.968 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R /U /Rw /Rh /RL /W P 1250 /- /694 /- /207 /4.5 J 1639 /- /888 /- /- /8.0 G 376 /23 /246 /- /- /8.0 Wind reactions based on MWFRS P Min Brg Width Req = 1.5 J Min Brg Width Req = 1.7 G Min Brg Width Req = 1.5 Bearings P, J, & G are a rigid surface. Bearings P, J, & G require a seat plate.
				Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 582 -2834 D - E 427 -1567 B - C 497 -2131 E - F 437 -1864 C - D 430 -1543

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[1]	W4X6	4.54	R 1.25	[3]	W3X4	S	2.50
[27]	W2X4	S	2.50				

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Left end vertical exposed to wind pressure.
 Deflection meets L/240.

Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp. Chords Tens. Comp.
 N - M 2587 -417 L - K 1653 -241
 M - L 1866 -250

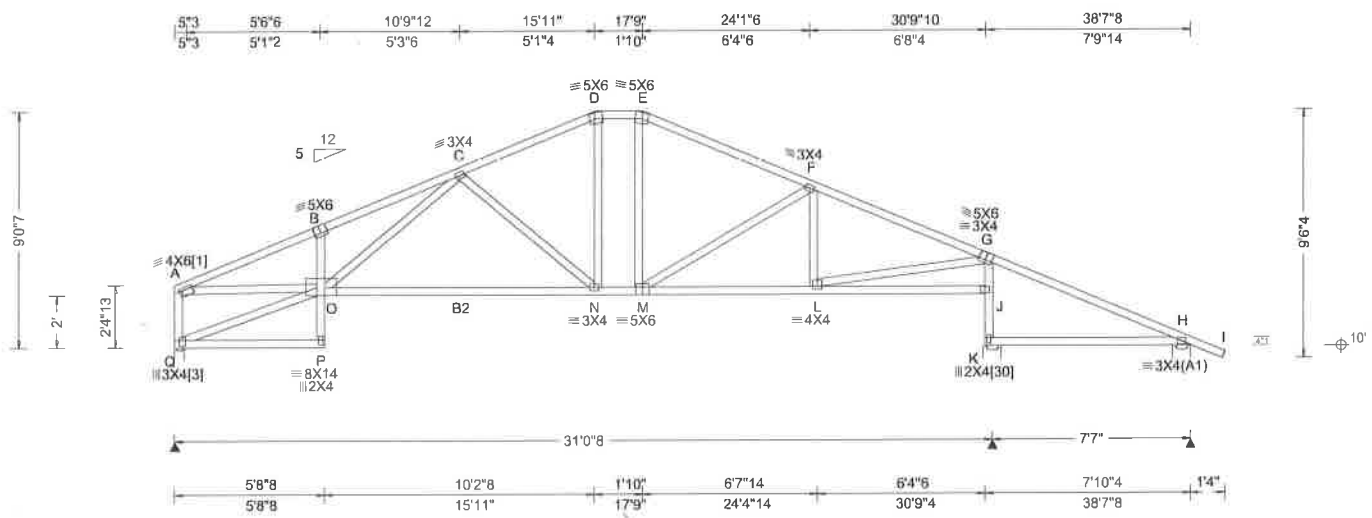
Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp. Webs Tens. Comp.
 A - P 290 -1189 D - L 764 -161
 A - N 2541 -510 K - F 1677 -249
 B - M 183 -747 F - I 329 -1490
 M - C 398 -40 I - J 320 -1551
 C - L 188 -693



#0-278
 06/19/2018

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ALPINE
 A DIVISION OF ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.86 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.132 C 999 240 VERT(TL): 0.429 N 999 180 HORZ(LL): 0.073 J - - HORZ(TL): 0.147 J - - Creep Factor: 2.0 Max TC CSI: 0.611 Max BC CSI: 0.765 Max Web CSI: 0.967 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R /U /Rw /Rh /RL /W Q 1252 /- /697 /- /200 /4.5 K 1633 /- /887 /- /- /8.0 H 378 /21 /248 /- /- /8.0 Wind reactions based on MWFRS Q Min Brg Width Req = 1.5 K Min Brg Width Req = 1.6 H Min Brg Width Req = 1.5 Bearings Q, K, & H are a rigid surface. Bearings Q, K, & H require a seat plate.
				Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 595 -2833 D - E 447 -1438 B - C 678 -2867 E - F 456 -1636 C - D 458 -1634 F - G 451 -1842 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. O - N 1940 -304 M - L 1639 -264 N - M 1438 -161 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - Q 296 -1195 D - N 562 -100 A - O 2539 -522 L - G 1650 -278 O - C 858 -169 G - J 343 -1485 C - N 214 -688 J - K 333 -1545

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2 2x4 SP #1 Dense:
 Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Plate No	Chord Shift
[1]	W4X6	4.54 R	[3]	W3X4
[30]	W2X4	S		2.50

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 end vertical exposed to wind pressure.
 Deflection meets L/240.



#0-278
 06/19/2018

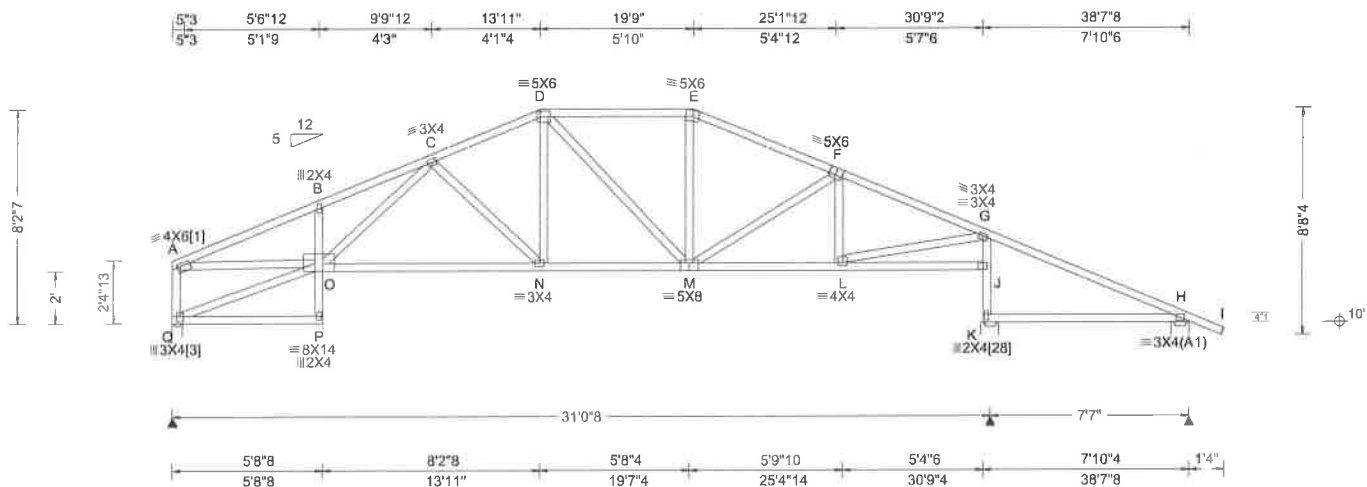
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ALPINE
 ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821



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: 139 mph
 Enclosure: Closed
 Risk Category: II
 EXP: B
 Mean Height: 15.00 ft
 TCDL: 4.2 psf
 BCDL: 5.0 psf
 MWFRS Parallel Dist: > 2h
 C&C Dist a: 3.86 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 Factors Used: Yes
 FT/RT:0(0)/0(0)
 Plate Type(s):
 WAVE

Def/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.117 C 999 240
 VERT(TL): 0.373 C 999 180
 HORZ(LL): 0.068 J - -
 HORZ(TL): 0.138 J - -
 Creep Factor: 2.0
 Max TC CSI: 0.661
 Max BC CSI: 0.841
 Max Web CSI: 0.964

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	/U	/Rw	/Rh	/RL	/W
Q	1251	-	/696	-	/184	/4.5
K	1640	-	/889	-	-	/8.0
H	373	/24	/246	-	-	/8.0

Wind reactions based on MWFRS
 Q Min Brg Width Req = 1.5
 K Min Brg Width Req = 1.7
 H Min Brg Width Req = 1.5
 Bearings Q, K, & H are a rigid surface.
 Bearings Q, K, & H require a seat plate.

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Plate No	Plate Size	Chord Shift	JT Bite
[1]	W4X6	4.54 R	1.25	[3]	W3X4	S	2.50
[28]	W2X4	S	2.50				

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 end vertical exposed to wind pressure.
 Deflection meets L/240.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	634 - 2824	D - E	495 - 1523
B - C	706 - 2848	E - F	493 - 1706
C - D	524 - 1832	F - G	465 - 1773

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	2027 - 359	M - L	1588 - 283
N - M	1649 - 236		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Q	307 - 1192	D - N	536 - 86
A - O	2530 - 550	L - G	1643 - 298
O - C	763 - 165	G - J	360 - 1502
C - N	173 - 532	J - K	353 - 1552



#0-278
 06/19/2018

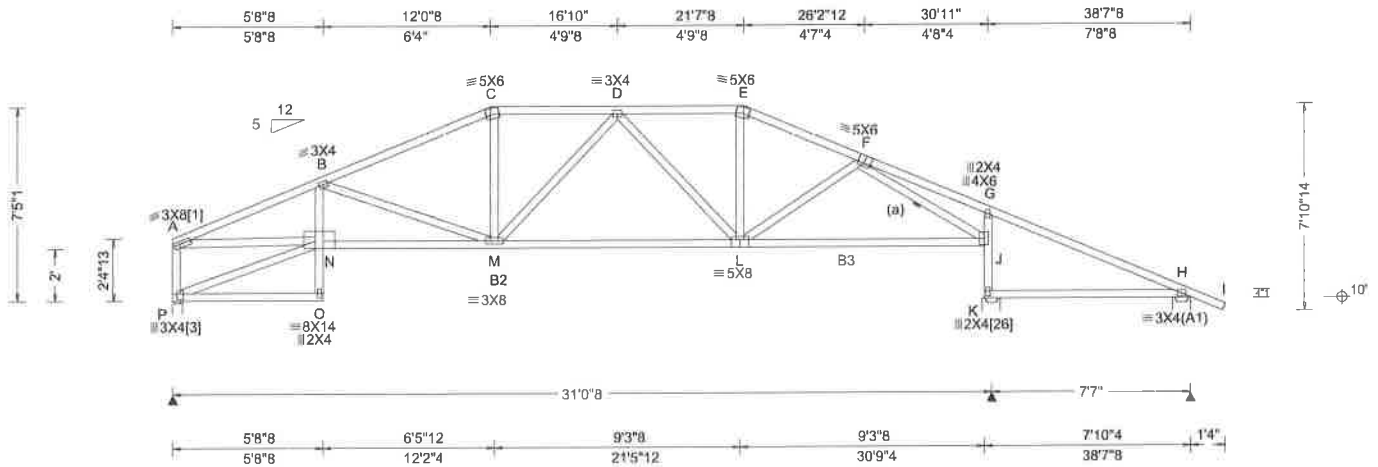
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				P 1258 / - / 696 / - / 169 / 4.5 K 1605 / 6 / 872 / - / - / 8.0 H 384 / 21 / 258 / - / - / 8.0 Wind reactions based on MWFRS P Min Brg Width Req = 1.5 K Min Brg Width Req = 1.6 H Min Brg Width Req = 1.5 Bearings P, K, & H are a rigid surface. Bearings P, K, & H require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2, B3 2x4 SP #1
 Dense:
 Webs 2x4 SP #3

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

Plate Shift Table

JT	Plate	Chord	JT	Plate	Chord			
No	Size	Shift	Bite	No	Size	Shift	Bite	
[1]	W3X8	3.17	L	1.25	[3]	W3X4	S	2.50
[26]	W2X4	S		2.50				

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 end vertical exposed to wind pressure.
 Deflection meets L/240.



#0-278
 06/19/2018

Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp. Chords Tens. Comp.

N - M	2618	-506	L - J	1554	-314
M - L	1878	-335			

Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp. Webs Tens. Comp.

A - P	314	-1196	L - E	413	-69
A - N	2574	-574	F - J	389	-1818
B - M	217	-824	J - K	356	-1519
C - M	457	-76	J - G	158	-462

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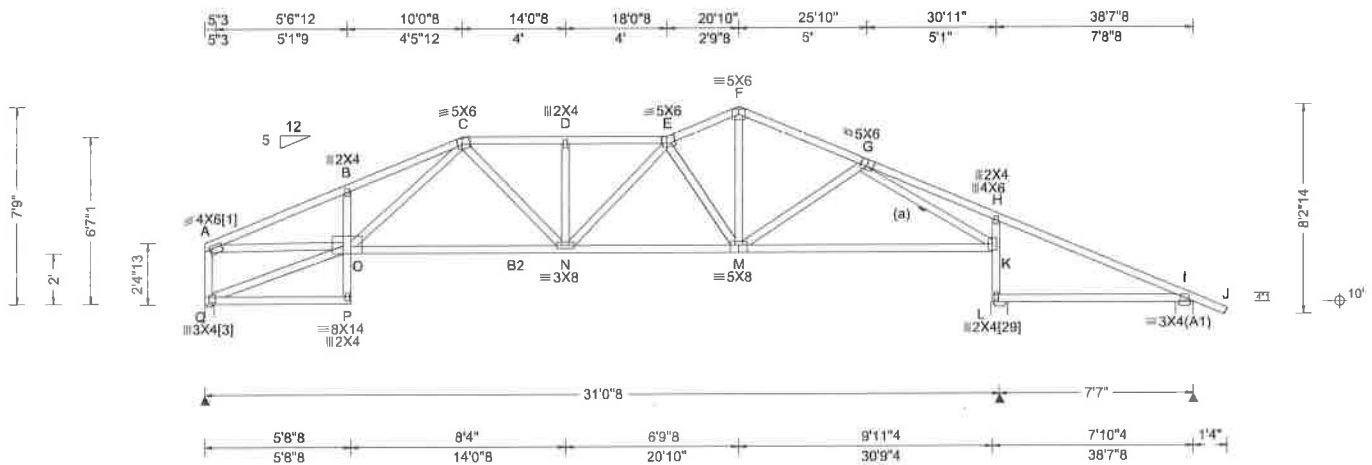
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCEA: www.sbceaindustry.com; ICC: www.iccsafe.org



Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: A06

Ply: 1
 Qty: 1
 SEQN: 888870 / T59 COMN
 FROM: AH
 Cust: R408 JRef: 1WbX4080013
 DrwNo: 169,18.1140.29250
 KM / FV 06/18/2018



Loading Criteria (psf) TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.86 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.135 D 999 240 VERT(TL): 0.434 D 999 180 HORZ(LL): 0.075 K - - HORZ(TL): 0.153 K - - Creep Factor: 2.0 Max TC CSI: 0.588 Max BC CSI: 0.943 Max Web CSI: 0.971 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th>Loc</th> <th>R</th> <th>U</th> <th>/Rw</th> <th>/Rh</th> <th>/RL</th> <th>/W</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>1257</td> <td>-</td> <td>1689</td> <td>-</td> <td>1175</td> <td>14.5</td> </tr> <tr> <td>L</td> <td>1610</td> <td>-</td> <td>1871</td> <td>-</td> <td>-</td> <td>18.0</td> </tr> <tr> <td>I</td> <td>382</td> <td>122</td> <td>1255</td> <td>-</td> <td>-</td> <td>18.0</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS Q Min Brg Width Req = 1.5 L Min Brg Width Req = 1.6 I Min Brg Width Req = 1.5 Bearings Q, L, & I are a rigid surface. Bearings Q, L, & I require a seat plate.</p> <p>Members not listed have forces less than 375#</p>	Loc	R	U	/Rw	/Rh	/RL	/W	Q	1257	-	1689	-	1175	14.5	L	1610	-	1871	-	-	18.0	I	382	122	1255	-	-	18.0
Loc	R	U	/Rw	/Rh	/RL	/W																										
Q	1257	-	1689	-	1175	14.5																										
L	1610	-	1871	-	-	18.0																										
I	382	122	1255	-	-	18.0																										

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2 2x4 SP #1 Dense:
 Webs 2x4 SP #3

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	JT No	Plate Size	Chord Shift	JT Bite
[1]	W4X6	4.54	R 1.25	[3]	W3X4	S	2.75
[29]	W2X4	S	2.75				

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 end vertical exposed to wind pressure.
 Deflection meets L/240.



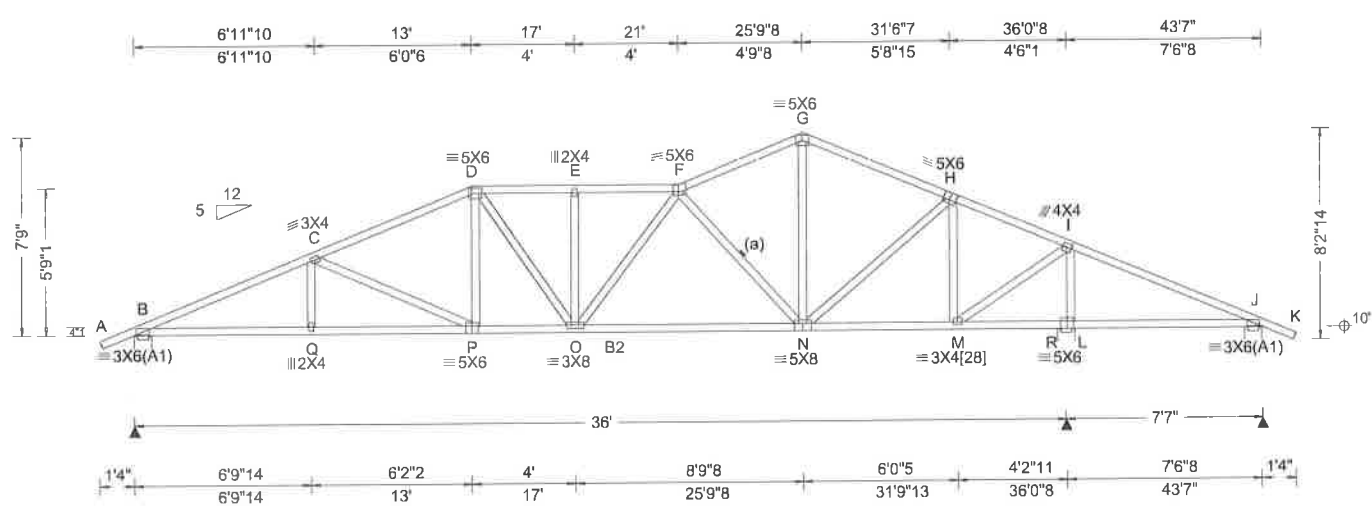
#0-278
 06/19/2018

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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; SBICA: www.sbindustry.com; ICC: www.iccsafe.org

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



Loading Criteria (psf) TCCL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.137 E 999 240 VERT(TL): 0.430 E 999 180 HORZ(LL): 0.043 M - - HORZ(TL): 0.087 M - - Creep Factor: 2.0 Max TC CSI: 0.816 Max BC CSI: 0.673 Max Web CSI: 0.695 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W
				B 1487 / - / 861 / - / 167 / 8.0 R 2251 / - / 1177 / - / - / 8.0 J 207 / 236 / 100 / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 R Min Brg Width Req = 2.3 J Min Brg Width Req = 1.5 Bearings B, R, & J are a rigid surface. Bearings B, R, & J require a seat plate.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2 2x4 SP #1 Dense:
 Webs 2x4 SP #3

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Chord No	Plate Size	Chord Shift	Chord Bite
[28]	W3X4	2.25	R 1.25				

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
 Negative reaction(s) of -236# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.



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Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	776 - 2941	F - G	484 - 1359
C - D	680 - 2306	G - H	478 - 1375
D - E	690 - 2183	H - I	267 - 753
E - F	690 - 2183	I - J	1030 - 242

Maximum Bot Chord Forces Per Ply (lbs)

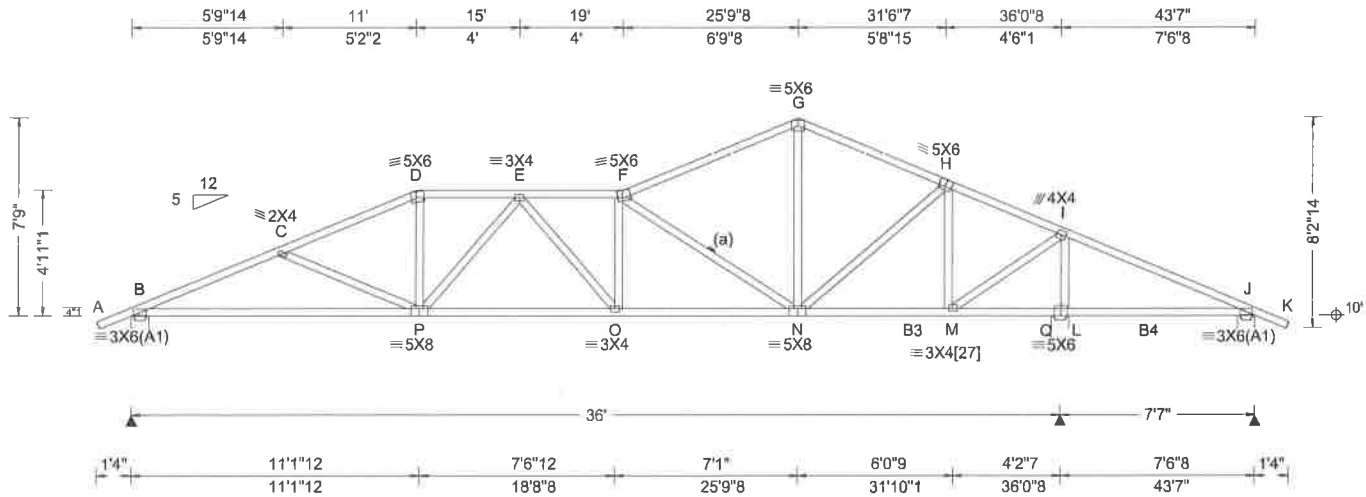
Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	2648 - 654	N - M	677 - 121
Q - P	2644 - 655	M - L	288 - 858
P - O	2057 - 480	L - J	304 - 914
O - N	2044 - 502		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	194 - 651	N - H	711 - 165
D - P	377 - 73	H - M	290 - 1020
F - N	448 - 1264	M - I	1824 - 449
G - N	653 - 200	I - L	575 - 2060

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





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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.152 O 999 240 VERT(TL): 0.477 O 999 180 HORZ(LL): 0.043 M - - HORZ(TL): 0.087 M - - Creep Factor: 2.0 Max TC CSI: 0.851 Max BC CSI: 0.808 Max Web CSI: 0.714	▲ Maximum Reactions (lbs) Loc R / U / R/w / Rh / RL / W
				B 1478 / - / 853 / - / 167 / 8.0 Q 2305 / - / 1192 / - / - / 8.0 J 188 / 280 / 98 / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 Q Min Brg Width Req = 2.3 J Min Brg Width Req = 1.5 Bearings B, Q, & J are a rigid surface. Bearings B, Q, & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #1 Dense :B3, B4 2x4 SP #2
 Dense:
 Webs 2x4 SP #3

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT No	Plate Size	Chord Shift
[27]	W3X4	2.50 R			1.25

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



#0-278
 06/19/2018

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	815 -2904	F - G	461 -1358
C - D	703 -2486	G - H	456 -1342
D - E	690 -2255	H - I	233 -692
E - F	773 -2526	I - J	1139 -286

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	191 -433	N - H	753 -182
D - P	639 -139	H - M	298 -1041
F - N	517 -1618	M - I	1873 -460
G - N	595 -149	I - L	588 -2114

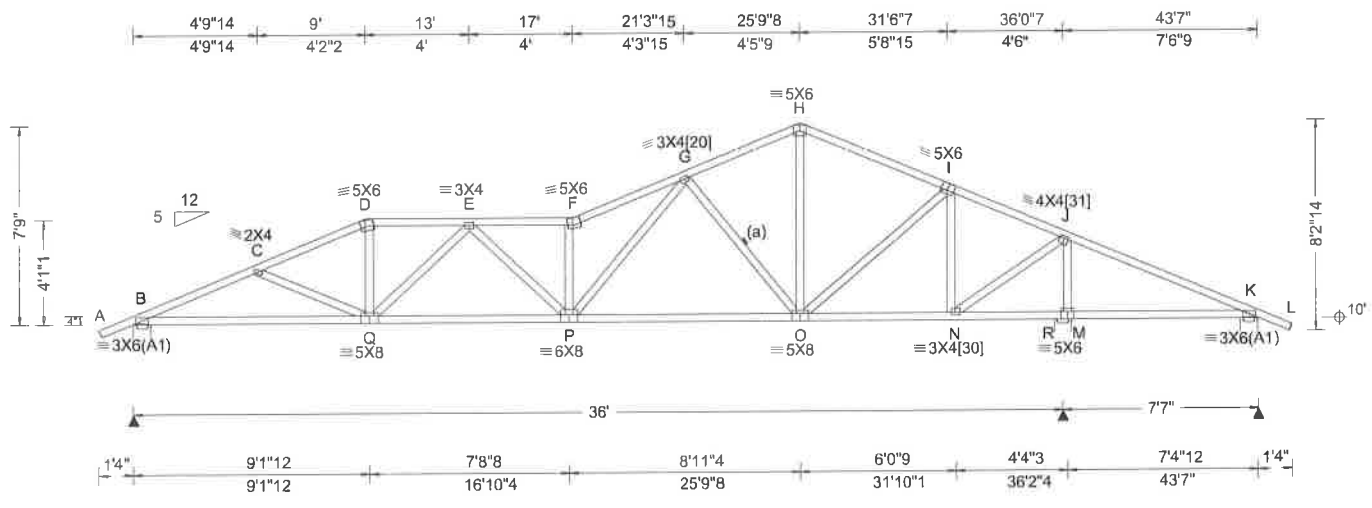
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ALPINE
 ANIT COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821



Loading Criteria (psf) TCCL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 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 Factors Used: Yes FT/RT: 0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.209 F 999 240 VERT(TL): 0.656 F 999 180 HORZ(LL): 0.048 D - - HORZ(TL): 0.097 D - - Creep Factor: 2.0 Max TC CSI: 0.919 Max BC CSI: 0.906 Max Web CSI: 0.774 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R /U /Rw /Rh /RL /W
				B 1452 /- /833 /- /167 /8.0 R 2461 /- /1274 /- /- /8.0 K 119 /411 /90 /- /- /8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 R Min Brg Width Req = 2.5 K Min Brg Width Req = 1.5 Bearings B, R, & K are a rigid surface. Bearings B, R, & K require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT No	Plate Size	Chord Shift
[20]	W3X4	3.00 L 1.25	[30]	W3X4	2.50 R 1.25
[31]	W4X4	2.25 R 1.25			

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
 Negative reaction(s) of -411# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.



#0-278
 06/19/2018

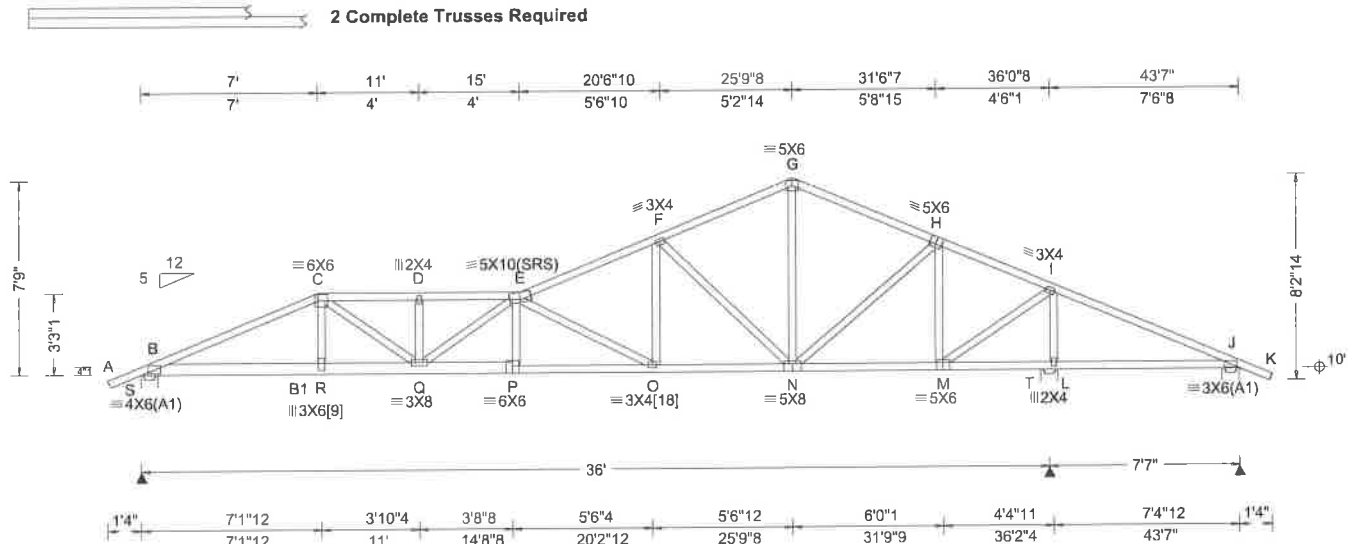
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				Loc	R	U	/Rw	/Rh	/RL	/W																											
S	3466	1225	-	-	-	8.0																															
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Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>230</td> <td>-4061</td> <td>F - G</td> <td>78</td> <td>-1153</td> </tr> <tr> <td>C - D</td> <td>242</td> <td>-4115</td> <td>G - H</td> <td>78</td> <td>-1154</td> </tr> <tr> <td>D - E</td> <td>242</td> <td>-4115</td> <td>H - I</td> <td>28</td> <td>-771</td> </tr> <tr> <td>E - F</td> <td>150</td> <td>-2201</td> <td>I - J</td> <td>484</td> <td>-109</td> </tr> </tbody> </table>				Chords	Tens.	Comp.	Chords	Tens.	Comp.	B - C	230	-4061	F - G	78	-1153	C - D	242	-4115	G - H	78	-1154	D - E	242	-4115	H - I	28	-771	E - F	150	-2201	I - J	484	-109				
Chords	Tens.	Comp.	Chords	Tens.	Comp.																																
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C - D	242	-4115	G - H	78	-1154																																
D - E	242	-4115	H - I	28	-771																																
E - F	150	-2201	I - J	484	-109																																

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B1 2x6 SP SS:
 Webs 2x4 SP #3

Wind
 Wind loads and reactions based on MWFRS.

Nailnote
 Nail Schedule: 0.128"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	62 plf at	-1.33 to	62 plf at	44.92
BC: From	4 plf at	-1.33 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	7.94
BC: From	20 plf at	7.94 to	20 plf at	43.58
BC: From	4 plf at	43.58 to	4 plf at	44.92
TC:	186 lb Conc. Load at	7.06		
BC:	471 lb Conc. Load at	7.03		
BC:	1800 lb Conc. Load at	7.94		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	3713	-202	O - N	1955	-128
R - Q	3766	-201	N - M	714	-21
Q - P	3961	-249	M - L	83	-377
P - O	3959	-252	L - J	88	-403

Plate Shift Table

JT	Plate	Chord	JT	Plate	Chord		
No	Size	Shift	Bite	No	Size	Shift	Bite
[9]	W3X6	S	3.50	[18]	W3X4	1.75	R 1.25

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - R	1042	0	G - N	690	0
C - Q	430	-51	N - H	508	-55
Q - E	398	0	H - M	100	-640
E - O	140	-2242	M - I	1132	-124
O - F	1134	-39	I - L	176	-1280
F - N	92	-1292			

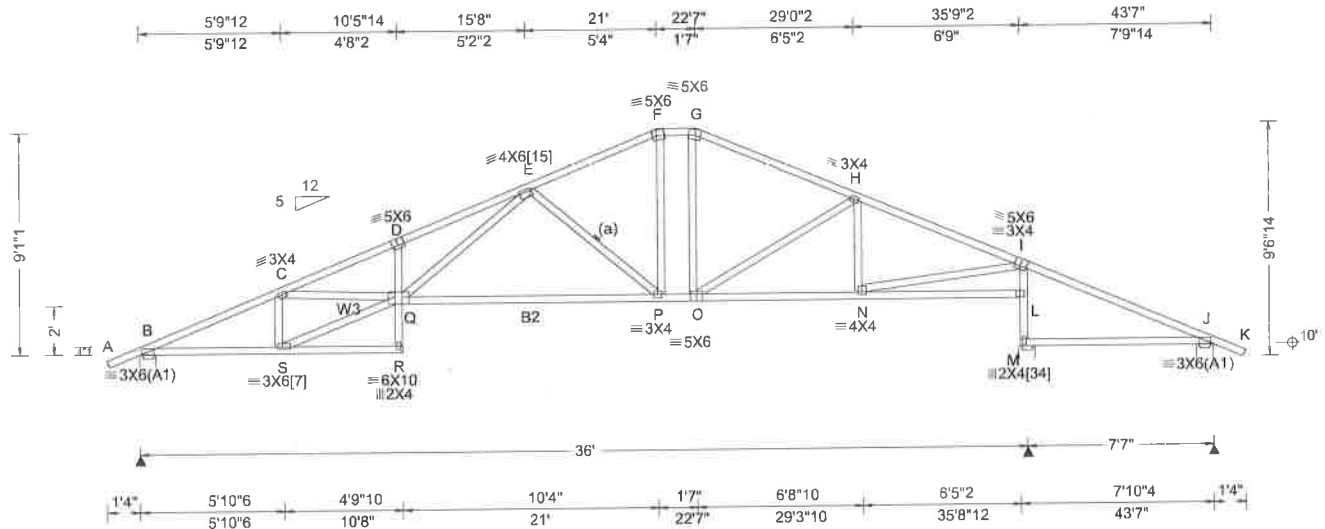


Purlins
 In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#0-278
 06/19/2018

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Loading Criteria (psf) TCLL: 20.00 TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.340 Q 999 240 VERT(TL): 1.073 Q 622 180 HORZ(LL): 0.109 N - - HORZ(TL): 0.221 N - - Creep Factor: 2.0 Max TC CSI: 0.838 Max BC CSI: 0.945 Max Web CSI: 0.965 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W B 1543 / - / 907 / - / 193 / 8.0 M 1851 / - / 993 / - / - / 8.0 J 367 / 25 / 243 / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.6 M Min Brg Width Req = 1.9 J Min Brg Width Req = 1.5 Bearings B, M, & J are a rigid surface. Bearings B, M, & J require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				B - C 688 -3127 F - G 534 -1818 C - D 1092 -5118 G - H 548 -2043 D - E 1154 -5157 H - I 521 -2146 E - F 551 -2055

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2 2x4 SP #1 Dense:
 Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	JT No	Plate Size	Chord Shift	JT Bite
[7]	W3X6	2.25 L	1.25	[15]	W4X6	5.50 L	1.25
[34]	W2X4	S	2.75				

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

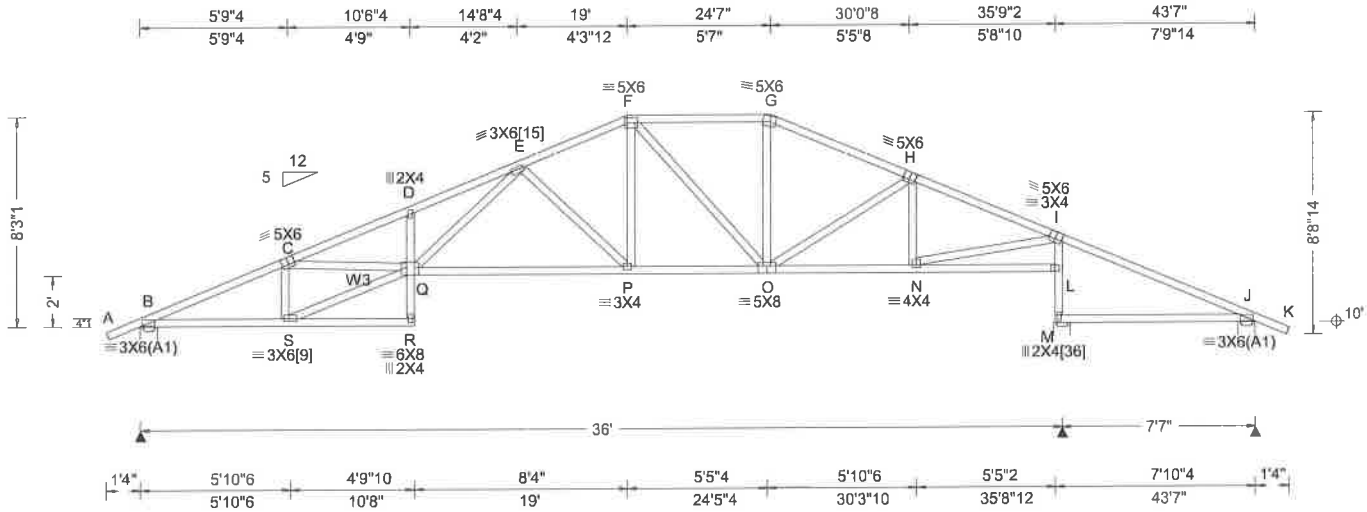
Wind
 Wind loads based on MWFRS with additional C&C member design.



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Loading Criteria (psf) TCLL: 20.00 TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.36 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.305 Q 999 240 VERT(TL): 0.962 Q 694 180 HORZ(LL): 0.107 N - - HORZ(TL): 0.217 N - - Creep Factor: 2.0 Max TC CSI: 0.802 Max BC CSI: 0.989 Max Web CSI: 0.887 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U /Rw /Rh /RL /W B 1543 /1 /906 /- /177 /8.0 M 1856 /- /994 /- /- /8.0 J 363 /28 /241 /- /- /8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.6 M Min Brg Width Req = 1.9 J Min Brg Width Req = 1.5 Bearings B, M, & J are a rigid surface. Bearings B, M, & J require a seat plate.
				Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 731 -3124 F - G 582 -1869 C - D 1178 -5105 G - H 587 -2078 D - E 1236 -5132 H - I 541 -2064 E - F 667 -2400

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Plate No	Chord Shift
[9]	W3X6	2.25 L	[15]	W3X6 5.00 L
[36]	W2X4	S		2.75

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.



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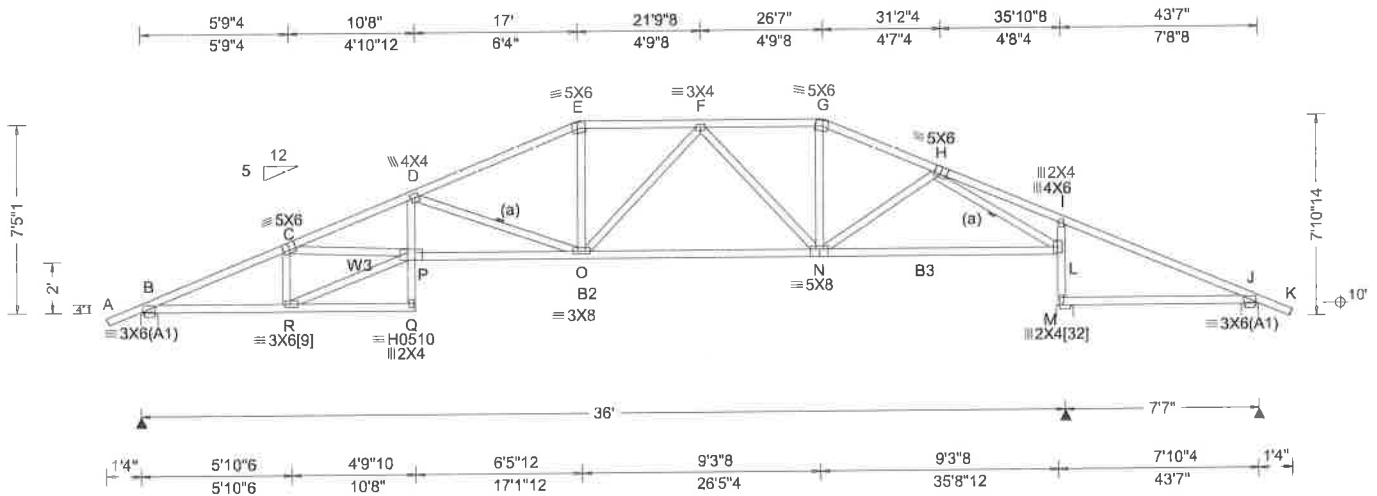
ALPINE
 AN ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821

Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: A13

Ply: 1
 Qty: 1

SEQN: 888846 / T56 COMM
 FROM: AH

Cust: R408 JRef: 1WbX4080013
 DrwNo: 169,18,1140,55693
 KM / FV 06/18/2018



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: 139 mph
 Enclosure: Closed
 Risk Category: II
 EXP: B
 Mean Height: 15.00 ft
 TCDL: 4.2 psf
 BCDL: 5.0 psf
 MWFRS Parallel Dist: h to 2h
 C&C Dist a: 4.36 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 Factors Used: Yes
 FT/RT:0(0)/0(0)
 Plate Type(s):
 WAVE, HS

Defl/CSI Criteria

PP Deflection in loc L/def L/#
 VERT(LL): 0.304 P 999 240
 VERT(TL): 0.960 P 695 180
 HORZ(LL): 0.115 L - -
 HORZ(TL): 0.233 L - -
 Creep Factor: 2.0
 Max TC CSI: 0.611
 Max BC CSI: 0.852
 Max Web CSI: 0.965

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	U	/Rw	/Rh	/RL	/W
B	1550	/3	/907	/-	/161	/8.0
M	1816	/-	/974	/-	/-	/8.0
J	376	/24	/255	/-	/-	/8.0

Wind reactions based on MWFRS
 B Min Brg Width Req = 1.6
 M Min Brg Width Req = 1.8
 J Min Brg Width Req = 1.5
 Bearings B, M, & J are a rigid surface.
 Bearings B, M, & J require a seat plate.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	752	-3136	E - F	741	-2560
C - D	1249	-5149	F - G	594	-1986
D - E	751	-2826	G - H	603	-2188

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B2, B3 2x4 SP #1
 Dense:
 Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

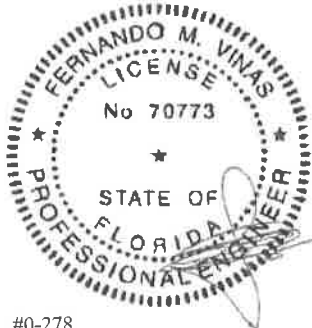
JT	Plate	Chord	JT	Plate	Chord			
No	Size	Shift	Bite	No	Size	Shift	Bite	
[9]	W3X6	2.25	L	1.25	[32]	W2X4	S	2.75

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.



#0-278
 06/19/2018

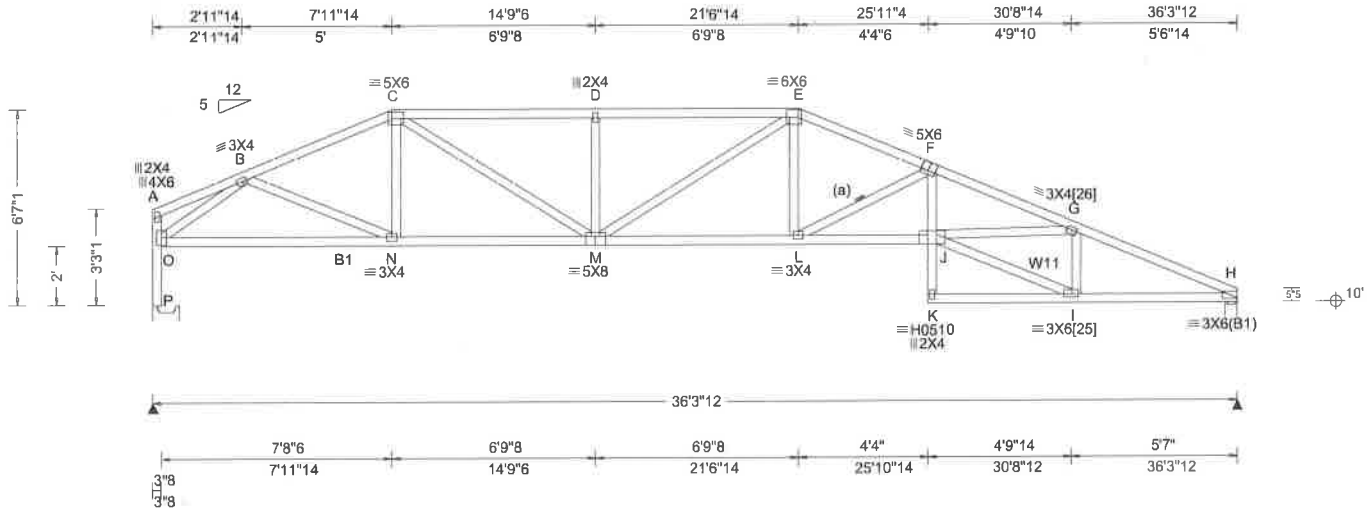
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Loading Criteria (psf)

TCLL: 20.00
 TCDL: 10.00
 BCCL: 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: 139 mph
 Enclosure: Closed
 Risk Category: II
 EXP: B
 Mean Height: 15.00 ft
 TCDL: 4.2 psf
 BCDL: 5.0 psf
 MWFRS Parallel Dist: h to 2h
 C&C Dist a: 3.63 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 Factors Used: Yes
 FT/RT:0(0)/0(0)
 Plate Type(s):
 WAVE, HS

Defl/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.298 J 999 240
 VERT(TL): 0.918 J 711 180
 HORZ(LL): 0.108 I - -
 HORZ(TL): 0.191 I - -
 Creep Factor: 2.0
 Max TC CSI: 0.685
 Max BC CSI: 0.834
 Max Web CSI: 0.963

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	U	Rw	Rh	RL	W
P	1483	21	767	-	123	10.9
H	1483	30	841	-	-	14.9

Wind reactions based on MWFRS
 P Min Brg Width Req = 10.9
 H Min Brg Width Req = 1.5
 Bearings P & H are a rigid surface.
 Bearings P & H require a seat plate.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	622 - 2401	E - F	867 - 3324
C - D	835 - 3047	F - G	1264 - 5153
D - E	835 - 3047	G - H	739 - 3071

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #1 Dense :B1 2x4 SP #2 Dense:
 Webs 2x4 SP #3 :W11 2x4 SP #2 Dense:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[25]	W3X6	2.50	R 1.25	[26]	W3X4	1.75	R 1.25

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 end vertical not exposed to wind pressure.



#0-278
 06/19/2018

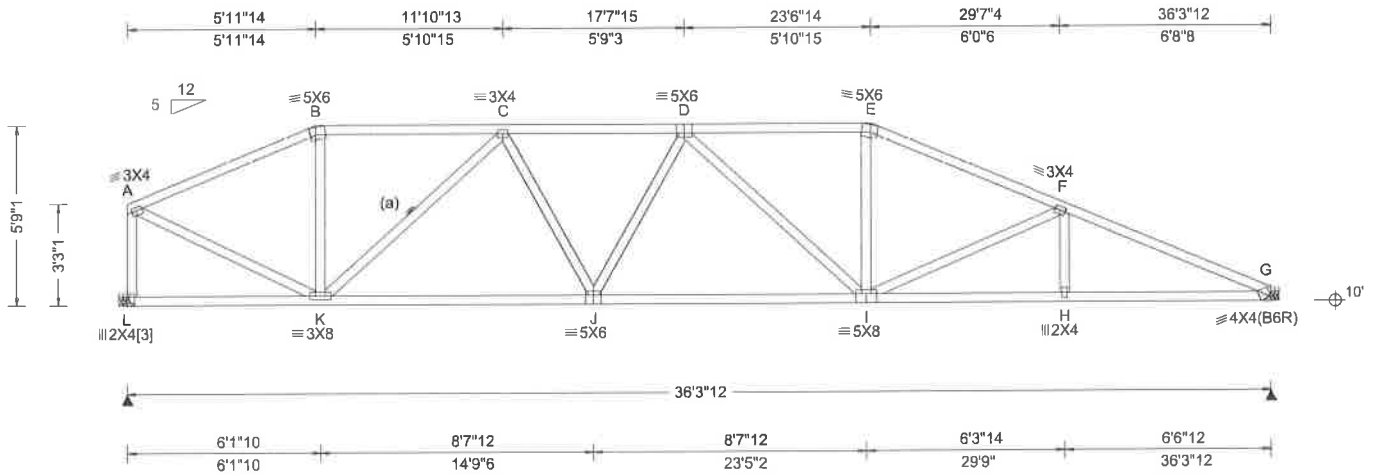
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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.63 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	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.152 D 999 240 VERT(TL): 0.470 D 999 180 HORZ(LL): 0.054 H - - HORZ(TL): 0.111 H - - Creep Factor: 2.0 Max TC CSI: 0.571 Max BC CSI: 0.946 Max Web CSI: 0.596	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W
				L 1478 / 157 / 764 / - / 140 / - G 1488 / 154 / 836 / - / - / - Wind reactions based on MWFRS L Min Brg Width Req = - G Min Brg Width Req = -
Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE				Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				A - B 457 - 1603 D - E 668 - 2283 B - C 467 - 1428 E - F 677 - 2528 C - D 677 - 2370 F - G 759 - 3071

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[3]	W2X4	S	2.75				

Hangers / Ties
 (J) Hanger Support Required, by others

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 end vertical exposed to wind pressure.
 Deflection meets L/240.

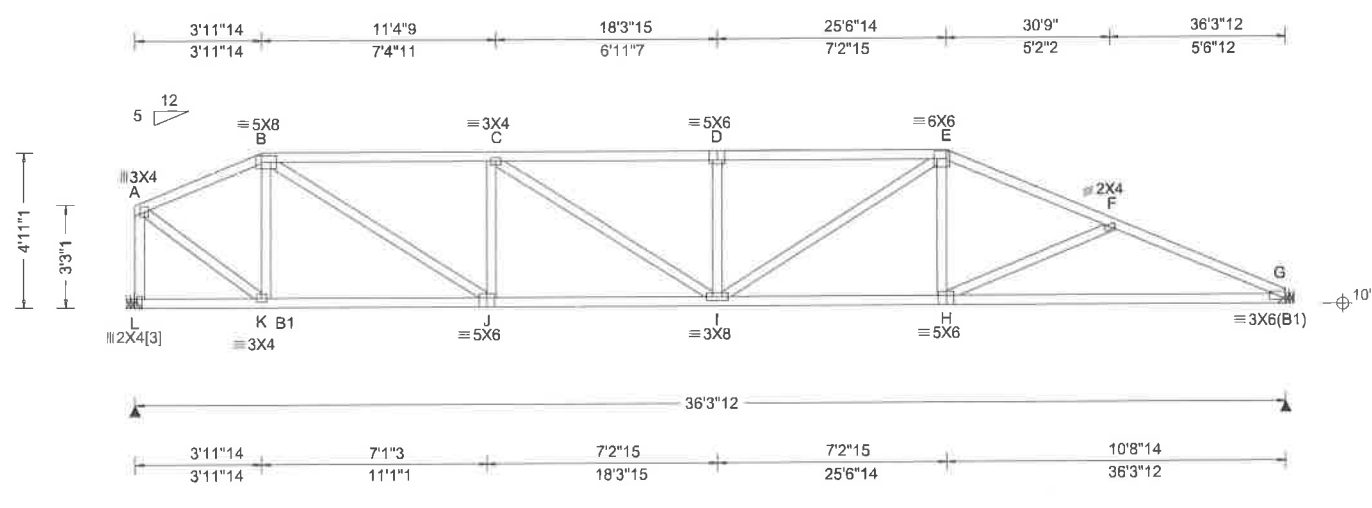


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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.63 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	PP Deflection in loc L/defl L/# VERT(LL): 0.184 D 999 240 VERT(TL): 0.569 D 999 180 HORZ(LL): 0.049 B - - HORZ(TL): 0.099 B - - Creep Factor: 2.0 Max TC CSI: 0.727 Max BC CSI: 0.766 Max Web CSI: 0.603 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W L 1478 / 159 / 755 / - / 124 / - G 1488 / 155 / 827 / - / - / - Wind reactions based on MWFRS L Min Brg Width Req = - G Min Brg Width Req = - Members not listed have forces less than 375#
Maximum Top Chord Forces Per Ply (lbs)				
Chords Tens.Comp. Chords Tens. Comp.				
A - B 390 - 1319 D - E 823 - 2955				
B - C 711 - 2517 E - F 716 - 2722				
C - D 823 - 2955 F - G 802 - 3066				

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #1 Dense :B1 2x4 SP #2 Dense:
 Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Chord Shift	JT No	Plate Size	Chord Shift	Bite
[3]	W2X4	S				2.75

Hangers / Ties
 (J) Hanger Support Required, by others

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 end vertical exposed to wind pressure.
 Deflection meets L/240.



#0-278
 06/19/2018

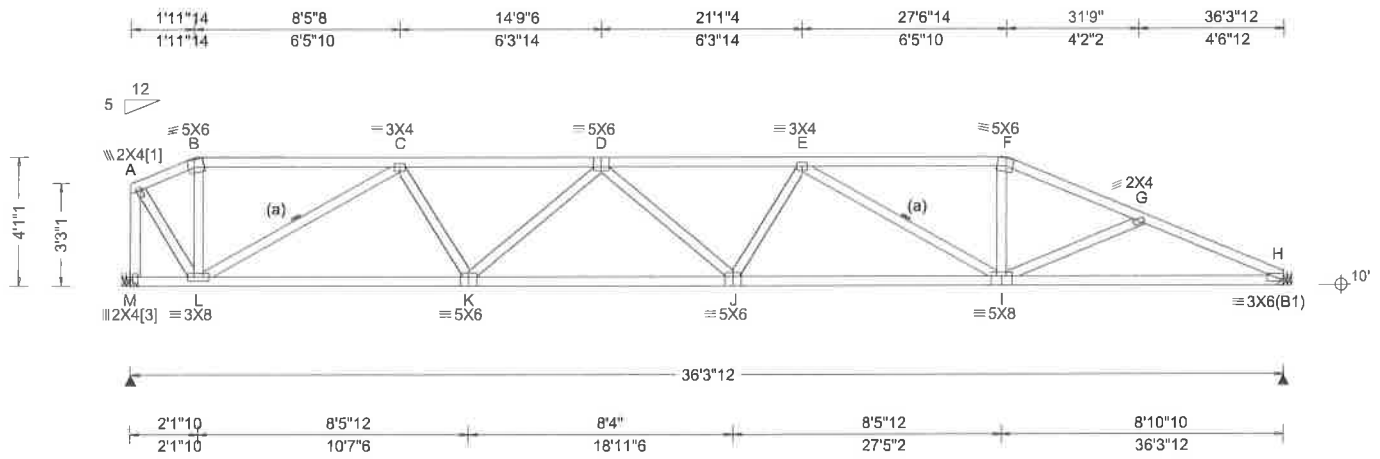
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Loading Criteria (psf)	
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0"

Wind Criteria	
Wind Std:	ASCE 7-10
Speed:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 psf
BCDL:	5.0 psf
MWFRS Parallel Dist:	h/2 to h
C&C Dist a:	3.63 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	NA
Pf: NA	Ce: NA
Lu: NA	Cs: NA
Snow Duration: NA	
Code / Misc Criteria	
Bldg Code:	FBC 2017 RES
TPI Std:	2014
Rep Factors Used:	Yes
FT/RT:	0(0)0(0)
Plate Type(s):	WAVE

Defl/CSI Criteria	
PP Deflection in loc L/defl L/#	
VERT(LL):	0.245 J 999 240
VERT(TL):	0.756 J 867 180
HORZ(LL):	0.074 I - -
HORZ(TL):	0.151 I - -
Creep Factor:	2.0
Max TC CSI:	0.728
Max BC CSI:	0.973
Max Web CSI:	0.646
VIEW Ver:	17.02.01A.1114.21

▲ Maximum Reactions (lbs)					
Loc	R	/U	/Rw	/Rh	/RL /W
M	1478	/160	/744	-	/109 -
H	1488	/156	/815	-	-
Wind reactions based on MWFRS					
M	Min Brg Width Req = -				
H	Min Brg Width Req = -				

Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	273	-904	E - F	728	-2643
B - C	274	-838	F - G	752	-2868
C - D	778	-2928	G - H	813	-3091
D - E	932	-3521			

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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

Plate Shift Table							
JT No	Plate Size	Shift	Chord	JT Bite	No	Plate Size	Chord
[1]	W2X4	0.50	R	1.25	[3]	W2X4	S
							2.75

Hangers / Ties
 (J) Hanger Support Required, by others

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

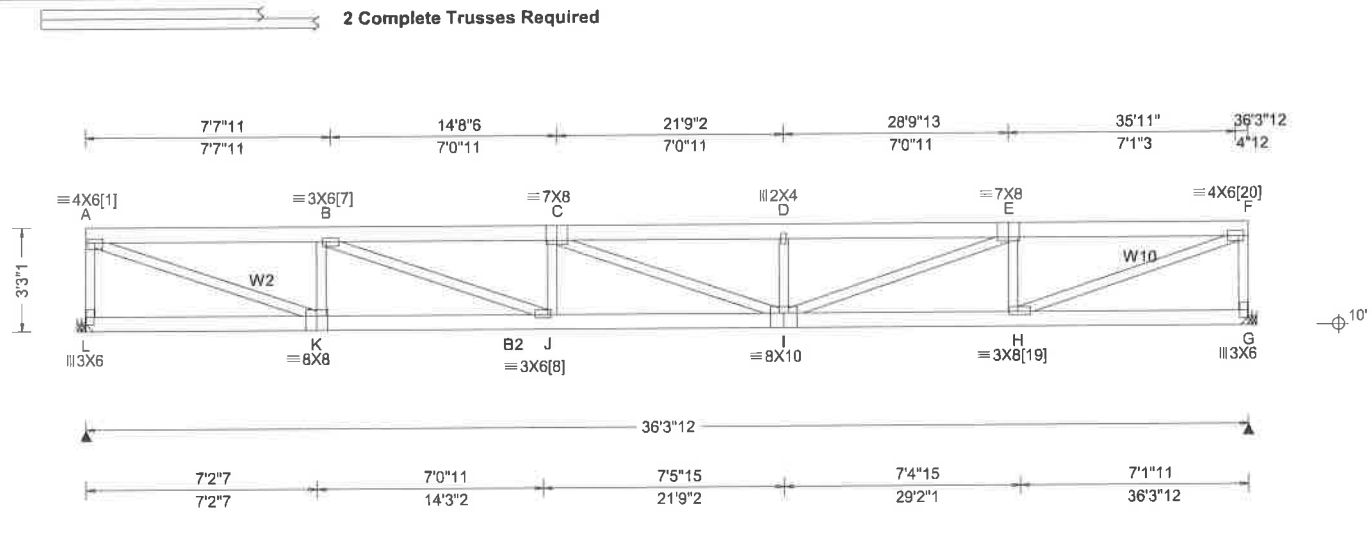
Wind
 Wind loads based on MWFRS with additional C&C member design.
 Left end vertical exposed to wind pressure.
 Deflection meets L/240.



#0-278
 06/19/2018

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Loading Criteria (psf) TCCL: 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 Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.63 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 Factors Used: No FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.397 D 999 240 VERT(TL): 1.190 D 549 180 HORZ(LL): 0.067 A - - HORZ(TL): 0.135 A - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.892 Max Web CSI: 0.898 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R /U /Rw /Rh /RL /W L 3028 /365 /- /- /- /- G 3691 /455 /- /- /- /- Wind reactions based on MWFRS L Min Brg Width Req = - G Min Brg Width Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 448 -3618 D - E 722 -5795 B - C 732 -5921 E - F 487 -3892 C - D 722 -5795
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 3735 -444 I - H 4017 -486 J - I 5952 -719 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - L 199 -1501 I - E 1913 -229 A - K 3872 -467 E - H 220 -1204 K - B 184 -1126 H - F 4157 -507 B - J 2358 -286 F - G 240 -1718 D - I 116 -429

Lumber
 Top chord 2x6 SP #2
 Bot chord 2x6 SP #2 :B2 2x6 SP SS:
 Webs 2x4 SP #3 :W2, W10 2x4 SP #2 Dense:

Purlins
 The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp. Chords Tens. Comp.
 K - J 3735 -444 I - H 4017 -486
 J - I 5952 -719

Nailnote
 Nail Schedule:0.128"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.

Wind
 Wind loads and reactions based on MWFRS.
 End verticals exposed to wind pressure. Deflection meets L/240.

Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp. Webs Tens. Comp.
 A - L 199 -1501 I - E 1913 -229
 A - K 3872 -467 E - H 220 -1204
 K - B 184 -1126 H - F 4157 -507
 B - J 2358 -286 F - G 240 -1718
 D - I 116 -429

Special Loads
 --- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 60 plf at 0.00 to 60 plf at 11.64
 TC: From 30 plf at 11.64 to 30 plf at 36.31
 BC: From 20 plf at 0.00 to 20 plf at 11.64
 BC: From 10 plf at 11.64 to 10 plf at 36.31
 TC: 186 lb Conc. Load at 13.64,15.64,17.64,19.64,21.64,23.64,25.64,27.64,29.64,31.64,33.64,35.64
 BC: 1026 lb Conc. Load at 11.64
 BC: 128 lb Conc. Load at 13.64,15.64,17.64,19.64,21.64,23.64,25.64,27.64,29.64,31.64,33.64,35.64

Deflection
 Max JT VERT DEFL: LL: 0.40" DL: 0.79". See detail DEFLCAMB1014 for camber recommendations.
 Provide for adequate drainage of roof.

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[1]	W4X6	2.75 L	1.50	[7]	W3X6	4.75 R	1.25
[8]	W3X6	1.25 R	1.25	[19]	W3X8	3.25 L	1.25
[20]	W4X6	1.75 R	2.00				



Hangers / Ties
 (J) Hanger Support Required, by others

#0-278
 06/19/2018

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6750 Forum Drive
 Suite 305
 Orlando FL, 32821

Job Number: 20005
CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
Truss Label: A18

Ply: 2
Qty: 1

SEQN: 886739 / T37 / FLAT
FROM: AH
Page 2 of 2

Cust: RR408 JRef: 1WbX4080013
DrwNo: 169.18.1136.40985
KM / DF 06/18/2018

Additional Notes

Truss must be installed as shown with top chord up.



#0-278

06/19/2018

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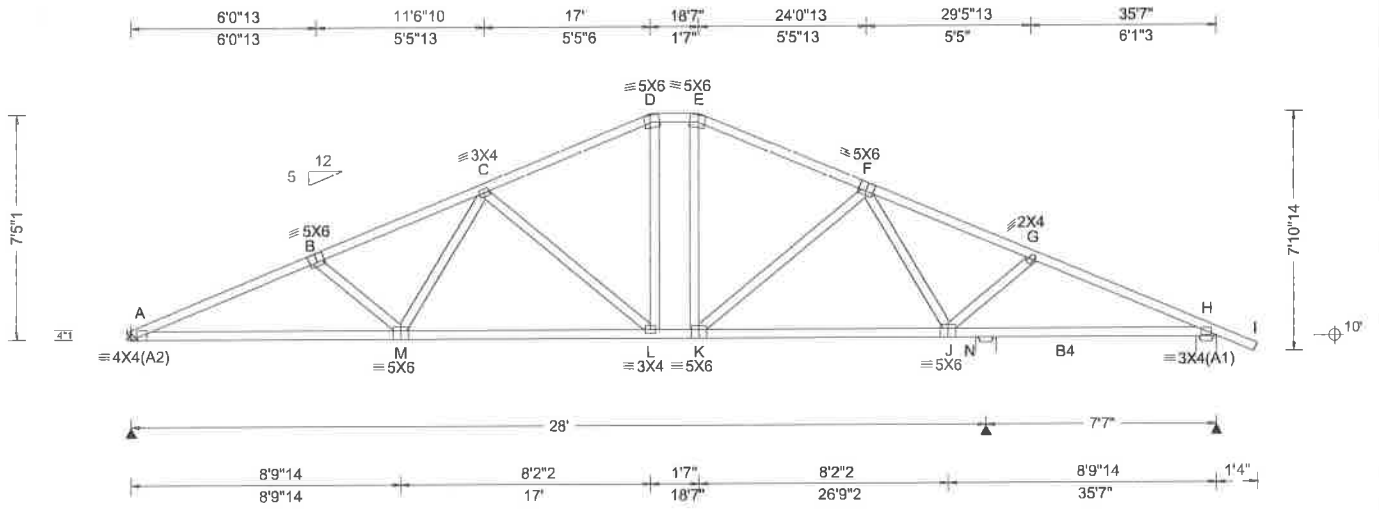
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Loading Criteria (psf)

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: 139 mph
 Enclosure: Closed
 Risk Category: II
 EXP: B
 Mean Height: 15.00 ft
 TCCL: 4.2 psf
 BCDL: 5.0 psf
 MWFRS Parallel Dist: h to 2h
 C&C Dist a: 3.56 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 Factors Used: Yes
 FT/RT:0(0)/0(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria

PP Deflection in loc L/defl L/#

VERT(LL):	0.131	L	999	240
VERT(TL):	0.410	C	999	180
HORZ(LL):	0.047	J	-	-
HORZ(TL):	0.096	J	-	-

Creep Factor: 2.0
 Max TC CSI: 0.441
 Max BC CSI: 0.957
 Max Web CSI: 0.777

VIEW Ver: 17.02.01A.1114.21

Maximum Reactions (lbs)

Loc	R	/U	/Rw	/Rh	/RL	/W
A	1312	-	/730	-	/144	-
N	658	-	/382	-	-	/8.0
H	1021	/5	/563	-	-	/8.0

Wind reactions based on MWFRS
 A Min Brg Width Req = -
 N Min Brg Width Req = 1.5
 H Min Brg Width Req = 1.5
 Bearings N & H are a rigid surface.
 Bearings N & H require a seat plate.

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense :B4 2x4 SP #1 Dense:
 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.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	659 - 2755	E - F	478 - 1658
B - C	613 - 2479	F - G	438 - 1644
C - D	479 - 1662	G - H	472 - 1906
D - E	465 - 1467		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - M	2488 - 531	K - J	1596 - 310
M - L	1999 - 376	J - H	3387 - 711
L - K	1467 - 229		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - C	520 - 86	D - L	446 - 108
C - L	218 - 735		



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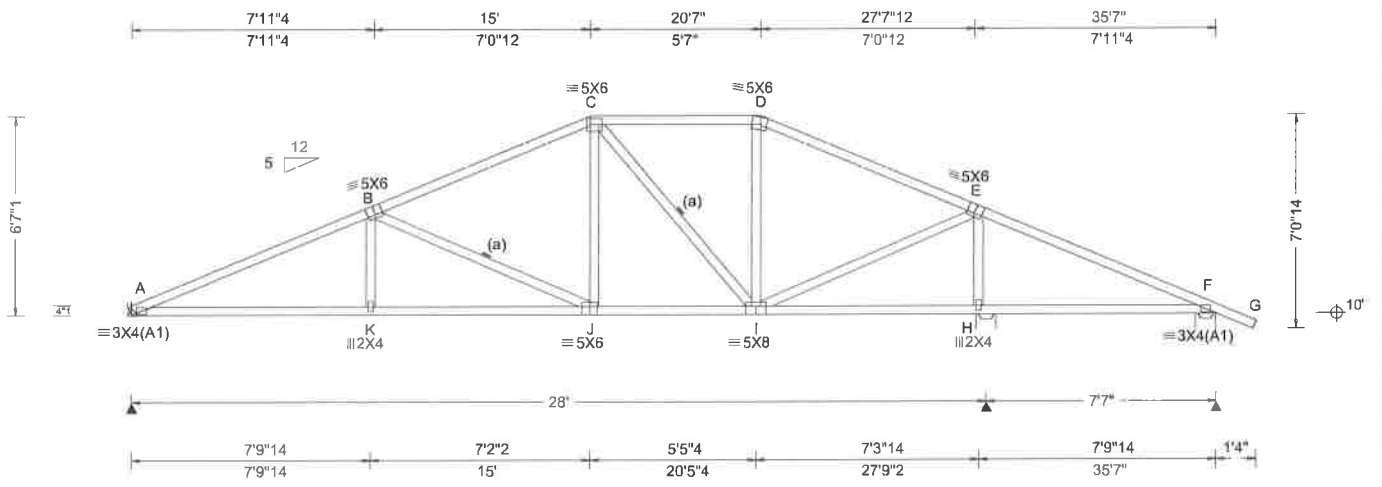
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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.56 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	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.075 K 999 240 VERT(TL): 0.239 K 999 180 HORZ(LL): 0.024 I - - HORZ(TL): 0.048 I - - Creep Factor: 2.0 Max TC CSI: 0.851 Max BC CSI: 0.751 Max Web CSI: 0.466	Maximum Reactions (lbs) Loc R /U /Rw /Rh /RL /W A 1096 /- /627 /- /128 /- H 1629 /- /848 /- /- /8.0 F 362 /46 /201 /- /- /8.0 Wind reactions based on MWFRS A Min Brg Width Req = - H Min Brg Width Req = 1.6 F Min Brg Width Req = 1.5 Bearings H & F are a rigid surface. Bearings H & F require a seat plate.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	1923 -397	J - I	1168 -184
K - J	1918 -397		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - J	236 -831	I - E	1222 -229
C - J	507 -76	E - H	395 -1427
C - I	137 -477		



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 06/19/2018

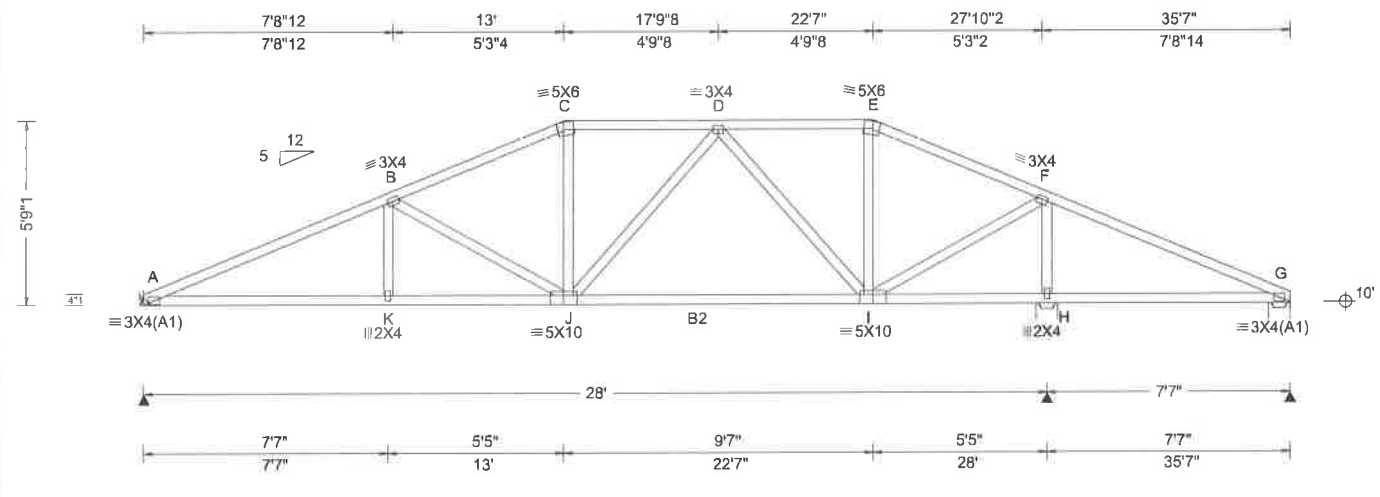
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ALPINE
 8750 Forum Drive
 Suite 305
 Orlando FL, 32821



Loading Criteria (psf) TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.56 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.068 K 999 240 VERT(TL): 0.216 K 999 180 HORZ(LL): 0.023 I - - HORZ(TL): 0.046 I - - Creep Factor: 2.0 Max TC CSI: 0.771 Max BC CSI: 0.700 Max Web CSI: 0.671 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / /Rw / Rh / RL / W
				A 1097 / 113 / 625 / - / 100 / - H 1684 / 171 / 870 / - / - / 8.0 G 243 / 57 / 115 / - / - / 8.0 Wind reactions based on MWFRS A Min Brg Width Req = - H Min Brg Width Req = 1.7 G Min Brg Width Req = 1.5 Bearings H & G are a rigid surface. Bearings H & G require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #1 Dense :B2 2x4 SP #2 Dense:
 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.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	1923 -445	I - H	98 -381
K - J	1919 -446	H - G	110 -420
J - I	1186 -246		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
B - J	202 -660	I - F	1284 -251
D - I	209 -678	F - H	418 -1505



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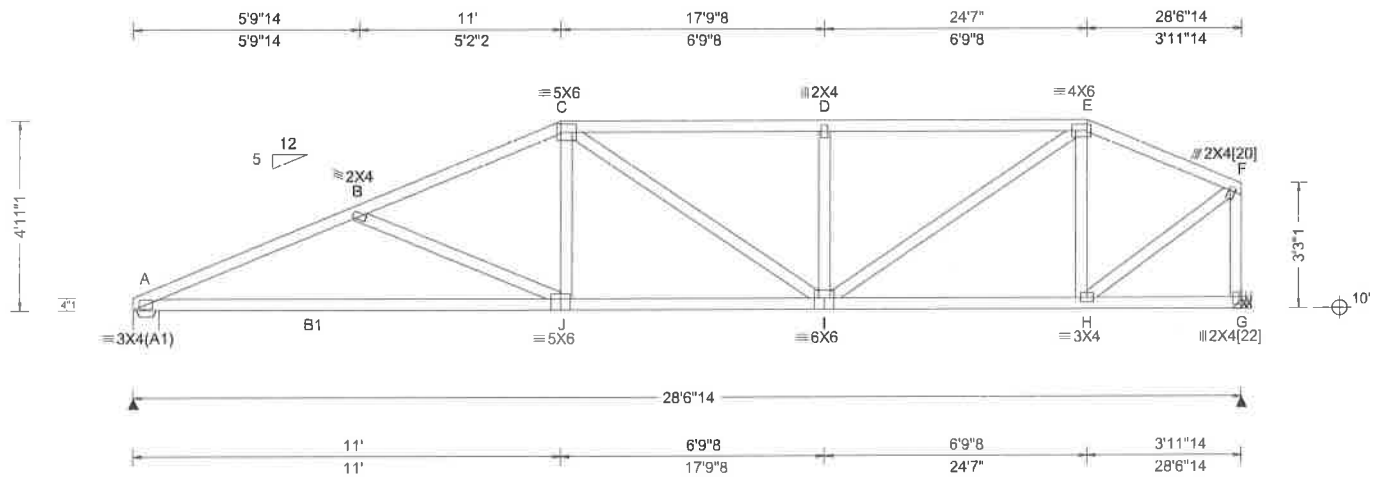
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For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com, TPI: www.tpinet.org, SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.085 J 999 240 VERT(TL): 0.261 J 999 180 HORZ(LL): 0.026 G - - HORZ(TL): 0.054 G - - Creep Factor: 2.0 Max TC CSI: 0.537 Max BC CSI: 0.975 Max Web CSI: 0.429 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W A 1173 / 120 / 654 / - / 124 / 8.0 G 1161 / 124 / 591 / - / - / - Wind reactions based on MWFRS A Min Brg Width Req = 1.5 G Min Brg Width Req = - Bearing A is a rigid surface. Bearing A requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 611 -2376 D - E 519 -1746 B - C 517 -1959 E - F 310 -1018 C - D 519 -1746
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Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B1 2x4 SP #1 Dense;
Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Chord Shift	JT No	Plate Size	Chord Shift
[20]	W2X4	1.50 R	[22]	W2X4	S 2.50

Hangers / Ties
(J) Hanger Support Required, by others

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

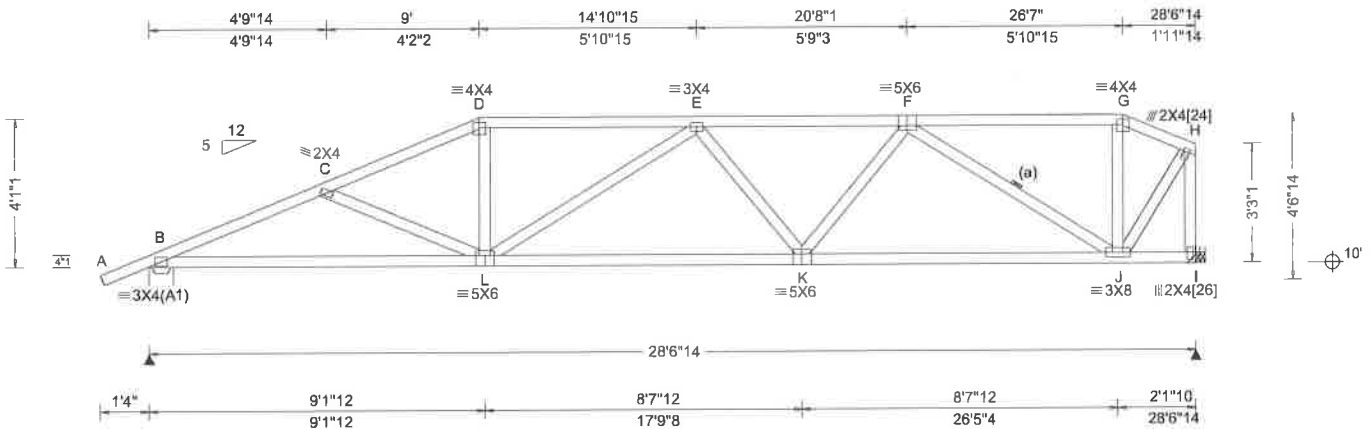
Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical exposed to wind pressure.
Deflection meets L/240.



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Loading Criteria (psf) TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.108 E 999 240 VERT(TL): 0.330 E 999 180 HORZ(LL): 0.038 I - - HORZ(TL): 0.076 I - - Creep Factor: 2.0 Max TC CSI: 0.397 Max BC CSI: 0.846 Max Web CSI: 0.424	▲ Maximum Reactions (lbs) Loc R /U /Rw /Rh /RL /W B 1259 /139 /706 /- /118 /8.0 I 1158 /125 /586 /- /- /- Wind reactions based on MWFRS B Min Brg Width Req = 1.5 I Min Brg Width Req = - Bearing B is a rigid surface. Bearing B requires a seat plate.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	JT No	Plate Size	Chord Shift	JT Bite
[24]	W2X4	1.50 R	1.25	[26]	W2X4	S	2.50

Hangers / Ties
 (J) Hanger Support Required, by others

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.
 Right end vertical exposed to wind pressure.
 Deflection meets L/240.



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 06/19/2018

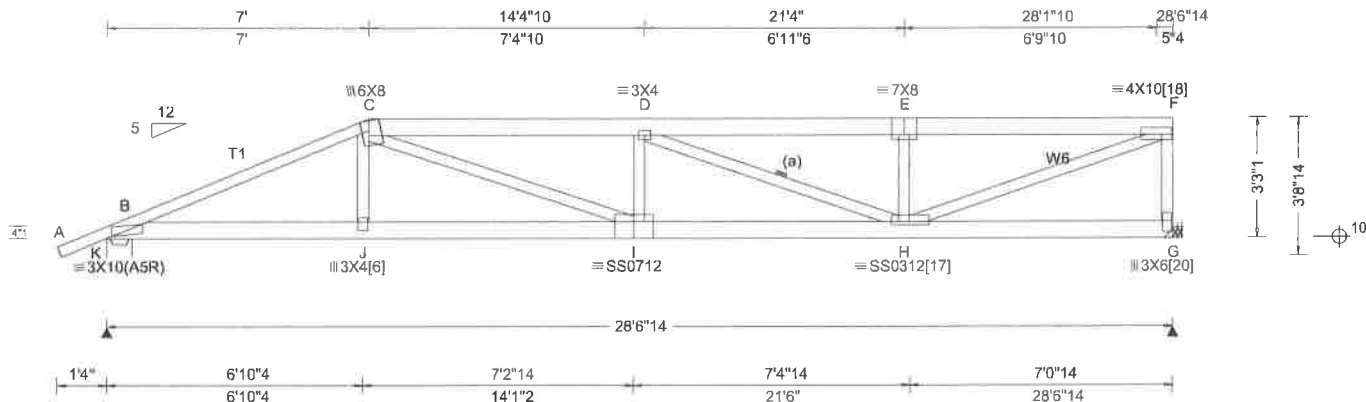
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				K 2587 / 281 / - / - / 46 / 8.0 G 2754 / 321 / - / - / - / - Wind reactions based on MWFRS K Min Brg Width Req = 3.1 G Min Brg Width Req = - Bearing K is a rigid surface. Bearing K requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x6 SP SS :T1 2x4 SP #1 Dense:
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3 :W6 2x4 SP #1 Dense:

Wind
 Wind loads and reactions based on MWFRS.
 Right end vertical exposed to wind pressure.
 Deflection meets L/240.

B - C	610	-5974	D - E	681	-5748
C - D	835	-7405	E - F	681	-5748

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

Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp. Chords Tens. Comp.

B - J	5469	-501	I - H	7429	-807
J - I	5430	-505			

Special Loads
 -----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 62 plf at -1.33 to 62 plf at 7.00
 TC: From 31 plf at 7.00 to 31 plf at 28.57
 BC: From 4 plf at -1.33 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 28.57
 TC: 186 lb Conc. Load at 7.06, 9.06, 11.06, 13.06
 15.06, 17.06, 19.06, 21.06, 23.06, 25.06, 27.06
 BC: 471 lb Conc. Load at 7.03
 BC: 128 lb Conc. Load at 9.06, 11.06, 13.06, 15.06
 17.06, 19.06, 21.06, 23.06, 25.06, 27.06

Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp. Webs Tens. Comp.

J - C	760	0	E - H	257	-955
C - I	2124	-305	H - F	6137	-702
D - H	186	-1812	F - G	342	-2550

Plate Shift Table

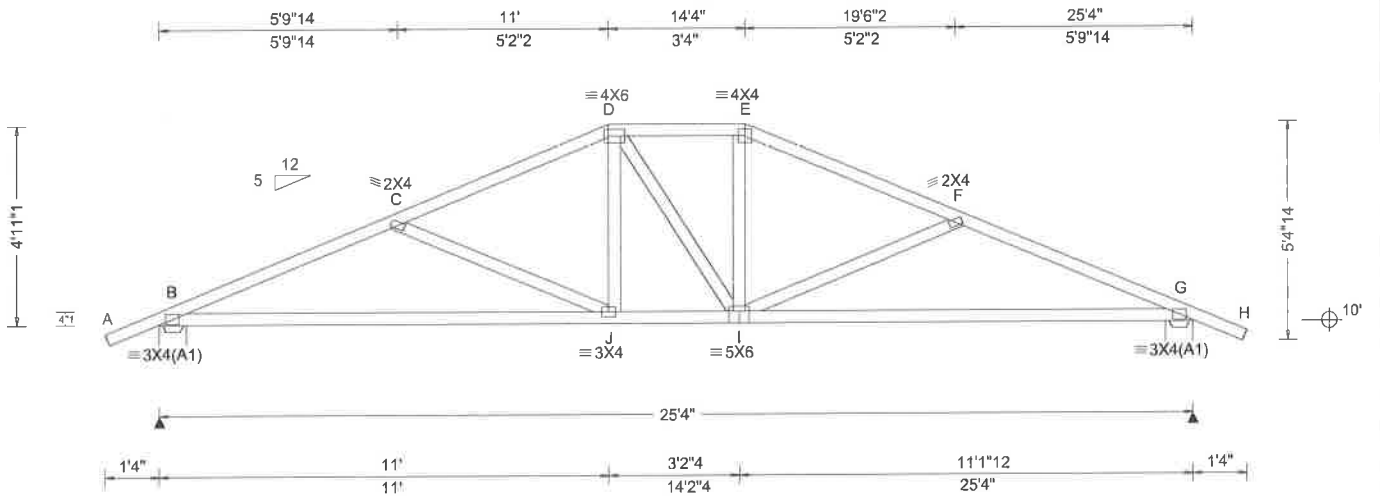
JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[6]	W3X4	S	2.75	[17]	SS0312	6.38	R 1.25
[18]	W4X10	3.25	R 2.25	[20]	W3X6	S	3.50

Hangers / Ties
 (J) Hanger Support Required, by others

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



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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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 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	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.075 J 999 240 VERT(TL): 0.226 J 999 180 HORZ(LL): 0.030 I - - HORZ(TL): 0.060 I - - Creep Factor: 2.0 Max TC CSI: 0.347 Max BC CSI: 0.945 Max Web CSI: 0.317	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th>Loc</th> <th>R</th> <th>/U</th> <th>/Rw</th> <th>/Rh</th> <th>/RL</th> <th>/W</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1119</td> <td>/122</td> <td>/622</td> <td>/-</td> <td>/100</td> <td>/8.0</td> </tr> <tr> <td>G</td> <td>1119</td> <td>/122</td> <td>/622</td> <td>/-</td> <td>/-</td> <td>/8.0</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Min Brg Width Req = 1.5 G Min Brg Width Req = 1.5 Bearings B & G are a rigid surface. Bearings B & G require a seat plate.	Loc	R	/U	/Rw	/Rh	/RL	/W	B	1119	/122	/622	/-	/100	/8.0	G	1119	/122	/622	/-	/-	/8.0																			
					Loc	R	/U	/Rw	/Rh	/RL	/W																																	
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Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE				Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>515 -2011</td> <td>E - F</td> <td>413 -1569</td> </tr> <tr> <td>C - D</td> <td>415 -1578</td> <td>F - G</td> <td>515 -2009</td> </tr> <tr> <td>D - E</td> <td>417 -1395</td> <td></td> <td></td> </tr> </tbody> </table> Maximum Bot Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - J</td> <td>1810 -395</td> <td>I - G</td> <td>1808 -415</td> </tr> <tr> <td>J - I</td> <td>1393 -238</td> <td></td> <td></td> </tr> </tbody> </table> Maximum Web Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - J</td> <td>175 -460</td> <td>I - E</td> <td>375 -59</td> </tr> <tr> <td>D - J</td> <td>376 -49</td> <td>I - F</td> <td>176 -466</td> </tr> </tbody> </table>	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	515 -2011	E - F	413 -1569	C - D	415 -1578	F - G	515 -2009	D - E	417 -1395			Chords	Tens.Comp.	Chords	Tens. Comp.	B - J	1810 -395	I - G	1808 -415	J - I	1393 -238			Webs	Tens.Comp.	Webs	Tens. Comp.	C - J	175 -460	I - E	375 -59	D - J	376 -49	I - F	176 -466
Chords	Tens.Comp.	Chords	Tens. Comp.																																									
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Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 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.



#0-278
 06/19/2018

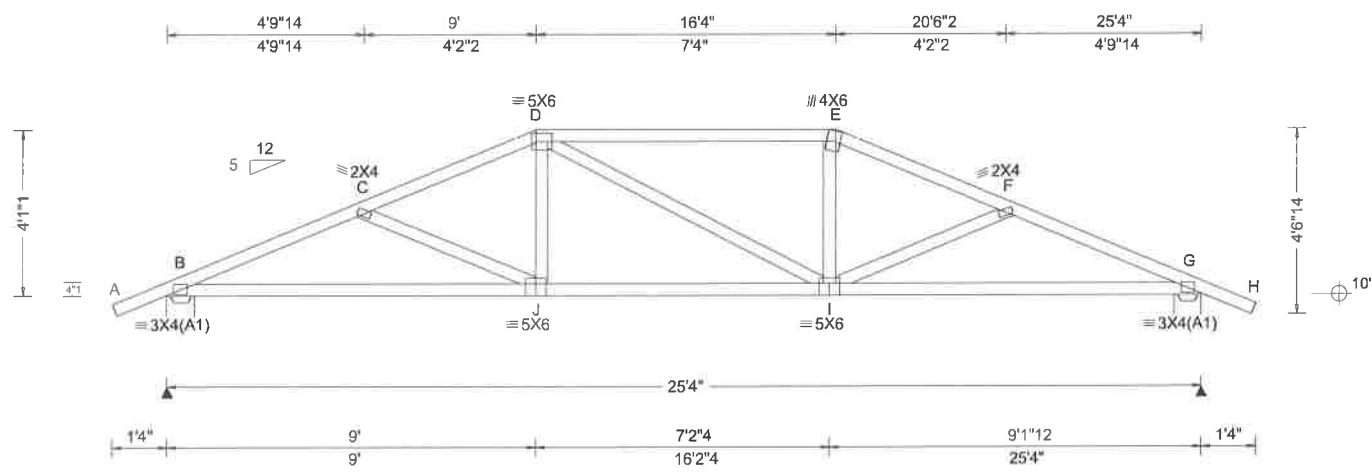
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ALPINE
 AN ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821



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Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
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.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B - J 1851 -422 I - G 1850 -442
J - I 1603 -316

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
D - J 378 -21 I - E 380 -16



#0-278
06/19/2018

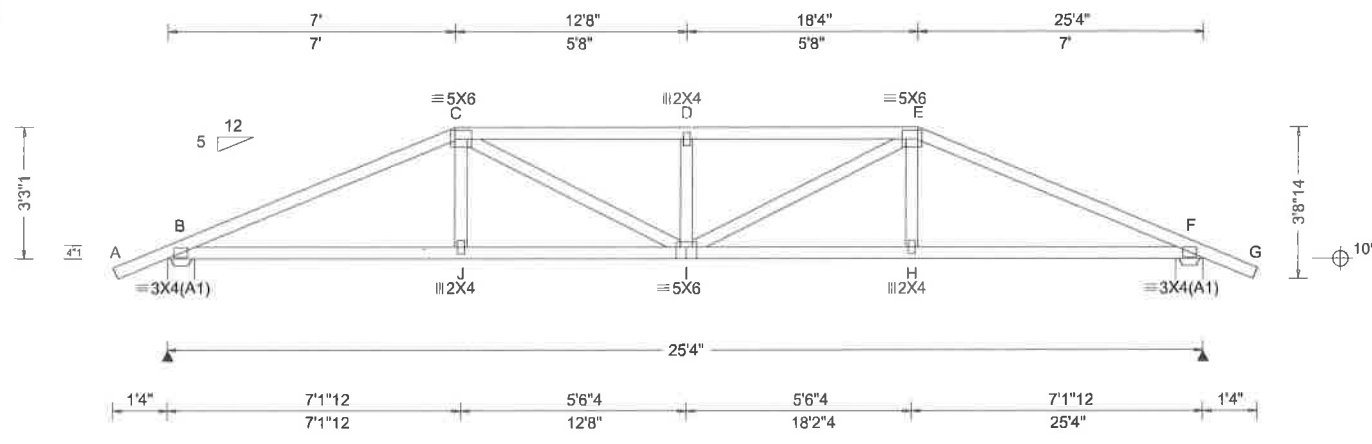
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



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:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 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 Factors Used:	Yes
FT/RT:	0(0)/0(0)
Plate Type(s):	WAVE

Defl/CSI Criteria	
PP Deflection in loc L/defl L/#	
VERT(LL):	0.104 D 999 240
VERT(TL):	0.312 D 999 180
HORZ(LL):	0.031 H - -
HORZ(TL):	0.061 H - -
Creep Factor:	2.0
Max TC CSI:	0.486
Max BC CSI:	0.571
Max Web CSI:	0.173
VIEW Ver:	17.02.01A.1114.21

▲ Maximum Reactions (lbs)					
Loc	R	/U	/Rw	/Rh	/RL /W
B	1119	/56	/616	/-	/71 /8.0
F	1119	/56	/616	/-	/-
Wind reactions based on MWFRS					
B	Min Brg Width Req = 1.5				
F	Min Brg Width Req = 1.5				
Bearings B & F are a rigid surface.					
Bearings B & F require a seat plate.					
Members not listed have forces less than 375#					
Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	521	-2003	D - E	606	-2192
C - D	606	-2192	E - F	520	-2003

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
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.

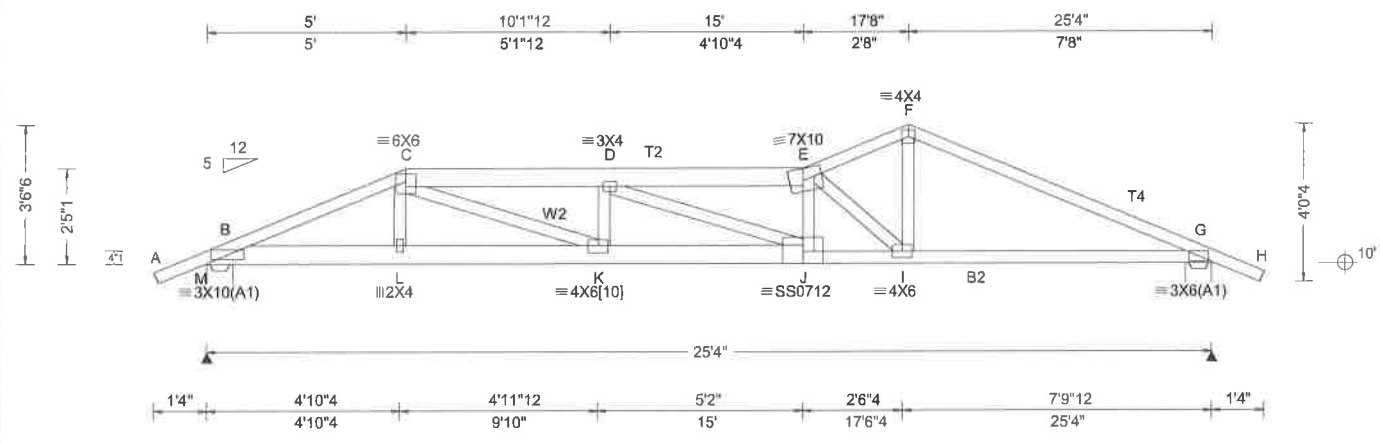
Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1781	-387	I - H	1788	-406
J - I	1788	-387	H - F	1781	-407
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - I	455	-138	I - E	455	-138



#0-278
06/19/2018

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Loading Criteria (psf) TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.283 D 999 240 VERT(TL): 0.848 D 531 180 HORZ(LL): 0.057 I - - HORZ(TL): 0.113 I - - Creep Factor: 2.0 Max TC CSI: 0.920 Max BC CSI: 0.910 Max Web CSI: 0.878 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W
				M 2185 / 205 / - / - / - / 8.0 G 1648 / 165 / - / - / - / 8.0 Wind reactions based on MWFRS M Min Brg Width Req = 2.6 G Min Brg Width Req = 1.7 Bearings M & G are a rigid surface. Bearings M & G require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:
 :T4 2x4 SP #1 Dense:
 Bot chord 2x6 SP SS :B2 2x4 SP #1 Dense:
 Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:

B - C	414	-4994	E - F	275	-3319
C - D	527	-7040	F - G	293	-3283
D - E	452	-5589			

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
B - L	4585	-371	J - I	5588	-452
L - K	4559	-374	I - G	2952	-246
K - J	7028	-541			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
C - K	2681	-165	E - I	261	-3290
D - J	97	-1549	I - F	2160	-101
E - J	684	-19			

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

TC: From 62 plf at -1.33 to 62 plf at 5.00
TC: From 31 plf at 5.00 to 31 plf at 9.94
TC: From 62 plf at 9.94 to 62 plf at 26.67
BC: From 4 plf at -1.33 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 5.03
BC: From 10 plf at 5.03 to 10 plf at 9.94
BC: From 20 plf at 9.94 to 20 plf at 25.33
BC: From 4 plf at 25.33 to 4 plf at 26.67
TC: 205 lb Conc. Load at 5.03
TC: 128 lb Conc. Load at 7.06, 9.06
BC: 214 lb Conc. Load at 5.03
BC: 89 lb Conc. Load at 7.06, 9.06
BC: 943 lb Conc. Load at 9.94

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Plate Size	Chord Shift	JT Bite
[10]	W4X6	2.75	R	2.25		

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

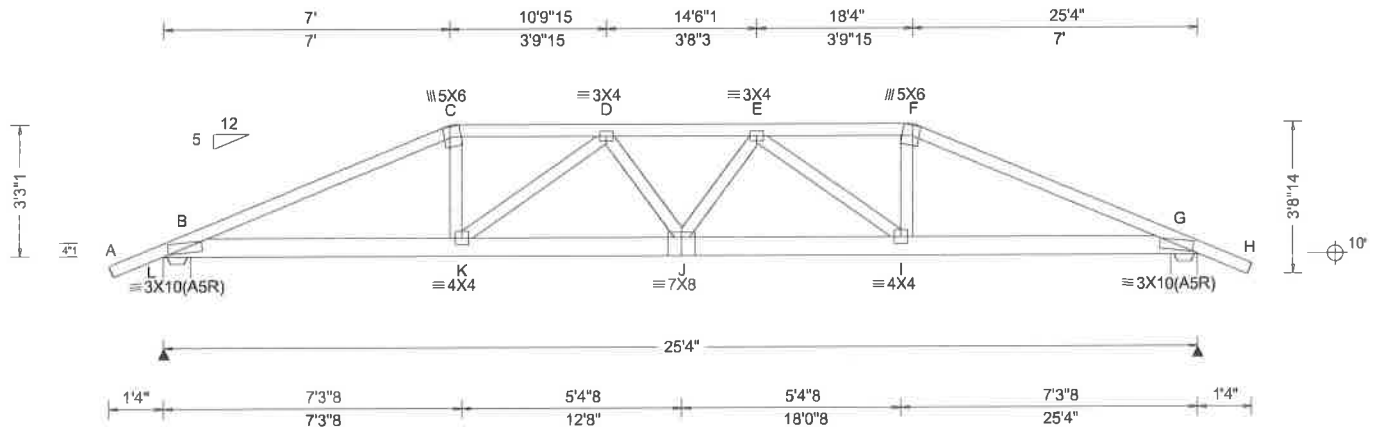
Wind
 Wind loads and reactions based on MWFRS.



#0-278
 06/19/2018

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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.212 J 999 240 VERT(TL): 0.635 J 709 180 HORZ(LL): 0.053 I - - HORZ(TL): 0.106 I - - Creep Factor: 2.0 Max TC CSI: 0.874 Max BC CSI: 0.489 Max Web CSI: 0.543 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W					
				L 2332 / 231 / - / - / - / 8.0 G 2332 / 231 / - / - / - / 8.0 Wind reactions based on MWFRS L Min Brg Width Req = 2.8 G Min Brg Width Req = 2.8 Bearings L & G are a rigid surface. Bearings L & G require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					

Lumber
 Top chord 2x4 SP #1 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3

Special Loads
 ——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 62 plf at -1.33 to 62 plf at 7.00
 TC: From 31 plf at 7.00 to 31 plf at 18.33
 TC: From 62 plf at 18.33 to 62 plf at 26.67
 BC: From 4 plf at -1.33 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 18.30
 BC: From 20 plf at 18.30 to 20 plf at 25.33
 BC: From 4 plf at 25.33 to 4 plf at 26.67
 TC: 186 lb Conc. Load at 7.06, 9.06, 11.06, 12.67
 14.27, 16.27, 18.27
 BC: 471 lb Conc. Load at 7.03, 18.30
 BC: 128 lb Conc. Load at 9.06, 11.06, 12.67, 14.27
 16.27

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

Wind
 Wind loads and reactions based on MWFRS.



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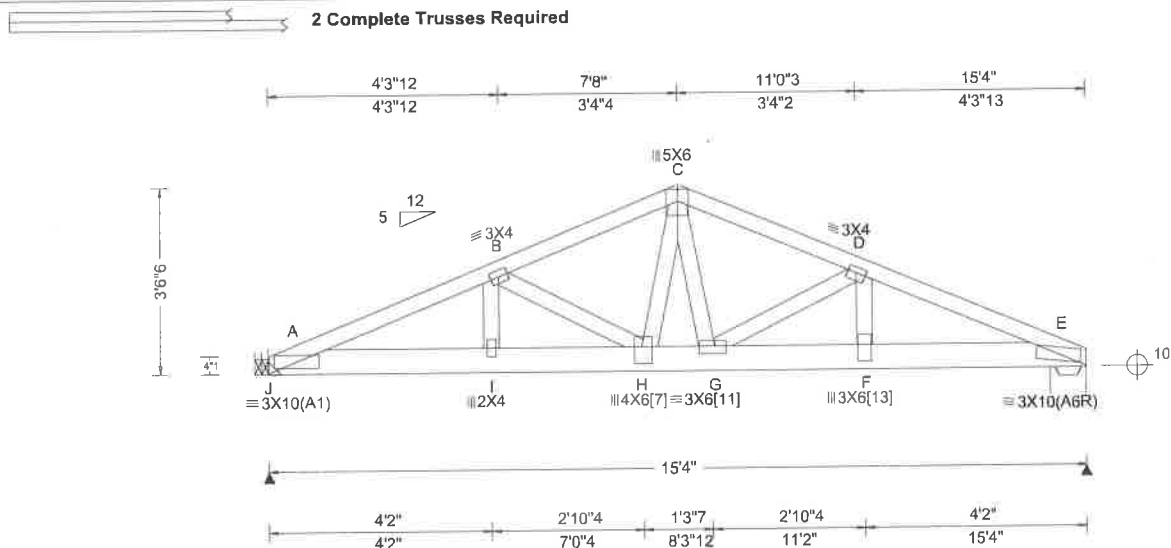
6750 Forum Drive
 Suite 305
 Orlando FL, 32821

Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: C01

Ply: 2
 Qty: 1

SEQN: 886750 / T33 / COMN
 FROM: AH

Cust: RR408 JRef: 1WbX4080013
 DrwNo: 169.18.1136.40269
 KM / DF 06/18/2018



Loading Criteria (psf)	
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 Criteria	
Wind Std:	ASCE 7-10
Speed:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 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 Factors Used:	No
FT/RT:	0(0)/0(0)
Plate Type(s):	WAVE

Defl/CSI Criteria	
PP Deflection in loc L/defl L/#	
VERT(LL):	0.121 G 999 240
VERT(TL):	0.357 G 756 180
HORZ(LL):	0.032 F - -
HORZ(TL):	0.063 F - -
Creep Factor:	2.0
Max TC CSI:	0.756
Max BC CSI:	0.806
Max Web CSI:	0.668
VIEW Ver:	17.02.01A.1114.21

▲ Maximum Reactions (lbs)						
Loc	R	/U	/Rw	/Rh	/RL	/W
J	4399	/542	/-	/-	/-	/-
E	5528	/648	/-	/-	/-	/8.0
J	Min Brg Width Req = -					
E	Min Brg Width Req = 3.3					
Bearing E is a rigid surface.						
Bearing E requires a seat plate.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.	Chords	Tens. Comp.			
A - B	616	-5027	C - D	555	-4597	
B - C	559	-4600	D - E	710	-5969	

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 2 Rows @ 5.00" o.c. (Each Row)
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Wind
 Wind loads and reactions based on MWFRS.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
A - I	4624	-564	G - F	5438	-645
I - H	4607	-563	F - E	5500	-651
H - G	3863	-467			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
B - H	60	-438	G - D	163	-1428
H - C	1754	-211	D - F	1188	-114
C - G	1731	-191			

Special Loads

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

TC:	From 62 plf at 0.00 to 62 plf at 5.94
TC:	From 31 plf at 5.94 to 31 plf at 7.67
TC:	From 62 plf at 7.67 to 62 plf at 15.33
BC:	From 10 plf at 0.00 to 10 plf at 13.06
BC:	From 20 plf at 13.06 to 20 plf at 15.33
BC:	467 lb Conc. Load at 1.94, 3.94
BC:	463 lb Conc. Load at 5.94
BC:	3028 lb Conc. Load at 7.13
BC:	1478 lb Conc. Load at 9.06, 11.06, 13.06

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Plate No	Chord Shift	Chord Bite
[7]	W4X6	1.50 L	3.75	[11]	W3X6	2.50 R 1.75
[13]	W3X6	S	3.75			

Hangers / Ties
 (J) Hanger Support Required, by others



#0-278
 06/19/2018

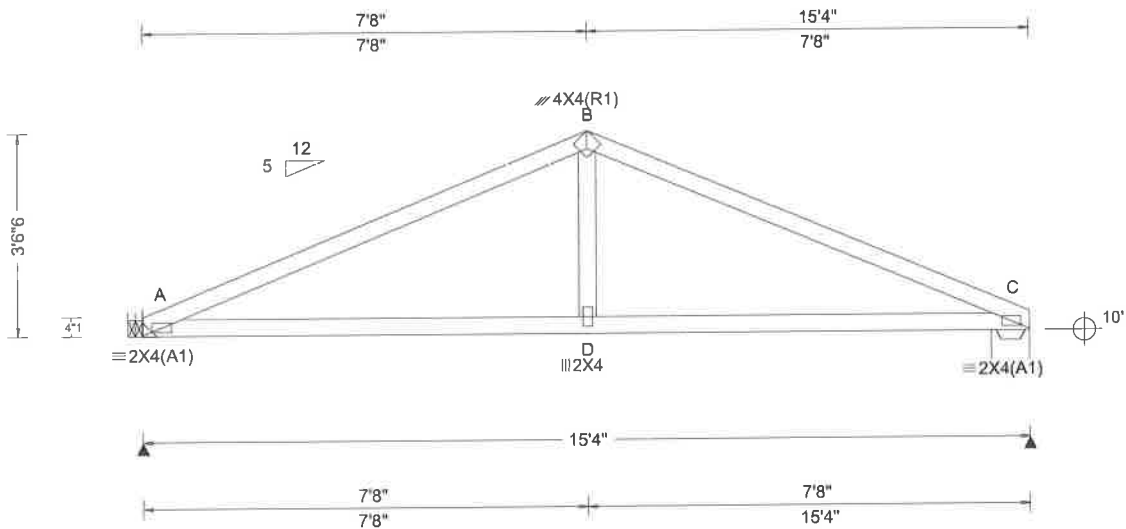
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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 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	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.020 D 999 240 VERT(TL): 0.061 D 999 180 HORZ(LL): 0.010 D - - HORZ(TL): 0.020 D - - Creep Factor: 2.0 Max TC CSI: 0.569 Max BC CSI: 0.606 Max Web CSI: 0.133	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th>Loc</th> <th>R</th> <th>/U</th> <th>/Rw</th> <th>/Rh</th> <th>/RL</th> <th>/W</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>625</td> <td>/62</td> <td>/339</td> <td>/-</td> <td>/55</td> <td>/-</td> </tr> <tr> <td>C</td> <td>627</td> <td>/62</td> <td>/340</td> <td>/-</td> <td>/-</td> <td>/8.0</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS A Min Brg Width Req = - C Min Brg Width Req = 1.5 Bearing C is a rigid surface. Bearing C requires a seat plate.</p> <p>Members not listed have forces less than 375#</p> Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>282 -1009</td> <td>B - C</td> <td>282 -1009</td> </tr> </tbody> </table>	Loc	R	/U	/Rw	/Rh	/RL	/W	A	625	/62	/339	/-	/55	/-	C	627	/62	/340	/-	/-	/8.0	Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	282 -1009	B - C	282 -1009
					Loc	R	/U	/Rw	/Rh	/RL	/W																						
A	625	/62	/339	/-	/55	/-																											
C	627	/62	/340	/-	/-	/8.0																											
Chords	Tens.Comp.	Chords	Tens. Comp.																														
A - B	282 -1009	B - C	282 -1009																														
Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE				VIEW Ver: 17.02.01A.1114.21																													

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Hangers / Ties
 (J) Hanger Support Required, by others

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



#0-278
 06/19/2018

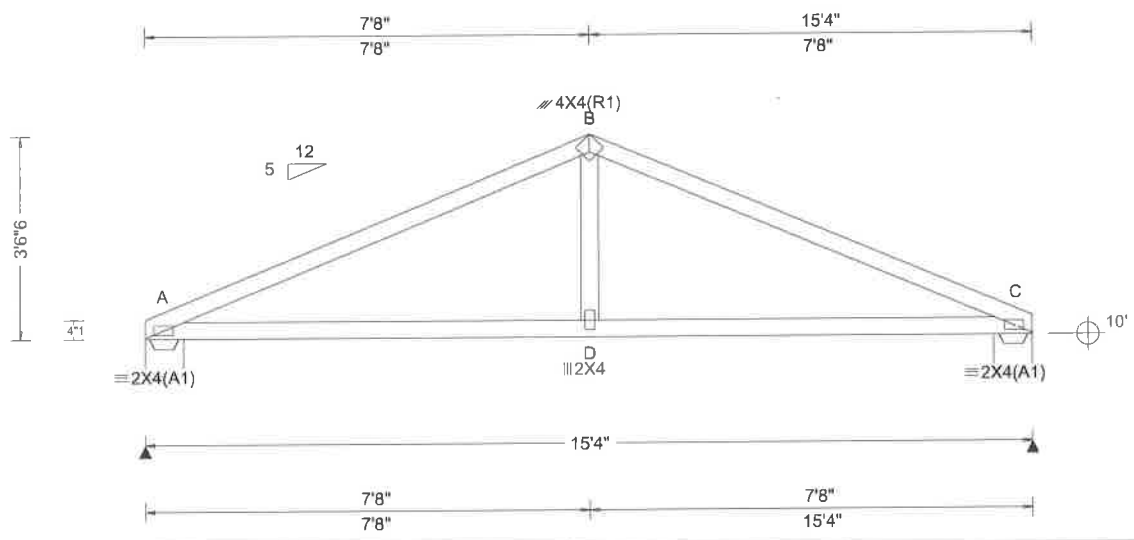
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 D 999 240 VERT(TL): 0.057 D 999 180 HORZ(LL): 0.009 D - - HORZ(TL): 0.019 D - - Creep Factor: 2.0 Max TC CSI: 0.565 Max BC CSI: 0.602 Max Web CSI: 0.132 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W A 626 /62 /340 /- /55 /8.0 C 626 /62 /340 /- /- /8.0 Wind reactions based on MWFRS A Min Brg Width Req = 1.5 C Min Brg Width Req = 1.5 Bearings A & C are a rigid surface. Bearings A & C require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 281 -1006 B - C 281 -1006 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - D 863 -188 D - C 863 -188

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

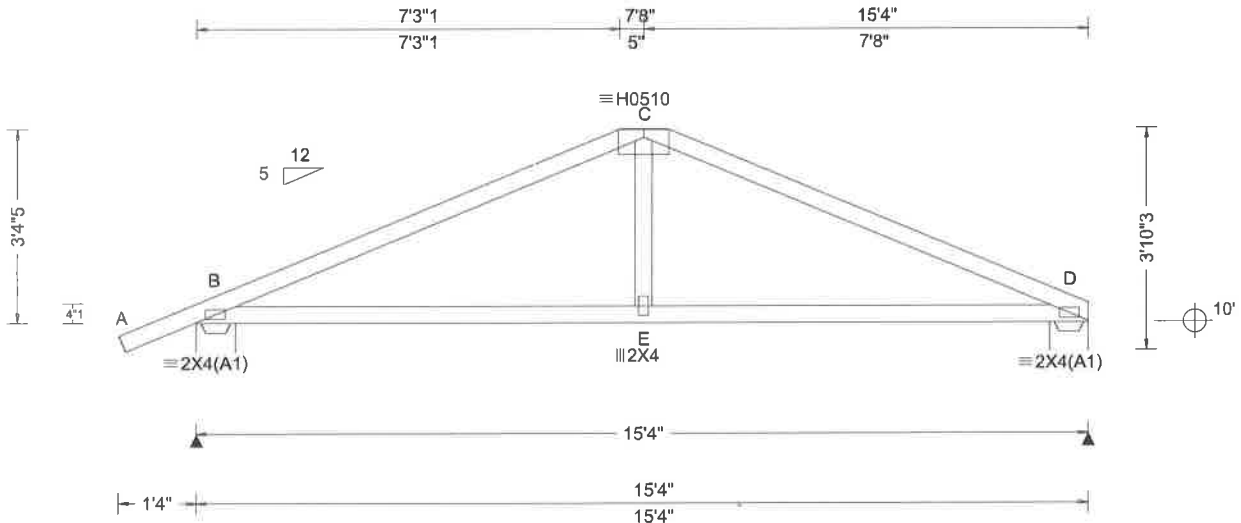
Wind
 Wind loads based on MWFRS with additional C&C member design.



#0-278
 06/19/2018

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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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.019 E 999 240 VERT(TL): 0.057 E 999 180 HORZ(LL): 0.008 E - - HORZ(TL): 0.016 E - - Creep Factor: 2.0 Max TC CSI: 0.557 Max BC CSI: 0.596 Max Web CSI: 0.131 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W B 715 / 76 / 394 / - / 65 / 8.0 D 622 / 56 / 333 / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = 1.5 Bearings B & D are a rigid surface. Bearings B & D require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 247 -995 C - D 258 -994 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - E 852 -168 E - D 852 -168

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

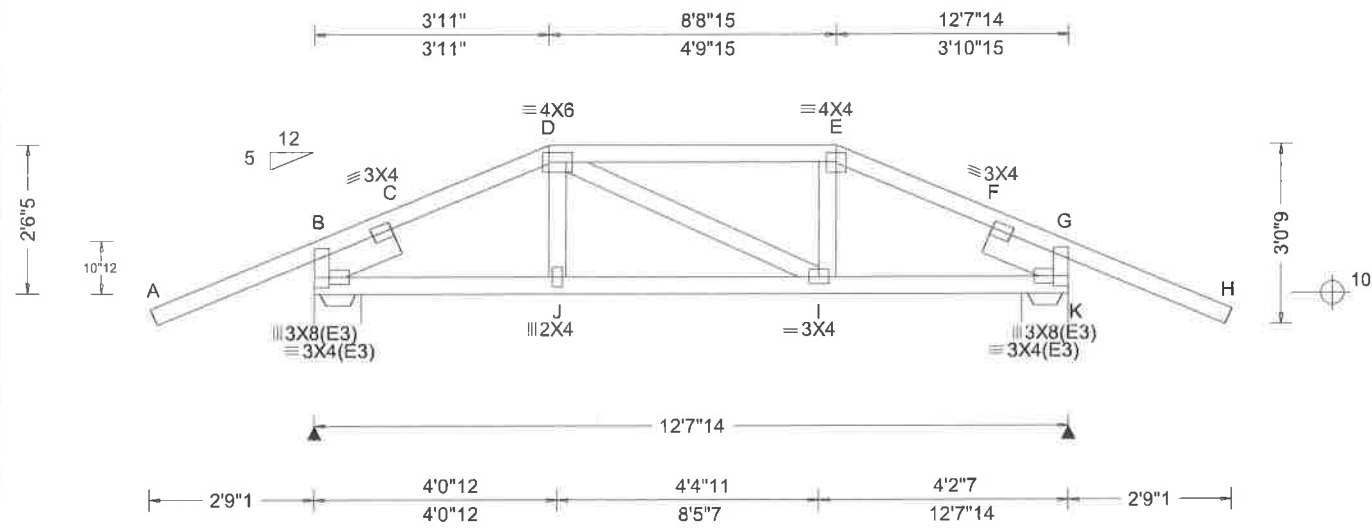
Wind
Wind loads based on MWFRS with additional C&C member design.



#0-278
06/19/2018

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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:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 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

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 Factors Used:	Yes
FT/RT:	0(0)/0(0)
Plate Type(s):	WAVE

Defl/CSI Criteria	
PP Deflection in loc L/defl L/#	
VERT(LL):	0.024 999 240
VERT(TL):	0.067 999 180
HORZ(LL):	0.015 F - -
HORZ(TL):	0.029 F - -
Creep Factor:	2.0
Max TC CSI:	0.640
Max BC CSI:	0.247
Max Web CSI:	0.063

▲ Maximum Reactions (lbs)						
Loc	R	U	Rw	Rh	RL	W
B	722	73	-	-	-	9.5
K	730	72	-	-	-	9.5

Wind reactions based on MWFRS
 B Min Brg Width Req = 1.5
 K Min Brg Width Req = 1.5
 Bearings B & K are a rigid surface.
 Bearings B & K require a seat plate.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	18	-724	E - F	0	-697
C - D	0	-684	F - G	17	-737
D - E	0	-604			

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3
 :Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'
 :Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

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

TC:	From 62 plf at -2.75 to 62 plf at 3.92
TC:	From 31 plf at 3.92 to 31 plf at 8.74
TC:	From 62 plf at 8.74 to 62 plf at 15.41
BC:	From 4 plf at -2.75 to 4 plf at 0.00
BC:	From 20 plf at 0.00 to 20 plf at 3.92
BC:	From 10 plf at 3.92 to 10 plf at 8.73
BC:	From 20 plf at 8.73 to 20 plf at 12.66
BC:	From 4 plf at 12.66 to 4 plf at 15.41
BC:	91 lb Conc. Load at 3.92, 8.73
BC:	39 lb Conc. Load at 5.98, 7.98

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

Wind
 Wind loads and reactions based on MWFRS.



#0-278
 06/19/2018

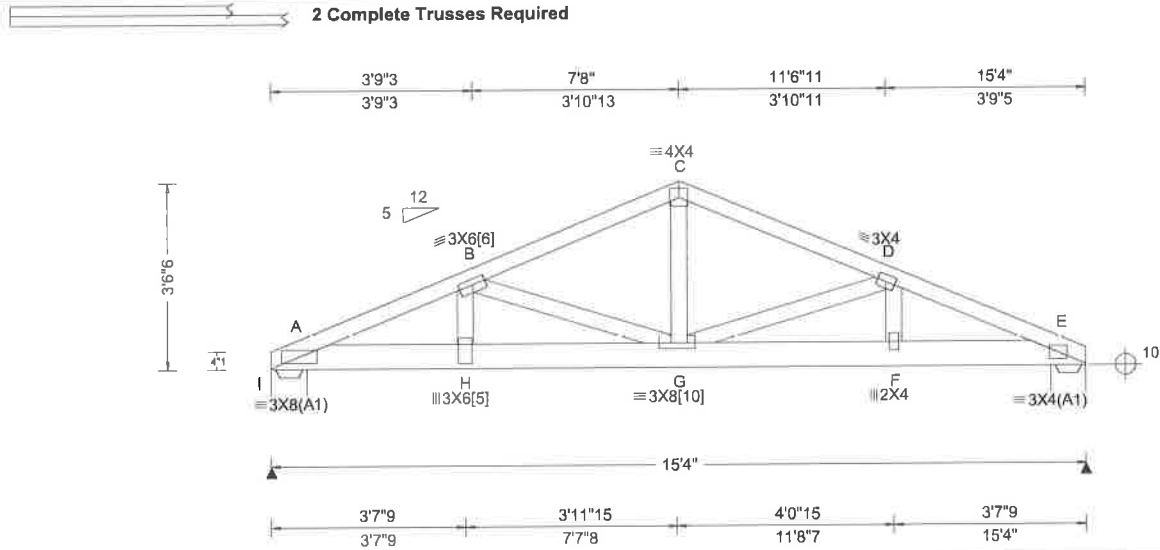
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 GCpl: 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 Factors Used: No FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.083 H 999 240 VERT(TL): 0.249 H 999 180 HORZ(LL): 0.020 F - - HORZ(TL): 0.039 F - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.542 Max Web CSI: 0.957 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W I 4540 / 557 / - / - / - / 8.0 E 1700 / 202 / - / - / - / 8.0 Wind reactions based on MWFRS I Min Brg Width Req = 2.7 E Min Brg Width Req = 1.5 Bearings I & E are a rigid surface. Bearings I & E require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 1 Row @ 4.50" 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 62 plf at 0.00 to 62 plf at 15.33
 BC: From 10 plf at 0.00 to 10 plf at 3.63
 BC: From 20 plf at 3.63 to 20 plf at 15.33
 BC: 625 lb Conc. Load at 1.56
 BC: 4399 lb Conc. Load at 3.63

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Plate Bite	JT No	Plate Size	Chord Shift	JT Plate Bite
[5]	W3X6	S 4.50	[6]	W3X6	3.25	L 1.25	
[10]	W3X8	1.75	R 1.25				

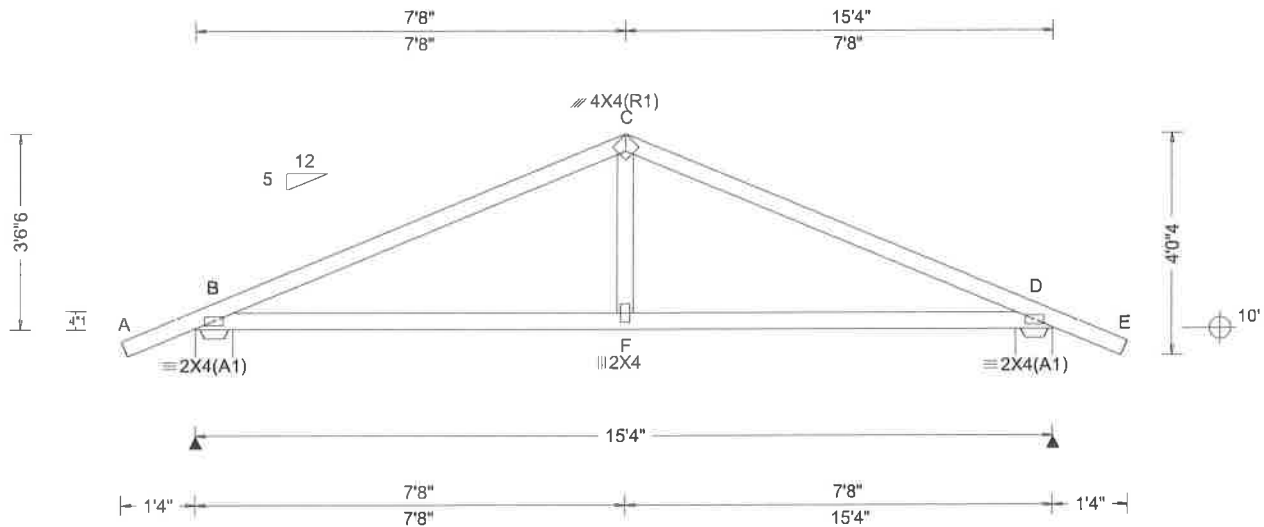
Wind
 Wind loads and reactions based on MWFRS.



#0-278
 06/19/2018

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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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.018 F 999 240 VERT(TL): 0.055 F 999 180 HORZ(LL): 0.008 F - - HORZ(TL): 0.016 F - - Creep Factor: 2.0 Max TC CSI: 0.537 Max BC CSI: 0.587 Max Web CSI: 0.130 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W B 710 / 80 / 400 / - / 76 / 8.0 D 710 / 80 / 400 / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = 1.5 Bearings B & D are a rigid surface. Bearings B & D require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 479 -977 C - D 479 -977 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - F 834 -303 F - D 834 -303

Lumber

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind

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



#0-278

06/19/2018

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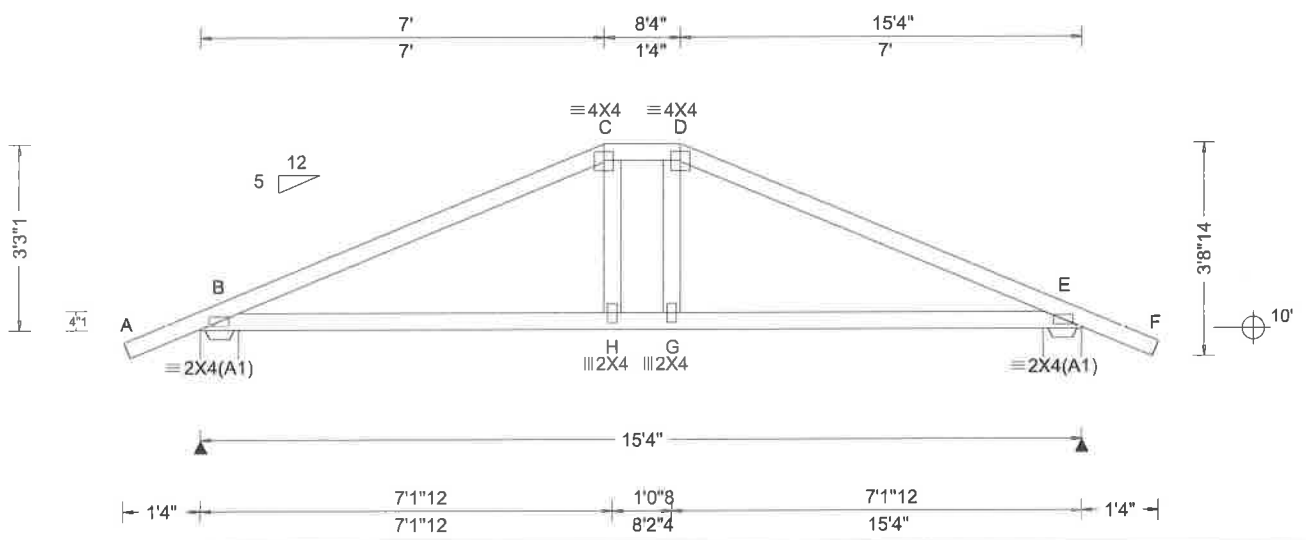
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6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h 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	PP Deflection in loc L/defl L/# VERT(LL): 0.019 G 999 240 VERT(TL): 0.079 G 999 180 HORZ(LL): 0.008 G - - HORZ(TL): 0.019 H - - Creep Factor: 2.0 Max TC CSI: 0.518 Max BC CSI: 0.480 Max Web CSI: 0.074 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W B 710 /80 /401 /- /71 /8.0 E 710 /80 /401 /- /- /8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 E Min Brg Width Req = 1.5 Bearings B & E are a rigid surface. Bearings B & E require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 273 -984 D - E 273 -984 C - D 281 -847
		Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE		Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - H 842 -162 G - E 842 -165 H - G 847 -163

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
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.



#0-278
06/19/2018

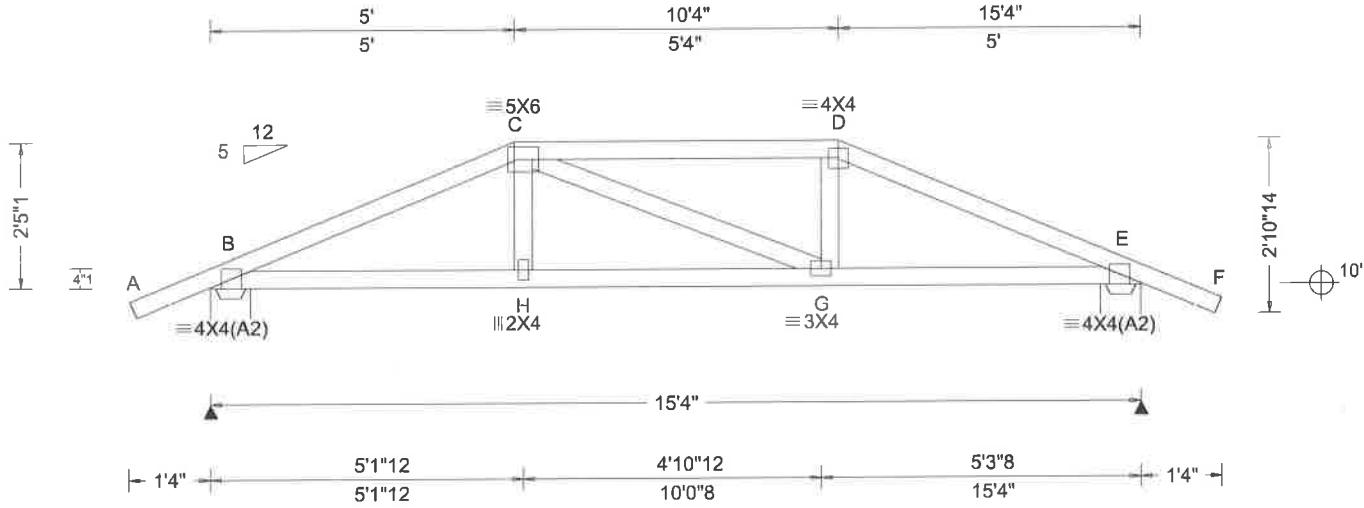
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ALPINE
ACTIVE COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.064 G 999 240 VERT(TL): 0.189 G 999 180 HORZ(LL): 0.024 G - - HORZ(TL): 0.047 G - - Creep Factor: 2.0 Max TC CSI: 0.860 Max BC CSI: 0.800 Max Web CSI: 0.138	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W B 1238 / 149 / - / - / - / 8.0 E 1238 / 149 / - / - / - / 8.0 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 E Min Brg Width Req = 1.5 Bearings B & E are a rigid surface. Bearings B & E require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Special Loads
 ---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 62 plf at -1.33 to 62 plf at 5.00
 TC: From 31 plf at 5.00 to 31 plf at 10.33
 TC: From 62 plf at 10.33 to 62 plf at 16.67
 BC: From 4 plf at -1.33 to 4 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 5.03
 BC: From 10 plf at 5.03 to 10 plf at 10.30
 BC: From 20 plf at 10.30 to 20 plf at 15.33
 BC: From 4 plf at 15.33 to 4 plf at 16.67
 TC: 205 lb Conc. Load at 5.03,10.30
 TC: 128 lb Conc. Load at 7.06, 8.27
 BC: 214 lb Conc. Load at 5.03,10.30
 BC: 89 lb Conc. Load at 7.06, 8.27

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

Wind
 Wind loads and reactions based on MWFRS.



#0-278
 06/19/2018

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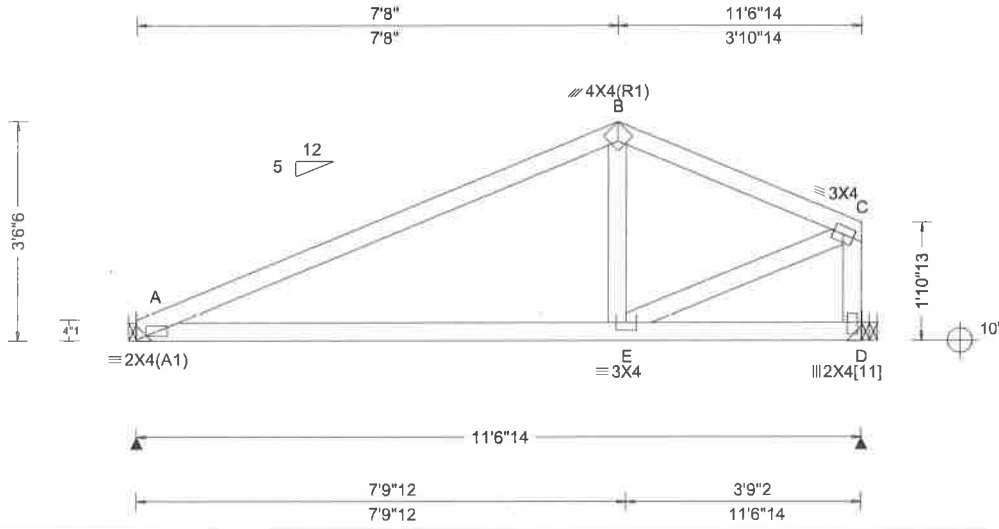
For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: C10

Ply: 1
 Qty: 2
 SEQN: 886728 / T16 / SPEC
 FROM: AH

Cust: RR408 JRef: 1WbX4080013
 DrwNo: 169.18.1136.40612
 KM / DF 06/18/2018



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:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 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 Factors Used:	Yes
FT/RT:	0(0)/0(0)
Plate Type(s):	WAVE

Defl/CSI Criteria		
PP Deflection in loc L/defl L/#		
VERT(LL):	0.025 E	999 240
VERT(TL):	0.078 E	999 180
HORZ(LL):	0.013 E	- -
HORZ(TL):	0.026 E	- -
Creep Factor:	2.0	
Max TC CSI:	0.613	
Max BC CSI:	0.516	
Max Web CSI:	0.200	
VIEW Ver:	17.02.01A.1114.21	

▲ Maximum Reactions (lbs)						
Loc	R	/U	/Rw	/Rh	/RL	/W
A	478	/44	/271	/-	/51	/-
D	467	/49	/243	/-	/-	/-
Wind reactions based on MWFRS						
A	Min Brg Width Req = -					
D	Min Brg Width Req = -					
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.	Chords	Tens. Comp.			
A - B	192	-598	B - C	205	-547	

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Plate Shift Table							
JT No	Plate Size	Chord Shift	JT No	Plate Size	Chord Shift	JT No	Plate Size
[11]	W2X4	S					2.25

Hangers / Ties
 (J) Hanger Support Required, by others

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

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.		
A - E	484	-160	

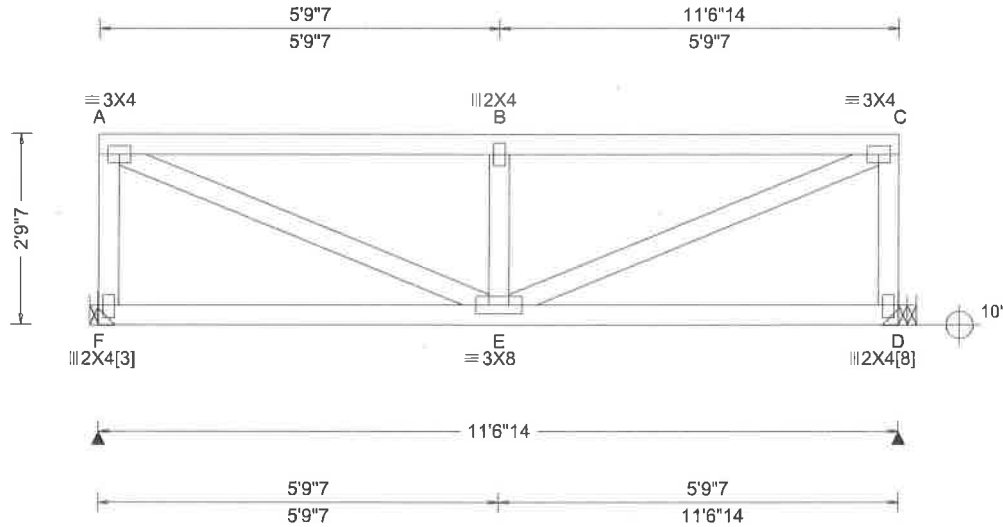
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
E - C	525	-169	C - D	187	-468



#0-278
 06/19/2018

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Loading Criteria (psf) TCLL: 20.00 TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.018 B 999 240 VERT(TL): 0.053 B 999 180 HORZ(LL): 0.003 A - - HORZ(TL): 0.005 A - - Creep Factor: 2.0 Max TC CSI: 0.392 Max BC CSI: 0.285 Max Web CSI: 0.265 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W
				F 463 / 60 / 244 / - / 171 / - D 463 / 60 / 244 / - / - / - Wind reactions based on MWFRS F Min Brg Width Req = - D Min Brg Width Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 191 - 652 B - C 191 - 652

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[3]	W2X4	S	2.25	[8]	W2X4	S	2.25

Hangers / Ties
 (J) Hanger Support Required, by others

Wind
 Wind loads based on MWFRS with additional C&C member design.
 End verticals exposed to wind pressure. Deflection meets L/240.

Additional Notes
 Truss must be installed as shown with top chord up.



#0-278
 06/19/2018

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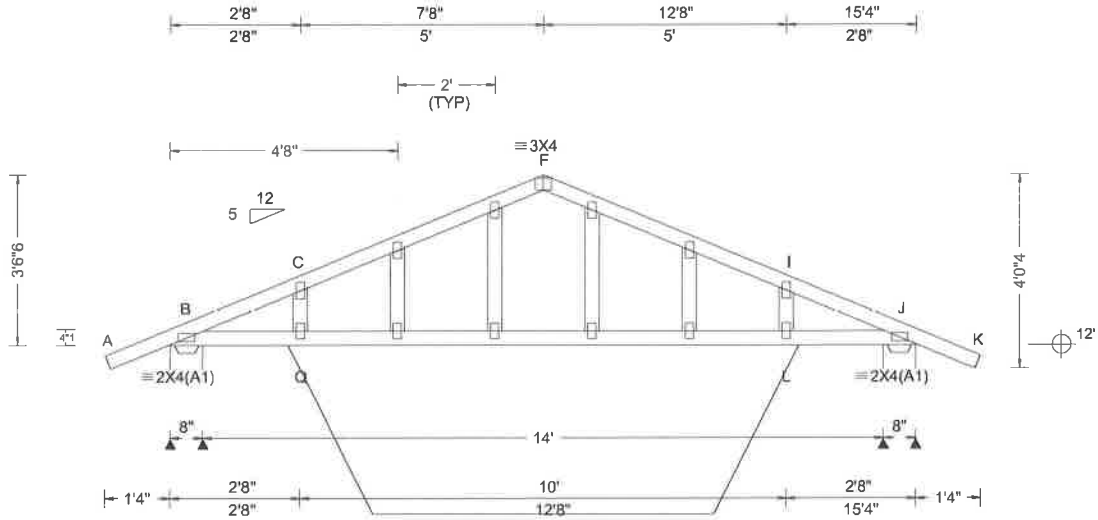
ALPINE
 AN ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821

Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: C12

Ply: 1
 Qty: 1

SEQN: 886724 / T29 / GABL
 FROM: AH

Cust: RR408 JRef: 1WbX4080013
 DrwNo: 169.18.1136.40924
 KM / DF 06/18/2018



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: 139 mph
 Enclosure: Closed
 Risk Category: II
 EXP: B
 Mean Height: 15.00 ft
 TCDL: 4.2 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

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 Factors Used: Yes
 FT/RT:0(0)/0(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria
 PP Deflection in loc L/defl L/#
 VERT(LL): 0.001 F 999 240
 VERT(TL): 0.003 F 999 180
 HORZ(LL): 0.001 H - -
 HORZ(TL): 0.001 H - -
 Creep Factor: 2.0
 Max TC CSI: 0.144
 Max BC CSI: 0.041
 Max Web CSI: 0.037

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs), or *PLF

Loc	R	/U	/Rw	/Rh	/RL	/W
B	227	/27	/132	/-	/76	/8.0
B*	69	/8	/37	/-	/-	/168
J	227	/26	/140	/-	/-	/8.0

Wind reactions based on MWFRS
 B Min Brg Width Req = 1.5
 B Min Brg Width Req = -
 J Min Brg Width Req = 1.5
 Bearings B, B, & J are a rigid surface.
 Bearings B, B, & J require a seat plate.

Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Plating Notes

All plates are 2X4 except as noted.

Wind

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

Additional Notes

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.



#0-278

06/19/2018

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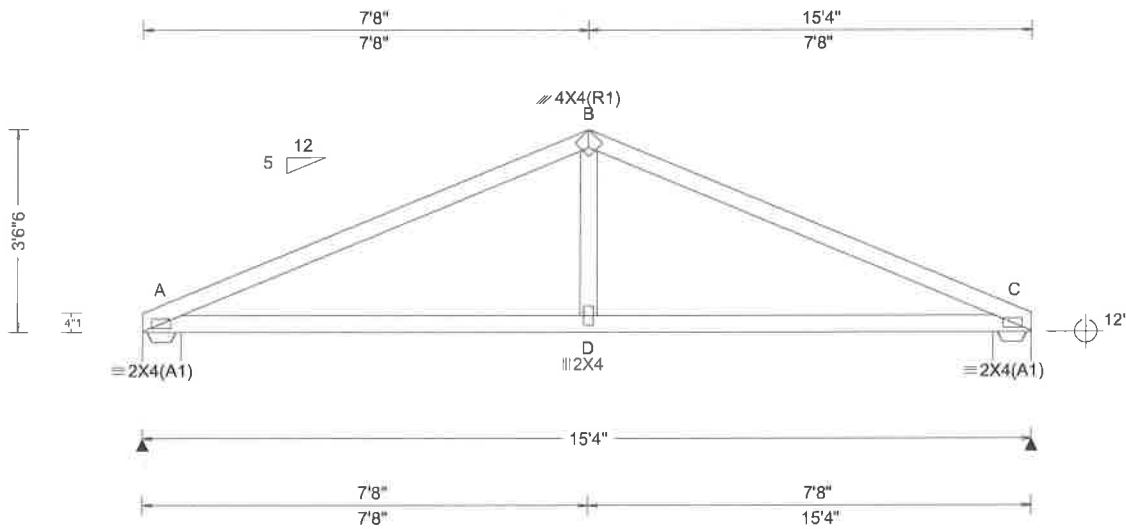
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6750 Forum Drive
 Suite 305
 Orlando FL, 32821



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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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	PP Deflection in loc L/defl L/# VERT(LL): 0.018 D 999 240 VERT(TL): 0.057 D 999 180 HORZ(LL): 0.009 D - - HORZ(TL): 0.019 D - - Creep Factor: 2.0 Max TC CSI: 0.565 Max BC CSI: 0.602 Max Web CSI: 0.132 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W A 626 / 62 / 340 / - / 55 / 8.0 C 626 / 62 / 340 / - / - / 8.0 Wind reactions based on MWFRS A Min Brg Width Req = 1.5 C Min Brg Width Req = 1.5 Bearings A & C are a rigid surface. Bearings A & C require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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

Maximum Bot Chord Forces Per Ply (lbs)	
Chords	Tens. Comp.
A - B	281 - 1007
B - C	281 - 1007
A - D	863 - 188
D - C	863 - 188



#0-278
 06/19/2018

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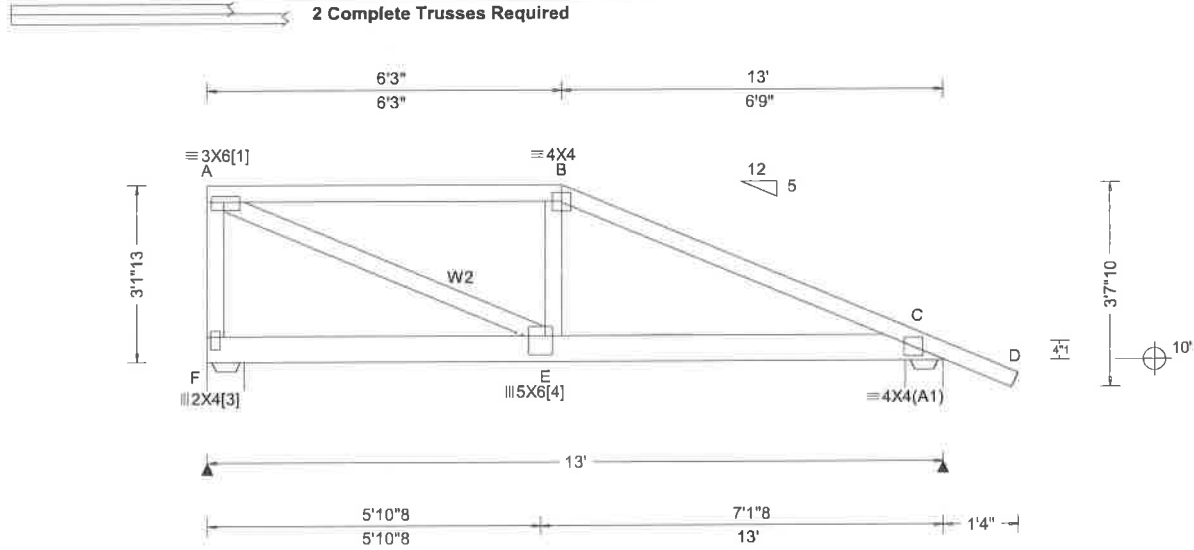


Job Number: 20005
 CHRISTENSEN RES./CHRISTENSEN RES.-PRIMECO BUILDERS
 Truss Label: C14

Ply: 2
 Qty: 1

SEQN: 886914 / T47 / HIPM
 FROM: AH

Cust: RR408 JRef: 1WbX4080013
 DrwNo: 169.18.1136.40768
 KM / DF 06/18/2018



Loading Criteria (psf)	
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 Criteria	
Wind Std:	ASCE 7-10
Speed:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 psf
BCDL:	5.0 psf
MWFRS Parallel Dist:	0 to h/2
C&C Dist a:	3.00 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 Factors Used:	No
FT/RT:	0(0)/0(0)
Plate Type(s):	WAVE

Def/CSI Criteria	
PP Deflection in loc L/def L/#	
VERT(LL):	0.060 E 999 240
VERT(TL):	0.179 E 999 180
HORZ(LL):	0.011 A - -
HORZ(TL):	0.022 A - -
Creep Factor:	2.0
Max TC CSI:	0.618
Max BC CSI:	0.619
Max Web CSI:	0.595
VIEW Ver:	17.02.01A.1114.21

▲ Maximum Reactions (lbs)					
Loc	R	/U	/Rw	/Rh	/RL /W
F	3760	/441	/-	/-	/44 /8.0
C	2401	/300	/-	/-	/8.0
Wind reactions based on MWFRS					
F	Min Brg Width Req = 2.2				
C	Min Brg Width Req = 1.5				
Bearings F & C are a rigid surface.					
Bearings F & C require a seat plate.					
Members not listed have forces less than 375#					
Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens.	Comp.	
A - B	316	-2681	B - C	345	-2840

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:

Wind
 Wind loads and reactions based on MWFRS.
 Left end vertical exposed to wind pressure.
 Deflection meets L/240.

Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp.

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 1 Row @ 3.75" 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 62 plf at 0.00 to 62 plf at 14.33
 BC: From 10 plf at 0.00 to 10 plf at 5.87
 BC: From 20 plf at 5.87 to 20 plf at 13.00
 BC: From 4 plf at 13.00 to 4 plf at 14.33
 BC: 1161 lb Conc. Load at 1.94
 BC: 1158 lb Conc. Load at 3.94
 BC: 2754 lb Conc. Load at 5.87

Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp. Webs Tens. Comp.

JT	Plate	Chord	JT	Plate	Chord
No	Size	Shift	Bite	No	Size
[1]	W3X6	2.50	L 1.25	[3]	W2X4
[4]	W5X6	1.50	R 4.00		S 2.75



Plate Shift Table

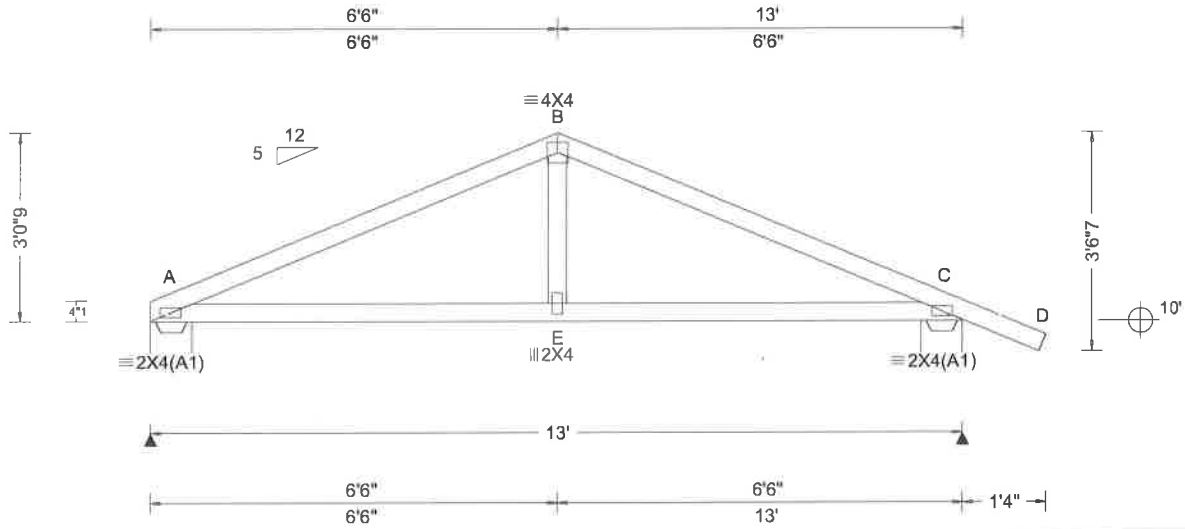
JT	Plate	Chord	JT	Plate	Chord
No	Size	Shift	Bite	No	Size
[1]	W3X6	2.50	L 1.25	[3]	W2X4
[4]	W5X6	1.50	R 4.00		S 2.75

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

#0-278
 06/19/2018

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Loading Criteria (psf) TCLL: 20.00 TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCCL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.013 E 999 240 VERT(TL): 0.040 E 999 180 HORZ(LL): 0.006 E - - HORZ(TL): 0.012 E - - Creep Factor: 2.0 Max TC CSI: 0.374 Max BC CSI: 0.423 Max Web CSI: 0.110 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W					
				A 526 / 51 / 288 / - / 59 / 8.0 C 620 / 71 / 349 / - / - / 8.0 Wind reactions based on MWFRS A Min Brg Width Req = 1.5 C Min Brg Width Req = 1.5 Bearings A & C are a rigid surface. Bearings A & C require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

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

Maximum Top Chord Forces Per Ply (lbs)		Maximum Bot Chord Forces Per Ply (lbs)	
Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	256 - 821	B - C	244 - 823
A - E	702 - 155	E - C	702 - 155



#0-278
 06/19/2018

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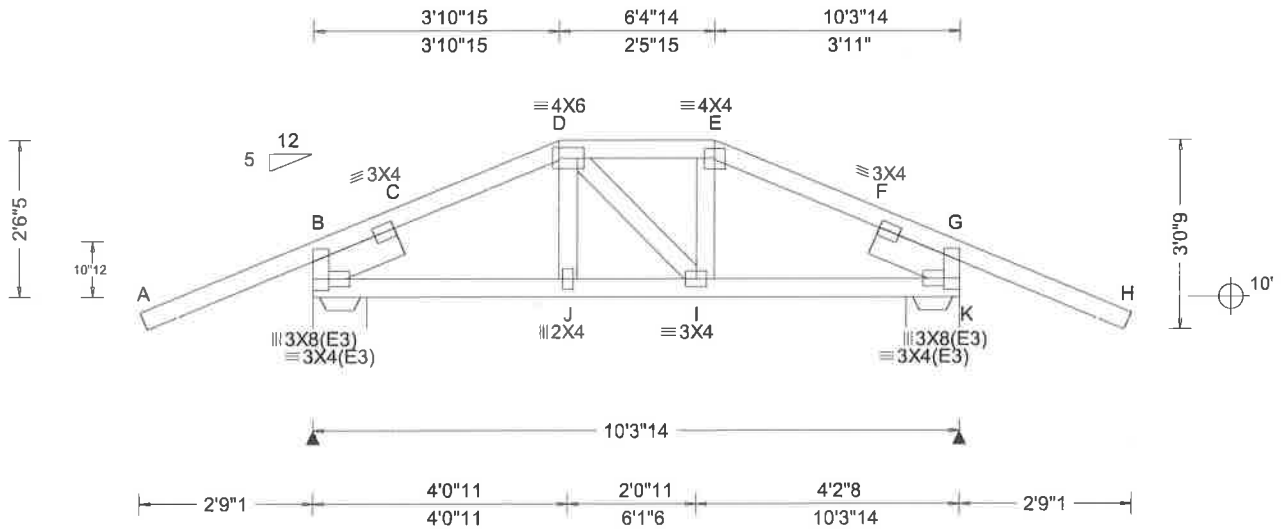


Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: C16

Ply: 1
 Qty: 1

SEQN: 886714 / T19 / HIPS
 FROM: AH

Cust: RR408 JRef: 1WbX4080013
 DrwNo: 169.18.1136.40783
 KM / DF 06/18/2018



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:	139 mph
Enclosure:	Closed
Risk Category:	II
EXP:	B
Mean Height:	15.00 ft
TCDL:	4.2 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 Factors Used:	Yes
FT/RT:	0(0)/0(0)
Plate Type(s):	WAVE

Defl/CSI Criteria

PP Deflection in loc L/defl L/#	
VERT(LL):	0.016 999 240
VERT(TL):	0.045 999 180
HORZ(LL):	0.010 F - -
HORZ(TL):	0.020 F - -
Creep Factor:	2.0
Max TC CSI:	0.705
Max BC CSI:	0.179
Max Web CSI:	0.052
VIEW Ver:	17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	U	/Rw	/Rh	/RL	/W
B	656	/70	/-	/-	/-	/10.3
K	662	/69	/-	/-	/-	/10.3

Wind reactions based on MWFRS
 B Min Brg Width Req = 1.5
 K Min Brg Width Req = 1.5
 Bearings B & K are a rigid surface.
 Bearings B & K require a seat plate.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	17 -572	E - F	0 -545
C - D	0 -535	F - G	16 -583
D - E	0 -464		

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3
 :Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'
 :Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

Special Loads

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

TC:	From 62 plf at -2.75 to 62 plf at 3.91
TC:	From 31 plf at 3.91 to 31 plf at 6.41
TC:	From 62 plf at 6.41 to 62 plf at 13.08
BC:	From 4 plf at -2.75 to 4 plf at 0.00
BC:	From 20 plf at 0.00 to 20 plf at 3.92
BC:	From 10 plf at 3.92 to 10 plf at 6.40
BC:	From 20 plf at 6.40 to 20 plf at 10.32
BC:	From 4 plf at 10.32 to 4 plf at 13.08
BC:	91 lb Conc. Load at 3.92, 6.40
BC:	39 lb Conc. Load at 5.98

Purlins

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

Wind

Wind loads and reactions based on MWFRS.



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 06/19/2018

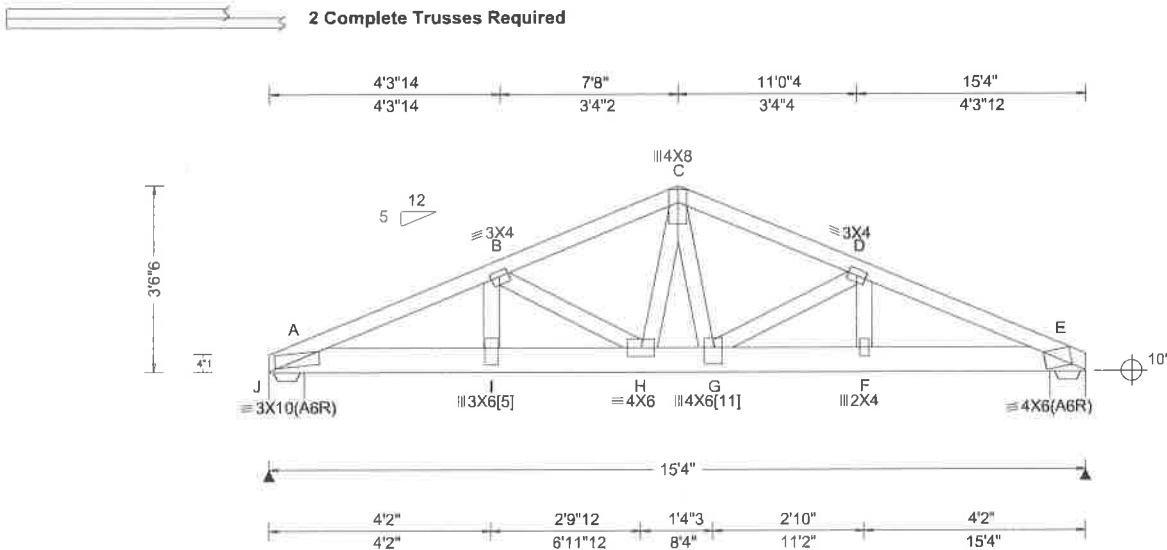
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 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	PP Deflection in loc L/defl L/# VERT(LL): 0.116 H 999 240 VERT(TL): 0.348 H 778 180 HORZ(LL): 0.030 F - - HORZ(TL): 0.060 F - - Creep Factor: 2.0 Max TC CSI: 0.764 Max BC CSI: 0.779 Max Web CSI: 0.688 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W J 5540 / 637 / - / - / - / 8.0 E 3807 / 450 / - / - / - / 8.0 Wind reactions based on MWFRS J Min Brg Width Req = 3.3 E Min Brg Width Req = 2.2 Bearings J & E are a rigid surface. Bearings J & E require a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3

Nailnote
 Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
 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 62 plf at 0.00 to 62 plf at 15.33
 BC: From 20 plf at 0.00 to 20 plf at 2.27
 BC: From 10 plf at 2.27 to 10 plf at 8.20
 BC: From 20 plf at 8.20 to 20 plf at 15.33
 BC: 1488 lb Conc. Load at 2.27, 4.27, 6.27
 BC: 3691 lb Conc. Load at 8.20

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Plate No	Plate Size	Chord Shift	Chord Bite
[5]	W3X6	S	3.75	[11]	W4X6	1.75	R 3.75

Wind
 Wind loads and reactions based on MWFRS.



#0-278
 06/19/2018

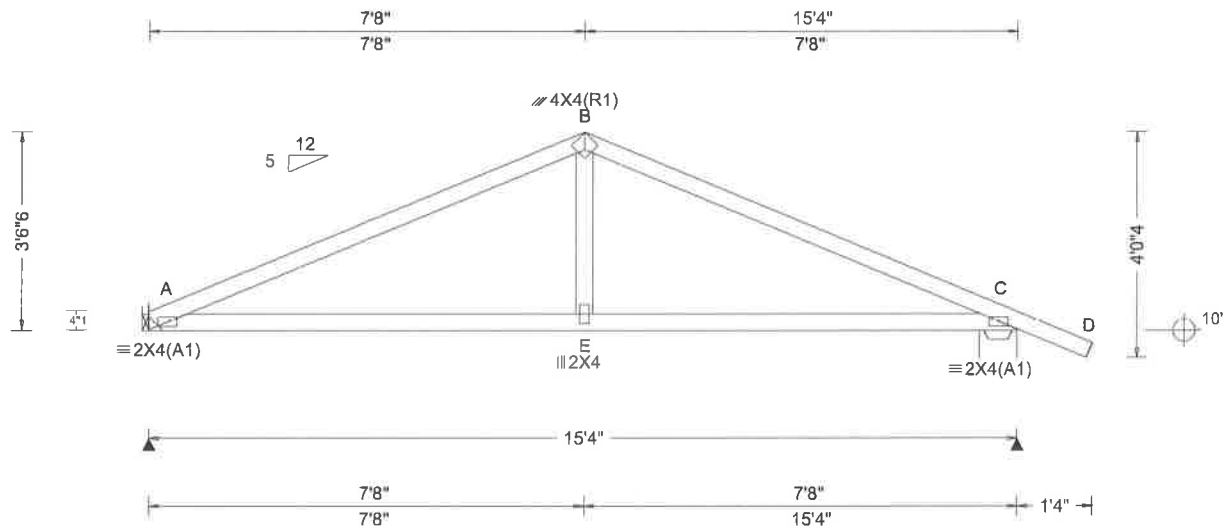
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 Suite 305
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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.021 E 999 240 VERT(TL): 0.063 E 999 180 HORZ(LL): 0.010 E - - HORZ(TL): 0.020 E - - Creep Factor: 2.0 Max TC CSI: 0.562 Max BC CSI: 0.600 Max Web CSI: 0.132 VIEW Ver: 17.02.01A.1114.21	▲ Maxlmm Reactions (lbs) Loc R /U /Rw /Rh /RL /W A 621 /- /339 /- /67 /- C 716 /0 /401 /- /- /8.0 Wind reactions based on MWFRS A Min Brg Width Req = - C Min Brg Width Req = 1.5 Bearing C is a rigid surface. Bearing C requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 277 -994 B - C 261 -996
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Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Hangers / Ties
(J) Hanger Support Required, by others

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



#0-278
06/19/2018

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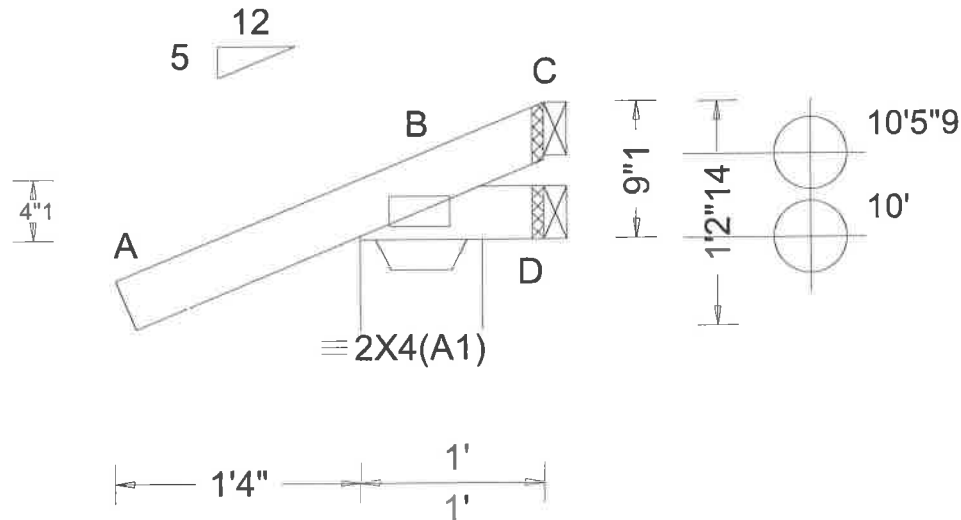
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ANITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

Job Number: 20005
 CHRISTENSEN RES. /CHRISTENSEN RES. -PRIMECO BUILDERS
 Truss Label: CJ1

Ply: 1
 Qty: 14

SEQN: 886688 / T10 / JACK
 FROM: AH

Cust: RR408 JRef: 1WbX4080013
 DrwNo: 169.18.1136.40846
 KM / DF 06/18/2018



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Loc	R	/U	/Rw	/Rh	/RL	/W
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	210	/48	/140	/-	/21	/8.0
TCDL: 10.00	Speed: 139 mph	Pf: NA Ce: NA	VERT(LL): NA	D	7	/9	/13	/-	/-	/1.5
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): NA	C	-34	/34	/20	/-	/-	/1.5
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 D - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: B		HORZ(TL): 0.000 D - -	B Min Brg Width Req = 1.5						
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	D Min Brg Width Req = -						
Soffit: 2.00	TCDL: 4.2 psf		Max TC CSI: 0.182	C Min Brg Width Req = -						
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.021	Bearing B is a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.000	Bearing B requires a seat plate.						
	C&C Dist a: 3.00 ft		VIEW Ver: 17.02.01A.1114.21	Members not listed have forces less than 375#						
	Loc. from endwall: Any									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense

Wind

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

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
 Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



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 06/19/2018

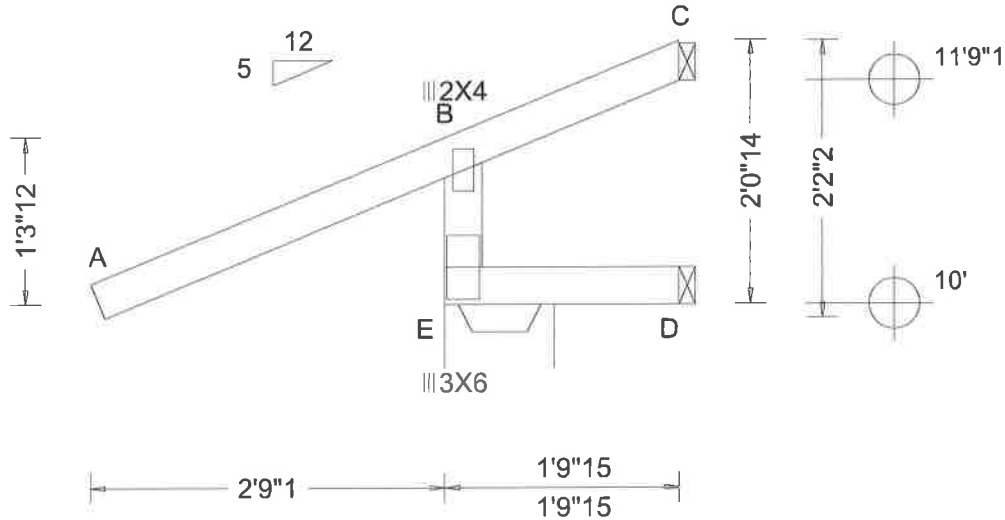
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(TL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.920 Max BC CSI: 0.035 Max Web CSI: 0.222 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W E 384 /111 /271 /- /- /10.3 D 37 /- /23 /- /- /1.5 C -75 /84 /63 /- /42 /1.5 Wind reactions based on MWFRS E Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing E is a rigid surface. Bearing E requires a seat plate. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B - E 746 -366

Lumber

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind

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

Additional Notes

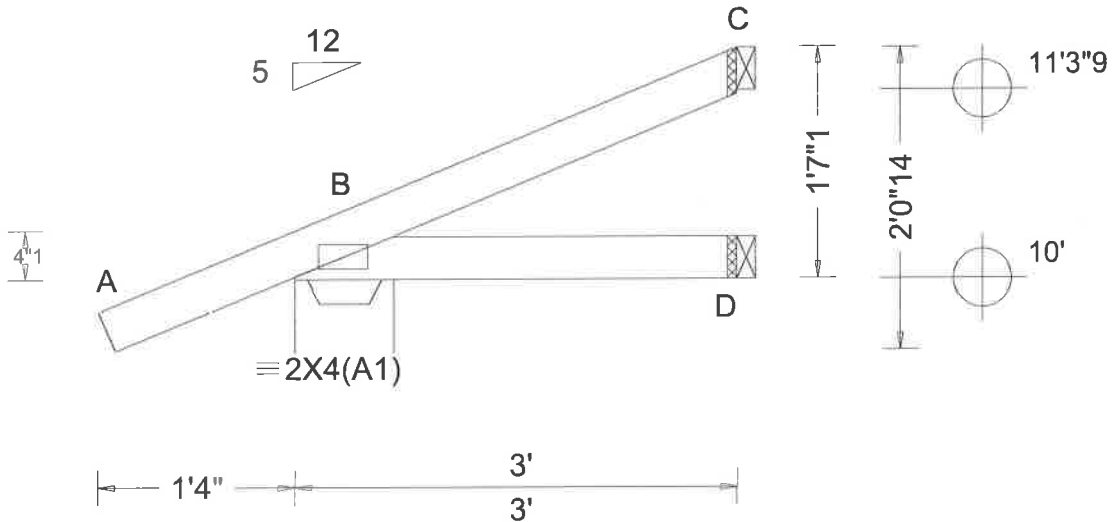
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Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Def/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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.209 Max BC CSI: 0.067 Max Web CSI: 0.000 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W B 236 /29 /150 /- /40 /8.0 D 50 /- /35 /- /- /1.5 C 66 /17 /26 /- /- /1.5 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing B is a rigid plate. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind

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

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



#0-278
06/19/2018

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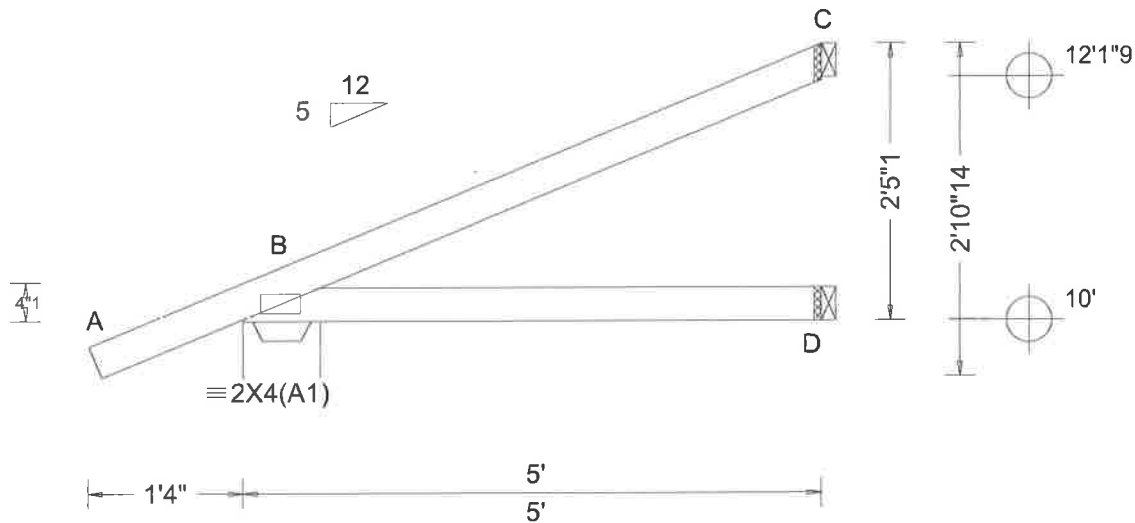
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Suite 305
Orlando FL, 32821



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.008 D - - Creep Factor: 2.0 Max TC CSI: 0.287 Max BC CSI: 0.227 Max Web CSI: 0.000 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th>Loc</th> <th>R</th> <th>/U</th> <th>/Rw</th> <th>/Rh</th> <th>/RL</th> <th>/W</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>308</td> <td>/31</td> <td>/192</td> <td>/-</td> <td>/58</td> <td>/8.0</td> </tr> <tr> <td>D</td> <td>89</td> <td>/-</td> <td>/58</td> <td>/-</td> <td>/-</td> <td>/1.5</td> </tr> <tr> <td>C</td> <td>128</td> <td>/33</td> <td>/54</td> <td>/-</td> <td>/-</td> <td>/1.5</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#	Loc	R	/U	/Rw	/Rh	/RL	/W	B	308	/31	/192	/-	/58	/8.0	D	89	/-	/58	/-	/-	/1.5	C	128	/33	/54	/-	/-	/1.5
Loc	R	/U	/Rw	/Rh	/RL	/W																										
B	308	/31	/192	/-	/58	/8.0																										
D	89	/-	/58	/-	/-	/1.5																										
C	128	/33	/54	/-	/-	/1.5																										

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense

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

Additional Notes
 Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
 Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



#0-278
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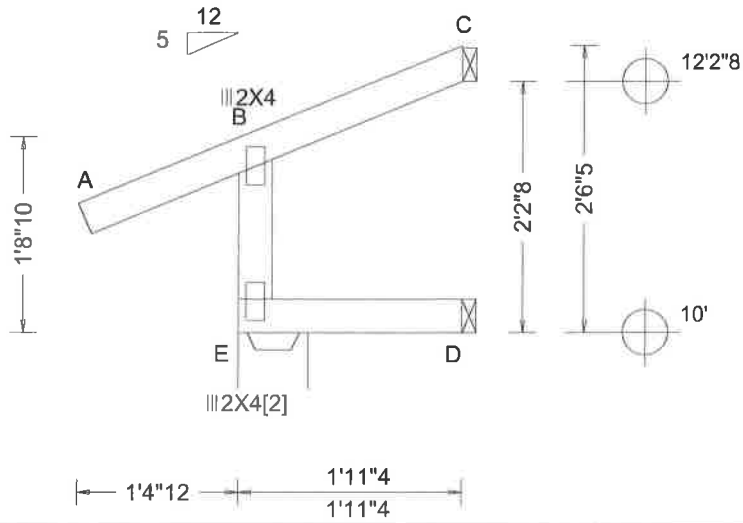
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 AN ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821



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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(TL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.124 Max BC CSI: 0.039 Max Web CSI: 0.062 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W E 198 /42 /136 /- /- /7.2 D 39 /- /24 /- /- /1.5 C 29 /11 /26 /- /30 /1.5 Wind reactions based on MWFRS E Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing E is a rigid surface. Bearing E requires a seat plate. Members not listed have forces less than 375#

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[2]	W2X4	S	2.25				

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

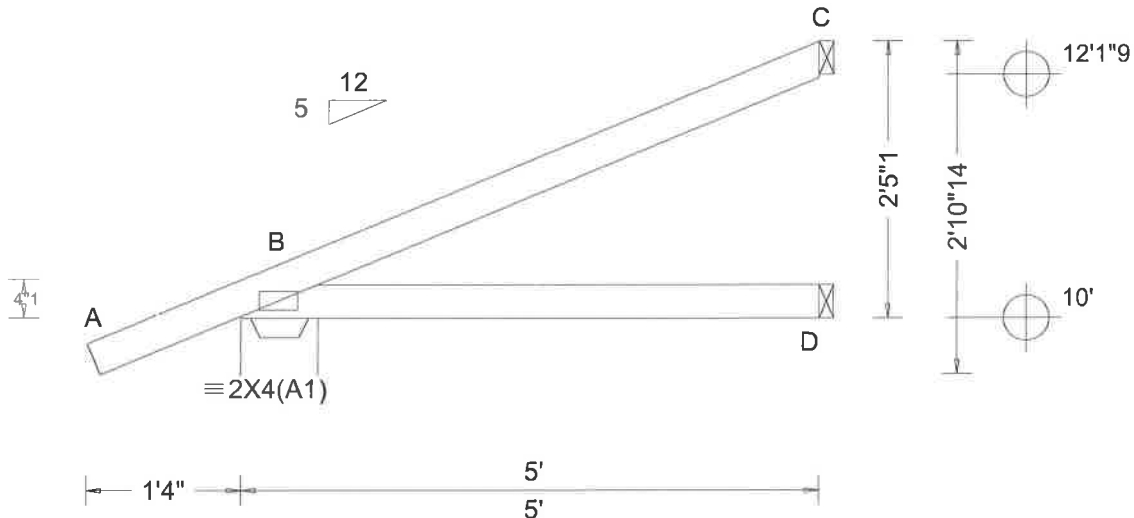
Additional Notes
 Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
 Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



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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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.008 D - - Creep Factor: 2.0 Max TC CSI: 0.287 Max BC CSI: 0.227 Max Web CSI: 0.000 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W B 308 /31 /192 /- /58 /8.0 D 89 /- /58 /- /- /1.5 C 128 /33 /54 /- /- /1.5 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



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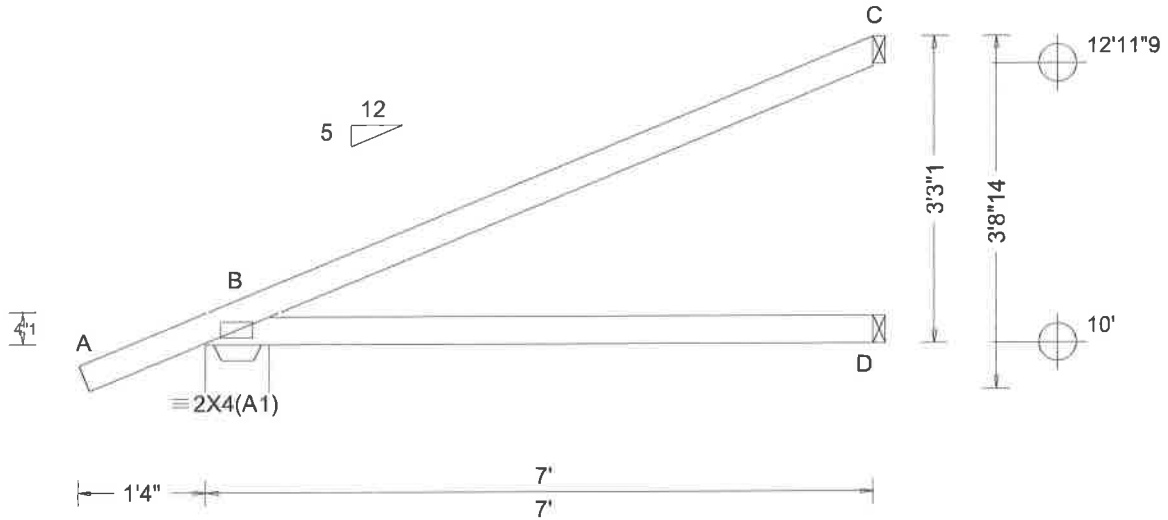
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.013 D - - HORZ(TL): 0.026 D - - Creep Factor: 2.0 Max TC CSI: 0.650 Max BC CSI: 0.467 Max Web CSI: 0.000 VIEW Ver: 17.02.01A.1114.21	Loc R / U / Rw / Rh / RL / W B 386 / 34 / 239 / - / 76 / 8.0 D 128 / - / 84 / - / - / 1.5 C 186 / 47 / 80 / - / - / 1.5 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

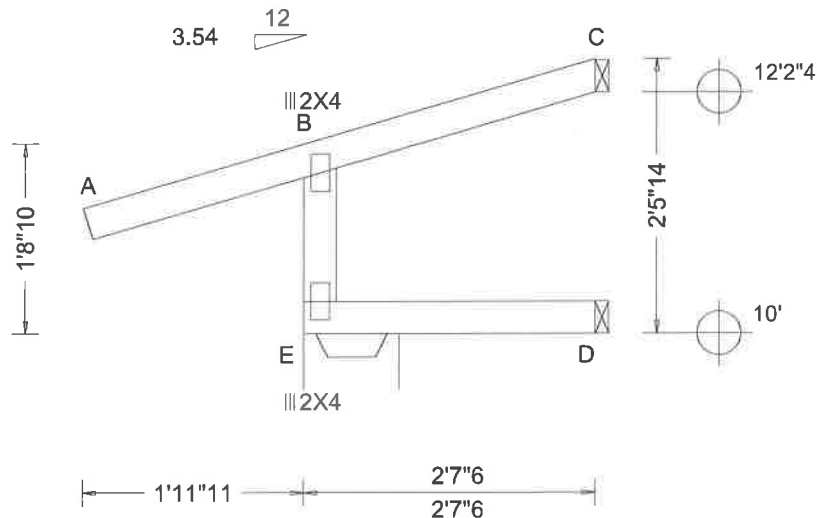
Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



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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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L# VERT(LL): 0.000 B 999 240 VERT(TL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.301 Max BC CSI: 0.103 Max Web CSI: 0.047 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W E 297 /54 /- /- /- /10.3 D 52 /- /15 /- /10 /1.5 C 33 /17 /- /- /23 /1.5 Wind reactions based on MWFRS E Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing E is a rigid plate. Bearing E requires a seat plate. Members not listed have forces less than 375#

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Special Loads
---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 61 plf at -1.97 to 61 plf at 2.62
BC: From 4 plf at -1.97 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 2.62
BC: 37 lb Conc. Load at 1.25

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
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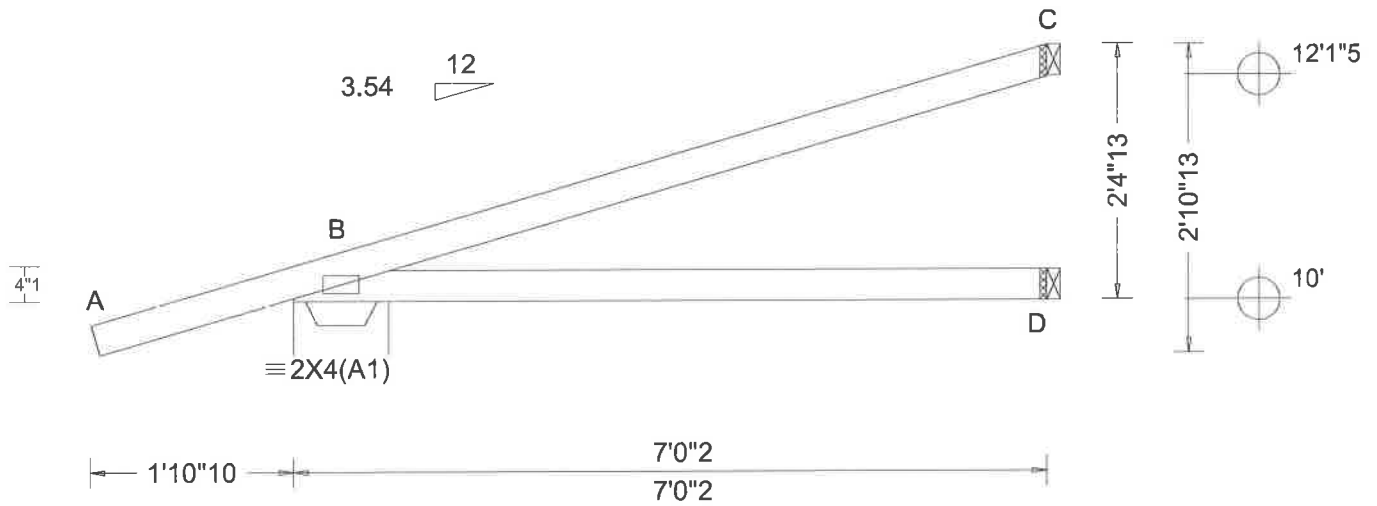
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.008 D - - HORZ(TL): 0.020 D - - Creep Factor: 2.0 Max TC CSI: 0.537 Max BC CSI: 0.457 Max Web CSI: 0.000 VIEW Ver: 17.02.01A.1114.21	Loc R /U /Rw /Rh /RL /W B 271 /81 /- /- /- /10.6 D 125 /- /1 /- /- /1.5 C 77 /16 /- /- /- /1.5 Wind reactions based on MWFRS B Min Brg Width Req = 1.5 D Min Brg Width Req = - C Min Brg Width Req = - Bearing B is a rigid surface. Bearing B requires a seat plate. Members not listed have forces less than 375#

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Special Loads
---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -1.89 to 61 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 7.01
BC: From 0 plf at -1.89 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 7.01
TC: -23 lb Conc. Load at 1.41
TC: 131 lb Conc. Load at 4.24
BC: 13 lb Conc. Load at 1.41
BC: 100 lb Conc. Load at 4.24

Wind
Wind loads and reactions based on MWFRS.

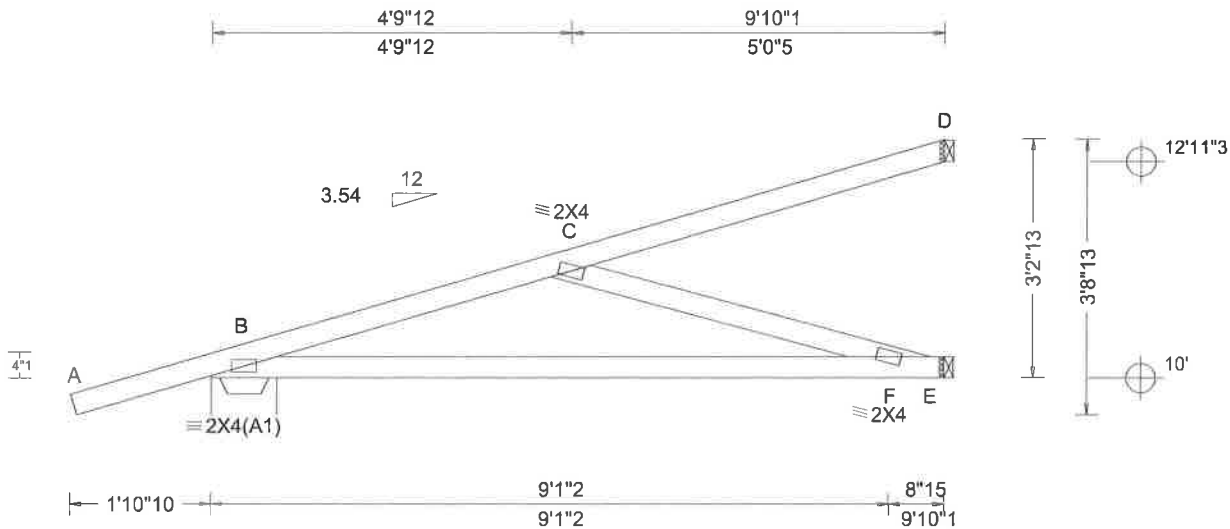
Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



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Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Loading
 Hipjack supports 6-11-8 setback jacks with no webs.

Wind
 Wind loads and reactions based on MWFRS.

Additional Notes
 Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
 Provide (3) 16d common(0.162"x3.5") toe-nails at bottom chord.



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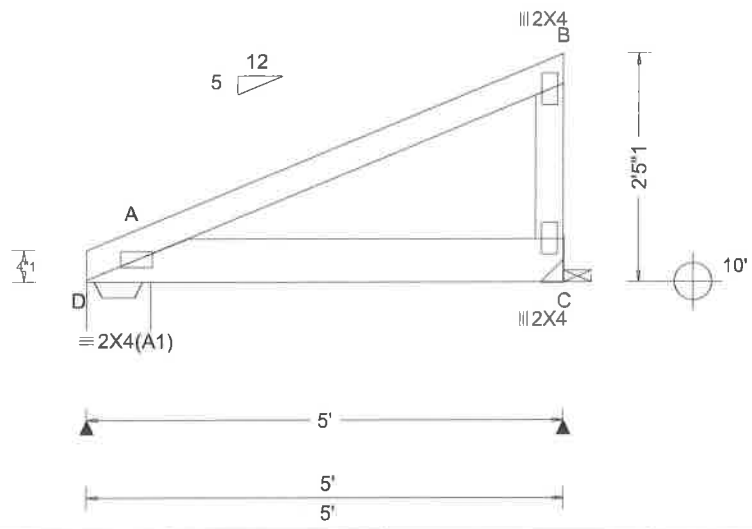
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 Suite 305
 Orlando FL, 32821



Loading Criteria (psf) TCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.013 C - - HORZ(TL): 0.025 C - - Creep Factor: 2.0 Max TC CSI: 0.507 Max BC CSI: 0.581 Max Web CSI: 0.120 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W
				D 679 / 20 / - / - / - / 8.0 C 943 / 20 / - / - / - / - Wind reactions based on MWFRS D Min Brg Width Req = 1.5 C Min Brg Width Req = - Bearing D is a rigid surface. Bearing D requires a seat plate. Members not listed have forces less than 375#

Lumber
 Top chord 2x4 SP #2 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #3

Special Loads
 ——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 62 plf at 0.00 to 62 plf at 5.00
 BC: From 20 plf at 0.00 to 20 plf at 2.14
 BC: From 10 plf at 2.14 to 10 plf at 5.00
 BC: 621 lb Conc. Load at 2.14, 4.14

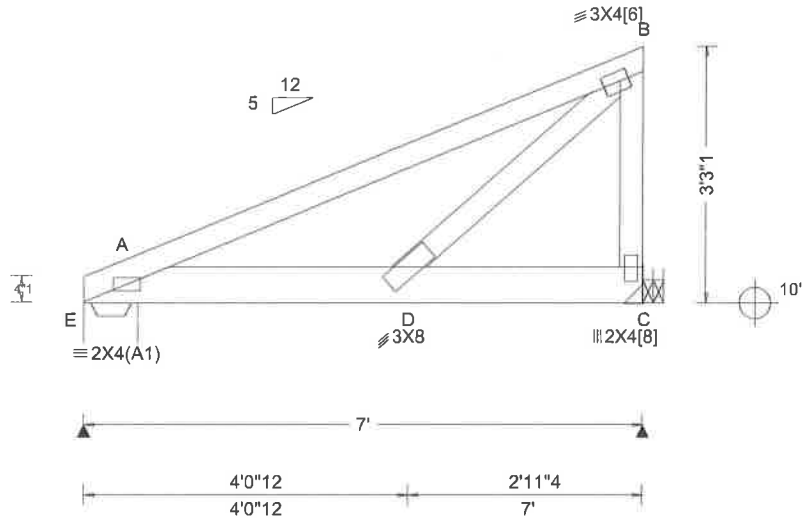
Wind
 Wind loads and reactions based on MWFRS.
 Right end vertical not exposed to wind pressure.



#0-278
 06/19/2018

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





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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.025 D 999 240 VERT(TL): 0.072 D 999 180 HORZ(LL): 0.010 D - - HORZ(TL): 0.019 D - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.887 Max Web CSI: 0.589 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) Loc R / U / Rw / Rh / RL / W E 894 / 121 / - / - / 46 / 8.0 C 1026 / 125 / - / - / - / - Wind reactions based on MWFRS E Min Brg Width Req = 1.5 C Min Brg Width Req = - Bearing E is a rigid surface. Bearing E requires a seat plate. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 177 - 1292
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Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special Loads
---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at 0.00 to 62 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
BC: 478 lb Conc. Load at 1.94, 3.94
BC: 463 lb Conc. Load at 5.94

Plate Shift Table

JT No	Plate Size	Shift	Chord Bite	JT No	Plate Size	Shift	Chord Bite
[6]	W3X4	1.25	R 1.50	[8]	W2X4	S	2.25

Hangers / Ties
(J) Hanger Support Required, by others

Wind
Wind loads and reactions based on MWFRS.
Right end vertical exposed to wind pressure.
Deflection meets L/240.



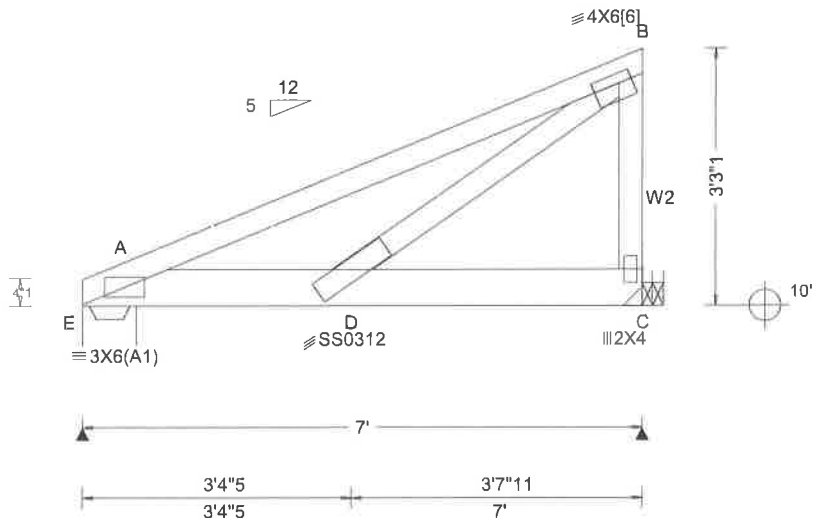
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06/19/2018

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ALPINE
A DIVISION OF ITW BUILDING COMPONENTS
6750 Forum Drive
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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCCL: 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: 139 mph Enclosure: Closed Risk Category: II EXP: B Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist at: 3.00 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 Factors Used: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE, 18SS	Def/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.047 D 999 240 VERT(TL): 0.139 D 880 180 HORZ(LL): -0.015 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.751 Max BC CSI: 0.711 Max Web CSI: 0.750 VIEW Ver: 17.02.01A.1114.21	▲ Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th>Loc</th> <th>R</th> <th>/U</th> <th>/Rw</th> <th>/Rh</th> <th>/RL</th> <th>/W</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>2207</td> <td>/152</td> <td>/-</td> <td>/-</td> <td>/46</td> <td>/8.0</td> </tr> <tr> <td>C</td> <td>1800</td> <td>/44</td> <td>/-</td> <td>/-</td> <td>/-</td> <td>/-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS E Min Brg Width Req = 2.6 C Min Brg Width Req = - Bearing E is a rigid surface. Bearing E requires a seat plate.</p> <p>Members not listed have forces less than 375#</p> Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>119 -3234</td> </tr> </tbody> </table>	Loc	R	/U	/Rw	/Rh	/RL	/W	E	2207	/152	/-	/-	/46	/8.0	C	1800	/44	/-	/-	/-	/-	Chords	Tens.Comp.	A - B	119 -3234
Loc	R	/U	/Rw	/Rh	/RL	/W																							
E	2207	/152	/-	/-	/46	/8.0																							
C	1800	/44	/-	/-	/-	/-																							
Chords	Tens.Comp.																												
A - B	119 -3234																												

Lumber
 Top chord 2x4 SP #1 Dense
 Bot chord 2x6 SP SS
 Webs 2x4 SP #2 Dense :W2 2x4 SP #3:

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.
A - D	2920 -42

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - B	3689 -79	B - C	64 -1253

Special Loads
 ----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 62 plf at 0.00 to 62 plf at 7.00
 BC: From 10 plf at 0.00 to 10 plf at 7.00
 BC: 1097 lb Conc. Load at 1.06
 BC: 1096 lb Conc. Load at 3.06
 BC: 1312 lb Conc. Load at 5.06

Plate Shift Table

JT No	Plate Size	Chord Shift	JT Bite	Plate No	Plate Size	Chord Shift	Chord Bite
[6]	W4X6	1.90 R	1.50				

Wind
 Wind loads and reactions based on MWFRS.
 Right end vertical exposed to wind pressure.
 Deflection meets L/240.



#0-278
 06/19/2018

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ALPINE
 ANITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821

Gable Stud Reinforcement Detail
 ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Dr: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	Gable Vertical Spacing	2x4 Vertical Species	Brace No. Braces	(1) 1x4 'L' Brace ■ (2) 2x4 'L' Brace ■■ (3) 2x4 'L' Brace ■■■ (4) 2x6 'L' Brace ■■■■ (5) 2x6 'L' Brace ■■■■■												
				Group A		Group B		Group A		Group B		Group A		Group B		
				#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	
24" o.c.	SPF	#1 / #2	#3	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"		
				4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	
				4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	
		HF	Standard	4' 1"	3' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"	
				#1	4' 6"	7' 4"	7' 8"	8' 8"	9' 0"	10' 4"	10' 9"	13' 8"	14' 0"	14' 0"	14' 0"	
				#3	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"	
	SP	DFL	Standard	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"	14' 0"	
				#1 / #2	4' 0"	3' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"	14' 0"
				#3	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SPF	#1 / #2	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
				#3	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SP	DFL	Standard	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
			#1	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	SPF	#1 / #2	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
			#3	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
SP	DFL	Standard	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
			#1	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	SPF	#1 / #2	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
			#3	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	5' 1"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
SP	DFL	Standard	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
			#1	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	SPF	#1 / #2	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
			#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	

Bracing Group Species and Grades:

Group A:

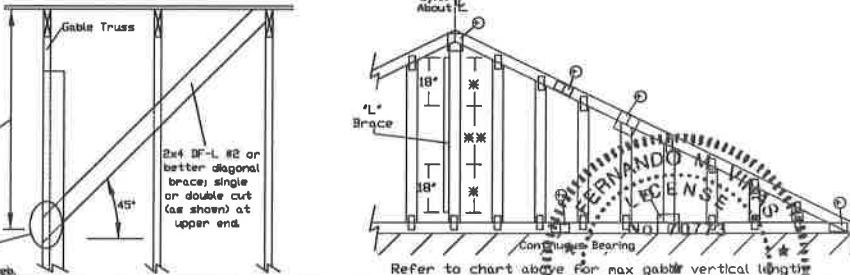
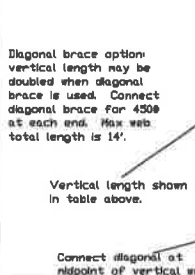
SPF Pine-Fir	SPF Hem-Fir
#1 / #2 Standard	#2 Stud
#3 Stud	#3 Standard

Group B:

Douglas Fir-Larch	Southern Pine
#1 Stud	#1 Standard
#2 Standard	#2 Stud

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

Gable Truss Detail Notes:
 Wind Load deflection criterion is L/240.
 Provide uplift connections for SS pif over continuous bearing (3 psf TO Dead Load).
 Gable end supports load from 4' 0" outliners with 2' 0" overhang, or 12" plywood overhang.



Attach 'L' braces with 10d (0.188"x3.0" min) nails

- * For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
- ** For (2) 'L' brace: space nails at 3' o.c. in 18' end zones and 5' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	2X4

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

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

13723 Riverport Drive
 Suite 200
 Maryland Heights, MO 63043

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 ALPINE: www.alpine.com TPI: www.tpi.org SBCI: www.sbcitruss.com ICCI: www.icci.org

#0-278 06/19/2018

REF	ASCE7-10-GABI4015
DATE	10/01/14
DRWG	A14015ENC101014
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0'

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-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

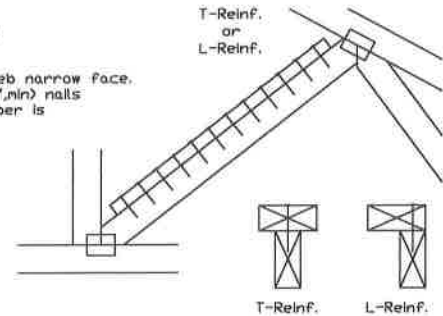
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(1)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(1)

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.

(1) Center scab on wide face of web. Apply (1) scab to each face of web.

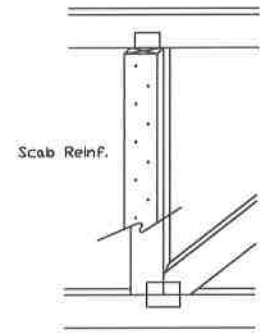
T-Reinforcement
or
L-Reinforcement:

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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 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of ICCI Building Component Safety Information, by ITI and SB00 for safety practices prior to performing these functions. Installers shall provide temporary bracing per ICCI. 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 ICCI sections III, IV or VII, 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 SB007 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 & 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 the 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 ITI: www.tpi1.org SB00: www.sbciindustry.org ICCI: www.iccif.org

10-278-06(10/2013)

TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG BRCLBSUB1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

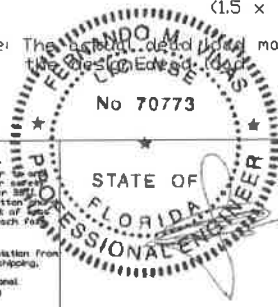
L = Span of Truss (Inches)
D = Depth of Truss at Deflection Point (Inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75' (horizontal)	1.25' (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



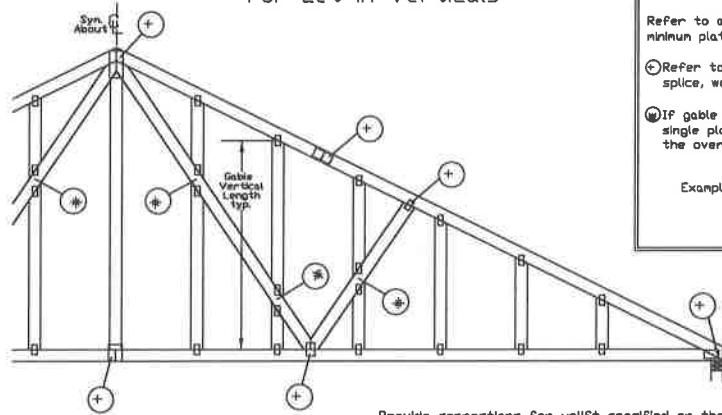
13733 Riverport Drive
Suite 200
Maryland Heights, MO 63043

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 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ICCI Gliding Component Safety Information, by TPI and ICCI for safe practices prior to performing these functions. Installers shall provide temporary bracing per SPS. 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 top chord shall have bracing installed per ICCI sections B3, B7 or B10, as applicable. Apply plates to each end of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawing 150A-2 for standard plate positions.
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 ALPINE: www.alpineitw.com TPI: www.tpi.org ICCI: www.icciindustry.org ID: www.iccif.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

#1.278 00/19/2015

Gable Detail For Let-in Verticals

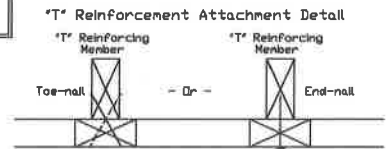


Gable Truss Plate Sizes

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

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

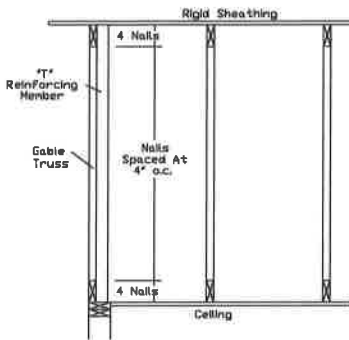
Example:



Provide connections for uplift specified on the engineered truss design.

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

Toenailed Nails:
 10d Common (0.148"x3",min) Toenails at 4" o.c. plus
 (4) toenails in the top and bottom chords.



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

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

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

Web Length Increase w/ 'T' Brace

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

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

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
 A13015051014, A12015051014, A11015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
 A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



ALPINE
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 ALPINE www.alpinetw.com TPI www.tpinet.org SBCA www.sbcindustry.org ICCI www.iccisf.org

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 70773

#0-278 06/19/2018

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

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118