

**Columbia County New Building Permit Application**

<b>For Office Use Only</b>		Application # <u>44326/44408</u>	Date Received <u>1/13</u>	By <u>MB</u>	Permit # <u>39210/39211</u>
Zoning Official <u>LW/LH</u>	Date <u>1-14-20</u>	Flood Zone <u>X</u>	Land Use <u>Ag</u>	Zoning <u>A-3</u>	
FEMA Map # _____	Elevation _____	MFE <u>1' above road</u>	River _____	Plans Examiner <u>TC</u>	Date <u>1-21-20</u>
Comments <u>SPC 2001 approved 1-14-20</u>					
<input checked="" type="checkbox"/> NOC	<input checked="" type="checkbox"/> EH	<input type="checkbox"/> Deed or PA	<input checked="" type="checkbox"/> Site Plan	<input type="checkbox"/> State Road Info	<input checked="" type="checkbox"/> Well letter
<input type="checkbox"/> Dev Permit # _____	<input type="checkbox"/> In Floodway	<input checked="" type="checkbox"/> Letter of Auth. from Contractor		<input type="checkbox"/> F W Comp. letter	<input type="checkbox"/> Parent Parcel # <u>01729-000</u>
<input type="checkbox"/> Owner Builder Disclosure Statement		<input type="checkbox"/> Land Owner Affidavit	<input type="checkbox"/> Ellisville Water	<input checked="" type="checkbox"/> App Fee Paid	<input checked="" type="checkbox"/> Sub VF Form

**Septic Permit No** 20-0019 **OR** City Water ☐ Fax 386-758-8920

**Applicant (Who will sign/pickup the permit)** SUZANNE STEWART Phone 386-752-8653

**Address** 465 NW ORANGE STREET, LAKE CITY, FL 32055

**Owners Name** KEVIN PARNELL Phone 386-697-6915

**911 Address** 1857 NW JAKE GLN, LAKE CI, FL 32055

**Contractors Name** BRYAN ZECHER Phone 386-752-8653

**Address** 465 NW ORANGE STREET, LAKE CITY, FL 32055

**Contractor Email** ZECHEROFFICE@GMAIL.COM \*\*\*Include to get updates on this job.

**Fee Simple Owner Name & Address** N/A

**Bonding Co. Name & Address** N/A

**Architect/Engineer Name & Address** SABO, 235 9TH AVE, JAX BEACH, FL 32250

**Mortgage Lenders Name & Address** DRUMMOND COMMUNITY BANK, 1627 N. YOUNG BLVD, CHIEFLAND, FL 32626

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

**Property ID Number** 23-2S-16-01729-003 **Estimated Construction Cost** \$368,000.

**Subdivision Name** \_\_\_\_\_ **Lot** \_\_\_\_\_ **Block** \_\_\_\_\_ **Unit** \_\_\_\_\_ **Phase** \_\_\_\_\_

**Driving Directions from a Major Road** Take US 41 Main Blvd, turn right onto NW Falling Creek Rd. turn left onto NW Jake Gln to the jobsite.

**Construction of** NEW HOME \_\_\_\_\_ **Commercial** OR ☒ **Residential**

**Proposed Use/Occupancy** RESIDENTIAL **Number of Existing Dwellings on Property** \_\_\_\_\_

**Is the Building Fire Sprinkled?** \_\_\_\_\_ **If Yes, blueprints included** \_\_\_\_\_ **Or Explain** \_\_\_\_\_

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

**Actual Distance of Structure from Property Lines - Front** 80' **Side** 70' **Side** 70' **Rear** 94

**Number of Stories** 1 **Heated Floor Area** 2538 **Total Floor Area** 3843 **Acreage** 1.210

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

**Columbia County Building Permit Application**

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

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

**TIME LIMITATIONS OF APPLICATION :** An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

**TIME LIMITATIONS OF PERMITS:** Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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

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

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

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

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

Kevin Parnell

Print Owners Name



Owners Signature

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

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

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

Contractor's Signature

Contractor's License Number CBC1257343  
Columbia County  
Competency Card Number 1624

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 13<sup>th</sup> day of January 2020.

Personally known ☒ or Produced Identification Flou

SEAL:

State of Florida Notary Signature (For the Contractor)

# SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #

4326

JOB NAME

**THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED**

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

**NOTE:** It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

Use website to confirm licenses: <http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx>

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

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

<b>ELECTRICAL</b> <input checked="" type="checkbox"/>	Print Name <u>Marc Matthews</u> Signature <u>[Signature]</u> Company Name: <u>Matthews Electric</u> License #: <u>EC13005459</u> Phone #: <u>386-344-2029</u>	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>MECHANICAL/VC</b> <input checked="" type="checkbox"/>	Print Name <u>Anthony Franks</u> Signature <u>[Signature]</u> Company Name: <u>Franks &amp; Lane Heating and Air</u> License #: <u>CAC1818631</u> Phone #: <u>386-466-7514</u>	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>PLUMBING/GAS</b> <input checked="" type="checkbox"/>	Print Name <u>Cody Barrs</u> Signature <u>[Signature]</u> Company Name: <u>Barrs Plumbing</u> License #: <u>CFC1427145</u> Phone #: <u>386-623-0509</u>	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>ROOFING</b> <input checked="" type="checkbox"/>	Print Name <u>Robert Oakes</u> Signature <u>[Signature]</u> Company Name: <u>Oakes Roofing &amp; Construction</u> License #: <u>CCC 9328699</u> Phone #: <u>386-364-4838</u>	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>SHEET METAL</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>FIRE SYSTEM/SPRINKLER</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>SOLAR</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>STATE SPECIALTY</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	<b>Need</b> <input type="checkbox"/> Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE



**Columbia County Property Appraiser**

updated: 11/27/2019

**Parcel: 23-2S-16-01729-003****2020 Working Values**

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

&lt;&lt; Next Lower Parcel

Next Higher Parcel &gt;&gt;

2019 TRIM (pdf)

Interactive GIS Map

Print

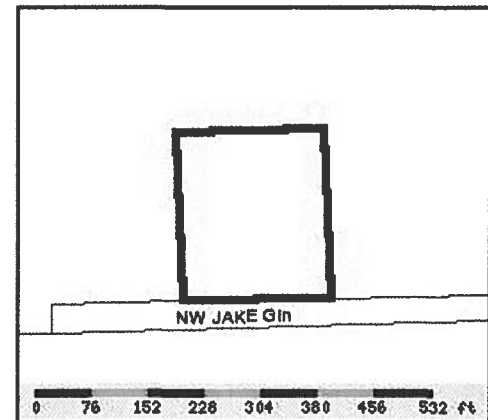
**Owner & Property Info**

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Search Result: 2 of 12

Next &gt;&gt;

<b>Owner's Name</b>	PARNELL KEVIN ADARRYL		
<b>Mailing Address</b>	1724 NW JAKE GLN LAKE CITY, FL 32055		
<b>Site Address</b>	NW JAKE GLN		
<b>Use Desc. (code)</b>	VACANT (000000)		
<b>Tax District</b>	3 (County)	<b>Neighborhood</b>	23216
<b>Land Area</b>	1.210 ACRES	<b>Market Area</b>	03
<b>Description</b>	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction. COMM SE COR OF SEC, W 708.42 FT FOR POB, CONT W 200 FT, N 2 DEG W 264 FT, E 200 FT, S 2 DEG E 264 FT TO POB. DC 1311-1969, QC 1311-1970, QC 1397-472		

**Property & Assessment Values****2019 Certified Values**

There are no 2019 Certified Values for this parcel

**2020 Working Values**

( ...Hide Values)

<b>Mkt Land Value</b>	cnt: (0)	\$8,797.00
<b>Ag Land Value</b>	cnt: (1)	\$0.00
<b>Building Value</b>	cnt: (0)	\$0.00
<b>XFOB Value</b>	cnt: (0)	\$0.00
<b>Total Appraised Value</b>		\$8,797.00
<b>Just Value</b>		\$8,797.00
<b>Class Value</b>		\$0.00
<b>Assessed Value</b>		\$8,797.00
<b>Exempt Value</b>		\$0.00
<b>Total Taxable Value</b>	Cnty: \$8,797	Other: \$8,797   Schl: \$8,797

**NOTE: 2020 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.**

**Sales History**

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
10/24/2019	1397/474	QC	V	U	11	\$0.00
10/19/2019	1397/472	QC	V	U	11	\$0.00

**Building Characteristics**

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

**Extra Features & Out Buildings**

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

**Land Breakdown**

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.21 AC	1.00/1.00/1.00/1.00	\$7,270.97	\$8,797.00

Columbia County Property Appraiser

updated: 11/27/2019

&lt;&lt; Prev

2 of 12

Next &gt;&gt;

**DISCLAIMER**





## COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM REQUEST FORM

The Board of County Commissioners meets the 1st and 3rd Thursday of each month at 5:30 p.m. in the Columbia County School Board Administrative Complex Auditorium, 372 West Duval Street, Lake City, Florida 32055. All agenda items are due in the Board's office one week prior to the meeting date.

Today's Date: 1/10/2020 Meeting Date: 1/16/2020

Name: Liza Williams Department: Building And Zoning

Division Manager's Signature:

A handwritten signature in blue ink, appearing to be "Liza Williams", written over a light blue horizontal line.

### 1. Nature and purpose of agenda item:

Special Family Lot Application SFLP2001 - Larry and Victoria Parnell deeding 1.21 acres to their son Kevin Parnell.

### 2. Recommended Motion/Action:

Recommend Approval for SFLP 2001

### 3. Fiscal impact on current budget.

This item has no effect on the current budget.

THIS ITEM WAS APPROVED WITHOUT EXCEPTION BY THE BOARD OF  
COUNTY COMMISSIONERS ON  
1/16/2020

## **FAMILY RELATIONSHIP AFFIDAVIT**

STATE OF FLORIDA  
COUNTY OF COLUMBIA

BEFORE ME the undersigned Notary Public personally appeared, Larry + Victoria Parnell, the Owner of the parent parcel which has been subdivided for Kevin Parnell, the Immediate Family Member of the Owner, and which is intended for the Immediate Family Members primary residence use. The Immediate Family Member is related to the Owner as son. Both individuals being first duly sworn according to law, depose and say:

1. Affiant acknowledges Immediate Family Member is defined as parent, grandparent, step-parent, adopted parent, sibling, child, step-child, adopted child or grandchild.
2. Both the Owner and the Immediate Family Member have personal knowledge of all matters set forth in this Affidavit.
3. The Owner holds fee simple title to certain real property situated in Columbia County, and more particularly described by reference with the Columbia County Property Appraiser Parent Tract Tax Parcel No. 01729-000.
4. The Immediate Family Member holds fee simple title to certain real property divided from the Owners' parent parcel situated in Columbia County and more particularly described by reference to the Columbia County Property Appraiser Tax Parcel No. 01729-003.
5. No person or entity other than the Owner and Immediate Family Member to whom permit is being issued, including persons residing with the family member claims or is presently entitled to the right of possession or is in possession of the property, and there are no tenancies, leases or other occupancies that affect the property.
6. This Affidavit is made for the specific purpose of inducing Columbia County to recognize a family division for an Immediate Family Member being in compliance with the density requirements of the Columbia County's Comprehensive Plan and Land Development Regulations (LDR's).
7. This Affidavit and Agreement is made and given by Affiants with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

We Hereby Certify that the facts represented by us in this Affidavit are true and correct and we accept the terms of the Agreement and agree to comply with it.

Larry Parnell  
Victoria Parnell  
Owner

Ken Parnell  
Immediate Family Member

Larry Parnell  
Typed or Printed Name  
Victoria Parnell

Kevin Parnell  
Typed or Printed Name

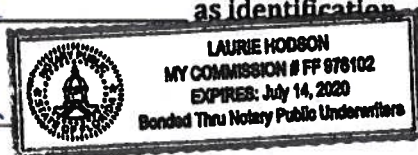
Subscribed and sworn to (or affirmed) before me this 9 day of January, 2020,  
by Larry & Victoria Parnell (Owner) who is personally known to me or has produced  
fe DL as identification.

[Signature]  
Notary Public



Subscribed and sworn to (or affirmed) before me this 9 day of January, 2020,  
by Kevin Parnell (Family Member) who is personally known to me or has  
produced fe DL as identification.

[Signature]  
Notary Public



APPROVED:  
COLUMBIA COUNTY, FLORIDA

By: Liza Williams

Name: Liza Williams

Title: Planning Technician





Legend

- 2018 Flood Zones
- 0.2 PCT ANNUAL CHANCE
  - A
  - AE
  - AH
- 2018Aerials
- Parcels
- SRWMD Wetlands
- Roads
- Roads
  - others
  - Dirt
  - Interstate
  - Main
  - Other
  - Paved
  - Private
- LidarElevations



Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Jan 14 2020 10:34:03 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 23-2S-16-01729-000  
Owner: PARNELL SAMUEL, CAROLYN,  
Subdivision:  
Lot:  
Acres: 36.36182  
Deed Acres: 36.36 Ac  
District: District 1 Ronald Williams  
Future Land Uses: Agriculture - 3  
Flood Zones: A,  
Official Zoning Atlas: A-3

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance and update.

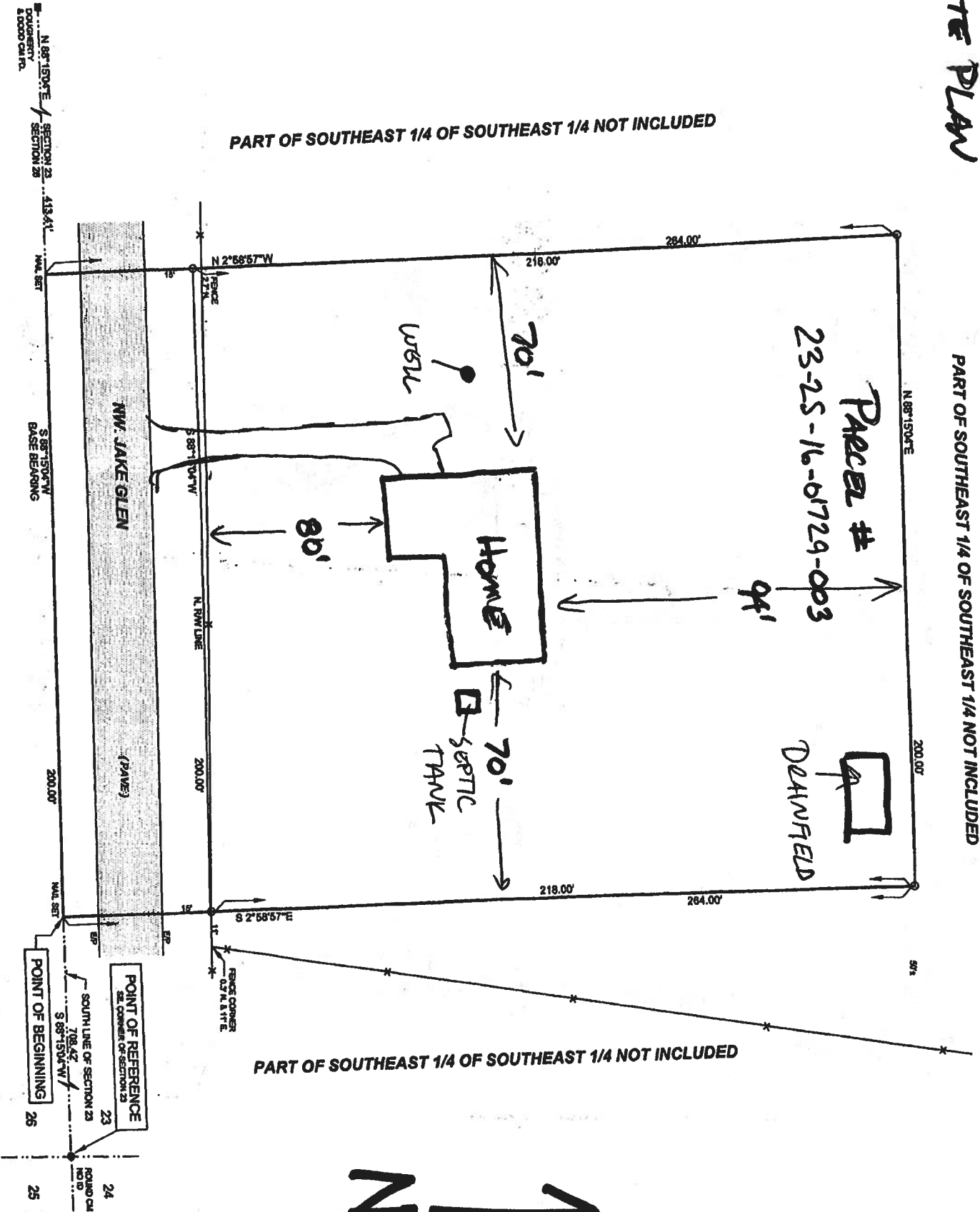
# PANEL PROPOSED SITE PLAN

PART OF SOUTHEAST 1/4 OF SOUTHEAST 1/4 NOT INCLUDED

PART OF SOUTHEAST 1/4 OF SOUTHEAST 1/4 NOT INCLUDED

PART OF SOUTHEAST 1/4 OF SOUTHEAST 1/4 NOT INCLUDED

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

# LETTER OF AUTHORIZATION TO SIGN FOR PERMITS

I, Bryan Zecher (license holder name), licensed qualifier  
for Bryan Zecher Homes (company name), do certify that

the below referenced person(s) listed on this form is/are contracted/hired by me, the license holder, or is/are employed by me directly or through an employee leasing arrangement; or, is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said person(s) is/are under my direct supervision and control and is/are authorized to purchase permits, call for inspections and sign on my behalf.

Printed Name of Person Authorized	Signature of Authorized Person
1. <b>Suzanne Stewart</b>	1. <i>Suzanne Stewart</i>
2.	2.
3.	3.
4.	4.
5.	5.

I, the license holder, realize that I am responsible for all permits purchased, and all work done under my license and fully responsible for compliance with all Florida Statutes, Codes, and Local Ordinances. I understand that the State and County Licensing Boards have the power and authority to discipline a license holder for violations committed by him/her, his/her agents, officers, or employees and that I have full responsibility for compliance with all statutes, codes and ordinances inherent in the privilege granted by issuance of such permits.

If at any time the person(s) you have authorized is/are no longer agents, employee(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

\_\_\_\_\_  
License Holders Signature (Notarized)      CBC 1257343      1/6/2020  
License Number      Date

NOTARY INFORMATION:      COLUMBIA  
STATE OF: Florida      COUNTY OF: \_\_\_\_\_

The above license holder, whose name is BRYAN ZECHER,  
personally appeared before me and is known by me or has produced identification  
(type of I.D.) \_\_\_\_\_ on this 14th day of December, 2020.

*Suzanne Stewart*  
\_\_\_\_\_  
NOTARY'S SIGNATURE

(Seal/Stamp)  
**SUZANNE STEWART**  
Commission # GG 932386  
Expires November 17, 2023  
Bonded Thru Budget Notary Services



This Instrument Prepared By:  
Michael H. Harrell  
Abstract Trust Title, LLC  
283 NW Cole Ter  
Lake City, FL 32055  
ATT 4-9398

### NOTICE OF COMMENCEMENT

#### TO WHOM IT MAY CONCERN:


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

1. Description of Property: Part of the Southeast quarter (SE 1/4) of the Southeast quarter (SE 1/4) of Section 23, Township 2 South, Range 16 East, being more particularly described as follows: For point of reference commence at the SE corner of said section 23, thence run South 88°15'04" West along the South line of said Section 23, a distance of 708.42 feet to the Point of Beginning; thence continue South 88°15'04" West along said South line, a distance of 200.00 feet; thence run North 2°58'57" West, a distance of 264.00 feet; thence run North 88°15'04" East, a distance of 200.00 feet; thence run South 2°58'57" East, a distance of 264.00 feet to the Point of Beginning.
2. General Description of Improvement: Construction of Dwelling
3. Owner Information:
  - a. Name and Address: Kevin Adarryl Pamell, 1724 NW Jake Gin, Lake City, FL 32055
  - b. Interest in property: Fee Simple
  - c. Name and address of fee simple title holder (if other than Owner): NONE
4. Contractor (name and address): Bryan Zecher Construction, Inc. DBA Bryan Zecher Homes, Inc., at PO Box 815, Lake City, FL 32055
5. Surety:
  - a. Name and Address: N/A
  - b. Amount of Bond: N/A
6. LENDER: Drummond Community Bank  
1627 N. Young Blvd  
Chiefland, FL 32626
7. Persons within the State of Florida designated by Owner upon whom notices of other documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
8. In addition to himself, Owner designates Drummond Community Bank at 1627 N. Young Blvd, Chiefland, FL 32626, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.
9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).


WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1 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 NEED TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

**\*Owner is used for singular or plural as context requires.**

Signed, sealed and delivered in the presence:

  
WITNESS Wendy E. Shaver

  
Kevin Adarryl Parnell

  
WITNESS Michael H. Harrell

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Before me, personally appeared Kevin Adarryl Parnell, to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 20 day of December, 2019.

(SEAL)

  
NOTARY PUBLIC  
My Commission Expires:



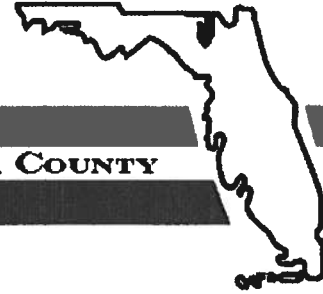
Michael H. Harrell  
NOTARY PUBLIC  
STATE OF FLORIDA  
Comm# GG095249  
Expires 12/31/2021

Verification Required to Section 92.525, Florida Statutes

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

  
Kevin Adarryl Parnell

District No. 1 - Ronald Williams  
District No. 2 - Rocky Ford  
District No. 3 - Bucky Nash  
District No. 4 - Toby Witt  
District No. 5 - Tim Murphy



**BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY**

**Address Assignment and Maintenance Document**

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

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Date/Time Issued: **1/3/2020 9:34:15 PM**  
Address: **1857 NW JAKE Gln**  
City: **LAKE CITY**  
State: **FL**  
Zip Code **32055**

---

Parcel ID **01729-003**

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REMARKS: Address for proposed structure on parcel.

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

Address Issued By: **Signed:/ Matt Crews**

---

Columbia County GIS/911 Addressing Coordinator

**COLUMBIA COUNTY  
911 ADDRESSING / GIS DEPARTMENT**

**263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125  
Email: [gis@columbiacountyfla.com](mailto:gis@columbiacountyfla.com)**



**PAT LYNCH**  
**LYNCH DRILLING CORP**  
**P O Box 934**  
**Branford, FL 32008**  
**(386)935-1076**

**DATE** 1-7-20

**CUSTOMER** Kevin Parnell  
1857 NW Lake Glen  
Lake City, FL 32055

**LOCATION** Part 23-2S-16-01729-003

**WE WILL CONSTRUCT A 4" WATER WELL COMPLETE WITH 4" WATER WELL STEEL CASING, 1HP SUBMERSIBLE PUMP WITH 1 1/4" DROP PIPE, AND AN 85 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN).**

**WELL WILL BE COMPLETE AT THE WELL SITE, WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.**

**ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND/OR CONTRACTOR PRIOR TO COMMENSMENT OF THE INDIVIDUAL JOB.**

**THANK YOU**

**NOT RESPONSIBLE FOR THE QUALITY OF WATER**



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

PERMIT NO. 20-0019  
DATE PAID: 11/8/20  
FEE PAID: 310.00  
RECEIPT #: 1442914

APPLICATION FOR:

☒ New System    ☐ Existing System    ☐ Holding Tank    ☐ Innovative  
☐ Repair    ☐ Abandonment    ☐ Temporary    ☐

APPLICANT: Kevin Parnell

AGENT: ROCKY FORD, A & B CONSTRUCTION

TELEPHONE: 386-497-2311

MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038

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

PROPERTY INFORMATION

LOT: NA BLOCK: NA SUB: NA PLATTED: \_\_\_\_\_

PROPERTY ID #: 23-2S-16-01729-003 ZONING: \_\_\_\_\_ I/M OR EQUIVALENT: [ Y / N ]

PROPERTY SIZE: 1.210 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC [ ] <=2000GPD [ ] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / ☒ N ] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: NW Jake Glen, Lake City, FL

DIRECTIONS TO PROPERTY: Head W on NE Franklin St. toward NE Calhoun Ave, TR onto US-41 N, TR onto NW Falling Creek Rd, cont. straight onto NW Falling Creek Rd, TL onto NW Jake Glen

BUILDING INFORMATION

☒ RESIDENTIAL    ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
---------	-----------------------	-----------------	--------------------	--

1	SF Residential	3	2538	
2				
3				

[ ] Floor/Equipment Drains    [ ] Other (Specify) \_\_\_\_\_

SIGNATURE: William D. Bishop II DATE: 1/7/2020

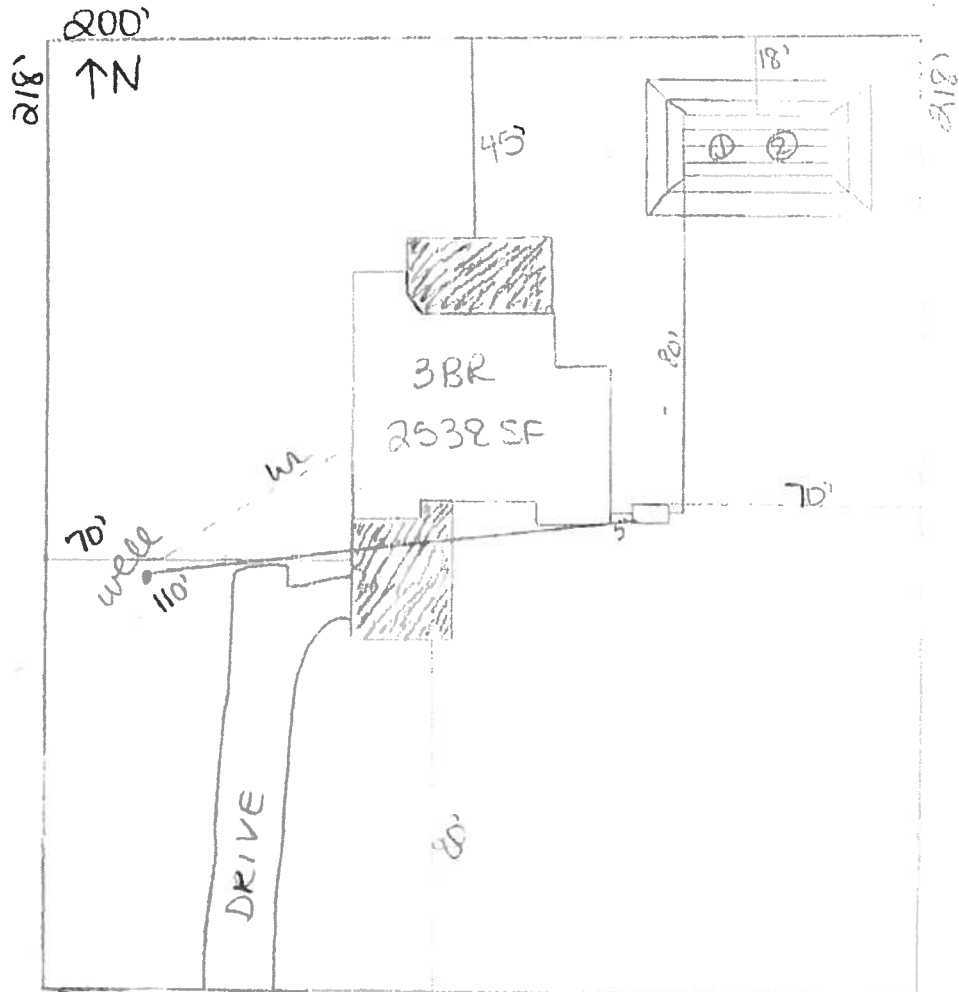
STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 20-0019

Parnell

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

Scale: 1 inch = 40 feet.



Notes:

Site Plan submitted by: William A. Bishop II

Plan Approved [Signature] Not Approved [Signature]

By [Signature] Columbix

MASTER CONTRACTOR

Date 1-7-20

County Health Department

1/24/20

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT





## COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.3.1 THRU 1609.3.3.**

**FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES**

Revised 7/1/18

**Website:** <http://www.columbiacountyfla.com/BuildingandZoning.asp>

Items to Include-  
Each Box shall be  
Circled as  
Applicable

**GENERAL REQUIREMENTS:**

**APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**

Select From Drop down

1	Two (2) complete sets of plans containing the following:	<input type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input type="checkbox"/>		
3	Condition space (Sq. Ft.) <u>2538</u> Total (Sq. Ft.) under roof <u>3843</u>	Yes	No	NA

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 107.1.

**Site Plan information including:**

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

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

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

**Elevations Drawing including:**

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

**Floor Plan Including:**

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

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

<b>GENERAL REQUIREMENTS:</b> <b>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b>		Items to Include- Each Box shall be Circled as Applicable
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**FBCR 403: Foundation Plans**

		Select From Drop down		
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	-		
31	All posts and/or column footing including size and reinforcing	-		
32	Any special support required by soil analysis such as piling.	-		
33	Assumed load-bearing value of soil <u>1000</u> Pound Per Square Foot	-		
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	-		

**FBCR 506: CONCRETE SLAB ON GRADE**

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

**FBCR 318: PROTECTION AGAINST TERMITES**

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

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

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



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

40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	-		
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	-		
42	Girder type, size and spacing to load bearing walls, stem wall and/or piers	-		
43	Attachment of joist to girder	-		
44	Wind load requirements where applicable	-		
45	Show required under-floor crawl space	-		
46	Show required amount of ventilation opening for under-floor spaces	-		
47	Show required covering of ventilation opening	-		
48	Show the required access opening to access to under-floor spaces	-		
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	-		
50	Show Draftstopping, Fire caulking and Fire blocking	-		
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	-		
52	Provide live and dead load rating of floor framing systems (psf).	-		

**FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION**

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

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	-		
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	-		
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	-		
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	-		
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	-		
58	Indicate where pressure treated wood will be placed	-		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	-		
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	-		

**FBCR :ROOF SYSTEMS:**

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

**FBCR 802:Conventional Roof Framing Layout**

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

**FBCR 803 ROOF SHEATHING**

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

**ROOF ASSEMBLIES FRC Chapter 9**

72	Include all materials which will make up the roof assembles covering	-	<input checked="" type="checkbox"/>		
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	-	<input checked="" type="checkbox"/>		

**FBCR Chapter 11 Energy Efficiency Code for Residential Building**

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

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

*Select from Drop Down*

74	Show the insulation R value for the following areas of the structure	-	<input checked="" type="checkbox"/>		
75	Attic space	-	<input checked="" type="checkbox"/>		
76	Exterior wall cavity	-	<input checked="" type="checkbox"/>		
77	Crawl space	-	<input checked="" type="checkbox"/>		

**HVAC information**

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

**Plumbing Fixture layout shown**

81	All fixtures waste water lines shall be shown on the foundation plan	-	<input checked="" type="checkbox"/>		
82	Show the location of water heater	-	<input checked="" type="checkbox"/>		

**Private Potable Water**

83	Pump motor horse power	-	<input checked="" type="checkbox"/>		
84	Reservoir pressure tank gallon capacity	-	<input checked="" type="checkbox"/>		
85	Rating of cycle stop valve if used	-	<input checked="" type="checkbox"/>		

**Electrical layout shown including**

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	<input checked="" type="checkbox"/>		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-	<input checked="" type="checkbox"/>		
88	Show the location of smoke detectors & Carbon monoxide detectors	-	<input checked="" type="checkbox"/>		
89	Show service panel, sub-panel, location(s) and total ampere ratings	-	<input checked="" type="checkbox"/>		
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.	-	<input checked="" type="checkbox"/>		
	For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3		<input checked="" type="checkbox"/>		
91	Appliances and HVAC equipment and disconnects	-	<input checked="" type="checkbox"/>		
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	-	<input checked="" type="checkbox"/>		



**Notice Of Commencement:**

A notice of commencement form **RECORDED** in the Columbia County Clerk Office is required to be filed with the Building Department **BEFORE ANY INSPECTIONS** can be performed.

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

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

Select from Drop down

93	<b>Building Permit Application</b> A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a <b>\$15.00</b> application fee. The completed application with attached documents and application fee can be mailed.	-	
94	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. <a href="http://www.columbiacountyfla.com">www.columbiacountyfla.com</a>	-	
95	<b>Environmental Health Permit or Sewer Tap Approval</b> A copy of a approved Columbia County Environmental Health (386) 758-1058	-	
96	<b>City of Lake City</b> A City Water and/or Sewer letter. Call 386-752-2031	-	
97	<b>Toilet facilities shall be provided for all construction sites</b>	-	
98	<b>Town of Fort White</b> (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	-	
99	<b>Flood Information:</b> All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations ( <a href="http://Municode.com">Municode.com</a> )	-	
100	<b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.	-	
101	<b>A Flood development permit is also required for AE, Floodway &amp; AH. Development permit cost is \$50.00</b>	-	
102	<b>Driveway Connection:</b> If the property does not have an existing access to a public road, then an application for a culvert permit ( <b>\$25.00</b> ) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ( <b>\$50.00</b> ) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	-	
103	<b>911 Address:</b> An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	-	

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



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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	THERMO - TRU	EXTERIOR HINGED DOORS	FL 5891 - R3
B. SLIDING	PGT	SLIDING GLASS DOORS	FL 251 - R15
C. SECTIONAL/ROLL UP		GARAGE DOORS	FL 5678 - R2
D. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE/DOUBLE HUNG	PGT	WINDOW	FL 239 - R19
B. HORIZONTAL SLIDER	PGT	WINDOW	FL 242 - R16
C. CASEMENT			
D. FIXED	PGT	WINDOW	FL 243 - R14
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	HARDIE	PANEL WALL SIDING	FL 13192 - R5
B. SOFFITS	KAYCON	ALUMINUM SOFFIT / FACIA	FL 12198 - R1
C. STOREFRONTS	STO	STUCCO FINISH	FL 15026 - R1
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES	GAF	ARCH SHINGLES 30YR	FL 10124 - R20
B. NON-STRUCTURAL METAL	GAF	TAR PAPER	FL 4911 - R3
C. ROOFING TILES	OMG	ROOFING NAILS	FL 699 - R3
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS	USPC	ANCHORS	FL 5631 - R1
B. WOOD ANCHORS	USPC	ANCHORS	FL 5631 - R1
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
<b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b>			

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

Contractor OR Agent Signature

Date

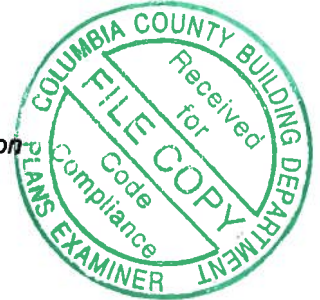
NOTES: \_\_\_\_\_

## RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

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

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



**Required prior to CO for the Performance Method:**

- ☐ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☐ A completed Envelope Leakage Test Report (usually one page)
- ☐ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

<b>Project Name:</b> 200001 Parnell Res <b>Street:</b> <b>City, State, Zip:</b> , FL , <b>Owner:</b> Parnell Res <b>Design Location:</b> FL, Gainesville	<b>Builder Name:</b> Bryan Zecher <b>Permit Office:</b> <b>Permit Number:</b> <b>Jurisdiction:</b> <b>County:</b> Columbia (Florida Climate Zone 2 )
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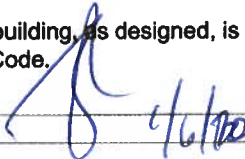

  

<table style="width:100%;"> <tr> <td style="width:30%;">1. New construction or existing</td> <td style="width:70%;">New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Single-family</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>Yes</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>2538</td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(318.3 sqft.)</td> <td> <table style="width:100%;"> <tr> <th style="width:30%;">Description</th> <th style="width:70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.30</td> <td>318.33 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.20</td> <td></td> </tr> <tr> <td>b. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. 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Glass/Floor Area: 0.125	Total Proposed Modified Loads: 63.40	<b>PASS</b>
	Total Baseline Loads: 66.25	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p><b>PREPARED BY:</b> <u>Evan Beamsley</u></p> <p><b>DATE:</b> <u>2020-01-03</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p><b>OWNER/AGENT:</b> <u></u></p> <p><b>DATE:</b> <u>1/6/20</u></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: center;">  </div> <p><b>BUILDING OFFICIAL:</b> _____</p> <p><b>DATE:</b> _____</p>
---	---

- 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 7.00 ACH50 (R402.4.1.2).

## INPUT SUMMARY CHECKLIST REPORT

## PROJECT

Title:	200001 Pamell Res	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2538	Lot #	
Owner Name:	Pamell Res	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	Bryan Zecher	Rotate Angle:	225	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

## CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

## BLOCKS

Number	Name	Area	Volume
1	Block1	2538	25380

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2538	25380	Yes	8	3	1	Yes	Yes	Yes

## FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	234 ft	0	2538 ft²	0.3	0.3	0.4

## ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Deck Insul.	Pitch (deg)	
_____	1	Hip	Composition shingles	2940 ft²	0 ft²	Dark	N	0.92	No	0.9	No	22	30.3

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	2538 ft²	N	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Unvented)	Main	0	Blown	2711 ft²	0	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	N=>SW	Exterior	Frame - Wood	Main	13	14	0	9	0	126.0 ft²		0.23	0.75	0
___	2	E=>NW	Exterior	Frame - Wood	Main	13	3	10	9		34.5 ft²		0.23	0.75	0
___	3	NE=>W	Exterior	Frame - Wood	Main	13	5	8	9		51.0 ft²		0.23	0.75	0
___	4	N=>SW	Exterior	Frame - Wood	Main	13	25	9	11		283.3 ft²		0.23	0.75	0
___	5	E=>NW	Exterior	Frame - Wood	Main	13	11	10	11		130.2 ft²		0.23	0.75	0
___	6	N=>SW	Exterior	Frame - Wood	Main	13	13	2	9		118.5 ft²		0.23	0.75	0
___	7	E=>NW	Exterior	Frame - Wood	Main	13	35	8	9		321.0 ft²		0.23	0.75	0
___	8	S=>NE	Exterior	Frame - Wood	Main	13	15		9		135.0 ft²		0.23	0.75	0
___	9	W=>SE	Exterior	Frame - Wood	Main	13	4	8	9		42.0 ft²		0.23	0.75	0
___	10	S=>NE	Exterior	Frame - Wood	Main	13	8		11		88.0 ft²		0.23	0.75	0
___	11	S=>NE	Exterior	Frame - Wood	Main	13	10	2	9		91.5 ft²		0.23	0.75	0
___	12	S=>NE	Garage	Frame - Wood	Main	13	7	6	9		67.5 ft²		0.23	0.75	0
___	13	E=>NW	Garage	Frame - Wood	Main	13	3	6	9		31.5 ft²		0.23	0.75	0
___	14	S=>NE	Garage	Frame - Wood	Main	13	16		9		144.0 ft²		0.23	0.75	0
___	15	W=>SE	Exterior	Frame - Wood	Main	13	32	6	9		292.5 ft²		0.23	0.75	0
___	16	S=>NE	Exterior	Frame - Wood	Main	13	2	2	9		19.5 ft²		0.23	0.75	0
___	17	W=>SE	Exterior	Frame - Wood	Main	13	6		9		54.0 ft²		0.23	0.75	0
___	18	N=>SW	Exterior	Frame - Wood	Main	13	2	2	9		19.5 ft²		0.23	0.75	0
___	19	W=>SE	Exterior	Frame - Wood	Main	13	16	6	9		148.5 ft²		0.23	0.75	0

## DOORS

✓	#	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___	1	NE=>W	Insulated	Main	None	.4	1		8		8 ft²
___	2	N=>SW	Insulated	Main	None	.4	6		9		54 ft²
___	3	S=>NE	Insulated	Main	None	.4	3		6	8	20 ft²
___	4	S=>NE	Insulated	Main	None	.4	2		8		16 ft²

## WINDOWS

Orientation shown is the entered orientation (=&gt;) changed to Worst Case.

✓	#	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___	1	N=>SW	1	Metal	Low-E Double	Yes	0.3	0.2	N	36.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	2	NE=>W	3	Metal	Low-E Double	Yes	0.3	0.2	N	13.3 ft²	24 ft 0 in	2 ft 0 in	None	None
___	3	N=>SW	4	Metal	Low-E Double	Yes	0.3	0.2	N	108.0 ft²	15 ft 8 in	0 ft 0 in	None	None
___	4	N=>SW	6	Metal	Low-E Double	Yes	0.3	0.2	N	36.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	5	E=>NW	7	Metal	Low-E Double	Yes	0.3	0.2	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	6	E=>NW	7	Metal	Low-E Double	Yes	0.3	0.2	N	6.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	7	S=>NE	8	Metal	Low-E Double	Yes	0.3	0.2	N	4.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	8	S=>NE	8	Metal	Low-E Double	Yes	0.3	0.2	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	9	S=>NE	10	Metal	Low-E Double	Yes	0.3	0.2	N	32.0 ft²	8 ft 10 in	1 ft 0 in	None	None
___	10	S=>NE	11	Metal	Low-E Double	Yes	0.3	0.2	N	15.0 ft²	6 ft 6 in	1 ft 2 in	None	None
___	11	W=>SE	15	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	12	W=>SE	15	Metal	Low-E Double	Yes	0.3	0.2	N	4.0 ft²	1 ft 6 in	1 ft 0 in	None	None



## INPUT SUMMARY CHECKLIST REPORT

## WINDOWS

Orientation shown is the entered orientation (=&gt;) changed to Worst Case.

✓	#	W	O	I	D	F	P	N	U	S	I	A	O	D	S	I	S
	13	W=>SE	17	Metal	Low-E Double	Yes	0.3	0.2	N	4.0 ft²	1 ft 6 in	1 ft 0 in	None	None			

## GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
	1	696.07 ft²	696.07 ft²	84 ft	9 ft	1

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000445	2961	162.55	305.71	.183	7

## HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1	Electric Heat Pump/	None	HSPF:9.5	43 kBtu/hr	1	sys#1

## COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	Central Unit/	None	SEER: 18	43 kBtu/hr	1290 cfm	0.75	1	sys#1

## HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Natural Gas	Tankless	Exterior	0.6	1 gal	60 gal	120 deg	None

## SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft²		

## DUCTS

✓	#	Supply	Location	R-Value	Area	Return	Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
	1	Attic	6	507.6 ft	Attic	126.9 ft	Default Leakage	Main	(Default)	(Default)					1 1

**INPUT SUMMARY CHECKLIST REPORT****TEMPERATURES**

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" 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 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 checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input 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 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	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

**MASS**

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Main

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 96

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

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts	R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts	R <u>6.0</u>
4. Number of bedrooms	4. <u>3</u>	c) AHU location	Main
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	13. Cooling system:	Capacity <u>43.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>2538</u>	a) Split system	SEER <u>        </u>
7. Windows, type and area		b) Single package	SEER <u>        </u>
a) U-factor:(weighted average)	7a. <u>0.300</u>	c) Ground/water source	SEER/COP <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.200</u>	d) Room unit/PTAC	EER <u>        </u>
c) Area	7c. <u>318.3</u>	e) Other	<u>18.0</u>
8. Skylights		14. Heating system:	Capacity <u>43.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u>        </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump	HSPF <u>        </u>
9. Floor type, insulation level:		c) Electric resistance	COP <u>        </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas	AFUE <u>        </u>
b) Wood, raised (R-value)	9b. <u>        </u>	e) Gas furnace, LPG	AFUE <u>        </u>
c) Concrete, raised (R-value)	9c. <u>        </u>	f) Other	<u>9.50</u>
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u>        </u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas	EF <u>0.60</u>
2. Masonry (Insulation R-value)	10A2. <u>        </u>	c) Gas fired, LPG	EF <u>        </u>
B. Adjacent:		d) Solar system with tank	EF <u>        </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank	EF <u>        </u>
2. Masonry (Insulation R-value)	10B2. <u>        </u>	f) Heat recovery unit	HeatRec% <u>        </u>
11. Ceiling type and insulation level		g) Other	
a) Under attic	11a. <u>0.0</u>	16. HVAC credits claimed (Performance Method)	
b) Single assembly	11b. <u>        </u>	a) Ceiling fans	<u>        </u>
c) Knee walls/skylight walls	11c. <u>        </u>	b) Cross ventilation	<u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan	<u>No</u>
		d) Multizone cooling credit	<u>        </u>
		e) Multizone heating credit	<u>        </u>
		f) Programmable thermostat	<u>Yes</u>

\*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: [Signature]

Date: 1/6/20

Address of New Home: 1857 NW Lake Glen

City/FL Zip:         , FL

**Florida Building Code, Energy Conservation, 6th Edition (2017)**  
**Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods**

ADDRESS:

, FL ,

Permit Number:

**MANDATORY REQUIREMENTS** See individual code sections for full details.



**SECTION R401 GENERAL**

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

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

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

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

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

- ☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/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.

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

During testing:

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

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

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

**Exception:** Site-built windows, skylights and doors.

## MANDATORY REQUIREMENTS - (Continued)

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

### Exceptions:

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

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

## SECTION R403 SYSTEMS

### R403.1 Controls.

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

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

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

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

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

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

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

### Exceptions:

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

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

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

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

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

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

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

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

## MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
- ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
  2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
  2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
  3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- ☐ **R403.7 Heating and cooling equipment (Mandatory).**
- R403.7.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

**TABLE R403.6.1  
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

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

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916



## MANDATORY REQUIREMENTS - (Continued)

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

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

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

### Exceptions:

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

### R403.7.1.2 Heating equipment capacity.

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

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

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

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

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

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

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

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

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

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

### Exceptions:

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

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

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

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

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

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

## **SECTION R404**

### **ELECTRICAL POWER AND LIGHTING SYSTEMS**

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

**Exception:** Low-voltage lighting.

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

# 2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

**TABLE 402.4.1.1  
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA**

Project Name: 200001 Parnell Res Street: City, State, Zip: , FL , Owner: Parnell Res Design Location: FL, Gainesville			Builder Name: Bryan Zecher Permit Office: Permit Number: Jurisdiction:	<b>CHECK</b>
<b>COMPONENT</b>	<b>AIR BARRIER CRITERIA</b>	<b>INSULATION INSTALLATION CRITERIA</b>		
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.

# Envelope Leakage Test Report (Blower Door Test)

## Residential Prescriptive, Performance or ERI Method Compliance

### 2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:

Permit #:

#### Job Information

Builder: Bryan Zecher

Community:

Lot: NA

Address:

City:

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):

7.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 + \frac{25380}{\text{ACH}(50)} =$$



**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: \_\_\_\_\_

# Residential System Sizing Calculation

## Summary

Parnell Res

Project Title:  
200001 Parnell Res

, FL

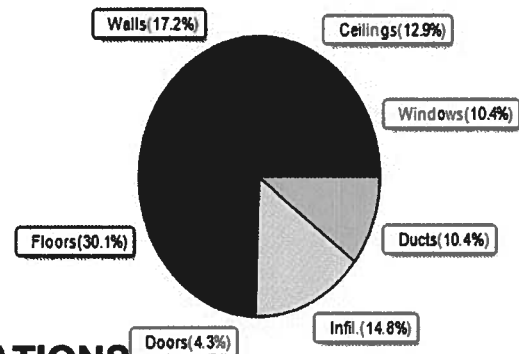
2020-01-03

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature(TMY3 99%)	30 F	Summer design temperature(TMY3 99%)	94 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	40 F	Summer temperature difference	19 F
<b>Total heating load calculation</b>	<b>36739 Btuh</b>	<b>Total cooling load calculation</b>	<b>30188 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.0 43000	Sensible (SHR = 0.75)	134.8 32250
Heat Pump + Auxiliary(0.0kW)	117.0 43000	Latent	171.4 10750
		Total (Electric Heat Pump)	142.4 43000

## WINTER CALCULATIONS

Winter Heating Load (for 2538 sqft)

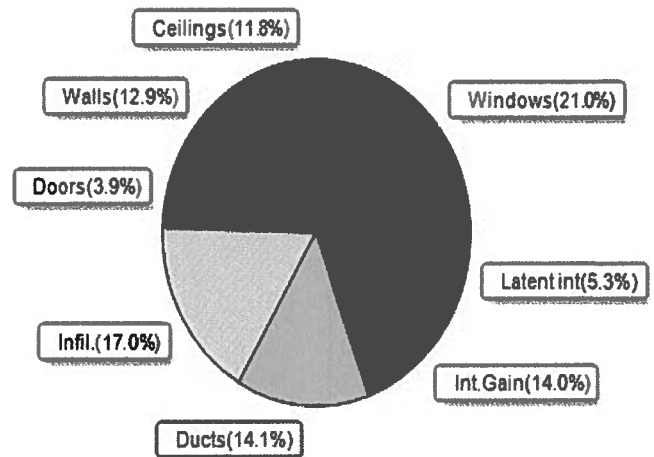
Load component		Load	
Window total	318 sqft	3820	Btuh
Wall total	1782 sqft	6325	Btuh
Door total	98 sqft	1568	Btuh
Ceiling total	2711 sqft	4735	Btuh
Floor total	2538 sqft	11045	Btuh
Infiltration	124 cfm	5423	Btuh
Duct loss		3823	Btuh
<b>Subtotal</b>		<b>36739</b>	<b>Btuh</b>
Ventilation	0 cfm	0	Btuh
<b>TOTAL HEAT LOSS</b>		<b>36739</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 2538 sqft)

Load component		Load	
Window total	318 sqft	6327	Btuh
Wall total	1782 sqft	3904	Btuh
Door total	98 sqft	1176	Btuh
Ceiling total	2711 sqft	3552	Btuh
Floor total		0	Btuh
Infiltration	93 cfm	1932	Btuh
Internal gain		4240	Btuh
Duct gain		2786	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
<b>Total sensible gain</b>		<b>23916</b>	<b>Btuh</b>
Latent gain(ducts)		1467	Btuh
Latent gain(infiltration)		3205	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
<b>Total latent gain</b>		<b>6272</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>30188</b>	<b>Btuh</b>



8th Edition

EnergyGauge® System Sizing  
PREPARED BY: Evan Beamsley  
DATE: 2020-01-03

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Parnell Res

, FL

Project Title:  
200001 Parnell Res  
Building Type: User

2020-01-03

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)  
This calculation is for Worst Case. The house has been rotated 270 degrees.

Component Loads for Whole House								
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.20	Metal	0.30	W	36.0		12.0	432 Btuh
2	2, NFRC 0.20	Metal	0.30	NW	13.3		12.0	160 Btuh
3	2, NFRC 0.20	Metal	0.30	W	108.0		12.0	1296 Btuh
4	2, NFRC 0.20	Metal	0.30	W	36.0		12.0	432 Btuh
5	2, NFRC 0.20	Metal	0.30	N	15.0		12.0	180 Btuh
6	2, NFRC 0.20	Metal	0.30	N	6.0		12.0	72 Btuh
7	2, NFRC 0.20	Metal	0.30	E	4.0		12.0	48 Btuh
8	2, NFRC 0.20	Metal	0.30	E	15.0		12.0	180 Btuh
9	2, NFRC 0.20	Metal	0.30	E	32.0		12.0	384 Btuh
10	2, NFRC 0.20	Metal	0.30	E	15.0		12.0	180 Btuh
11	2, NFRC 0.20	Metal	0.30	S	30.0		12.0	360 Btuh
12	2, NFRC 0.20	Metal	0.30	S	4.0		12.0	48 Btuh
13	2, NFRC 0.20	Metal	0.30	S	4.0		12.0	48 Btuh
Window Total					318.3(sqft)			3820 Btuh
Walls	Type	Ormt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	90		3.55	320 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	35		3.55	122 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	30		3.55	105 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	121		3.55	430 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	130		3.55	462 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	83		3.55	293 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	300		3.55	1065 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	116		3.55	412 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	42		3.55	149 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	40		3.55	142 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	77		3.55	272 Btuh
12	Frame - Wood	- Adj	(0.089)	13.0/0.0	48		3.55	169 Btuh
13	Frame - Wood	- Adj	(0.089)	13.0/0.0	32		3.55	112 Btuh
14	Frame - Wood	- Adj	(0.089)	13.0/0.0	144		3.55	511 Btuh
15	Frame - Wood	- Ext	(0.089)	13.0/0.0	259		3.55	918 Btuh
16	Frame - Wood	- Ext	(0.089)	13.0/0.0	20		3.55	69 Btuh
17	Frame - Wood	- Ext	(0.089)	13.0/0.0	50		3.55	178 Btuh
18	Frame - Wood	- Ext	(0.089)	13.0/0.0	20		3.55	69 Btuh
19	Frame - Wood	- Ext	(0.089)	13.0/0.0	149		3.55	527 Btuh
Wall Total					1782(sqft)			6325 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.400)		8		16.0	128 Btuh
2	Insulated - Exterior, n		(0.400)		54		16.0	864 Btuh
3	Insulated - Garage, n		(0.400)		20		16.0	320 Btuh
4	Insulated - Exterior, n		(0.400)		16		16.0	256 Btuh
Door Total					98(sqft)			1568Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Parnell Res  
 , FL

Project Title:  
 200001 Parnell Res  
 Building Type: User

2020-01-03

<b>Ceilings</b> 1	Type/Color/Surface Unvent Attic/D/Shing Ceiling Total	Ueff. (0.044)	R-Value 0.0/22.0	Area X 2711 2711(sqft)	HTM= 1.7	Load 4735 Btuh 4735Btuh
<b>Floors</b> 1	Type Slab On Grade Floor Total	Ueff. (1.180)	R-Value 0.0	Size X 234.0 ft(perim.) 2538 sqft	HTM= 47.2	Load 11045 Btuh 11045 Btuh
Envelope Subtotal:						27493 Btuh
<b>Infiltration</b>	Type Natural	Wholehouse ACH 0.29	Volume(cuft) 25380	Wall Ratio 1.00	CFM= 123.8	5423 Btuh
<b>Duct load</b>	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.116)					3823 Btuh
<b>All Zones</b>	Sensible Subtotal All Zones					36739 Btuh

### WHOLE HOUSE TOTALS

<b>Totals for Heating</b>	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	36739 Btuh 0 Btuh 36739 Btuh
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### EQUIPMENT

1. Electric Heat Pump	#	43000 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

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Parnell Res

Project Title:  
200001 Parnell Res

, FL

2020-01-03

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.  
This calculation is for Worst Case. The house has been rotated 270 degrees.

### Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.20, 0.30	No	No	W	1.5ft.	1.0ft.	36.0	1.5	34.5	10	25	877	Btuh	
2	2 NFRC	0.20, 0.30	No	No	NW	24.0f	2.0ft.	13.3	0.0	13.3	10	19	255	Btuh	
3	2 NFRC	0.20, 0.30	No	No	W	15.7f	0.0ft.	108.0	108.0	0.0	10	25	1070	Btuh	
4	2 NFRC	0.20, 0.30	No	No	W	1.5ft.	1.0ft.	36.0	1.5	34.5	10	25	877	Btuh	
5	2 NFRC	0.20, 0.30	No	No	N	1.5ft.	1.0ft.	15.0	0.0	15.0	10	10	149	Btuh	
6	2 NFRC	0.20, 0.30	No	No	N	1.5ft.	1.0ft.	6.0	0.0	6.0	10	10	59	Btuh	
7	2 NFRC	0.20, 0.30	No	No	E	1.5ft.	1.0ft.	4.0	0.5	3.5	10	25	93	Btuh	
8	2 NFRC	0.20, 0.30	No	No	E	1.5ft.	1.0ft.	15.0	0.7	14.3	10	25	364	Btuh	
9	2 NFRC	0.20, 0.30	No	No	E	8.8ft.	1.0ft.	32.0	25.3	6.7	10	25	418	Btuh	
10	2 NFRC	0.20, 0.30	No	No	E	6.5ft.	1.2ft.	15.0	12.7	2.3	10	25	184	Btuh	
11	2 NFRC	0.20, 0.30	No	No	S	1.5ft.	1.0ft.	30.0	30.0	0.0	10	11	297	Btuh	
12	2 NFRC	0.20, 0.30	No	No	S	1.5ft.	1.0ft.	4.0	4.0	0.0	10	11	40	Btuh	
13	2 NFRC	0.20, 0.30	No	No	S	1.5ft.	1.0ft.	4.0	4.0	0.0	10	11	40	Btuh	
Excursion														1606	Btuh
Window Total										318 (sqft)				6327 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)			HTM		Load				
				Cav/Sheath											
1	Frame - Wood - Ext	0.09		13.0/0.0		90.0			2.3		204 Btuh				
2	Frame - Wood - Ext	0.09		13.0/0.0		34.5			2.3		78 Btuh				
3	Frame - Wood - Ext	0.09		13.0/0.0		29.7			2.3		67 Btuh				
4	Frame - Wood - Ext	0.09		13.0/0.0		121.3			2.3		274 Btuh				
5	Frame - Wood - Ext	0.09		13.0/0.0		130.2			2.3		295 Btuh				
6	Frame - Wood - Ext	0.09		13.0/0.0		82.5			2.3		187 Btuh				
7	Frame - Wood - Ext	0.09		13.0/0.0		300.0			2.3		679 Btuh				
8	Frame - Wood - Ext	0.09		13.0/0.0		116.0			2.3		263 Btuh				
9	Frame - Wood - Ext	0.09		13.0/0.0		42.0			2.3		95 Btuh				
10	Frame - Wood - Ext	0.09		13.0/0.0		40.0			2.3		91 Btuh				
11	Frame - Wood - Ext	0.09		13.0/0.0		76.5			2.3		173 Btuh				
12	Frame - Wood - Adj	0.09		13.0/0.0		47.5			1.7		80 Btuh				
13	Frame - Wood - Adj	0.09		13.0/0.0		31.5			1.7		53 Btuh				
14	Frame - Wood - Adj	0.09		13.0/0.0		144.0			1.7		243 Btuh				
15	Frame - Wood - Ext	0.09		13.0/0.0		258.5			2.3		585 Btuh				
16	Frame - Wood - Ext	0.09		13.0/0.0		19.5			2.3		44 Btuh				
17	Frame - Wood - Ext	0.09		13.0/0.0		50.0			2.3		113 Btuh				
18	Frame - Wood - Ext	0.09		13.0/0.0		19.5			2.3		44 Btuh				
19	Frame - Wood - Ext	0.09		13.0/0.0		148.5			2.3		336 Btuh				
Wall Total						1782 (sqft)					3904 Btuh				
Doors	Type	Area (sqft)			HTM		Load								
1	Insulated - Exterior	8.0			12.0		96 Btuh								
2	Insulated - Exterior	54.0			12.0		648 Btuh								
3	Insulated - Garage	20.0			12.0		240 Btuh								
4	Insulated - Exterior	16.0			12.0		192 Btuh								
Door Total		98 (sqft)					1176 Btuh								
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Unvented Attic/DarkShingle	0.044		0.0/22.0		2711.0		1.31		3552 Btuh					
Ceiling Total						2711 (sqft)				3552 Btuh					

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Parnell Res

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
200001 Parnell Res

, FL

2020-01-03

Floors 1	Type Slab On Grade Floor Total	R-Value 0.0	Size 2538 (ft-perimeter) 2538.0 (sqft)	HTM 0.0	Load 0 Btuh 0 Btuh
	Envelope Subtotal:				14958 Btuh
Infiltration	Type Natural	Average ACH 0.22	Volume(cuft) 25380	Wall Ratio 1	CFM= 92.9
Internal gain		Occupants 8	Btuh/occupant X 230	Appliance 2400	Load 1932 Btuh 4240 Btuh
	Sensible Envelope Load:				21130 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.132)	2786 Btuh
	Sensible Load All Zones				23916 Btuh

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Parnell Res

Project Title:  
200001 Parnell Res

Climate: FL\_GAINESVILLE\_REGIONAL\_A

, FL

2020-01-03

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>21130 Btuh</b>
	Sensible Duct Load	2786 Btuh
	<b>Total Sensible Zone Loads</b>	<b>23916 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>23916 Btuh</b>
	Latent infiltration gain (for 51 gr. humidity difference)	3205 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1467 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>6272 Btuh</b>
	<b>TOTAL GAIN</b>	<b>30188 Btuh</b>

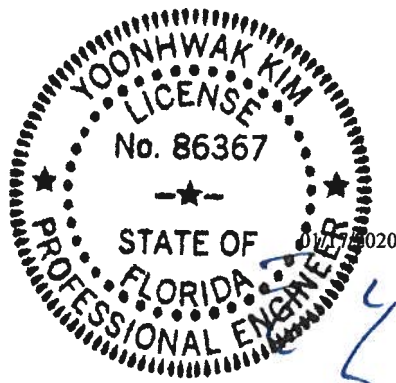
### EQUIPMENT

1. Central Unit	#	43000 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))  
 (Ornt - compass orientation)



Version 8

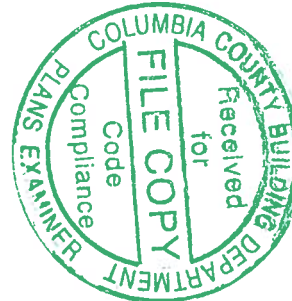


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FL REG# 278, Yoonhwak Kim, FL PE #86367

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



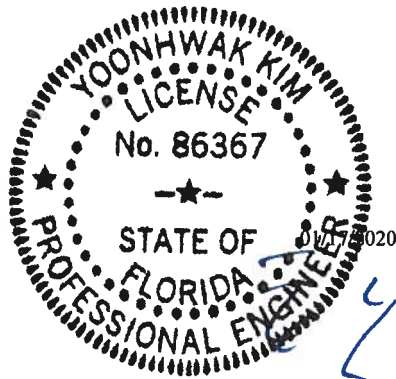
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 19-3769
Job Description: /Parnell /ZECHER CONSTRUCTION	
Address:	

Job Engineering Criteria:			
Design Code: FBC 2017 RES		IntelliVIEW Version: 18.02.01B	
		JRef #: 1WRZ2150004	
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00	
Building Type: Closed		Floor Load (psf): None	

This package contains general notes pages, 67 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	017.20.1126.19865	A01
3	017.20.1126.19694	A03
5	017.20.1126.19693	A05
7	017.20.1126.19787	A07
9	017.20.1126.19926	A09
11	017.20.1126.19631	A11
13	017.20.1126.18680	A8A
15	017.20.1126.19366	B02
17	017.20.1126.19568	B04
19	017.20.1126.19131	C02
21	017.20.1126.18725	C04
23	017.20.1126.19226	D02
25	017.20.1126.19396	D04
27	017.20.1126.19256	G01
29	017.20.1126.18944	G03
31	017.20.1126.18648	G05
33	017.20.1126.18898	H01
35	017.20.1126.19507	J01
37	017.20.1126.19225	J03
39	017.20.1126.19070	J05
41	017.20.1126.18758	J07
43	017.20.1126.18726	J09
45	017.20.1126.18585	J11
47	017.20.1126.18804	J13
49	017.20.1126.18803	J15
51	017.20.1126.19069	J18

Item	Drawing Number	Truss
2	017.20.1126.19757	A02
4	017.20.1126.19786	A04
6	017.20.1126.19755	A06
8	017.20.1126.19709	A08
10	017.20.1126.19692	A10
12	017.20.1126.19552	A12
14	017.20.1126.19506	B01
16	017.20.1126.19146	B03
18	017.20.1126.18555	C01
20	017.20.1126.19600	C03
22	017.20.1126.19477	D01
24	017.20.1126.19476	D03
26	017.20.1129.59417	D05
28	017.20.1126.19178	G02
30	017.20.1126.18897	G04
32	017.20.1126.18835	G06
34	017.20.1126.19085	H02
36	017.20.1126.19615	J02
38	017.20.1126.18679	J04
40	017.20.1126.19319	J06
42	017.20.1126.18913	J08
44	017.20.1126.19194	J10
46	017.20.1126.19522	J12
48	017.20.1126.18899	J14
50	017.20.1126.19320	J16
52	017.20.1126.19100	J19



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FL REG# 278, Yoonhwak Kim, FL PE #86367

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Orlando, FL 32821  
Phone: (800)755-6001  
www.alpineitw.com

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 19-3769
Job Description: /Parnell /ZECHER CONSTRUCTION	
Address:	

Item	Drawing Number	Truss
53	017.20.1126.18929	J1A
55	017.20.1126.19288	J1C
57	017.20.1126.18756	J21
59	017.20.1126.19380	J23
61	017.20.1126.19054	K01
63	017.20.1126.18975	M01
65	017.20.1126.19850	P02
67	017.20.1126.19801	P04
69	A14030ENC101014	
71	GBLLETIN0118	
73	CNNAILSP1014	

Item	Drawing Number	Truss
54	017.20.1126.19038	J1B
56	017.20.1126.19475	J20
58	017.20.1126.19273	J22
60	017.20.1126.18695	J24
62	017.20.1126.19272	K02
64	017.20.1126.19849	P01
66	017.20.1126.19662	P03
68	A14015ENC101014	
70	BRCLBSUB0119	
72	PB160101014	

## **General Notes**

### **Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:**

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

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

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

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

### **Temporary Lateral Restraint and Bracing:**

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

### **Permanent Lateral Restraint and Bracing:**

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

### **Connector Plate Information:**

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



## **General Notes** (continued)

### **Key to Terms:**

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

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

Des Ld = total of TCDL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCDL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

### **References:**

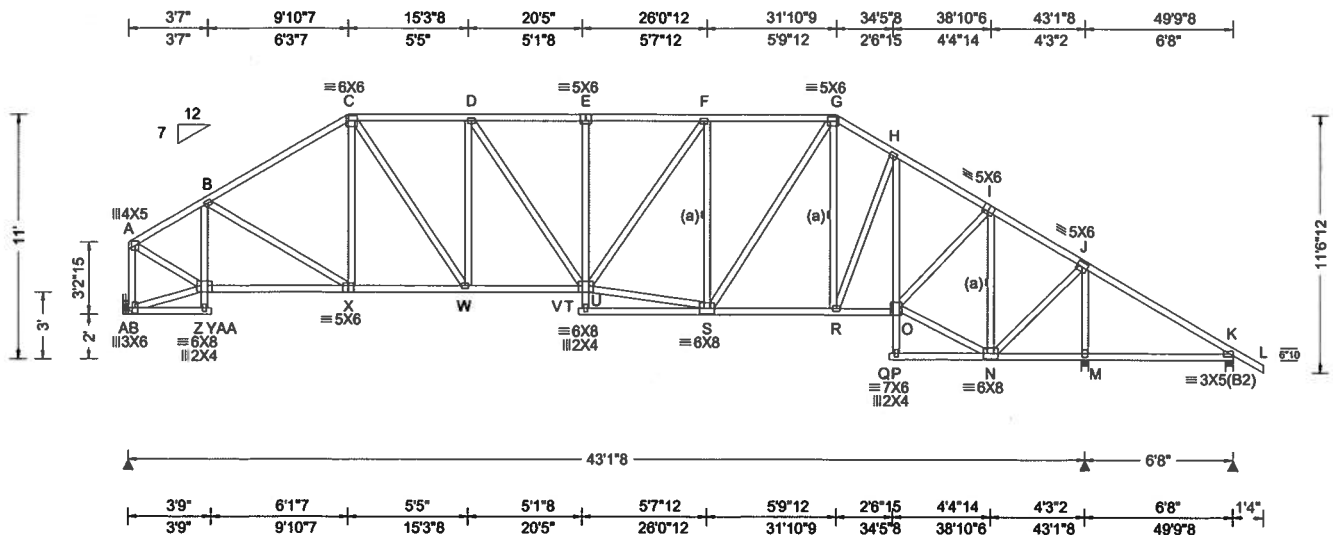
1. AF&PA: American Forest & Paper Association, 1111 19<sup>th</sup> Street, NW, Suite 800, Washington, DC 20036; [www.afandpa.org](http://www.afandpa.org).

2. ICC: International Code Council; [www.iccsafe.org](http://www.iccsafe.org).

3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; [www.alpineitw.com](http://www.alpineitw.com).

4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; [www.tpinst.org](http://www.tpinst.org).

5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; [www.sbcindustry.co](http://www.sbcindustry.co)



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.148 E 999 240 VERT(CL): 0.305 E 999 240 HORZ(LL): 0.086 N - - HORZ(TL): 0.178 N - - Creep Factor: 2.0 Max TC CSI: 0.773 Max BC CSI: 0.593 Max Web CSI: 0.825  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL AB 1743 - / - / - / 972 / 311 / 265 M 2433 - / - / - / 1377 / 384 / - K 54 - / - / - / 150 / 103 / - Wind reactions based on MWFRS AB Brg Width = - Min Req = - M Brg Width = 4.0 Min Req = 2.5 K Brg Width = 4.0 Min Req = 1.5 Bearings M & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Wind

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

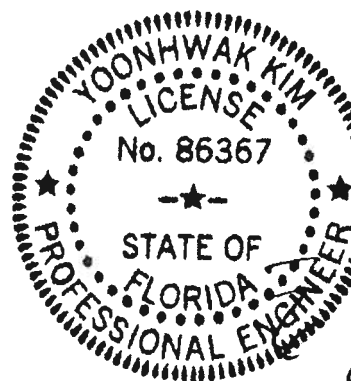
Left end vertical not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9'-0".



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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Z - X	1516 - 200	R - O	1532 - 205
X - W	1741 - 195	N - M	141 - 390
W - T	2232 - 328	M - K	150 - 429
S - R	1548 - 182		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - AB	398 - 1705	F - S	251 - 960
A - Z	1681 - 367	S - G	811 - 210
Z - B	235 - 643	O - I	1101 - 157
C - W	824 - 220	O - N	850 - 106
W - D	208 - 628	I - N	286 - 1470
T - F	710 - 127	N - J	1616 - 307
T - S	2014 - 295	J - M	533 - 2257

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

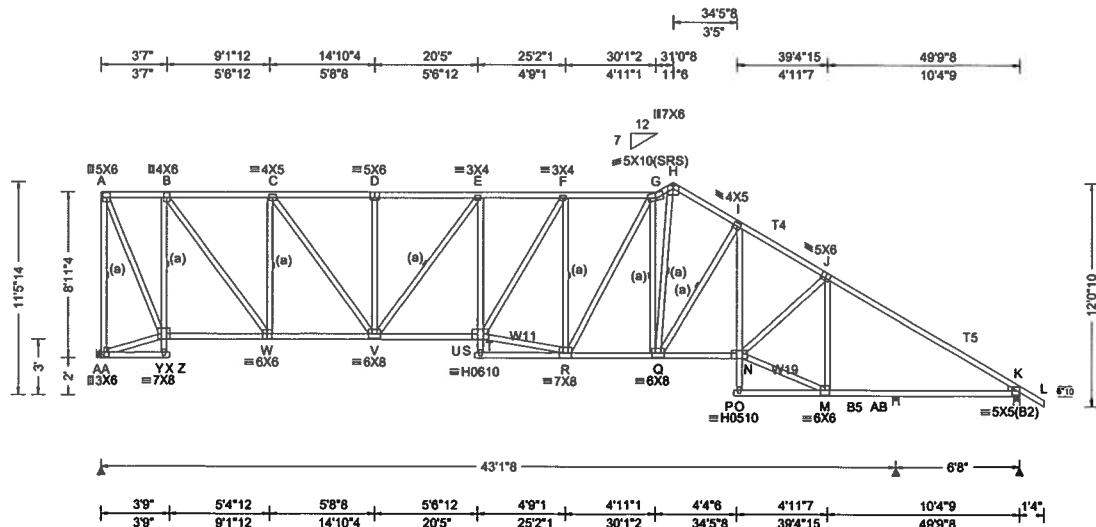
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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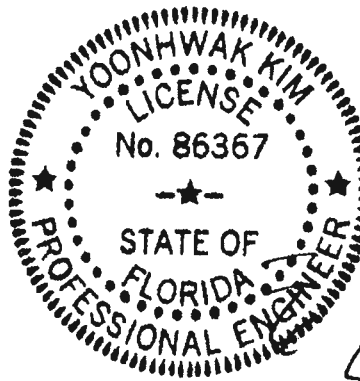
SEQN: 573045 / FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: A02	Cust: R 215 JRef: 1WRZ2150004 T43 / DrwNo: 017.20.1126.19757 / YK 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.303 F 999 240 VERT(CL): 0.631 F 820 240 HORZ(LL): 0.143 M - - HORZ(TL): 0.308 M - - Creep Factor: 2.0 Max TC CSI: 0.708 Max BC CSI: 0.820 Max Web CSI: 0.957  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL AA 2033 - / - / /1056 /349 /228 AB 314 - / - /225 /2 - /- K 1952 - / - /1165 /193 - /- Wind reactions based on MWFRS AA Brg Width = - Min Req = - AB Brg Width = 4.0 Min Req = 1.5 K Brg Width = 4.0 Min Req = 1.6 Bearings AB & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; T4,T5 2x4 SP M-31; Bot chord: 2x4 SP #2; B5 2x4 SP M-31; Webs: 2x4 SP #3; W11,W19 2x4 SP #2; Rt Wedge: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. A - B 187 - 885 F - G 780 - 2892 B - C 474 - 1975 G - H 827 - 2977 C - D 687 - 2778 H - I 769 - 2887 D - E 687 - 2778 I - J 870 - 3545 E - F 812 - 3240 J - K 715 - 3075

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Chords Tens.Comp. Chords Tens. Comp. Y - W 921 - 46 R - Q 2725 - 398 W - V 2028 - 138 Q - N 2954 - 471 V - S 3241 - 461 M - K 5007 - 950
Plating Notes	
All plates are 2X4 except as noted.	
Wind	
Wind loads based on MWFRS with additional C&C member design. Left end vertical not exposed to wind pressure.	
Additional Notes	
Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below. The overall height of this truss excluding overhang is 9'-5-14.	

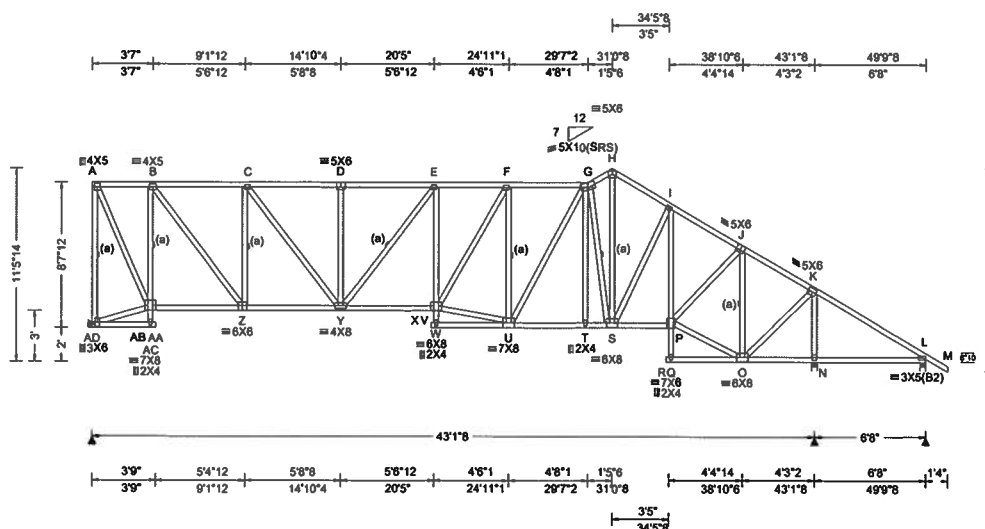


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01/17/2020

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**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.  
Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 573049 / FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A03	Cust: R 215 JRef: 1WRZ2150004 T14 / DrwNo: 017.20.1126.19694 / YK 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.181 X 999 240 VERT(CL): 0.371 X 999 240 HORZ(LL): 0.090 O - - HORZ(TL): 0.187 O - - Creep Factor: 2.0 Max TC CSI: 0.867 Max BC CSI: 0.711 Max Web CSI: 0.887  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh AD 1719 - / - / 885 / 311 / 230 N 2614 - / - / 1506 / 247 - L 183 - / 351 - / 112 / 157 - Non-Gravity / Rw / U / RL Wind reactions based on MWFRS AD Brg Width = - Min Req = - N Brg Width = 4.0 Min Req = 2.7 L Brg Width = 4.0 Min Req = 1.5 Bearings N & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Wind

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

Left end vertical not exposed to wind pressure.

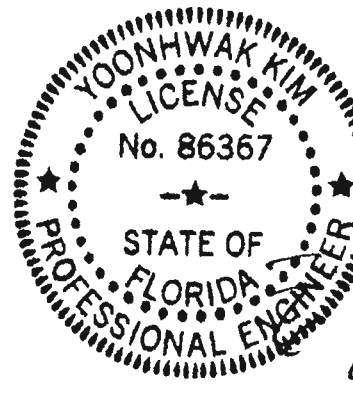
#### Additional Notes

Refer to General Notes for additional information

Negative reaction(s) of -351# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9'-5-14.



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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
AB - Z	802 -75	T - S	1735 -194
Z - Y	1712 -82	S - P	1413 -146
Y - V	2483 -309	O - N	193 -746
U - T	1735 -194	N - L	202 -787

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - AD	379 -1680	F - U	204 -997
A - AB	1780 -377	U - G	664 -147
AD - AB	384 -154	G - S	459 -1584
AB - B	472 -1505	H - S	1484 -472
B - Z	1465 -408	I - P	87 -413
Z - C	343 -1082	P - J	1139 -142
C - Y	898 -258	P - O	693 -52
Y - E	126 -377	J - O	262 -1546
V - F	800 -93	O - K	1854 -305
V - U	2103 -263	K - N	534 -2426

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

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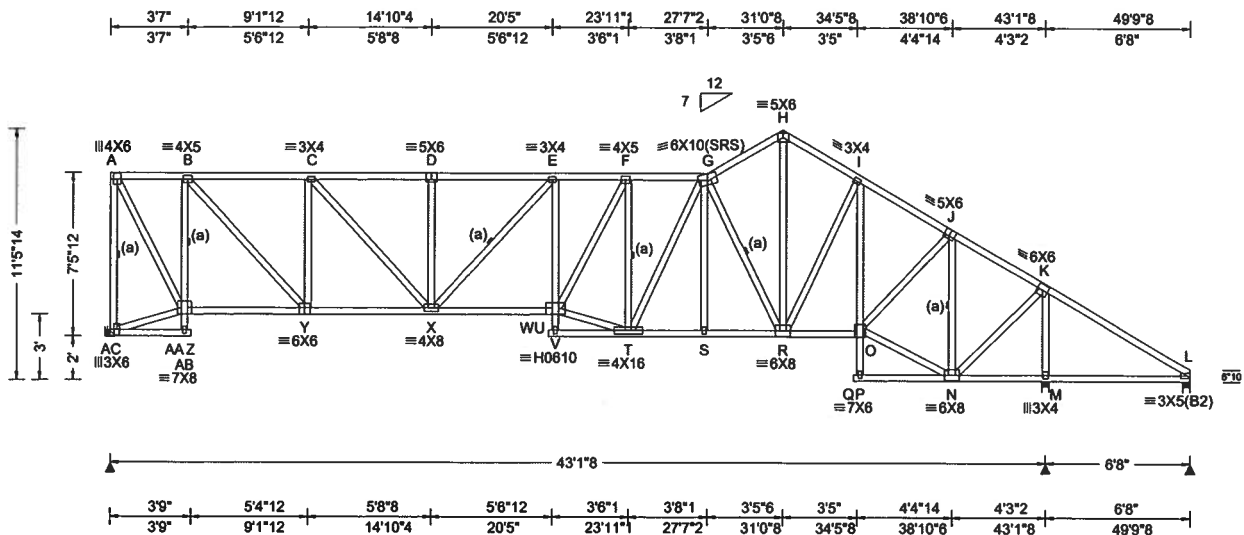
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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



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Suite 305  
Orlando FL, 32821

SEQN: 573052 / FROM: CDM	SPEC Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A04	Cust: R215 JRef:1WRZ2150004 T44 / DrwNo: 017.20.1126.19786 / YK 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.02 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.212 W 999 240 VERT(CL): 0.435 W 999 240 HORZ(LL): 0.103 N - - HORZ(TL): 0.215 N - - Creep Factor: 2.0 Max TC CSI: 0.951 Max BC CSI: 0.774 Max Web CSI: 0.950  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh AC 1707 /- /- /878 /294 /226 M 2717 /- /- /1537 /223 /- L 54 /-489 /- /48 /220 /- Non-Gravity Loc R+ / R- / Rh AC 1707 /- /- /878 /294 /226 M 2717 /- /- /1537 /223 /- L 54 /-489 /- /48 /220 /- Wind reactions based on MWFRS AC Brg Width = - Min Req = - M Brg Width = 4.0 Min Req = 2.8 L Brg Width = 4.0 Min Req = 1.5 Bearings M & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Wind

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

Left end vertical not exposed to wind pressure.

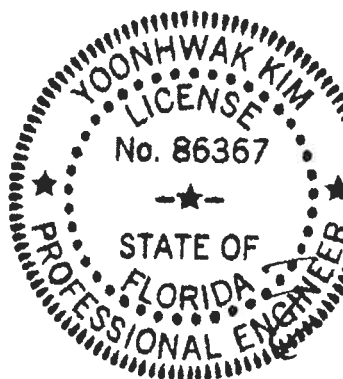
#### Additional Notes

Refer to General Notes for additional information

Negative reaction(s) of -489# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9-5-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
AA- Y	950 -57	S - R	2157 -360
Y - X	2016 -225	R - O	1354 -169
X - U	2923 -496	N - M	188 -892
T - S	2158 -360	M - L	198 -935

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - AC	391 -1668	T - G	499 -118
A - AA	1836 -406	G - R	499 -1704
AA - B	460 -1488	H - R	1423 -456
B - Y	1545 -425	I - O	97 -472
Y - C	338 -1069	O - J	1161 -166
C - X	947 -271	O - N	611 -58
X - E	137 -405	J - N	288 -1564
U - F	1079 -173	N - K	1936 -336
U - T	2494 -428	K - M	575 -2515
F - T	248 -1158		

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

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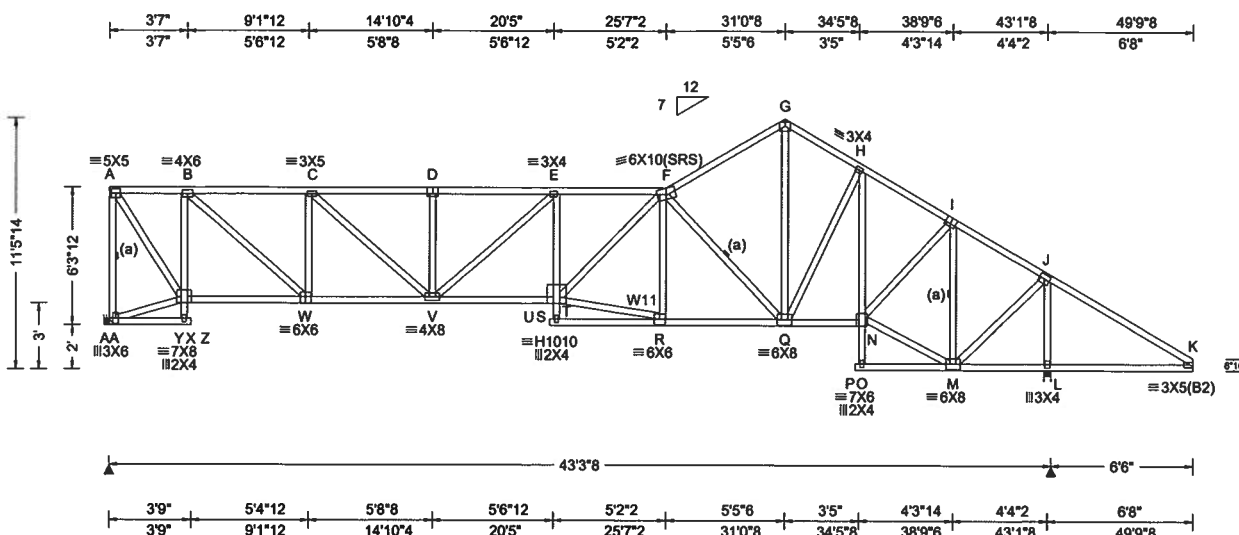
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page, listing this drawing,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

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



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 573055 / FROM: CDM	SPEC Qty: 1	Ply: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A05	Cust: R 215 JRef: 1WRZ2150004 T53 / DrwNo: 017.20.1126.19693 / YK 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.02 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist at: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.279 U 999 240 VERT(CL): 0.592 U 873 240 HORZ(LL): 0.132 M - - HORZ(TL): 0.282 M - - Creep Factor: 2.0 Max TC CSI: 0.751 Max BC CSI: 0.950 Max Web CSI: 0.811  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL AA 1771 - / - / 875 / 284 / 237 L 2390 - / - / 1570 / 97 / - Wind reactions based on MWFRS AA Brg Width = - Min Req = - L Brg Width = 4.0 Min Req = 2.4 Bearing L is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

**Lumber**  
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W11 2x4 SP #2;

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

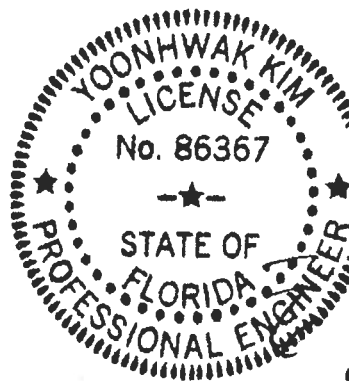
**Plating Notes**  
All plates are 5X6 except as noted.

**Wind**  
Wind loads based on MWFRS with additional C&C member design.  
Left end vertical not exposed to wind pressure.  
Right cantilever is exposed to wind

**Additional Notes**  
Refer to General Notes for additional information  
**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.  
The overall height of this truss excluding overhang is 9'-5-14.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
Y - W 1224 -87 R - Q 3033 -601
W - V 2602 -411 Q - N 1668 -257
V - S 3891 -759

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
A-AA 416 -1730 R - F 160 -597
A - Y 2032 -463 F - Q 572 -2070
Y - B 467 -1544 G - Q 1606 -476
B - W 1791 -467 N - I 1091 -162
W - C 340 -1134 N - M 1057 -176
C - V 1144 -302 I - M 276 -1472
V - E 166 -589 M - J 1582 -322
S - R 3017 -594 J - L 591 -2219
S - F 1210 -242

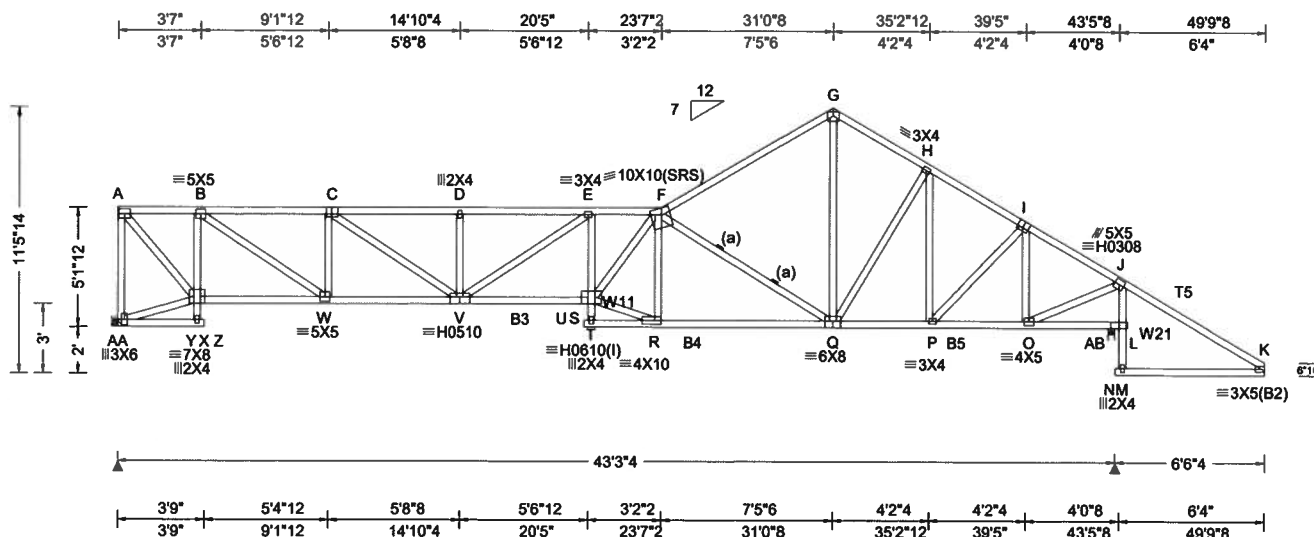


FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 573060 / FROM: CDM	SPEC Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A06	Cust: R 215 JRef: 1WRZ2150004 T55 / DrwNo: 017.20.1126.19755 / YK 01/17/2020
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<b>Loading Criteria</b> (psf)	<b>Wind Criteria</b>	<b>Snow Criteria</b> (Pg,Pf in PSF)	<b>Defl/CSI Criteria</b>	<b>▲ Maximum Reactions (lbs)</b>
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.401 U 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.845 U 612 240	AA 1771 /- /- /879 /263 /247
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.130 A - -	AB 2390 /- /- /1555 /71 /-
	EXP: C Kzt: NA		HORZ(TL): 0.275 A - -	Wind reactions based on MWFRS
Des Ld: 40.00	Mean Height: 15.02 ft	<b>Code / Misc Criteria</b>	Creep Factor: 2.0	AA Brg Width = - Min Req = -
NCBCLL: 10.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.868	AB Brg Width = 3.5 Min Req = 2.0
Soffit: 2.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.817	Bearing AB is a rigid surface.
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.911	Members not listed have forces less than 375#
Spacing: 24.0 "	C&C Dist a: 4.98 ft	FT/RT:20(0)/10(0)		<b>Maximum Top Chord Forces Per Ply (lbs)</b>
	Loc. from endwall: not in 13.00 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE, HS	VIEW Ver: 18.02.01B.0321.08	A - B 359 -1554 F - G 590 -2033
	Wind Duration: 1.60			

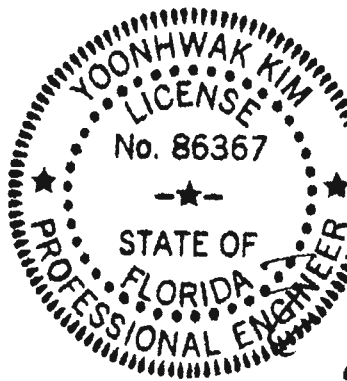
**Lumber**  
Top chord: 2x4 SP #2; T5 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B3,B4,B5 2x4 SP M-31;  
Webs: 2x4 SP #3; W11 2x4 SP #2; W21 2x4 SP M-31;

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

**Plating Notes**  
All plates are 5X6 except as noted.  
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

**Wind**  
Wind loads based on MWFRS with additional C&C member design.  
Left end vertical not exposed to wind pressure.  
Right cantilever is exposed to wind

**Additional Notes**  
Refer to General Notes for additional information  
**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.  
The overall height of this truss excluding overhang is 9-5-14.



**Maximum Bot Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - W	1611 - 177	Q - P	1619 - 248
W - V	3385 - 631	P - O	1201 - 194
V - S	5110 - 1075	O - L	1044 - 1330
R - Q	3897 - 834		

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
A - AA	421 - 1728	R - F	356 - 1434
A - Y	2269 - 524	F - Q	737 - 2671
Y - B	457 - 1534	G - Q	1515 - 430
B - W	2074 - 527	H - P	161 - 395
W - C	332 - 1129	P - I	744 - 200
C - V	1353 - 348	I - O	304 - 1055
V - E	191 - 742	O - J	1771 - 406
S - R	4037 - 858	J - L	523 - 1972
S - F	2001 - 404		

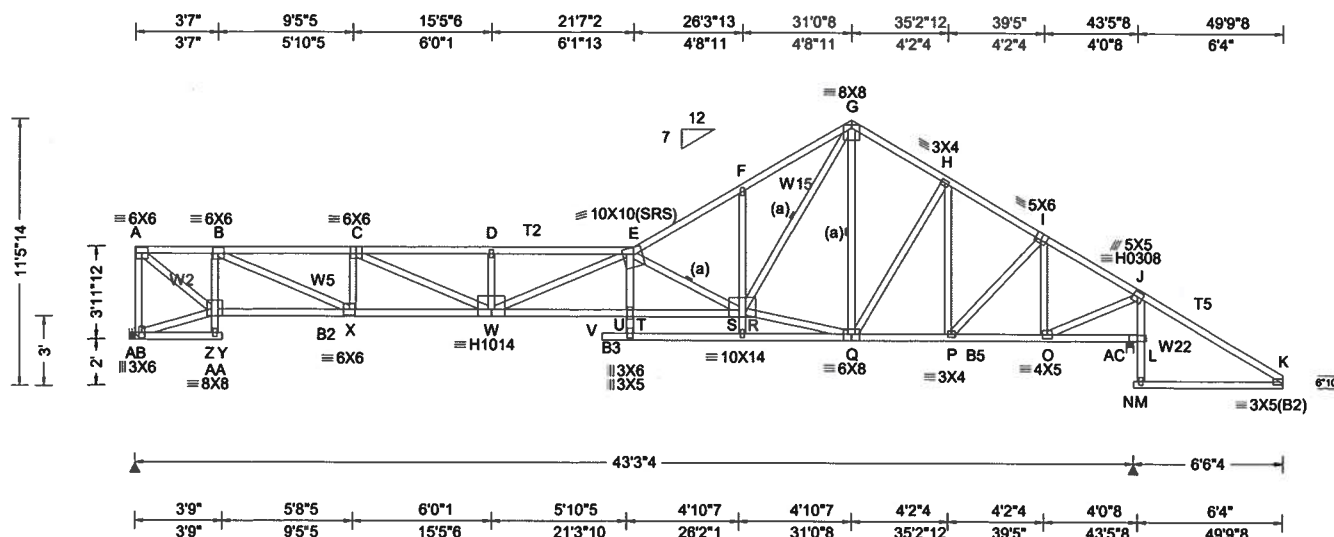
FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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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

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Suite 305  
Orlando FL, 32821



SEQN: 573068 / FROM: CDM	SPEC Qty: 1	Ply: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A07	Cust: R 215 JRef: 1WRZ2150004 T56 / DrwNo: 017.20.1126.19787 / YK 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.02 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.650 V 795 240 VERT(CL): 1.374 V 376 240 HORZ(LL): 0.164 A - - HORZ(TL): 0.346 O - - Creep Factor: 2.0 Max TC CSI: 0.751 Max BC CSI: 0.717 Max Web CSI: 0.967  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Non-Gravity /Rw /U /RL AB 1771 -/- /895 /239 /258 AC 2390 -/- /1542 /46 -/- Wind reactions based on MWFRS AB Brg Width = - Min Req = - AC Brg Width = 3.5 Min Req = 2.0 Bearing AC is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2; T2,T5 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B2,B3,B5 2x4 SP M-31;  
Webs: 2x4 SP #3; W2,W5,W15 2x4 SP #2;  
W22 2x4 SP M-31;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Wind

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

Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

#### Additional Notes

Refer to General Notes for additional information

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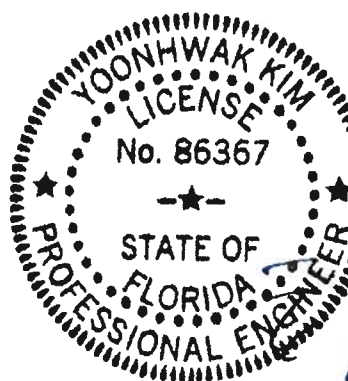
The overall height of this truss excluding overhang is 9-5-14.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Z - X	2359 - 393	Q - P	1625 - 246
X - W	4956 - 1043	P - O	1198 - 189
W - T	7056 - 1575	O - L	1043 - 1329
T - R	6979 - 1561		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - AB	425 - 1723	E - R	1071 - 4215
A - Z	2808 - 658	R - G	3359 - 848
Z - B	444 - 1511	R - Q	1537 - 178
B - X	2740 - 680	H - P	176 - 398
X - C	326 - 1116	P - I	758 - 203
C - W	1768 - 439	I - O	300 - 1055
W - E	145 - 537	O - J	1767 - 401
D - W	166 - 384	J - L	520 - 1971



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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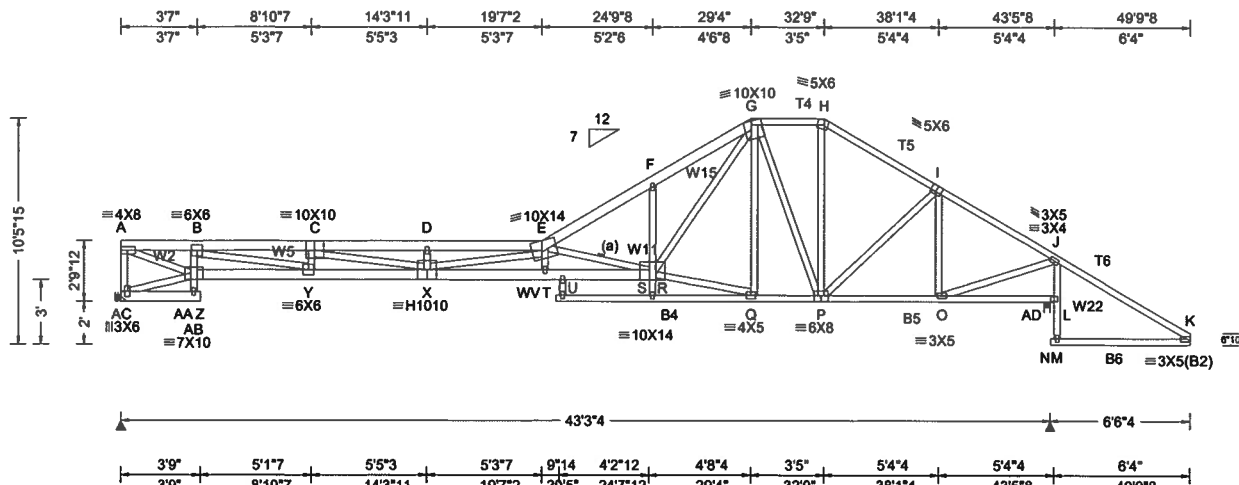
For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinst.org](http://www.tpinst.org); SBCA: [www.sbcindustry.com](http://www.sbcindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 573072 / FROM: CDM	SPEC Qty: 1	Ply: 2	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A08	Cust: R 215 JRef: 1WRZ2150004 T58 / DrwNo: 017.20.1126.19709 / YK 01/17/2020
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2 Complete Trusses Required



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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.98 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.859 E 602 240 VERT(CL): 1.778 E 291 240 HORZ(LL): 0.175 N - - HORZ(TL): 0.379 N - - Creep Factor: 2.0 Max TC CSI: 0.591 Max BC CSI: 0.735 Max Web CSI: 0.938  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL AC 2678 -/-/-/-/442 -/ AD 2636 -/-/-/-/482 -/ Wind reactions based on MWFRS AC Brg Width = - Min Req = - AD Brg Width = 3.5 Min Req = 1.5 Bearing AD is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				A - B 549 -3230 F - G 573 -3206 B - C 1124 -6561 G - H 173 -996 C - D 1511 -8640 H - I 216 -1187 D - E 1511 -8640 I - J 169 -977 E - F 564 -3153

**Lumber**  
Top chord: 2x6 SP 2400f-2.0E; T4,T5,  
T6 2x4 SP #2;  
Bot chord: 2x6 SP 2400f-2.0E; B4,B6 2x4 SP #2;  
B5 2x4 SP M-31;  
Webs: 2x4 SP #3; W2,W5,W11,W15,W22 2x4 SP #2;

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

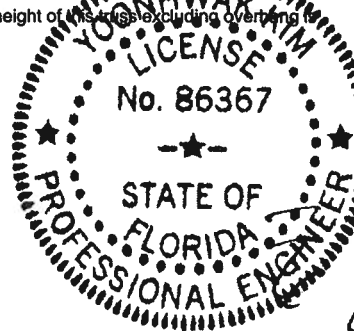
**Nailnote**  
Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**  
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 32 plf at 0.00 to 32 plf at 12.23  
TC: From 63 plf at 12.23 to 63 plf at 49.79  
BC: From 10 plf at 0.00 to 10 plf at 14.31  
BC: From 20 plf at 14.31 to 20 plf at 49.79  
TC: 102 lb Conc. Load at 0.48, 2.48  
TC: 114 lb Conc. Load at 4.48, 6.48, 8.48, 10.48  
TC: 650 lb Conc. Load at 12.23  
BC: 73 lb Conc. Load at 0.48, 2.48  
BC: 35 lb Conc. Load at 4.48, 6.48, 8.48, 10.48  
BC: 86 lb Conc. Load at 12.23

**Plating Notes**  
All plates are 2X4 except as noted.

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

**Additional Notes**  
Refer to General Notes for additional information  
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.  
The overall height of this truss excluding overhang is 8'-5"-15."



**Maximum Bot Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
AA - Y	3379 -576	T - R	8393 -1474
Y - X	6743 -1162	Q - P	1207 -211
X - W	8465 -1490	P - O	824 -134
W - T	8428 -1480	O - L	104 -676

**Maximum Web Forces Per Ply (lbs)**

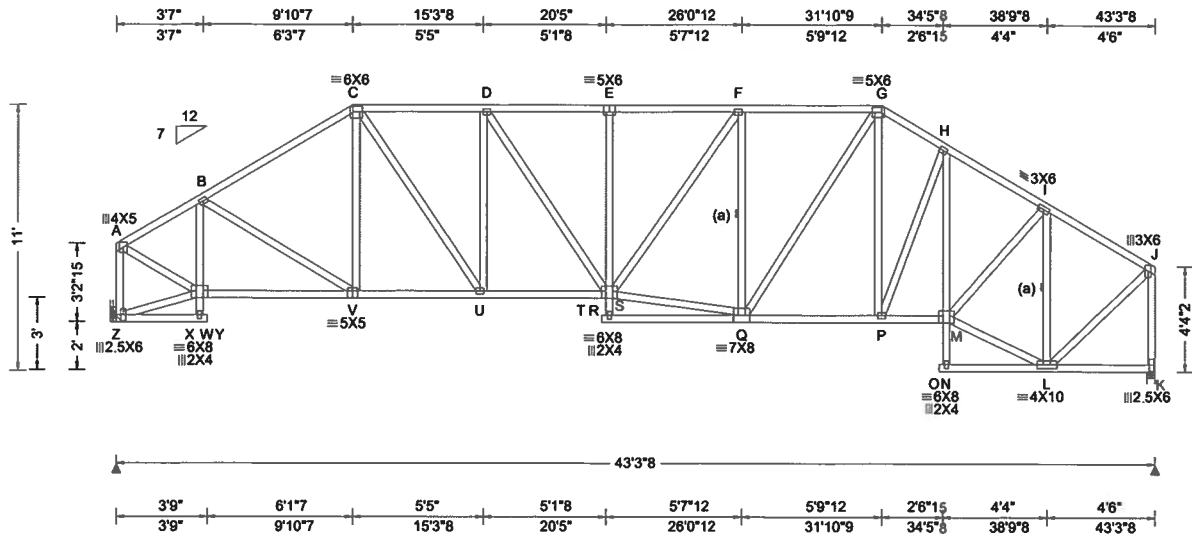
Webs	Tens.Comp.	Webs	Tens. Comp.
A - AC	223 -1264	E - R	1025 -5848
A - AA	3434 -584	R - G	2740 -484
AA - B	201 -1050	R - Q	1154 -203
B - Y	3291 -568	G - P	103 -573
Y - C	177 -864	P - H	448 -45
C - X	1959 -360	I - O	125 -473
X - E	510 -21	O - J	1115 -192
D - X	105 -379	J - L	241 -1132

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**  
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

**ALPINE**  
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: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.33 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.155 E 999 240 VERT(CL): 0.323 E 999 240 HORZ(LL): 0.094 L - - HORZ(TL): 0.195 L - - Creep Factor: 2.0 Max TC CSI: 0.482 Max BC CSI: 0.618 Max Web CSI: 0.832  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ /R- /Rh Non-Gravity /Rw /U /RL Z 1800 - /- /- /1001 /317 /175 K 1800 - /- /- /1026 /312 /- Wind reactions based on MWFRS Z Brg Width = - Min Req = - K Brg Width = 4.0 Min Req = 2.1 Bearing K is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 469 -1827 F - G 675 -2170 B - C 618 -2202 G - H 633 -2065 C - D 703 -2319 H - I 614 -2171 D - E 766 -2585 I - J 357 -1349 E - F 765 -2580

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Wind

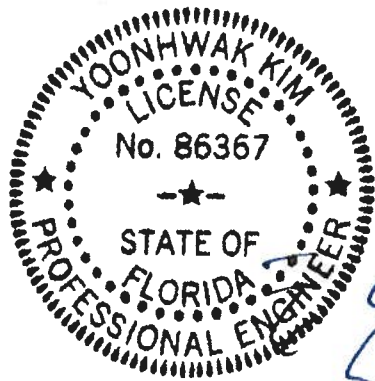
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9'-0".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
X - V	1568 -347	Q - P	1757 -353
V - U	1814 -357	P - M	1814 -389
U - R	2346 -495		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Z	445 -1761	F - Q	274 -937
A - X	1739 -414	Q - G	741 -190
X - B	206 -669	M - I	1003 -195
C - U	892 -229	M - L	1258 -290
U - D	220 -687	I - L	380 -1472
D - R	429 -110	L - J	1496 -343
R - F	684 -154	J - K	446 -1764
R - Q	2184 -462		

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

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

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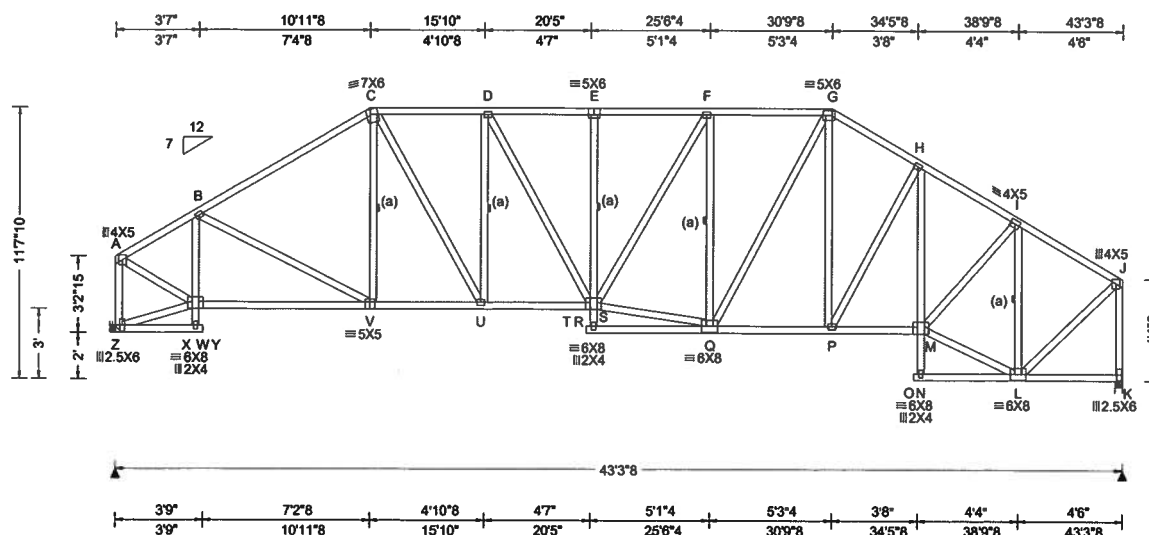
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For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCEA: [www.sbceaindustry.com](http://www.sbceaindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)



6750 Forum Drive  
Suite 305  
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SEQN: 573023 / FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHEER CONSTRUCTION Truss Label: A10	Cust: R 215 JRef: 1WRZ2150004 T12 / DrwNo: 017.20.1126.19692 / YK 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.99 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.33 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.143 E 999 240 VERT(CL): 0.296 E 999 240 HORZ(LL): 0.090 L - - HORZ(TL): 0.188 L - - Creep Factor: 2.0 Max TC CSI: 0.763 Max BC CSI: 0.746 Max Web CSI: 0.786  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Z 1800 - / - /1007 /100 /194 K 1800 - / - /1031 /111 - Non-Gravity Loc R+ /R- /Rh Z 1800 - / - /1007 /100 /194 K 1800 - / - /1031 /111 - Wind reactions based on MWFRS Z Brg Width = - Min Req = - K Brg Width = 4.0 Min Req = 2.1 Bearing K is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Wind

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

End verticals not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

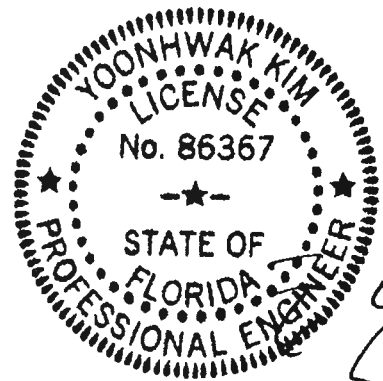
The overall height of this truss excluding overhang is 9'-7"-10".

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
X - V	1588 - 370	Q - P	1731 - 354
V - U	1805 - 362	P - M	1817 - 406
U - R	2193 - 468		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Z	462 - 1762	F - Q	267 - 896
A - X	1763 - 441	Q - G	623 - 171
X - B	220 - 673	M - I	1009 - 208
C - U	737 - 201	M - L	1258 - 301
U - D	203 - 616	I - L	394 - 1472
D - R	393 - 105	L - J	1495 - 357
R - F	647 - 148	J - K	464 - 1764
R - Q	2064 - 443		



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

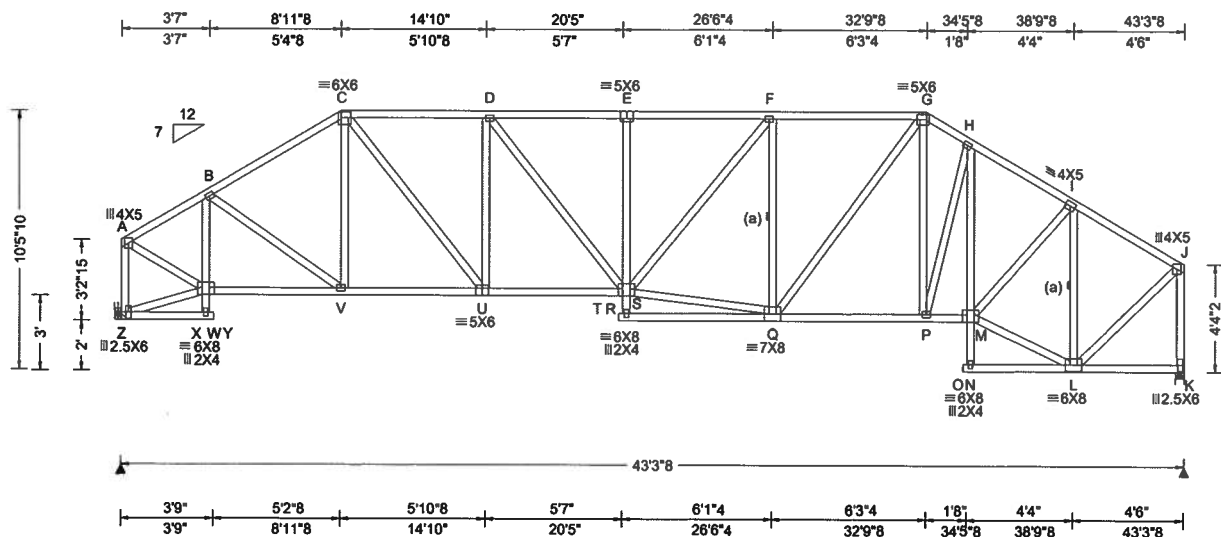
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For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinst.org](http://www.tpinst.org); SBCEA: [www.sbceindustry.com](http://www.sbceindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

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6750 Forum Drive  
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Orlando FL, 32821

SEQN: 573020 / FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: A11	Cust: R 215 JRef:1WRZ2150004 T59 / DrwNo: 017.20.1126.19631 / YK 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.41 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.33 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.169 E 999 240 VERT(CL): 0.352 E 999 240 HORZ(LL): 0.098 L - - HORZ(TL): 0.203 L - - Creep Factor: 2.0 Max TC CSI: 0.487 Max BC CSI: 0.710 Max Web CSI: 0.875  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL Z 1800 -/- /- /993 /110 /161 K 1800 -/- /- /1018 /119 -/ Wind reactions based on MWFRS Z Brg Width = - Min Req = - K Brg Width = 4.0 Min Req = 2.1 Bearing K is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 488 -1819 F - G 725 -2294 B - C 640 -2186 G - H 656 -2059 C - D 759 -2461 H - I 642 -2171 D - E 839 -2784 I - J 373 -1349 E - F 838 -2778

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Wind

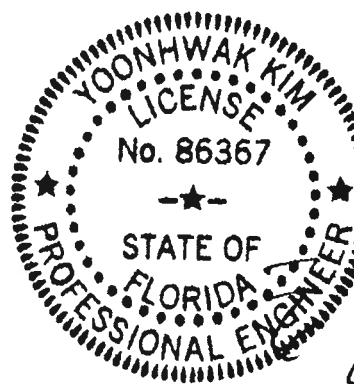
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
X - V	1554 -360	Q - P	1777 -384
V - U	1815 -384	P - M	1816 -409
U - R	2492 -564		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Z	467 -1761	F - Q	298 -973
A - X	1722 -428	Q - G	848 -222
X - B	208 -666	M - I	1001 -203
C - U	1033 -273	M - L	1257 -305
U - D	247 -743	I - L	399 -1473
D - R	471 -126	L - J	1496 -361
R - F	733 -176	J - K	468 -1764
R - Q	2298 -521		

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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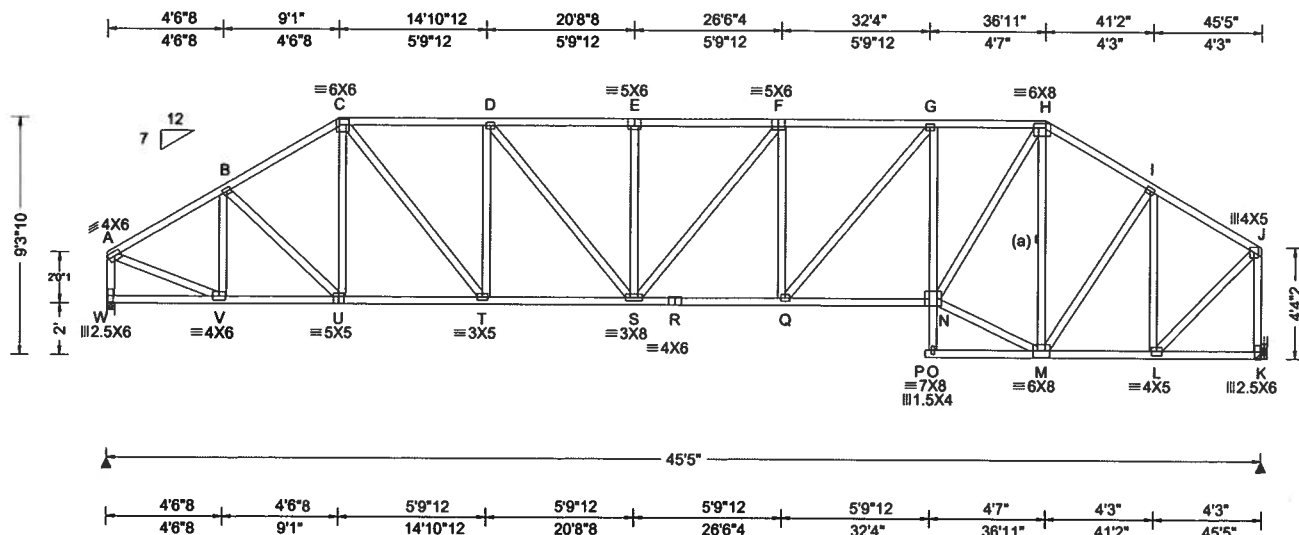
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**ALPINE**  
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SEQN: 571150 / FROM: CDM	HIPS Qty: 1	Job Number: 19-3769 /Pamell /ZECHEER CONSTRUCTION Truss Label: A12	Cust: R 215 JRef:1WRZ2150004 T63 / DrwNo: 017.20.1126.19552 / FV 01/17/2020
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Loading 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.65 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.54 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.209 E 999 240 VERT(CL): 0.435 E 999 240 HORZ(LL): 0.093 L - - HORZ(TL): 0.194 L - - Creep Factor: 2.0 Max TC CSI: 0.444 Max BC CSI: 0.810 Max Web CSI: 0.843  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ / R- / Rh Non-Gravity Loc R+ / R- / Rh W 1888 - / - /1052 /124 /144 K 1888 - / - /1043 /121 /- Wind reactions based on MWFRS W Brg Width = 3.7 Min Req = 2.2 K Brg Width = - Min Req = - Bearing W is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.
				A - B 566 -2132 F - G 878 -2992 B - C 693 -2370 G - H 781 -2577 C - D 813 -2710 H - I 556 -1776 D - E 896 -3062 I - J 375 -1346 E - F 896 -3062

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

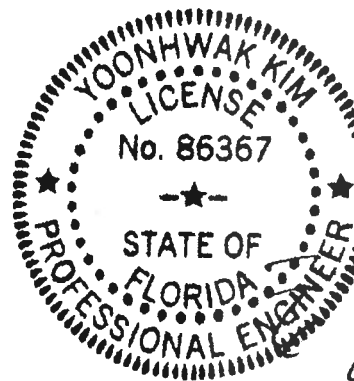
End verticals not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 7'-3"-10."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
V - U	1816 -453	R - Q	3010 -716
U - T	1985 -457	Q - N	2597 -618
T - S	2742 -655	M - L	1149 -283
S - R	3010 -716		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - W	491 -1847	G - N	261 -831
A - V	1894 -456	N - M	1607 -365
V - B	182 -590	N - H	2051 -515
C - T	1152 -298	M - H	256 -1108
T - D	251 -777	M - I	581 -92
D - S	509 -130	I - L	285 -1005
F - Q	163 -442	L - J	1563 -384
Q - G	633 -160	J - K	494 -1854

**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
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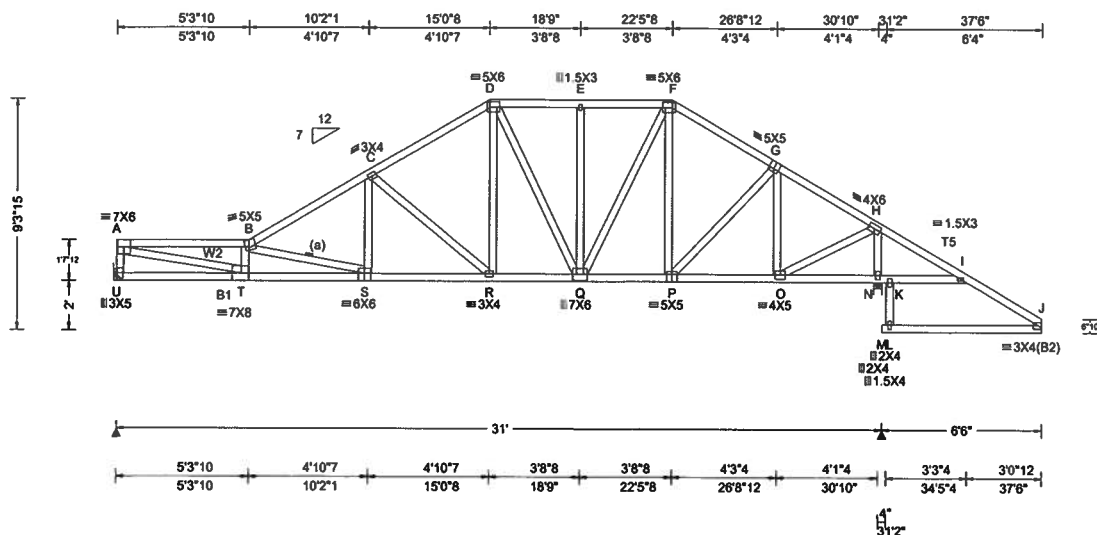
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



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Orlando FL, 32821

SEQN: 571173 / FROM: CDM	SPEC Qty: 1	Ply: 1 Job Number: 19-3769 /Pamell /ZECHEER CONSTRUCTION Truss Label: A8A	Cust: R 215 JRef: 1WRZ2150004 T20 / DrwNo: 017.20.1126.18680 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.75 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.193 B 999 240 VERT(CL): 0.446 K 179 240 HORZ(LL): -0.103 M - - HORZ(TL): 0.261 M - - Creep Factor: 2.0 Max TC CSI: 0.861 Max BC CSI: 0.558 Max Web CSI: 0.883  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh /Rw /U /RL U 1251 -/- /- /- /226 -/ N 1896 -/- /- /- /351 -/ Wind reactions based on MWFRS U Brg Width = - Min Req = - N Brg Width = 4.0 Min Req = 1.9 Bearing N is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2; T5 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;  
Webs: 2x4 SP #3; W2 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

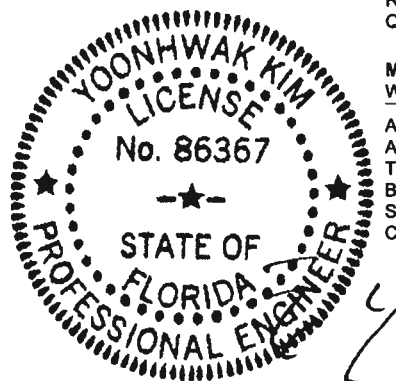
#### Wind

Wind loads and reactions based on MWFRS.  
Right cantilever is exposed to wind

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7-3-15.

Laterally brace chord above/below filler at 24" OC (or as designed) including a lateral brace on chord directly above/ below both ends of filler (if no rigid diaphragm exists at that point)



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01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	4036 -731	P - O	856 -128
S - R	2049 -369	O - N	135 -800
R - Q	1355 -239	N - K	148 -838
Q - P	1028 -173	K - I	143 -799

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - U	241 -1177	D - R	694 -68
A - T	3913 -691	Q - F	546 -102
T - B	254 -996	G - O	189 -726
B - S	374 -2028	O - H	1618 -291
S - C	691 -59	H - N	394 -1762
C - R	173 -925		

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

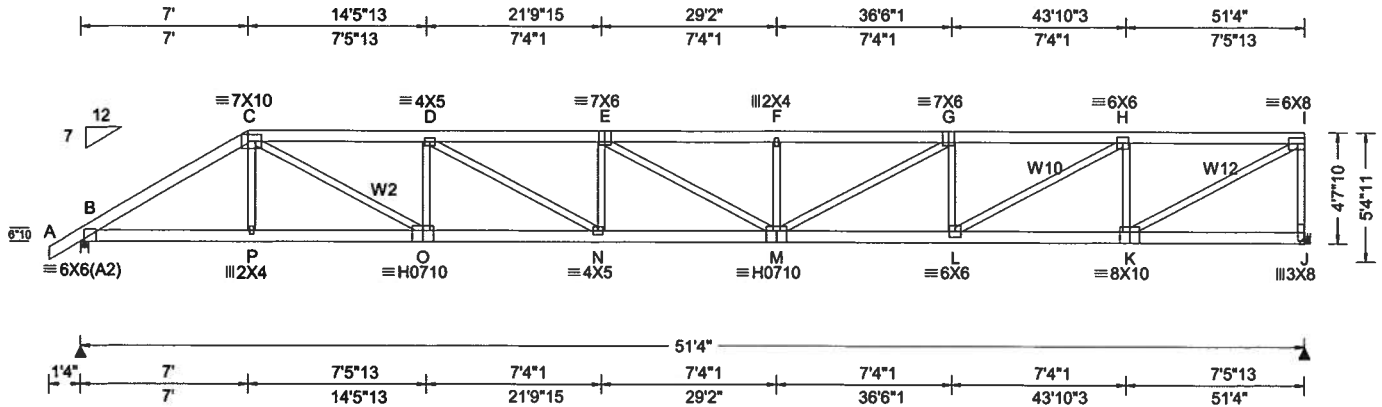
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A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

For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCE: [www.sbceindustry.com](http://www.sbceindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

**ALPINE**  
ANTHONY COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

2 Complete Trusses Required



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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.13 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.511 F 999 240 VERT(CL): 1.029 F 596 240 HORZ(LL): 0.103 C - - HORZ(TL): 0.207 C - - Creep Factor: 2.0 Max TC CSI: 0.339 Max BC CSI: 0.513 Max Web CSI: 0.859  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ /R- /Rh Non-Gravity /Rw /U /RL B 5182 - /- /- /1083 -/ J 5476 - /- /- /1209 -/ Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.1 J Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.
				B - C 977 -4672 F - G 1717 -8162 C - D 1372 -6740 G - H 1454 -6780 D - E 1640 -8117 H - I 900 -4133 E - F 1717 -8162

#### Lumber

Top chord: 2x6 SP 2400f-2.0E;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W2, W10 2x4 SP #2;  
W12 2x4 SP M-31;

#### 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 63 plf at -1.33 to 63 plf at 7.00  
TC: From 32 plf at 7.00 to 32 plf at 51.33  
BC: From 5 plf at -1.33 to 5 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 51.33  
TC: 294 lb Conc. Load at 7.03  
TC: 199 lb Conc. Load at 9.06, 11.06, 13.06, 15.06  
25.06, 27.06, 29.06, 31.06, 33.06, 35.06, 37.06, 39.06  
41.06, 43.06, 45.06, 47.06, 49.06, 51.06  
TC: 205 lb Conc. Load at 17.06, 19.06, 21.06, 23.06  
BC: 503 lb Conc. Load at 7.03  
BC: 134 lb Conc. Load at 9.06, 11.06, 13.06, 15.06  
25.06, 27.06, 29.06, 31.06, 33.06, 35.06, 37.06, 39.06  
41.06, 43.06, 45.06, 47.06, 49.06, 51.06  
BC: 135 lb Conc. Load at 17.06, 19.06, 21.06, 23.06

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

#### Additional Notes

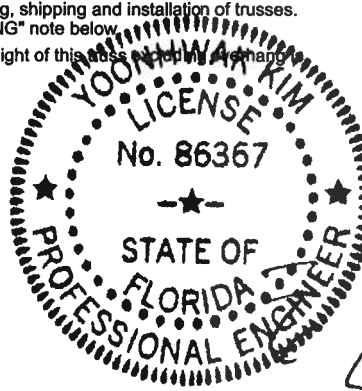
Refer to General Notes for additional information  
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.  
The overall height of this truss is 4'-7"-10".

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	3978 -825	N - M	8151 -1652
P - O	3991 -825	M - L	6864 -1477
O - N	6828 -1395	L - K	4275 -938

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	3159 -628	G - L	328 -1210
O - D	333 -1268	L - H	2911 -600
D - N	1499 -285	H - K	539 -2044
N - E	173 -482	K - I	4755 -1036
F - M	200 -474	I - J	612 -2594
M - G	1501 -277		



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

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

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

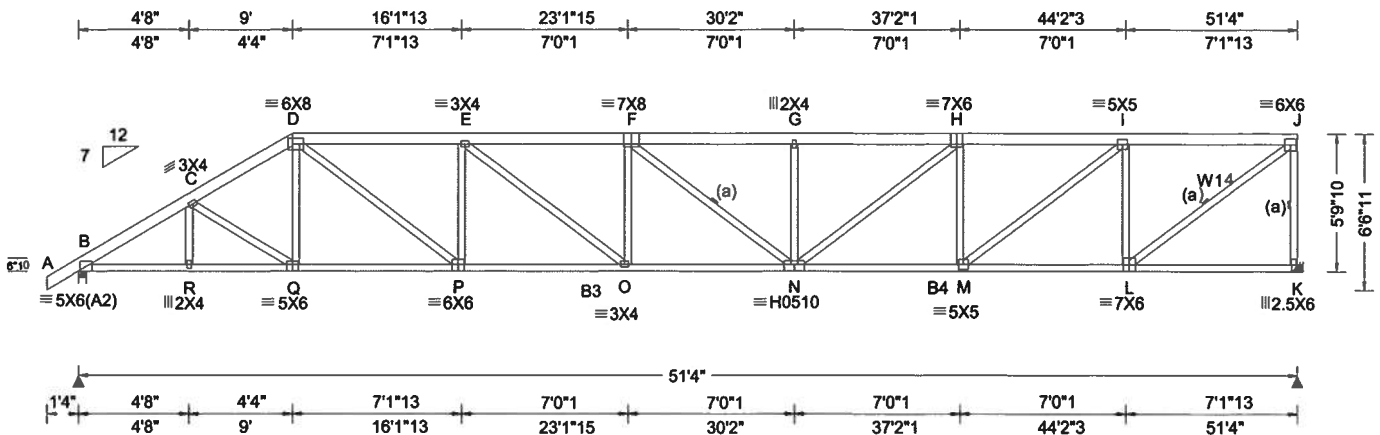
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569345 / FROM: CDM	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: B02	Cust: R 215 JRef: 1WRZ2150004 T66 / DrwNo: 017.20.1126.19366 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 5.13 ft Loc. from endwall: not in 6.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.320 F 999 240 VERT(CL): 0.662 F 928 240 HORZ(LL): 0.103 L - - HORZ(TL): 0.212 L - - Creep Factor: 2.0 Max TC CSI: 0.203 Max BC CSI: 0.999 Max Web CSI: 0.973  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Non-Gravity Loc /Rw /U /RL B 2232 - /- /- /1279 /395 /171 K 2127 - /- /- /1065 /401 - /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 2.6 K Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				B - C 867 - 3572 F - G 1261 - 4915 C - D 893 - 3413 G - H 1261 - 4915 D - E 1153 - 4327 H - I 1027 - 4022 E - F 1295 - 4990 I - J 628 - 2429

#### Lumber

Top chord: 2x6 SP 2400f-2.0E;  
Bot chord: 2x4 SP #2; B3, B4 2x4 SP M-31;  
Webs: 2x4 SP #3; W14 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

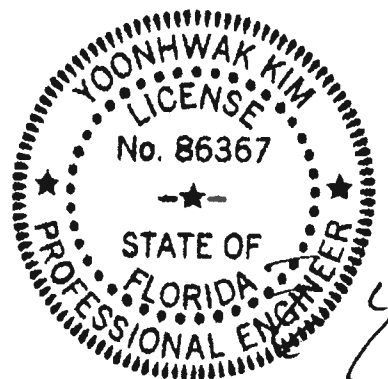
Right end vertical not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 5'-9"-10."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	2956 - 858	O - N	5009 - 1302
R - Q	2956 - 858	N - M	4080 - 1045
Q - P	2927 - 810	M - L	2522 - 656
P - O	4377 - 1168		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - P	1767 - 432	H - M	331 - 1077
P - E	289 - 941	M - I	1928 - 491
E - O	789 - 176	I - L	513 - 1726
G - N	166 - 441	L - J	3073 - 794
N - H	1065 - 282	J - K	579 - 2070

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

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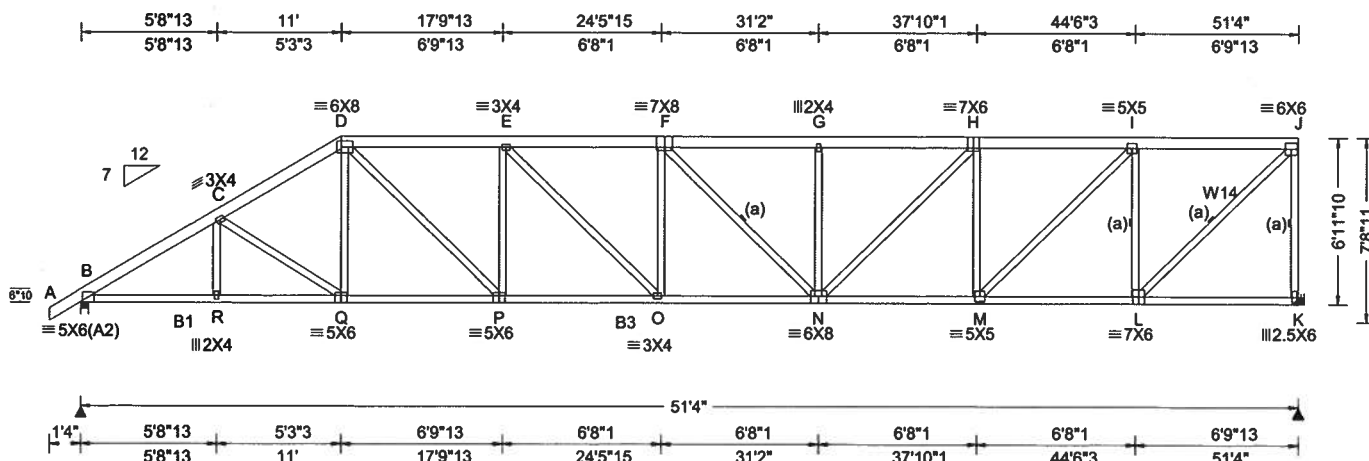
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569348 / FROM: CDM	HIPM Qty: 1	Ply: 1 Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: B03	Cust: R 215 JRef: 1WRZ2150004 T21 / DrwNo: 017.20.1126.19146 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 5.13 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.247 F 999 240 VERT(CL): 0.510 F 999 240 HORZ(LL): 0.093 L - - HORZ(TL): 0.192 L - - Creep Factor: 2.0 Max TC CSI: 0.261 Max BC CSI: 0.893 Max Web CSI: 0.927  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Non-Gravity Loc /Rw /U /RL B 2232 - /- /- /1307 /389 /205 K 2127 - /- /- /1073 /404 - Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.8 K Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x6 SP 2400F-2.0E;  
Bot chord: 2x4 SP #2; B1,B3 2x4 SP M-31;  
Webs: 2x4 SP #3; W14 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Right end vertical not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

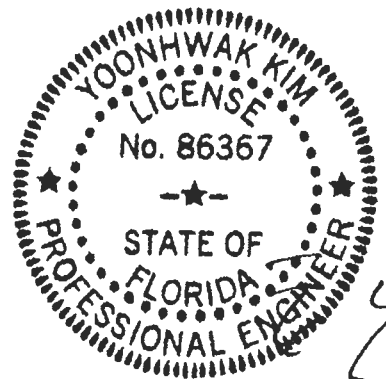
The overall height of this truss excluding overhang is 6-11-10.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	2992 - 877	O - N	4152 - 1090
R - Q	2991 - 877	N - M	3258 - 843
Q - P	2806 - 785	M - L	1993 - 523
P - O	3781 - 1019		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - P	1319 - 319	H - M	344 - 1125
P - E	247 - 795	M - I	1747 - 448
E - O	519 - 120	I - L	519 - 1746
G - N	158 - 420	L - J	2693 - 703
N - H	1028 - 275	J - K	583 - 2073



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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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

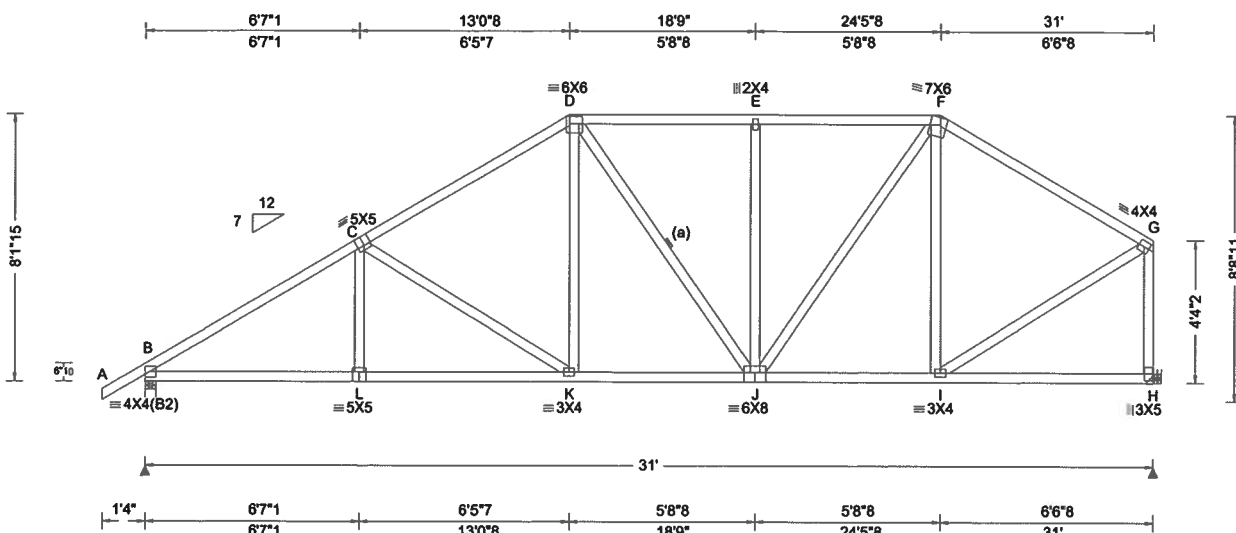


6750 Forum Drive  
Suite 305  
Orlando FL, 32821





SEQN: 569305 / FROM: CDM	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: C01	Cust: R 215 JRef: 1WRZ2150004 T35 / DrwNo: 017.20.1126.18555 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.076 K 999 240	B	1384	/-	/-	/846	/236	/185
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.157 K 999 240	H	1284	/-	/-	/674	/229	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.030 I - -	Wind reactions based on MWFRS						
	EXP: C Kzt: NA		HORZ(TL): 0.062 I - -	B	Brg Width = 4.0		Min Req = 1.6			
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	H	Brg Width = -		Min Req = -			
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.737	Bearing B is a rigid surface.						
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.845	Members not listed have forces less than 375#						
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max Web CSI: 0.533	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	C&C Dist a: 3.10 ft	Rep Fac: Yes		Chords	Tens.Comp.		Chords	Tens. Comp.		
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		B - C	448	-2030	E - F	409	-1230	
	GCpi: 0.18	Plate Type(s):	VIEW Ver: 18.02.01B.0321.08							
	Wind Duration: 1.60	WAVE								

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

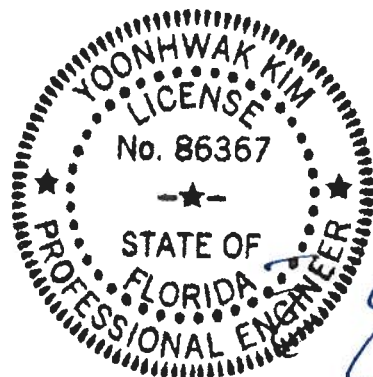
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8'-1-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	1654 -427	K - J	1261 -291
L - K	1652 -427	J - I	883 -197

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	162 -466	F - I	151 -400
D - K	449 -71	I - G	1037 -231
J - F	589 -144	G - H	333 -1231

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

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

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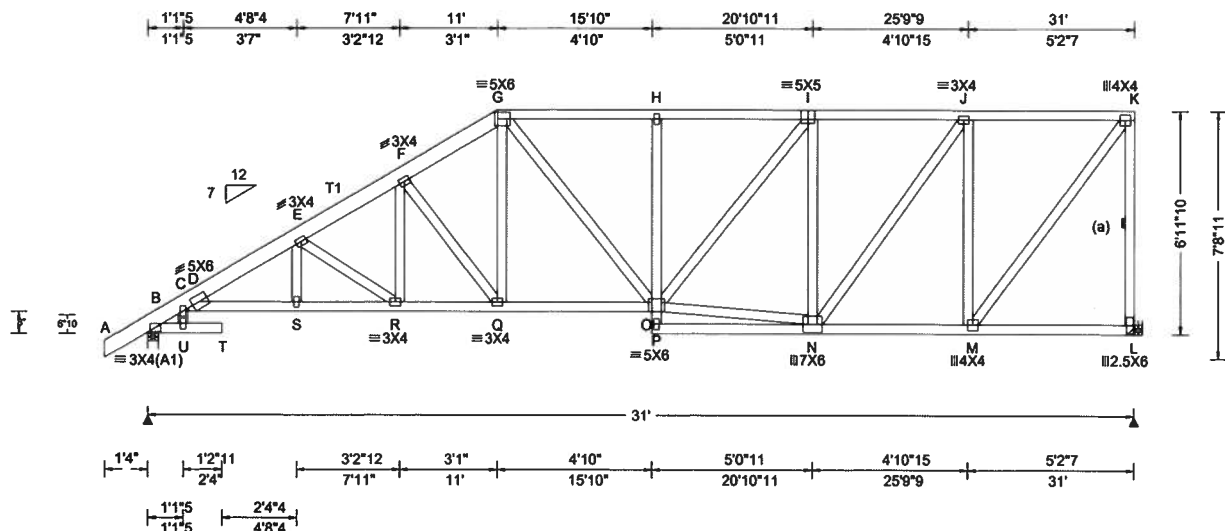
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569302 / FROM: CDM	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: C02	Cust: R 215 JRef: 1WRZ2150004 T33 / DrwNo: 017.20.1126.19131 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.10 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.148 T 999 240 VERT(CL): 0.306 T 999 240 HORZ(LL): 0.086 M - - HORZ(TL): 0.177 M - - Creep Factor: 2.0 Max TC CSI: 0.460 Max BC CSI: 0.580 Max Web CSI: 0.860  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ /R- /Rh Non-Gravity /Rw /U /RL B 1388 - /- /- /850 /226 /205 L 1280 - /- /- /665 /253 - /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.6 L Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 0 -654 G - H 474 -1703 C - D 0 -599 H - I 472 -1696 D - E 572 -2511 I - J 356 -1320 E - F 540 -2190 J - K 225 -836 F - G 482 -1817

#### Lumber

Top chord: 2x4 SP #2; T1 2x6 SP 2400F-2.0E;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

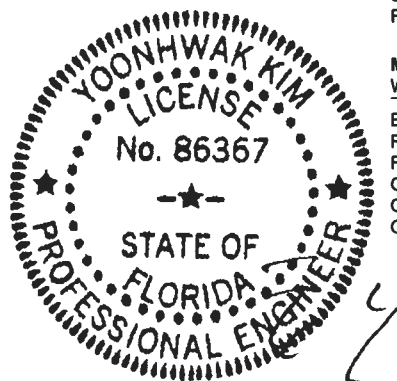
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6'-11"-10".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
D - S	2309 -701	Q - O	1536 -445
S - R	2306 -700	N - M	879 -239
R - Q	1797 -539		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
E - R	194 -608	I - N	242 -727
R - F	411 -107	N - J	760 -205
F - Q	157 -441	J - M	316 -993
G - Q	432 -98	M - K	1384 -372
O - I	570 -176	K - L	363 -1239
O - N	1299 -351		

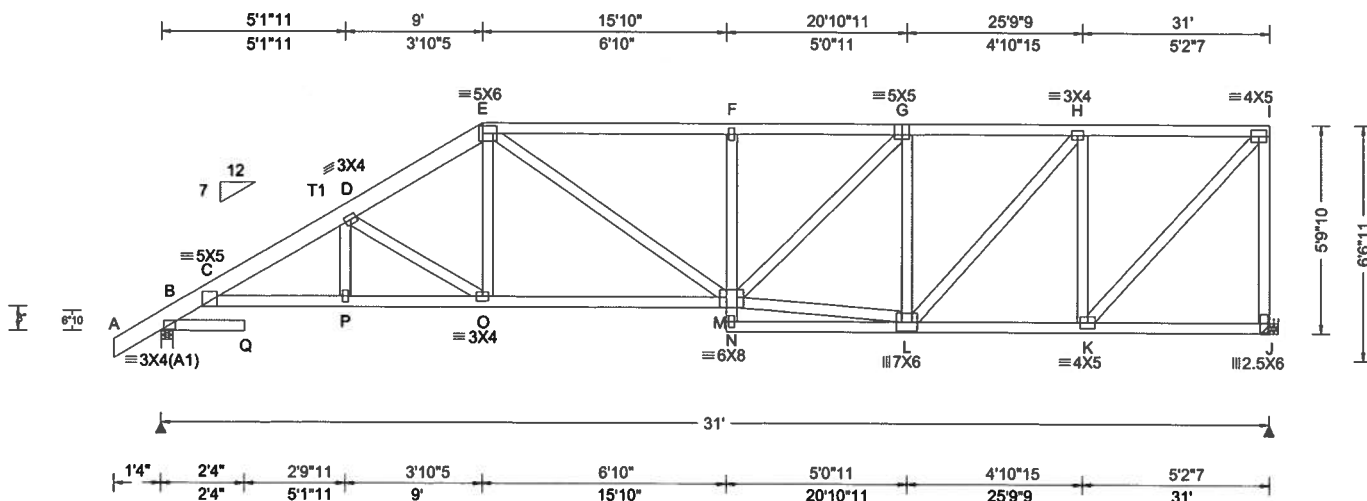
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SEQN: 569298 / FROM: CDM	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: C03	Cust: R 215 JRef: 1WRZ2150004 T32 / DrwNo: 017.20.1126.19600 / FV 01/17/2020
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Loading 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.10 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.174 Q 999 240 VERT(CL): 0.358 Q 999 240 HORZ(LL): 0.094 K - - HORZ(TL): 0.193 K - - Creep Factor: 2.0 Max TC CSI: 0.526 Max BC CSI: 0.778 Max Web CSI: 0.740  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Non-Gravity Loc /Rw /U /RL B - 1388 - /- /- /831 /234 /172 J 1280 - /- /- /653 /248 - /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.6 J Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

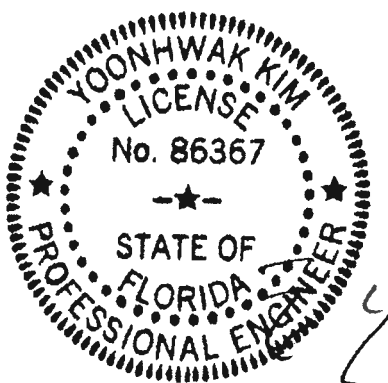
**Lumber**  
Top chord: 2x4 SP #2; T1 2x6 SP 2400f-2.0E;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

**Plating Notes**  
All plates are 2X4 except as noted.

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

**Wind**  
Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.

**Additional Notes**  
Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 5-9-10.



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01/17/2020

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

C - P	2225	-667	O - M	1747	-497
P - O	2222	-666	L - K	1065	-284

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

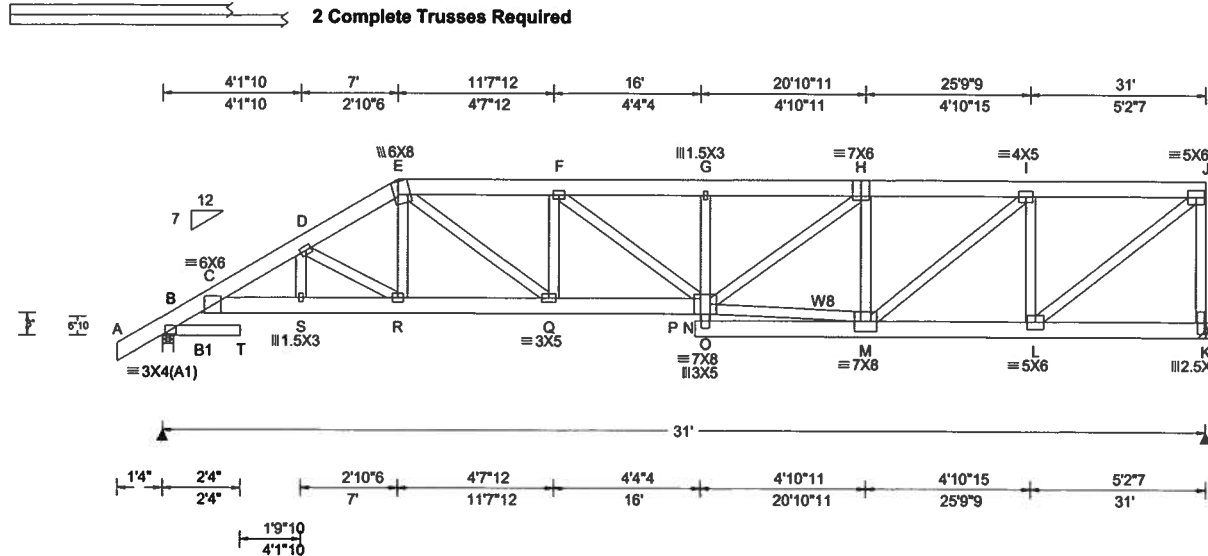
D - O	202	-568	G - L	245	-767
E - O	484	-80	L - H	812	-212
E - M	477	-106	H - K	311	-994
F - M	152	-377	K - I	1498	-396
M - G	724	-213	I - J	357	-1239
M - L	1571	-410			

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Orlando FL, 32821



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-10		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity							
TCDL: 10.00		Speed: 130 mph		Pf: NA Ce: NA		VERT(LL): 0.190 T 999 240		Loc		R+ / R-		/ Rh		Non-Gravity	
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.383 T 965 240		B		3143		/-		/-	
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.104 L - -		K		3161		/-		/-	
Des Ld: 40.00		EXP: C Kzt: NA		<b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.209 L - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 15.00 ft				Creep Factor: 2.0		B		Brg Width = 4.0		Min Req = 1.9			
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.741		K		Brg Width = -		Min Req = -			
Load Duration: 1.25		BCDL: 5.0 psf				Max BC CSI: 0.270		Bearing B is a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.850		Members not listed have forces less than 375#							
		C&C Dist a: 3.10 ft				VIEW Ver: 18.02.01B.0321.08		<b>Maximum Top Chord Forces Per Ply (lbs)</b>							
		Loc. from endwall: not in 4.50 ft						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18						B - C		195 -752		F - G		988 -3894	
		Wind Duration: 1.60													

**Lumber**  
Top chord: 2x6 SP 2400f-2.0E;  
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP #2;  
Webs: 2x4 SP #3; W8 2x4 SP #2;

**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 63 plf at -1.33 to 63 plf at 7.00  
TC: From 32 plf at 7.00 to 32 plf at 31.00  
BC: From 5 plf at -1.33 to 5 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 31.00  
TC: 329 lb Conc. Load at 7.03  
TC: 136 lb Conc. Load at 9.06,11.06,13.06,15.06  
TC: 199 lb Conc. Load at 17.06,19.06,21.06,23.06  
25.06,27.06,29.06  
BC: 464 lb Conc. Load at 7.03  
BC: 243 lb Conc. Load at 9.06,11.06,13.06,15.06  
BC: 134 lb Conc. Load at 17.06,19.06,21.06,23.06  
25.06,27.06,29.06

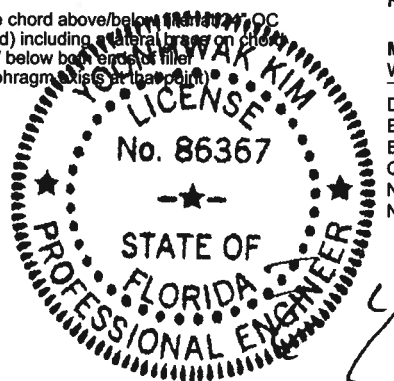
**Plating Notes**  
All plates are 3X4 except as noted.

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

**Wind**  
Wind loads and reactions based on MWFRS.  
Right end vertical not exposed to wind pressure.  
  
**Additional Notes**  
Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4'-7"-10".  
  
Laterally brace chord above/below 11'-11 1/2" OC (or as designed) including lateral bracing on chord directly above/ below both ends of filler (if no rigid diaphragm exists at that point)

**Maximum Bot Chord Forces Per Ply (lbs)**  
Chords Tens.Comp. Chords Tens. Comp.  
C - S 3172 -798 Q - N 3617 -927  
S - R 3170 -797 M - L 1804 -446  
R - Q 2728 -696

**Maximum Web Forces Per Ply (lbs)**  
Webs Tens.Comp. Webs Tens. Comp.  
D - R 120 -525 H - M 341 -1097  
E - R 674 -184 M - I 1270 -316  
E - Q 1073 -282 I - L 366 -1216  
Q - F 70 -435 L - J 2230 -546  
N - H 1330 -354 J - K 389 -1524  
N - M 2667 -665

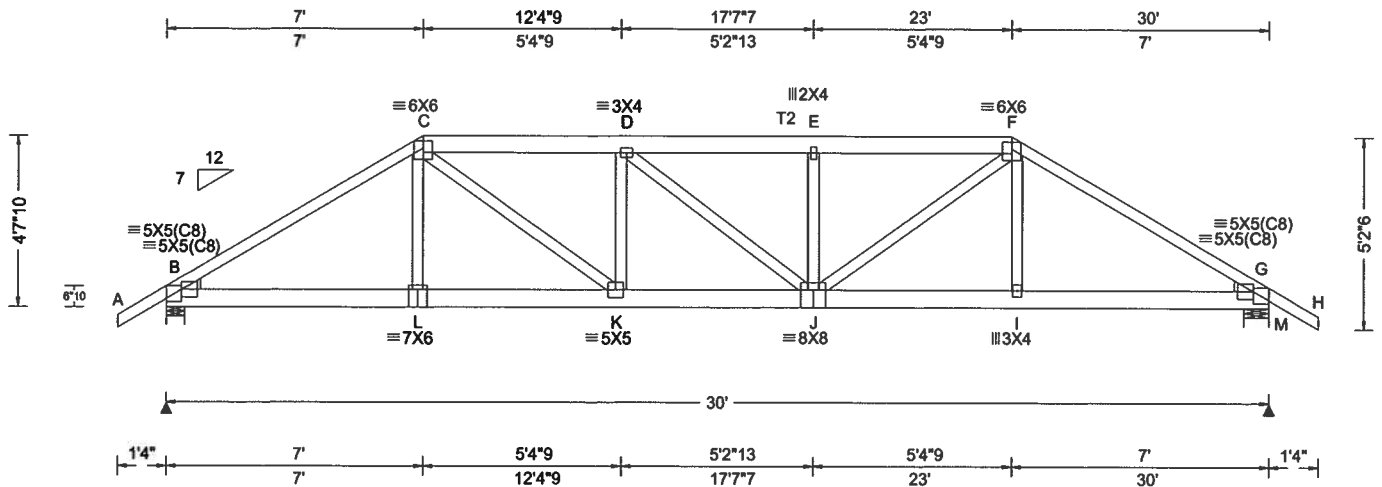


FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

SEQN: 569407 / FROM: CDM	HIPS Qty: 1	Ply: 1 Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: D01	Cust: R215 JRef: 1WRZ2150004 T45 / DrwNo: 017.20.1126.19477 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	2981	/-	/-	/-	/671	/-
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.176 E 999 240	M	2971	/-	/-	/-	/671	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.353 E 999 240	Wind reactions based on MWFRS						
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.056 I - -	B	Brg Width = 6.0		Min Req = 2.5			
	EXP: C Kzt: NA		HORZ(TL): 0.113 I - -	M	Brg Width = 8.0		Min Req = 2.5			
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Bearings B & G are a rigid surface.						
NCBCLL: 10.00	TCDL: 5.0 psf		Max TC CSI: 0.454	Members not listed have forces less than 375#						
Soffit: 2.00	BCDL: 5.0 psf		Max BC CSI: 0.527	Maximum Top Chord Forces Per Ply (lbs)						
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.756	Chords	Tens.Comp.	Chords	Tens.	Comp.		
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Code / Misc Criteria		B - C	1128 - 4989	E - F	1301	- 5743		
	Loc. from endwall: Any	Bldg Code: FBC 2017 RES								
	GCpi: 0.18	TPI Std: 2014								
	Wind Duration: 1.60	Rep Fac: Varies by Ld Case								
		FT/RT:20(0)/10(0)								
		Plate Type(s):								
		WAVE	VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP M-31; T2 2x6 SP 2400F-2.0E;  
Bot chord: 2x6 SP 2400F-2.0E;  
Webs: 2x4 SP #3;  
Lt Wedge: 2x4 SP #3; Rt Wedge: 2x4 SP #3;

#### Special Loads

—(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at -1.33 to 63 plf at 7.00  
TC: From 32 plf at 7.00 to 32 plf at 23.00  
TC: From 63 plf at 23.00 to 63 plf at 31.33  
BC: From 5 plf at -1.33 to 5 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 22.97  
BC: From 20 plf at 22.97 to 20 plf at 30.00  
BC: From 5 plf at 30.00 to 5 plf at 31.33  
TC: 293 lb Conc. Load at 7.03,22.97  
TC: 199 lb Conc. Load at 9.06,11.06,13.06,15.00  
16.94,18.94,20.94  
BC: 524 lb Conc. Load at 7.03  
BC: 134 lb Conc. Load at 9.06,11.06,13.06,15.00  
16.94,18.94,20.94  
BC: 503 lb Conc. Load at 22.97

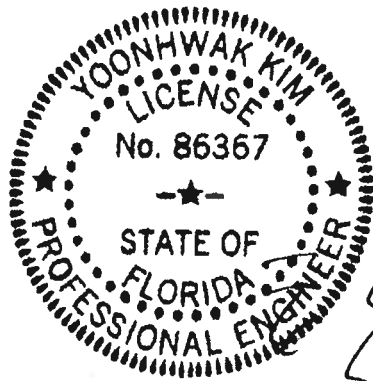
#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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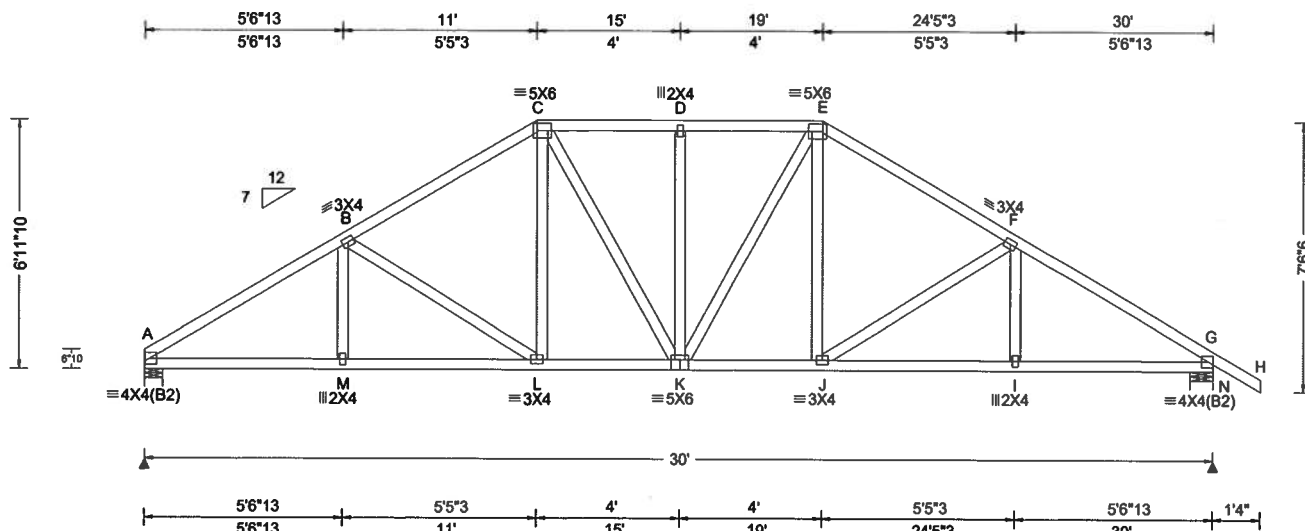


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Orlando FL, 32821



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Orlando FL, 32821

SEQN: 569413 / FROM: CDM	HIPS Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: D03	Cust: R 215 JRef: 1WRZ2150004 T41 / DrwNo: 017.20.1126.19476 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.092 D 999 240 VERT(CL): 0.190 D 999 240 HORZ(LL): 0.048 I - - HORZ(TL): 0.100 I - -  Creep Factor: 2.0 Max TC CSI: 0.602 Max BC CSI: 0.862 Max Web CSI: 0.304  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ /R- /Rh /Rw /U /RL A 1245 - /- /- /714 /211 /189 N 1340 - /- /- /790 /235 - Wind reactions based on MWFRS A Brg Width = 6.0 Min Req = 1.5 N Brg Width = 8.0 Min Req = 1.6 Bearings A & N are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 466 -1980 D - E 441 -1395 B - C 448 -1608 E - F 440 -1604 C - D 441 -1395 F - G 452 -1965

#### Lumber

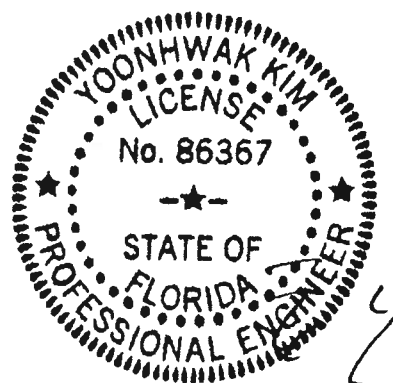
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 6-11-10.



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Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
A - M	1623 -307	K - J	1311 -193		
M - L	1622 -308	J - I	1605 -304		
L - K	1313 -189	I - G	1606 -304		

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

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

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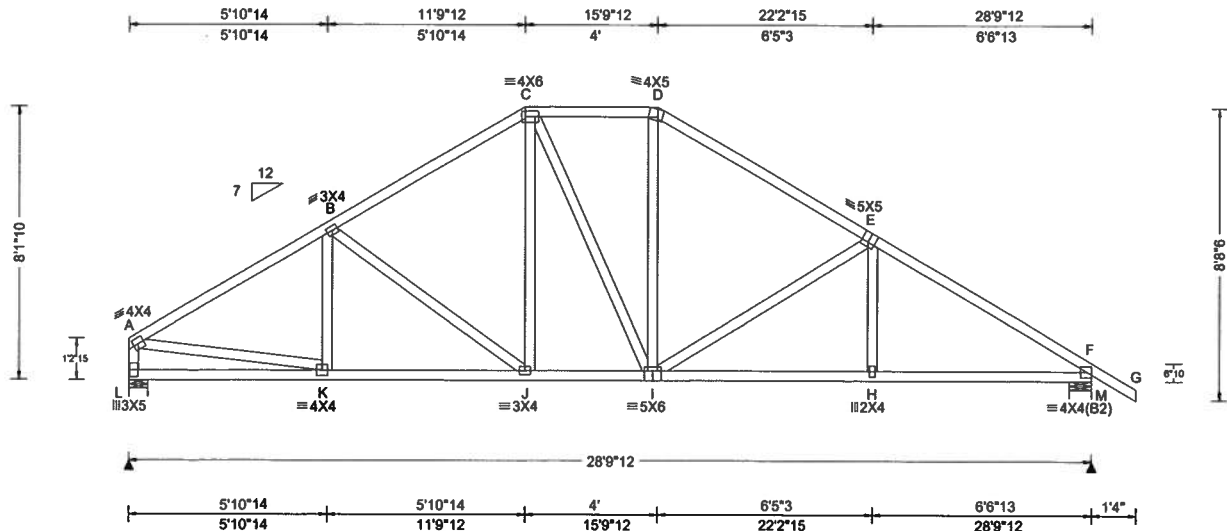
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For more information see this job's general notes page and these web sites: ALPINE: [www.alpinetw.com](http://www.alpinetw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCA: [www.sbcindustry.com](http://www.sbcindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569416 / FROM: CDM	HIPS Qty: 1	Ply: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: D04	Cust: R 215 JRef: 1WRZ2150004 T16 / DrwNo: 017.20.1126.19396 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.068 H 999 240 VERT(CL): 0.141 H 999 240 HORZ(LL): 0.033 H - - HORZ(TL): 0.069 H - - Creep Factor: 2.0 Max TC CSI: 0.607 Max BC CSI: 0.769 Max Web CSI: 0.555  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity Loc / Rw / U / RL L 1193 /- /- /677 /200 /205 M 1293 /- /- /771 /224 /- Wind reactions based on MWFRS L Brg Width = 7.0 Min Req = 1.5 M Brg Width = 8.0 Min Req = 1.5 Bearings L & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 378 -1626 D - E 387 -1381 B - C 393 -1350 E - F 414 -1868 C - D 382 -1107

#### Lumber

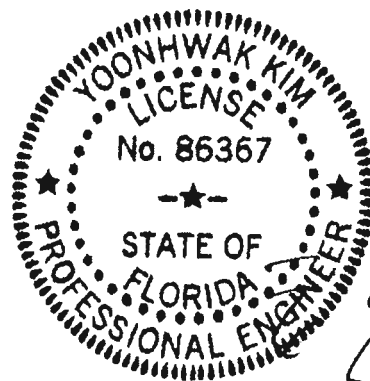
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 8'-1-10.



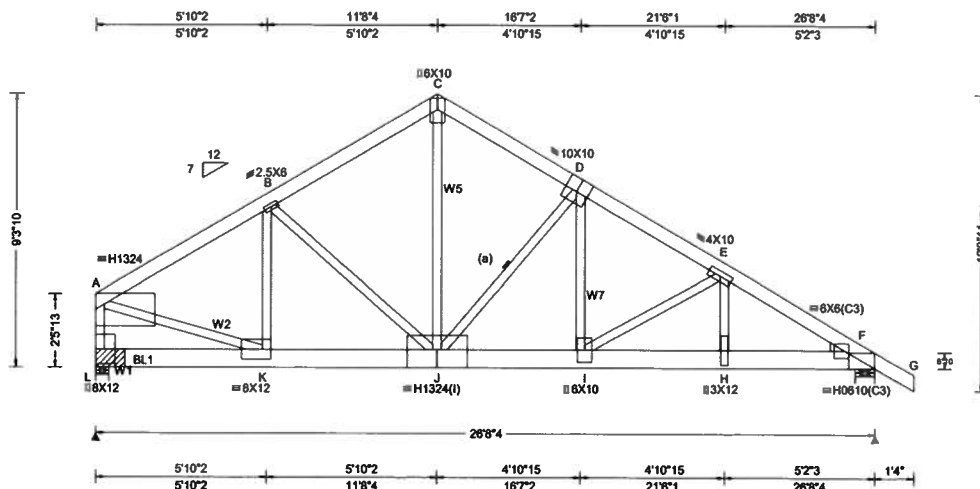
FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	1340 -218	I - H	1514 -262
J - I	1075 -108	H - F	1516 -262
Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
A - L	277 -1143	I - E	169 -488
A - K	1297 -243		

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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## 2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pt 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.54 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): HS, WAVE	PP Deflection in Loc L/defl L/# VERT(LL): 0.178 I 999 240 VERT(CL): 0.355 I 896 240 HORZ(LL): 0.051 B - - HORZ(TL): 0.103 B - - Creep Factor: 2.0 Max TC CSI: 0.354 Max BC CSI: 0.706 Max Web CSI: 0.928  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Non-Gravity Loc R+ /Rw /U /RL  L 14155 - /- /- /2876 - /- F 11739 - /- /- /2373 - /- Wind reactions based on MWFRS L Brg Width = 5.5 Min Req = - F Brg Width = 8.0 Min Req = 4.9 Bearings L & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

**Lumber**  
Top chord: 2x6 SP 2400f-2.0E;  
Bot chord: 2x8 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W1, W7 2x4 SP #2; W2, W5 2x4 SP M-31;  
Rt Wedge: 2x4 SP #3;

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

**Nailnote**  
Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 2 Rows @ 3.50" 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 63 plf at 0.00 to 63 plf at 11.69  
TC: From 32 plf at 11.69 to 32 plf at 22.69  
TC: From 63 plf at 22.69 to 63 plf at 28.02  
BC: From 20 plf at 0.00 to 20 plf at 2.25  
BC: From 10 plf at 2.25 to 10 plf at 22.69  
BC: From 20 plf at 22.69 to 20 plf at 26.69  
BC: From 5 plf at 26.69 to 5 plf at 28.02  
BC: 1800 lb Conc. Load at 0.25, 2.25, 4.25, 6.25  
BC: 1743 lb Conc. Load at 8.25, 10.25  
BC: 2033 lb Conc. Load at 12.25  
BC: 1719 lb Conc. Load at 12.75  
BC: 1707 lb Conc. Load at 14.75  
BC: 1771 lb Conc. Load at 16.75, 18.75, 20.75  
BC: 2678 lb Conc. Load at 22.69

**Plating Notes**  
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

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

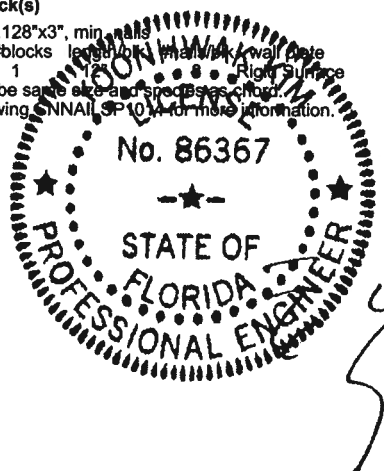
**Bearing Block(s)**  
Brg blocks: 0.128"x3", min. nails  
brg x-loc #blocks length block min. nail/wall depth  
1 0.00' 1 12" 8 Right Surface  
Brg block to be same size and species as chord.  
Refer to drawing SNNAIL SP 1014 for more information.

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

K - J 5969 - 1217 I - H 8990 - 1811  
J - I 7248 - 1464 H - F 9010 - 1815

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

A - L 1158 - 5617 J - D 582 - 2908  
A - K 6295 - 1282 D - I 3349 - 657  
K - B 771 - 126 I - E 388 - 1948  
B - J 168 - 782 E - H 2012 - 383  
C - J 6038 - 1201



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01/17/2020

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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

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SEQN: 299664 FROM: CDM Page 2 of 2	SPEC Ply: 2 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: D05	Cust: R 215 JRef: 1WRZ2150004 T60 DrwNo: 017.20.1129.59417 / YK 01/17/2020
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#### Blocking

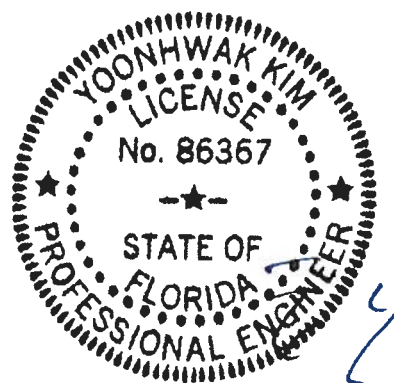
Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.0'

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-3-10.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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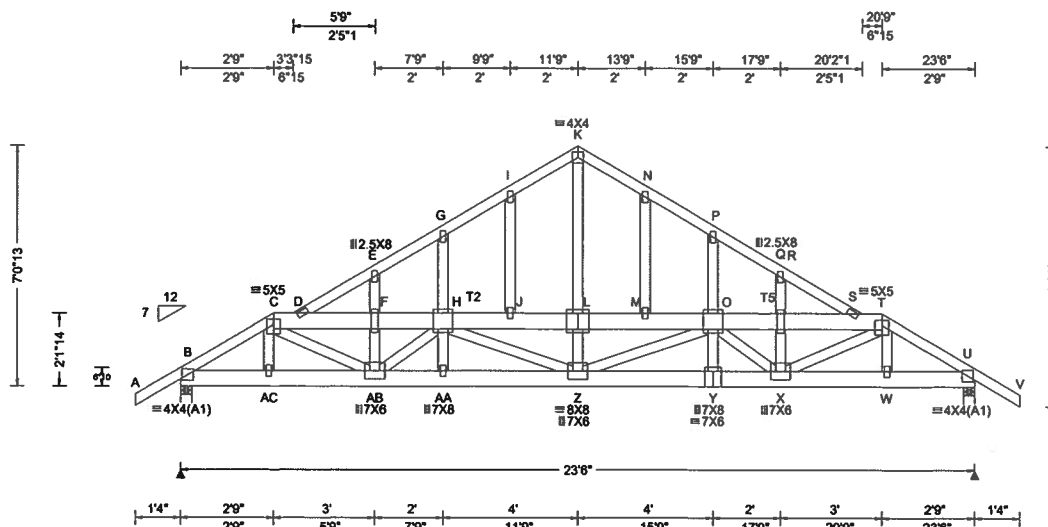
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SEQN: 569315 / FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: G01	Cust: R215 JRef:1WRZ2150004 T6 / DrwNo: 017.20.1126.19256 / FV 01/17/2020
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Loading Criteria (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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist at: 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  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.062 N 999 240 VERT(CL): 0.123 N 999 240 HORZ(LL): 0.016 W - - HORZ(TL): 0.032 W - - Creep Factor: 2.0 Max TC CSI: 0.319 Max BC CSI: 0.215 Max Web CSI: 0.320  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh Non-Gravity /Rw /U /RL B 1361 -/- /- /307 -/ U 1361 -/- /- /307 -/ Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 U Brg Width = 4.0 Min Req = 1.5 Bearings B & U are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 410 -1908 K - N 224 -988 C - D 496 -2297 L - M 203 -936 D - E 241 -1054 M - O 202 -934 D - F 311 -1465 N - P 229 -1006 E - G 230 -1011 O - Q 313 -1468 F - H 313 -1468 P - R 230 -1011 G - I 229 -1006 Q - S 311 -1465 H - J 202 -934 R - S 241 -1054 I - K 224 -989 S - T 496 -2297 J - L 203 -936 T - U 410 -1908

**Lumber**  
Top chord: 2x4 SP #2; T2,T5 2x6 SP 2400f-2.0E;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3;

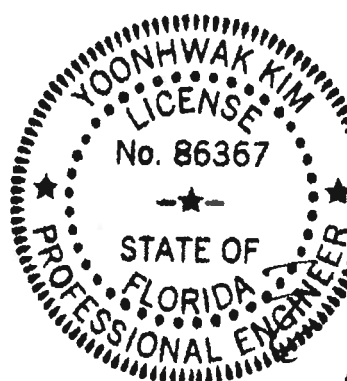
**Special Loads**  
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at -1.33 to 63 plf at 2.75  
TC: From 32 plf at 2.75 to 32 plf at 20.75  
TC: From 63 plf at 20.75 to 63 plf at 24.83  
BC: From 5 plf at -1.33 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 2.78  
BC: From 10 plf at 2.78 to 10 plf at 20.72  
BC: From 20 plf at 20.72 to 20 plf at 23.50  
BC: From 5 plf at 23.50 to 5 plf at 24.83  
TC: 96 lb Conc. Load at 2.78,20.72  
TC: 63 lb Conc. Load at 4.81, 6.81, 8.81,10.81  
12.69,14.69,16.69,18.69  
BC: 120 lb Conc. Load at 2.78,20.72  
BC: 50 lb Conc. Load at 4.81, 6.81, 8.81,10.81  
12.69,14.69,16.69,18.69

**Plating Notes**  
All plates are 2X4 except as noted.

**Wind**  
Wind loads and reactions based on MWFRS.

**Additional Notes**  
Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7-0-13.

Laterally brace chord above/below filler at 24" OC  
(or as designed) including a lateral brace on chord  
directly above/ below both ends of filler  
(if no rigid diaphragm exists at that point)



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Chords	Tens.Comp.	Chords	Tens. Comp.
B - AC	1604 -338	Z - Y	2219 -486
AC-AB	1608 -344	Y - X	2219 -486
AB-AA	2218 -485	X - W	1608 -344
AA - Z	2218 -485	W - U	1604 -338

Webs	Tens.Comp.	Webs	Tens. Comp.
C - AB	839 -180	K - L	792 -142
H - Z	106 -534	Z - O	107 -536
L - Z	602 -72	X - T	813 -180

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<b>Lumber</b>	C - D	342 - 1425	E - F	304 - 1604
Top chord: 2x4 SP #2;	<b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords   Tens. Comp.   Chords   Tens. Comp.			
Bot chord: 2x4 SP #2;				
Webs: 2x4 SP #3;				

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7'-4-14.




STATE OF

UNIVERSITY OF FLORIDA

PROFESSIONAL ENGINEER



\_\_\_\_\_

FI REG# 278 Yoonhwak Kim FI PE #86367

FILED RES# 276, 10001144K RHM, FILE #00507  
01/17/2020

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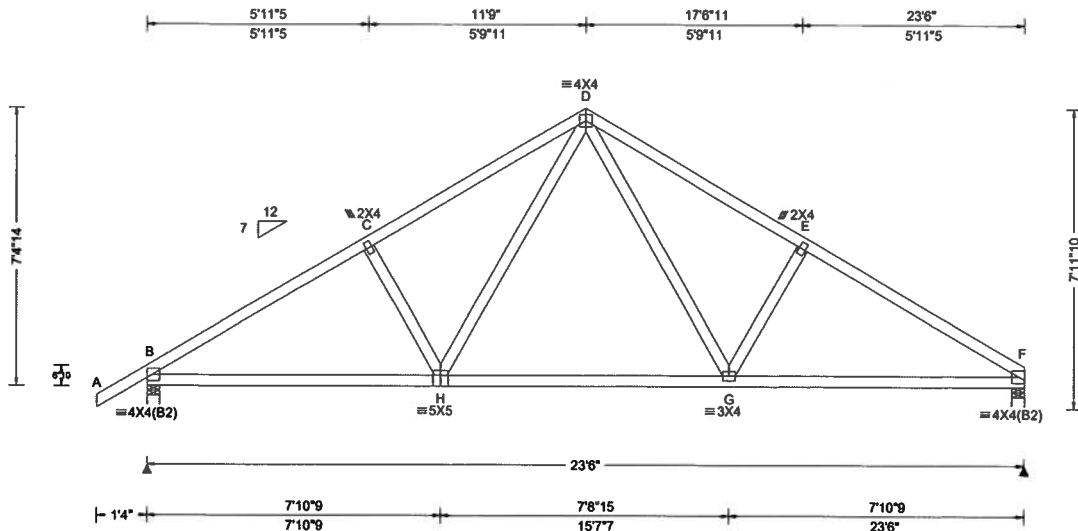
bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to

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truss in conformance with ANSI/TPI 1, or for manufacturing, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinst.org](http://www.tpinst.org); SBCA: [www.sbcindustry.com](http://www.sbcindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org) Orlando FL, 32821

SEQN: 569333 / FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: G03	Cust: R 215 JRef: 1WRZ2150004 T3 / DrwNo: 017.20.1126.18944 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.068 H 999 240 VERT(CL): 0.132 H 999 240 HORZ(LL): 0.033 G - - HORZ(TL): 0.063 G - - Creep Factor: 2.0 Max TC CSI: 0.538 Max BC CSI: 0.706 Max Web CSI: 0.215  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ /R- /Rh B 1138 - /- /- /637 /17 /200 F 1043 - /- /- /560 /11 /- <b>Non-Gravity</b> Loc R+ /R- /Rh B 1138 - /- /- /637 /17 /200 F 1043 - /- /- /560 /11 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 4.0 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 308 -1607 D - E 361 -1442 C - D 347 -1430 E - F 323 -1619

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Loading

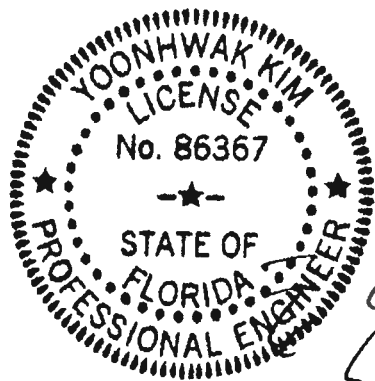
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7'-4"-14."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
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Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	1299 -202	G - F	1313 -206
H - G	896 -70		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
H - D	545 -121	D - G	565 -127

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

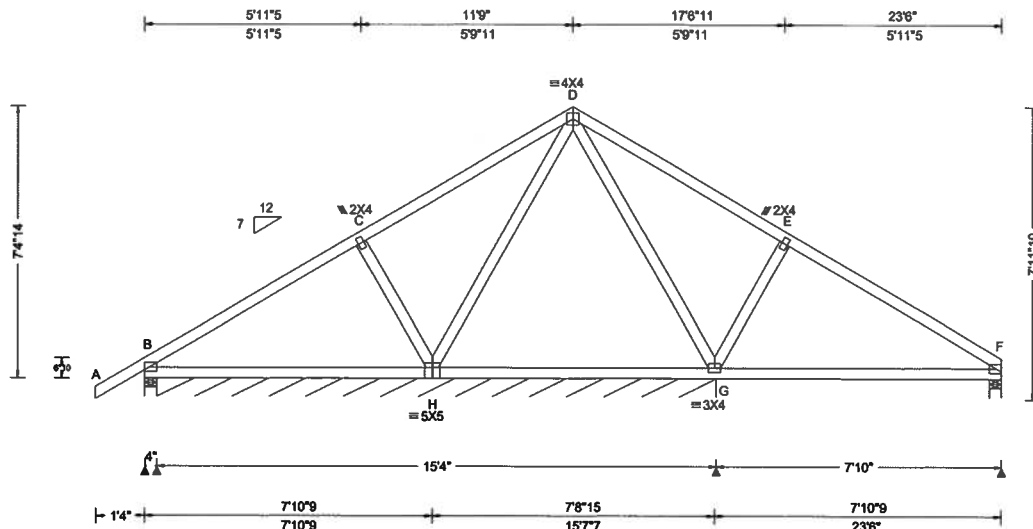
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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AN ITW COMPANY  
6750 Forum Drive  
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Orlando FL, 32821

SEQN: 569336 / FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: G04	Cust: R 215 JRef: 1WRZ2150004 T4 / DrwNo: 017.20.1126.18897 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCCL: 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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 C 999 240 VERT(CL): 0.004 G 999 240 HORZ(LL): -0.004 G - - HORZ(TL): 0.009 G - - Creep Factor: 2.0 Max TC CSI: 0.490 Max BC CSI: 0.619 Max Web CSI: 0.200  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 475 /- /- /303 /3 /200 B* 78 /- /- /40 /- /- F 386 /- /- /279 /11 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 B Brg Width = 184 Min Req = - F Brg Width = 4.0 Min Req = 1.5 Bearings B, B, & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Plating Notes

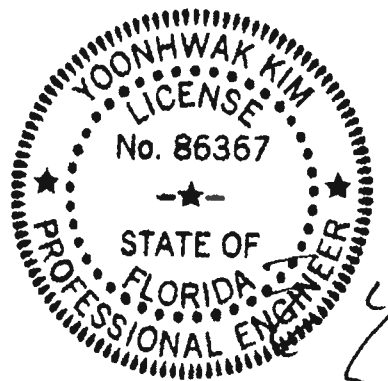
All plates are 3X4(B2) except as noted.

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7'-4"-14'.



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E - F 119 -404

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.Comp.
C - H	180 -377	G - E	183 -386

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

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

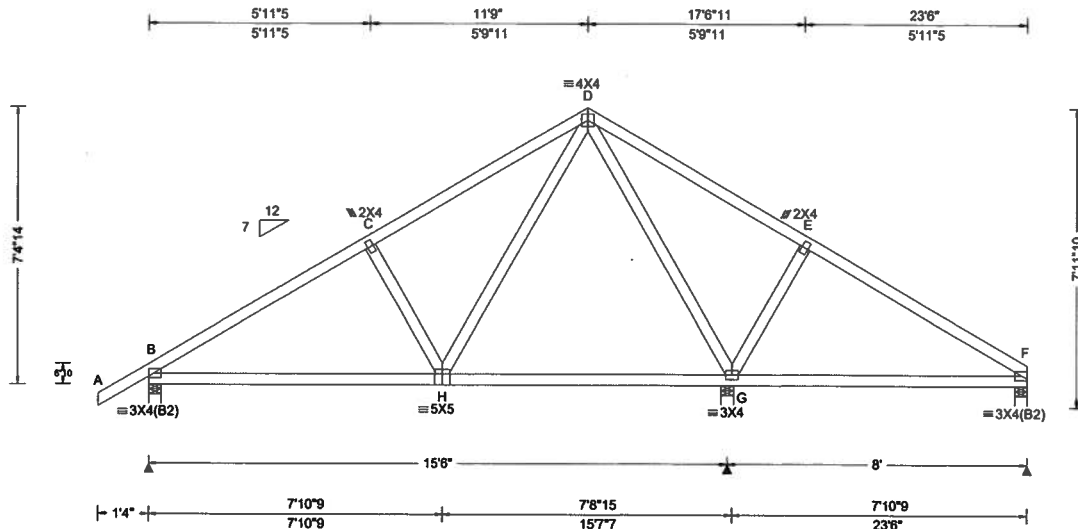
Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569339 / FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: G05	Cust: R 215 JRef: 1WRZ2150004 T5 / DrwNo: 017.20.1126.18648 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 C 999 240 VERT(CL): 0.038 C 999 240 HORZ(LL): 0.007 G - - HORZ(TL): 0.014 G - - Creep Factor: 2.0 Max TC CSI: 0.499 Max BC CSI: 0.633 Max Web CSI: 0.746  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 736 /- /- /470 /14 /200 G 1000 /- /- /498 /- /- F 360 /- /- /253 /31 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 G Brg Width = 4.0 Min Req = 1.5 F Brg Width = 4.0 Min Req = 1.5 Bearings B, G, & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

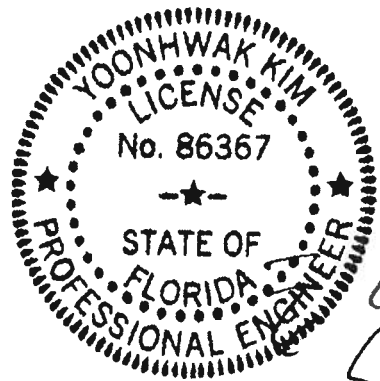
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7'-4"-14'.



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B - C 191 - 858 C - D 230 - 682

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

B - H 666 - 104

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

H - D 531 - 143 G - E 184 - 391  
D - G 84 - 587

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

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

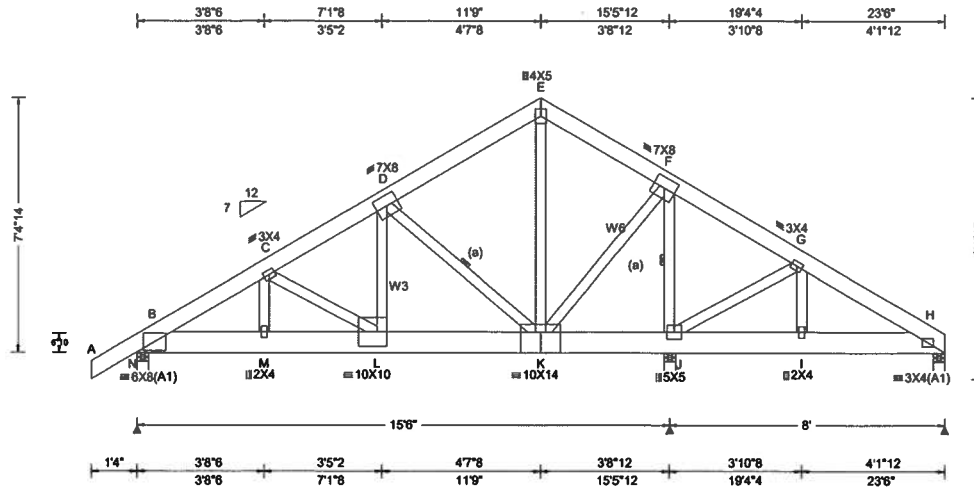
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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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

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Orlando FL, 32821

## 2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.072 L 999 240 VERT(CL): 0.144 L 999 240 HORZ(LL): 0.021 C - - HORZ(TL): 0.042 C - - Creep Factor: 2.0 Max TC CSI: 0.153 Max BC CSI: 0.541 Max Web CSI: 0.777  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 5416 /- /- /- /1095 /- J 10254 /- /- /- /1615 /- H - /-244 /- /15 /- /- Wind reactions based on MWFRS N Brg Width = 4.0 Min Req = 2.2 J Brg Width = 4.0 Min Req = 3.9 H Brg Width = 4.0 Min Req = 1.5 Bearings N, J, & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Blocking	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x6 SP 2400f-2.0E; Bot chord: 2x8 SP 2400f-2.0E; Webs: 2x4 SP #3; W3, W6 2x4 SP #2;	Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 2 located at 15.3'	Chords Tens.Comp. Chords Tens. Comp. B - C 946 -4733 D - E 399 -2187 C - D 997 -4969 E - F 405 -2204

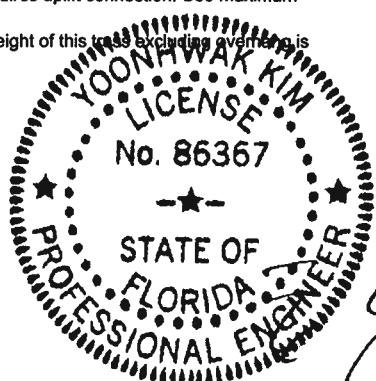
Bracing	Additional Notes	Maximum Top Chord Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Refer to General Notes for additional information Negative reaction(s) of -244# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.	Chords Tens.Comp. Chords Tens. Comp. B - M 4038 -803 L - K 4133 -824 M - L 4042 -804

Nailnote	Maximum Web Forces Per Ply (lbs)
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.	Webs Tens.Comp. Webs Tens. Comp. L - D 3360 -703 K - F 3133 -578 D - K 650 -3025 F - J 717 -3735 E - K 2040 -344

Special Loads
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 63 plf at -1.33 to 63 plf at 7.13 TC: From 32 plf at 7.13 to 32 plf at 11.75 TC: From 63 plf at 11.75 to 63 plf at 23.50 BC: From 5 plf at -1.33 to 5 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 7.13 BC: From 10 plf at 7.13 to 10 plf at 15.06 BC: From 20 plf at 15.06 to 20 plf at 23.50 BC: 5476 lb Conc. Load at 7.13 BC: 2127 lb Conc. Load at 9.06, 11.06, 13.06 BC: 1888 lb Conc. Load at 15.06

Wind
Wind loads and reactions based on MWFRS.

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01/17/2020



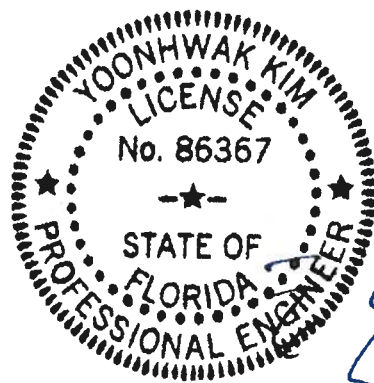
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building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



SEQN: 569404 / FROM: CDM Page 2 of 2	COMN Ply: 2 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: G06	Cust: R215 JRef:1WRZ2150004 T54 / DrwNo: 017.20.1126.18835 / FV 01/17/2020
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WARNING! This truss is not symmetric, but its exterior geometry makes erection error more probable. It is imperative that this truss be installed properly.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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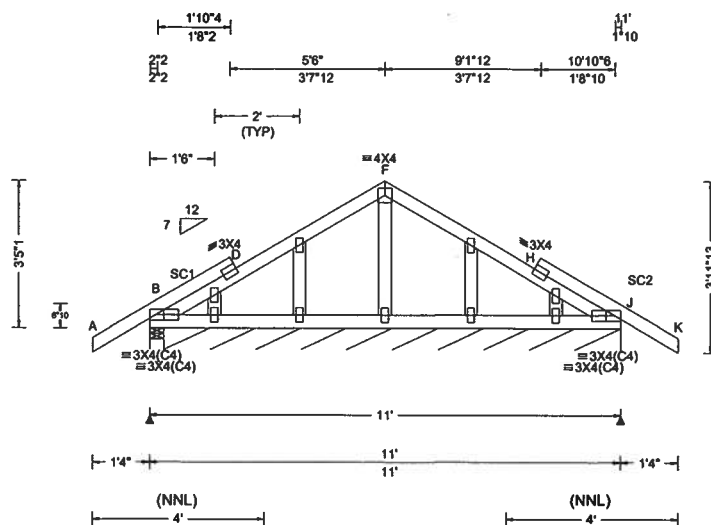
For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCA: [www.sbcindustry.com](http://www.sbcindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)



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Orlando FL, 32821



SEQN: 569396 / FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: H01	Cust: R 215 JRef: 1WRZ2150004 T10 / DrwNo: 017.20.1126.18898 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 L 999 240 VERT(CL): 0.002 L 999 240 HORZ(LL): 0.001 H - - HORZ(TL): 0.001 H - - Creep Factor: 2.0 Max TC CSI: 0.163 Max BC CSI: 0.056 Max Web CSI: 0.030  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ /R- /Rh /Rw /U /RL Non-Gravity B 204 /- /- /135 /41 /119 J* 84 /- /- /47 /14 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 J Brg Width = 127 Min Req = - Bearings B & J are a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #2;  
Stack Chord: SC2 2x4 SP #2;

#### Plating Notes

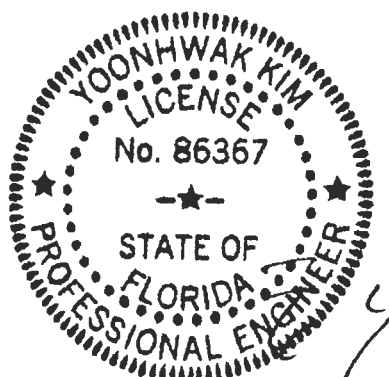
All plates are 2X4 except as noted.

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.  
Stacked top chord must NOT be notched or cut in area (NNL). Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.  
The overall height of this truss excluding overhang is 3-5-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

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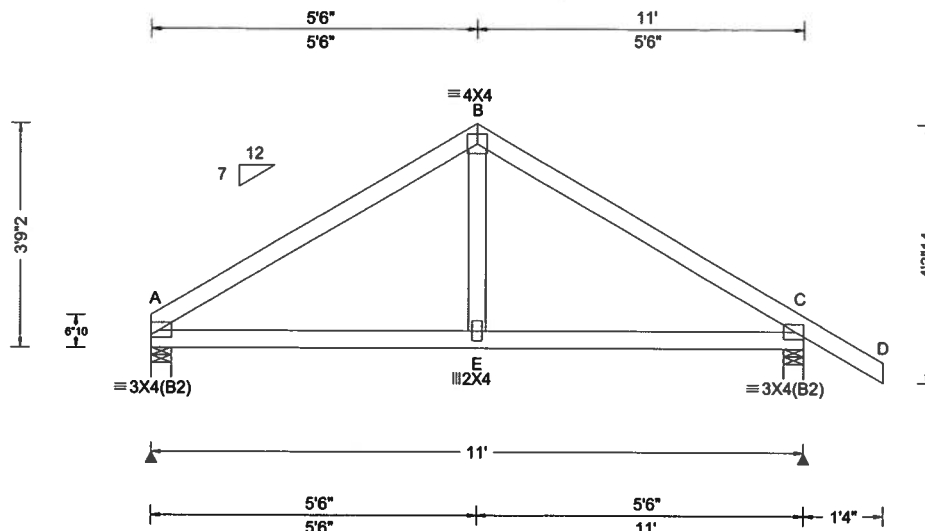
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569398 / FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: H02	Cust: R 215 JRef: 1WRZ2150004 T1 / DrwNo: 017.20.1126.19085 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 E 999 240 VERT(CL): 0.013 E 999 240 HORZ(LL): 0.003 E - - HORZ(TL): 0.007 E - - Creep Factor: 2.0 Max TC CSI: 0.300 Max BC CSI: 0.304 Max Web CSI: 0.091  VIEW Ver: 18.02.01B.0321.08	<b>▲ Maximum Reactions (lbs)</b> Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 451 /- /- /261 /72 /106 C 554 /- /- /341 /98 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 C Brg Width = 4.0 Min Req = 1.5 Bearings A & C are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 175 -550 B - C 177 -554

#### Lumber

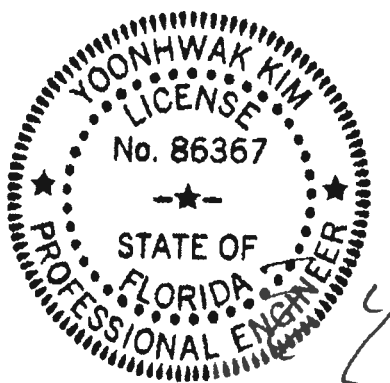
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-9-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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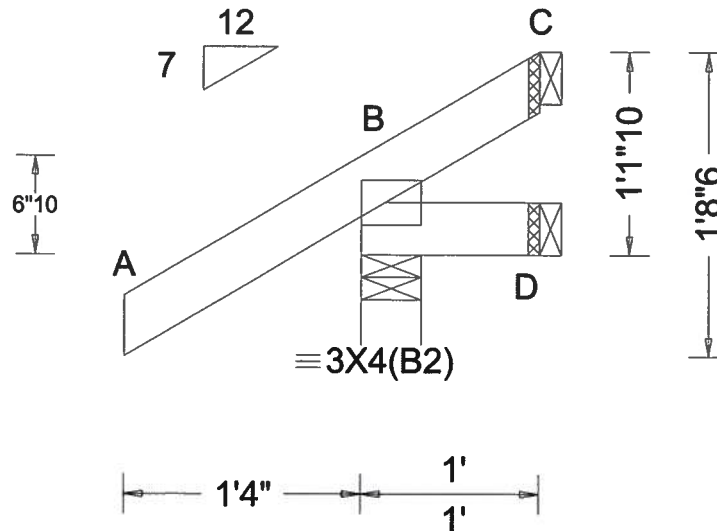
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569251 / FROM: CDM	JACK Qty: 15	Ply: 1	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: J01	Cust: R 215 JRef: 1WRZ2150004 T7 / DrwNo: 017.20.1126.19507 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCPI: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.022 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ /R- /Rh B 206 /- /- D 13 /-2 /- C - /-30 /- <b>Non-Gravity</b> /Rw /U /RL /163 /45 /38 /14 /6 /- /22 /36 /-  Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

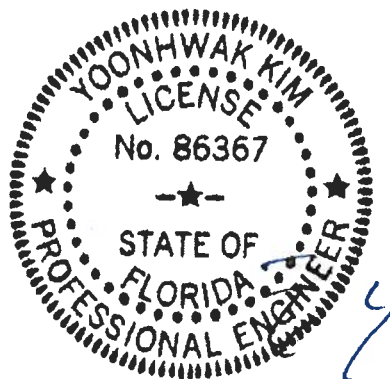
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-1-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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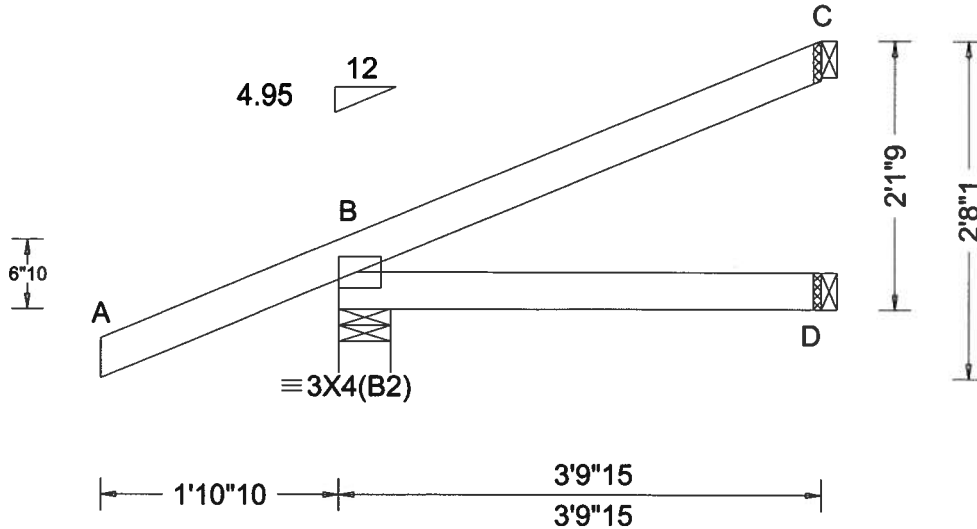
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569269 / FROM: CDM	HIP_	Ply: 1 Qty: 3	Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: J02	Cust: R215 JRef: 1WRZ2150004 T9 / DrwNo: 017.20.1126.19615 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.118 Max BC CSI: 0.149 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 182 /- /- /- /75 /- D 69 /- /- /- /2 /- C 33 /-11 /- /- /16 /- Wind reactions based on MWFRS B Brg Width = 4.9 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

#### Special Loads

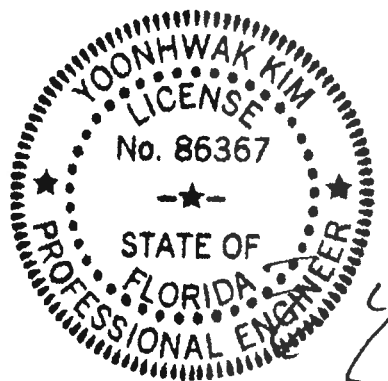
— (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 0 plf at -1.89 to 62 plf at 0.00  
TC: From 2 plf at 0.00 to 2 plf at 3.83  
BC: From 0 plf at -1.89 to 4 plf at 0.00  
BC: From 2 plf at 0.00 to 2 plf at 3.83  
TC: -26 lb Conc. Load at 1.41  
BC: 27 lb Conc. Load at 1.41

#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 2'-1.9."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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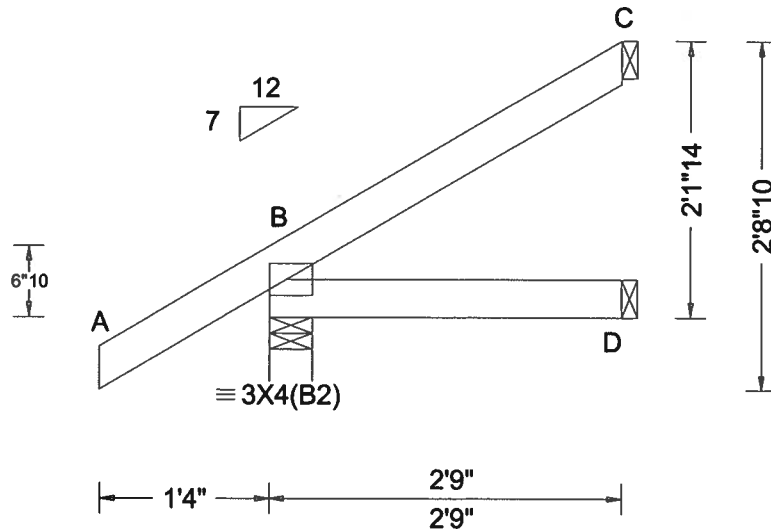
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569260 / FROM: CDM	EJAC Qty: 15	Ply: 1 Qty: 15	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: J03	Cust: R 215 JRef: 1WRZ2150004 T8 / DrwNo: 017.20.1126.19225 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.075 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL B 232 /- /- /170 /32 /67 D 50 /- /- /36 /- /- C 63 /- /- /27 /30 /- <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

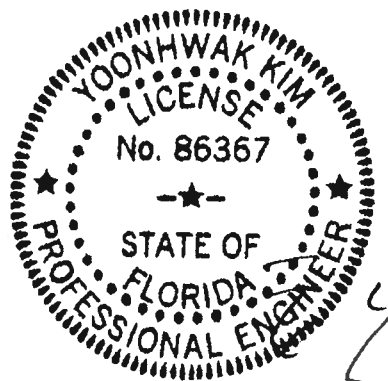
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2'-1'-14".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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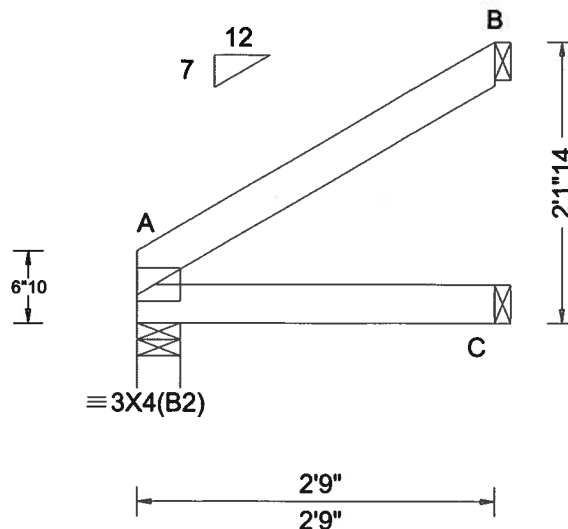
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 569261 / FROM: CDM	EJAC Qty: 2	Ply: 1	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: J04	Cust: R 215 JRef: 1WRZ2150004 T13 / DrwNo: 017.20.1126.18679 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.115 Max BC CSI: 0.083 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL A 117 /- /- /75 /1 /45 C 53 /- /- /37 /- /- B 81 /- /- /43 /36 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 C Brg Width = 1.5 Min Req = - B Brg Width = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

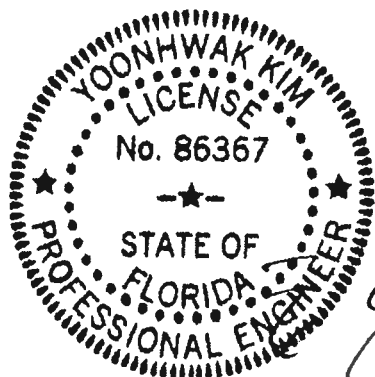
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2'-1'-14".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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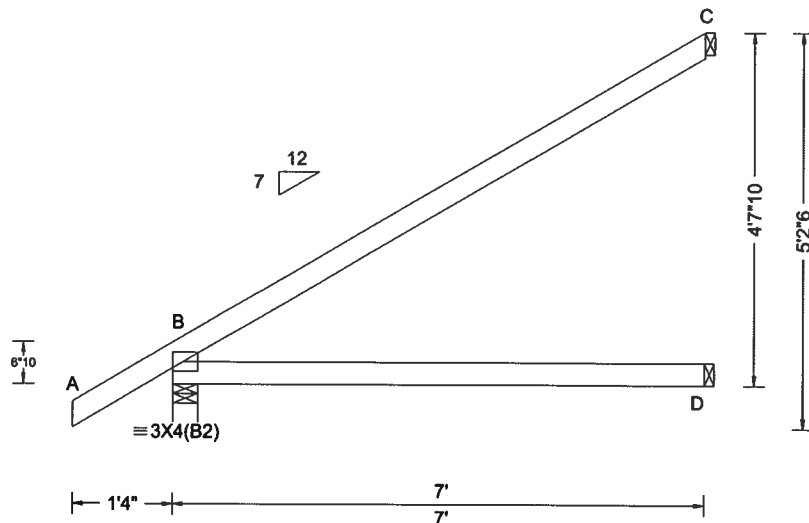
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32821



SEQN: 569255 / FROM: CDM	EJAC Qty: 35	Ply: 1	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: J05	Cust: R 215 JRef: 1WRZ2150004 T28 / DrwNo: 017.20.1126.19070 / FV 01/17/2020
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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 BCDL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.012 D - - HORZ(TL): 0.023 D - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.553 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ / R- / Rh / Rw / U / RL B 394 /- /- /272 /36 /138 D 134 /- /- /93 /- /- C 199 /- /- /103 /84 /- <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

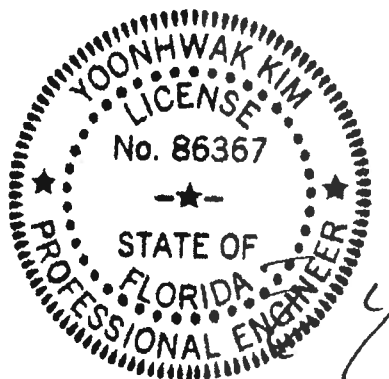
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4'-7"-10."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

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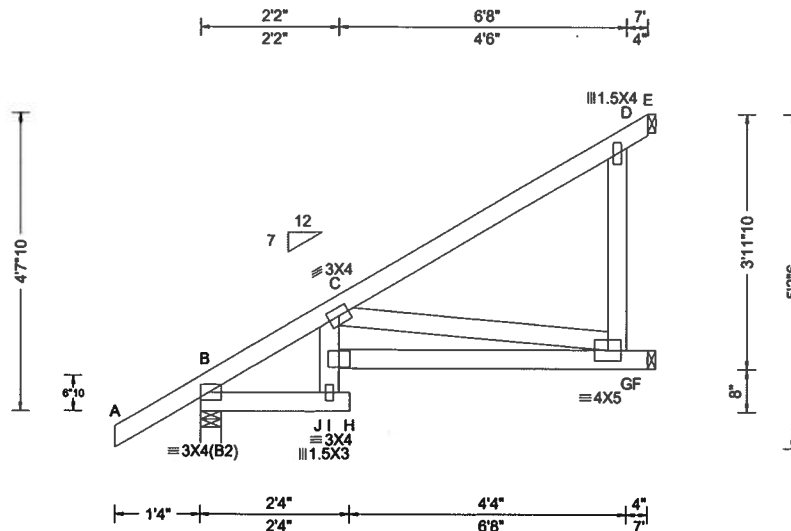
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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



6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 571157 / FROM: CDM	EJAC Qty: 5	Ply: 1	Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: J06	Cust: R 215 JRef: 1WRZ2150004 T38 / DrwNo: 017.20.1126.19319 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.031 H 999 240 VERT(CL): 0.061 H 999 240 HORZ(LL): 0.016 G - - HORZ(TL): 0.032 G - - Creep Factor: 2.0 Max TC CSI: 0.322 Max BC CSI: 0.349 Max Web CSI: 0.918  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 394 - / - /272 /36 /138 F 243 - / - /121 /111 - E 136 - / - /107 /2 - Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

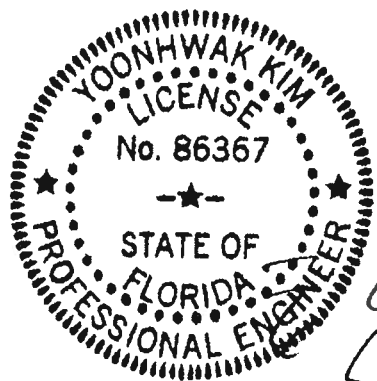
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

B - C 18 -376

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

I - G 521 -270

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

C - G 268 -517

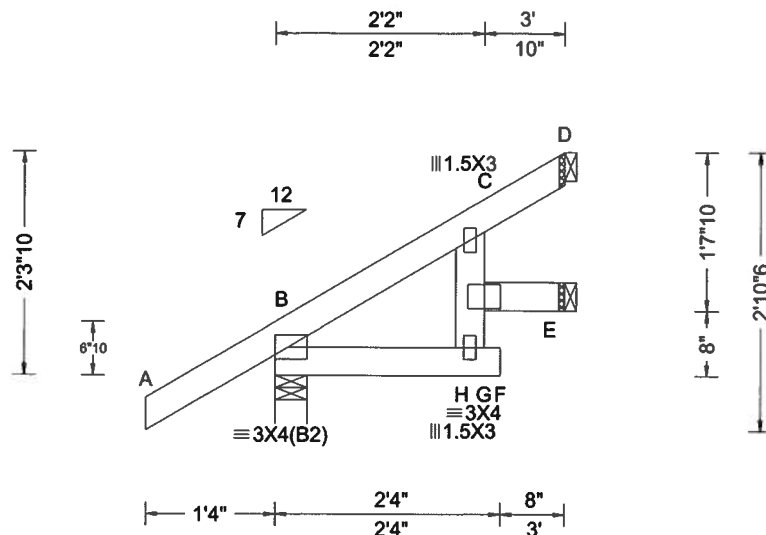
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg.Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.005 F 999 240 VERT(CL): 0.010 F 999 240 HORZ(LL): 0.003 C - - HORZ(TL): 0.005 C - - Creep Factor: 2.0 Max TC CSI: 0.149 Max BC CSI: 0.044 Max Web CSI: 0.033  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 241 /- /- /175 /31 /71 E 23 /- /- /18 /2 /- D 83 /- /- /51 /28 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

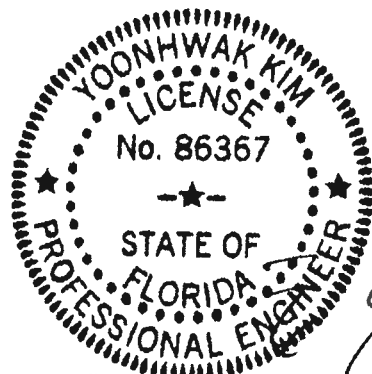
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

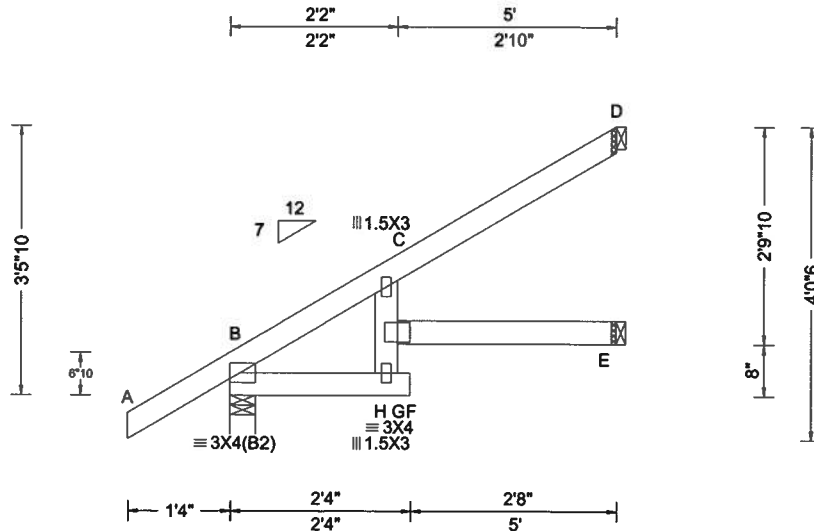
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**  
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6750 Forum Drive  
Suite 305  
Orlando FL, 32821

SEQN: 571154 / FROM: CDM	JACK Ply: 1 Qty: 2	Job Number: 19-3769 /Parnell /ZECHER CONSTRUCTION Truss Label: J08	Cust: R 215 JRef: 1WRZ2150004 T36 / DrwNo: 017.20.1126.18913 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
				Gravity			Non-Gravity				
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.060 F 987 240	B	315	/-	/-	/222	/33	/105	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.120 F 494 240	E	66	/-	/-	/46	/1	/-	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.037 C - -	D	149	/-	/-	/87	/56	/-	
Des Ld: 40.00	EXP: C Kzt: NA	Code / Misc Criteria	HORZ(TL): 0.073 C - -	Wind reactions based on MWFRS							
NCBCLL: 10.00	Mean Height: 15.00 ft		Bldg Code: FBC 2017 RES	Creep Factor: 2.0	B	Brg Width = 4.0 Min Req = 1.5					
Soffit: 2.00	TCDL: 5.0 psf		TPI Std: 2014	Max TC CSI: 0.456	E	Brg Width = 1.5 Min Req = -					
Load Duration: 1.25	BCDL: 5.0 psf		Rep Fac: Yes	Max BC CSI: 0.136	D	Brg Width = 1.5 Min Req = -					
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		FT/RT:20(0)/10(0)	Max Web CSI: 0.124	Bearing B is a rigid surface.						
	C&C Dist a: 3.00 ft	Plate Type(s):	VIEW Ver: 18.02.01B.0321.08	Members not listed have forces less than 375#							
	Loc. from endwall: not in 4.50 ft	WAVE									
	GCpi: 0.18										
	Wind Duration: 1.60										

#### Lumber

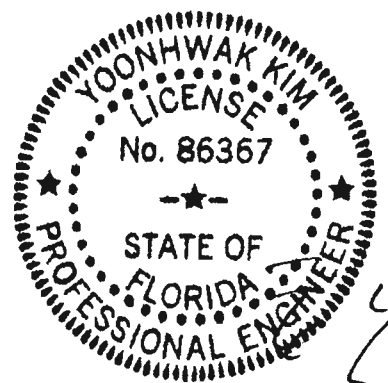
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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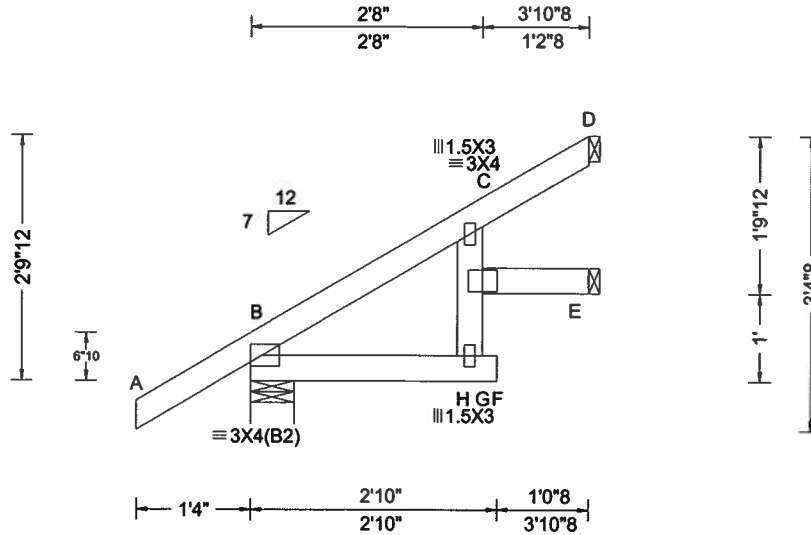


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<b>Loading Criteria</b> (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00  Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria</b> (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.017 F 999 240 VERT(CL): 0.033 F 999 240 HORZ(LL): 0.010 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.218 Max BC CSI: 0.075 Max Web CSI: 0.069	<b>▲ Maximum Reactions (lbs)</b> <div><div>Gravity</div><div>Loc R+ / R- / Rh / Rw / U / RL</div></div> B 272 /- /- /194 /11 /57 E 35 /- /- /25 /1 /- D 114 /- /- /72 /19 /-  Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = -  Bearing B is a rigid surface. Members not listed have forces less than 375#
		<b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>VIEW Ver:</b> 18.02.01B.0321.08	

## Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

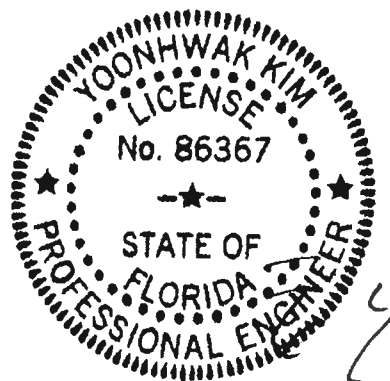
## Wind

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

### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-9-12.



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01/17/2020

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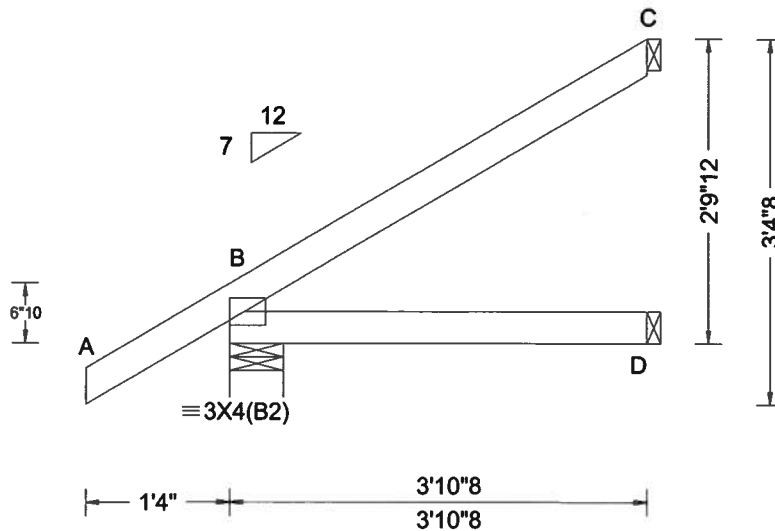
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SEQN: 569223 / FROM: CDM	JACK Qty: 2	Ply: 1 Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: J12	Cust: R 215 JRef: 1WRZ2150004 T62 / DrwNo: 017.20.1126.19522 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B	272	/-	/-	/194	/11	/57
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D - -	D	73	/-	/-	/50	/-	/-
	EXP: C Kzt: NA		HORZ(TL): 0.002 D - -	C	102	/-	/-	/49	/24	/-
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.192	B	Brg Width = 6.0			Min Req = 1.5		
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.163	D	Brg Width = 1.5			Min Req = -		
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.000	C	Brg Width = 1.5			Min Req = -		
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes		Bearing B is a rigid surface.						
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

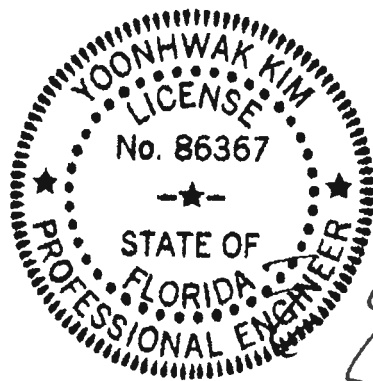
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2'-9-12."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

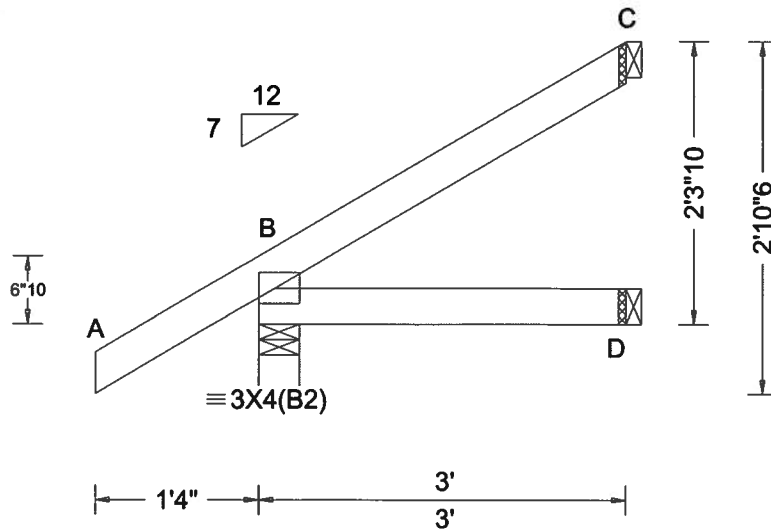
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Orlando FL, 32821

SEQN: 569252 / FROM: CDM	JACK Qty: 5	Ply: 1 Qty: 5	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: J13	Cust: R 215 JRef: 1WRZ2150004 T27 / DrwNo: 017.20.1126.18804 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.092 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 241 /- /- /175 /31 /71 D 55 /- /- /39 /- /- C 72 /- /- /32 /34 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

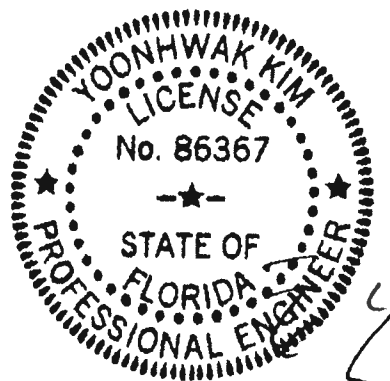
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 2-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

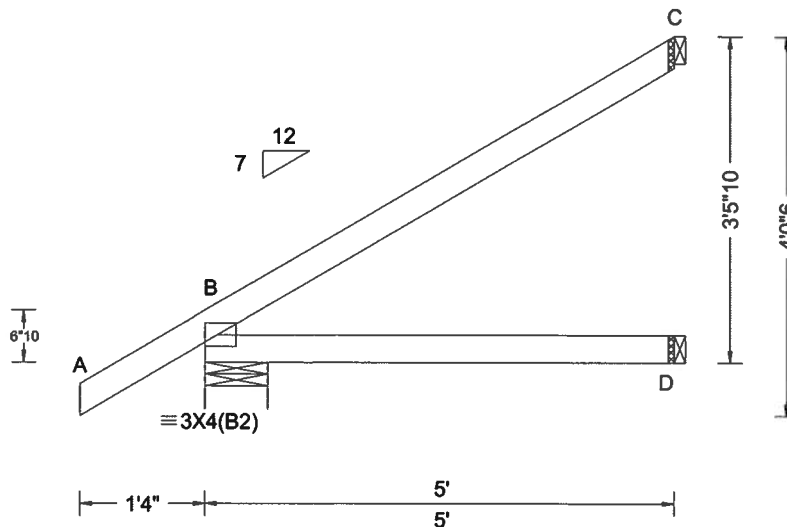
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SEQN: 569256 / FROM: CDM	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: J14	Cust: R 215 JRef: 1WRZ2150004 T49 / DrwNo: 017.20.1126.18899 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity				Non-Gravity		
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	315	/-	/-	/222	/33	/105
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	D	95	/-	/-	/65	/-	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	C	138	/-	/-	/70	/60	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D - -	Wind reactions based on MWFRS						
	EXP: C Kzt: NA		HORZ(TL): 0.007 D - -	B	Brg Width = 8.0			Min Req = 1.5		
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	D	Brg Width = 1.5			Min Req = -		
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.367	C	Brg Width = 1.5			Min Req = -		
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.277	Bearing B is a rigid surface.						
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.000	Members not listed have forces less than 375#						
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes								
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)								
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

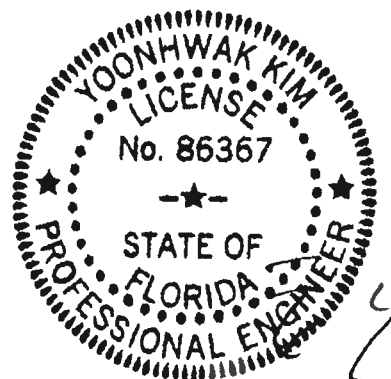
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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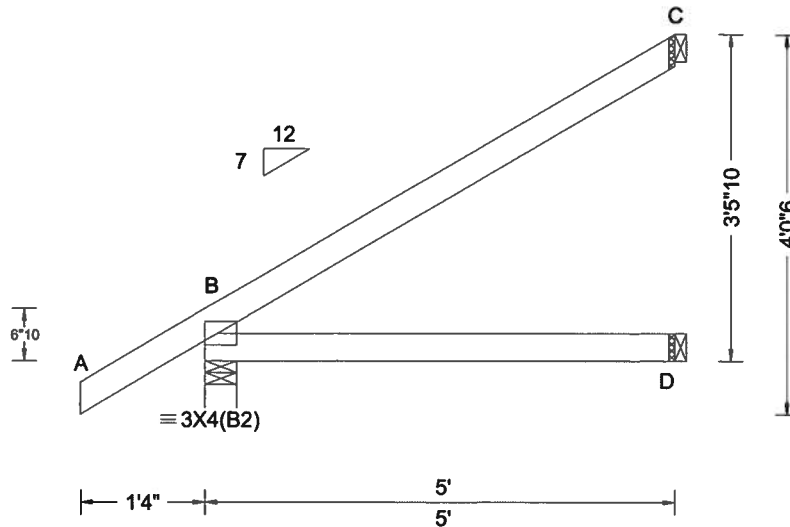
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SEQN: 569253 / FROM: CDM	JACK Qty: 4	Ply: 1 Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: J15	Cust: R 215 JRef: 1WRZ2150004 T26 / DrwNo: 017.20.1126.18803 / FV 01/17/2020
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Loading 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.007 D - - Creep Factor: 2.0 Max TC CSI: 0.367 Max BC CSI: 0.277 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 315 /- /- /222 /33 /105 D 95 /- /- /65 /- /- C 138 /- /- /70 /60 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

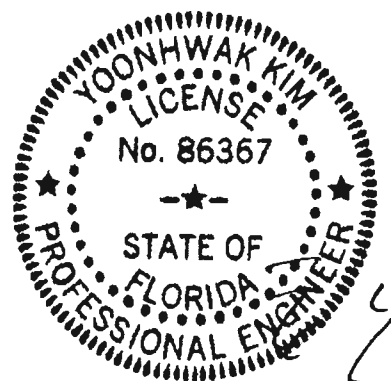
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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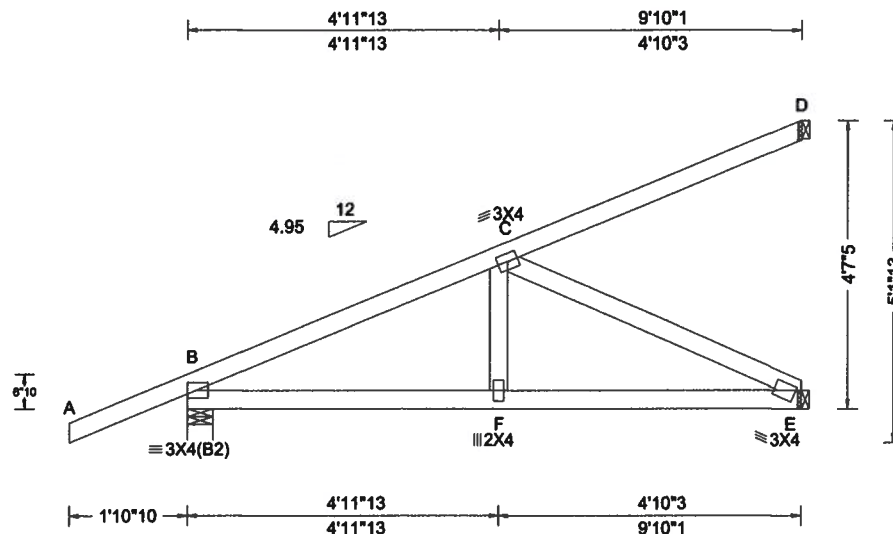
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Orlando FL, 32821

SEQN: 569267 / FROM: CDM	HIP_	Ply: 1 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: J16	Cust: R215 JRef: 1WRZ2150004 T50 / DrwNo: 017.20.1126.19320 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.019 F 999 240 VERT(CL): 0.039 F 999 240 HORZ(LL): -0.007 D - - HORZ(TL): 0.015 D - - Creep Factor: 2.0 Max TC CSI: 0.704 Max BC CSI: 0.645 Max Web CSI: 0.379  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity Loc / Rw / U / RL B 357 /- /- /- /146 /- E 370 /- /- /- /72 /- D 95 /- /- /- /29 /- Wind reactions based on MWFRS B Brg Width = 4.9 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Special Loads

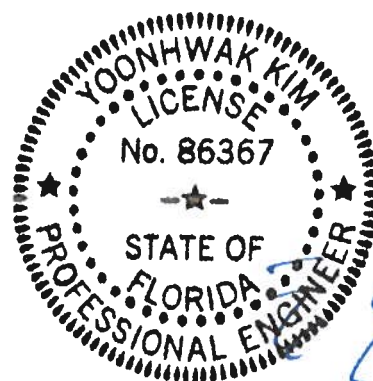
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 0 plf at -1.89 to 62 plf at 0.00  
TC: From 2 plf at 0.00 to 2 plf at 9.84  
BC: From 0 plf at -1.89 to 4 plf at 0.00  
BC: From 2 plf at 0.00 to 2 plf at 9.84  
TC: -26 lb Conc. Load at 1.41  
TC: 144 lb Conc. Load at 4.24  
TC: 276 lb Conc. Load at 7.07  
BC: 27 lb Conc. Load at 1.41  
BC: 110 lb Conc. Load at 4.24  
BC: 189 lb Conc. Load at 7.07

#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4'-7.5."



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

B - C 179 -639

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	590 -147	F - E	581 -148

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	106 -653

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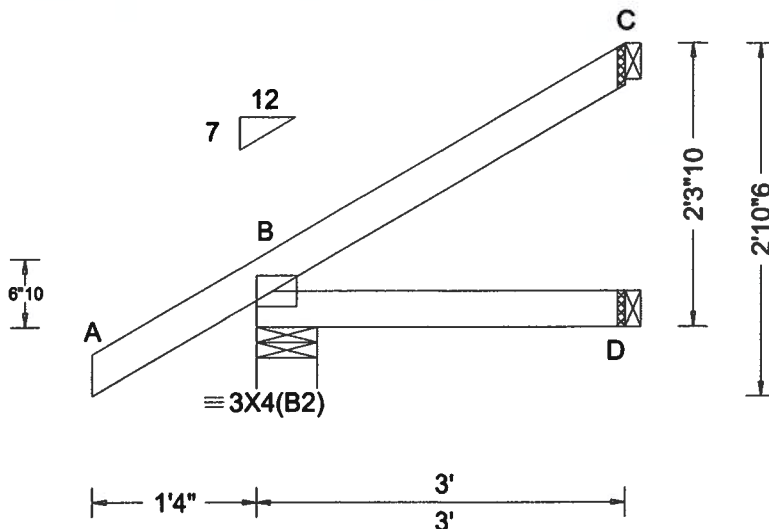
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SEQN: 569250 / FROM: CDM	JACK Qty: 1	Ply: 1	Job Number: 19-3769 /Pamell /ZECHER CONSTRUCTION Truss Label: J18	Cust: R 215 JRef: 1WRZ2150004 T47 / DrwNo: 017.20.1126.19069 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	241	/-	/-	/175	/31	/71
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	D	55	/-	/-	/39	/-	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	C	72	/-	/-	/32	/34	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: C Kzt: NA	Code / Misc Criteria	HORZ(TL): 0.001 D - -	B	Brg Width = 6.0		Min Req = 1.5			
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	D	Brg Width = 1.5		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.142	C	Brg Width = 1.5		Min Req = -			
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.092	Bearing B is a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.000	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	Bldg Code: FBC 2017 RES	VIEW Ver: 18.02.01B.0321.08							
	Loc. from endwall: Any	TPI Std: 2014								
	GCpi: 0.18	Rep Fac: Yes								
	Wind Duration: 1.60	FT/RT:20(0)/10(0)								
		Plate Type(s):								
		WAVE								

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

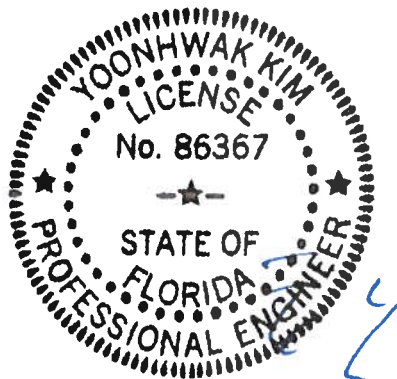
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2'-3'-10".



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

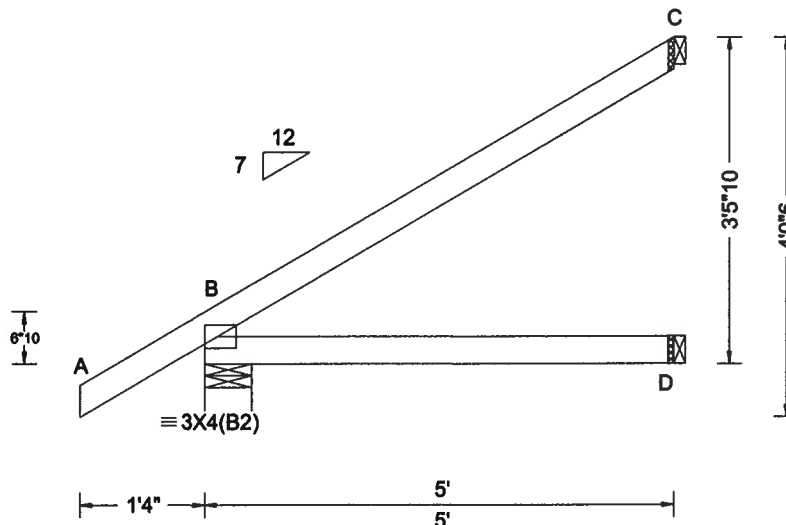
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Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	315	/-	/-	/222	/33	/105
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	D	95	/-	/-	/65	/-	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	C	138	/-	/-	/70	/60	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: C Kzt: NA	Code / Misc Criteria	HORZ(TL): 0.007 D - -	B Brg Width = 6.0 Min Req = 1.5						
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	D Brg Width = 1.5 Min Req = -						
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.367	C Brg Width = 1.5 Min Req = -						
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.277	Bearing B is a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.000	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	Bldg Code: FBC 2017 RES	VIEW Ver: 18.02.01B.0321.08							
	Loc. from endwall: not in 4.50 ft	TPI Std: 2014								
	GCPl: 0.18	Rep Fac: Yes								
	Wind Duration: 1.60	FT/RT:20(0)/10(0)								
		Plate Type(s):								
		WAVE								

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

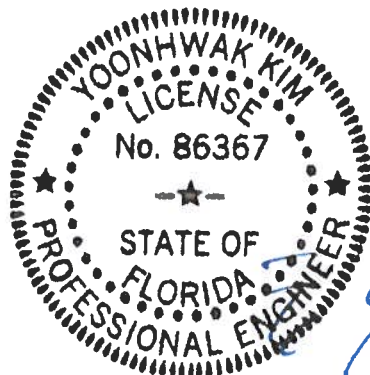
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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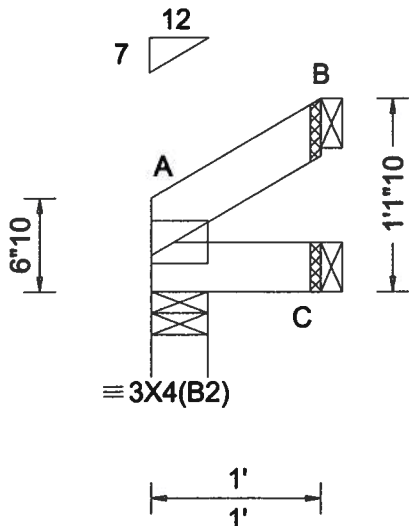
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Orlando FL, 32811

SEQN: 569262 / FROM: CDM	JACK Qty: 2	Ply: 1	Job Number: 19-3789 /Pamell /ZECHE CONSTRUCTION Truss Label: J1A	Cust: R 215 JRef: 1WRZ2150004 T17 / DrwNo: 017.20.1126.18929 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	A	45	/-	/-	/28	/-	/15
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B - -	C	18	/-	/-	/13	/-	/-
	EXP: C Kzt: NA		HORZ(TL): 0.000 B - -	B	29	/-	/-	/15	/14	/-
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.012	A	Brg Width = 4.0		Min Req = 1.5			
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.008	C	Brg Width = 1.5		Min Req = -			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.000	B	Brg Width = 1.5		Min Req = -			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes		Bearing A is a rigid surface.						
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

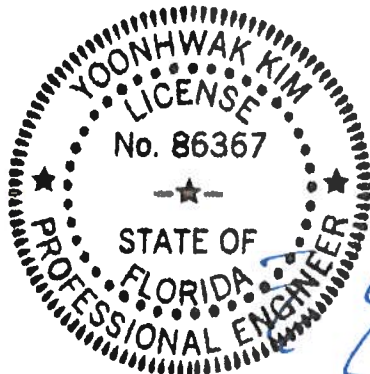
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1'-10".



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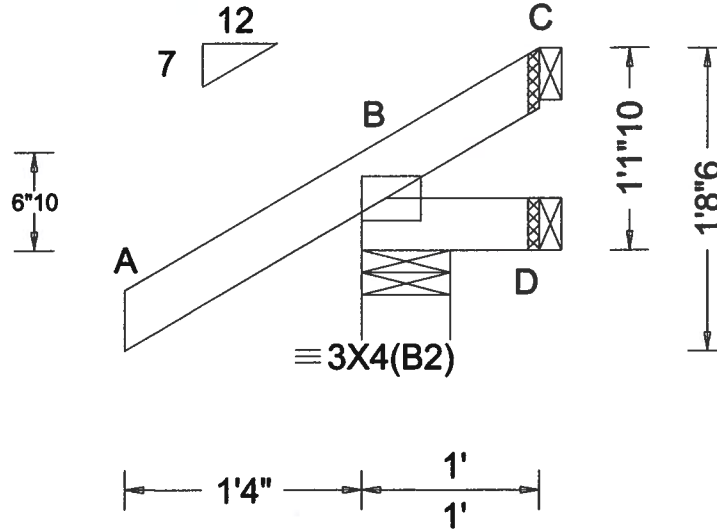
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.022 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 206 /- /- /163 /45 /38 D 13 /-2 /- /14 /6 /- C - /-30 /- /22 /36 /- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

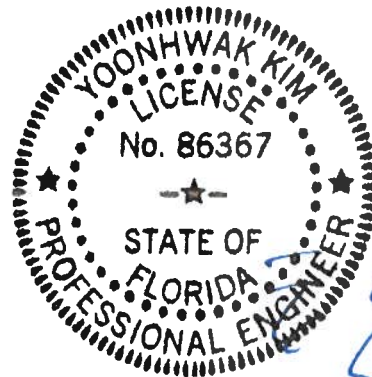
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 11'-10".



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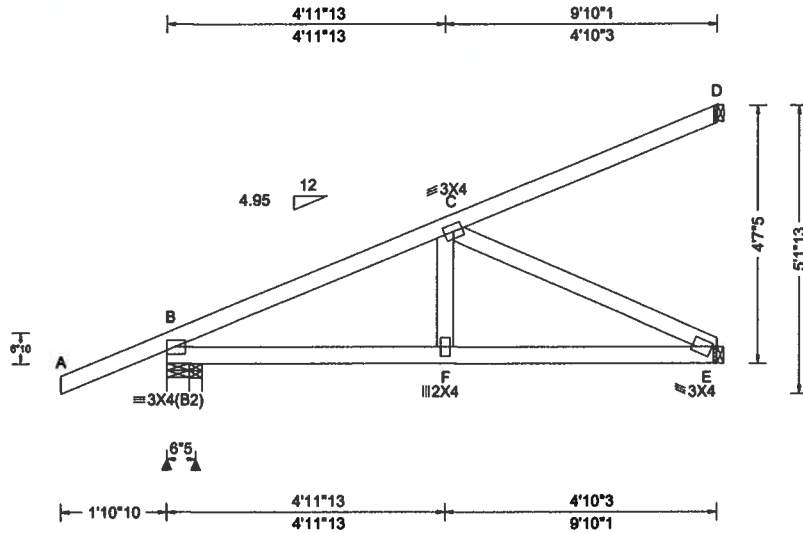
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cs: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.019 F 999 240 VERT(CL): 0.037 F 999 240 HORZ(LL): -0.007 D - - HORZ(TL): 0.014 D - - Creep Factor: 2.0 Max TC CSI: 0.697 Max BC CSI: 0.629 Max Web CSI: 0.409  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ /R- /Rh /Rw /U /RL B 519 /- /- /- /149 /- B 94 /-170 /- /4 /- /- E 390 /- /- /- /72 /- D 94 /- /- /- /29 /- <b>Non-Gravity</b> Wind reactions based on MWFRS B Brg Width = 4.9 Min Req = 1.5 B Brg Width = 2.8 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearings B & B are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 180 -697  <b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - F 1275 -296 F - E 628 -149  <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. C - E 167 -705

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Special Loads

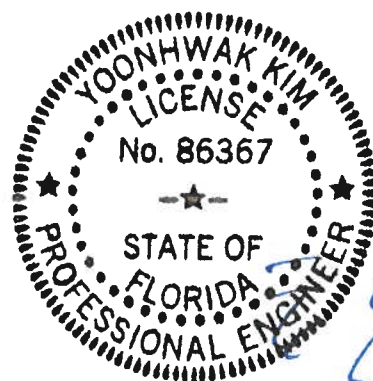
—(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 0 plf at -1.89 to 62 plf at 0.00  
TC: From 2 plf at 0.00 to 2 plf at 9.84  
BC: From 0 plf at -1.89 to 4 plf at 0.00  
BC: From 2 plf at 0.00 to 2 plf at 9.84  
TC: -28 lb Conc. Load at 1.41  
TC: 144 lb Conc. Load at 4.24  
TC: 276 lb Conc. Load at 7.07  
BC: 27 lb Conc. Load at 1.41  
BC: 110 lb Conc. Load at 4.24  
BC: 189 lb Conc. Load at 7.07

#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 4-7.5.



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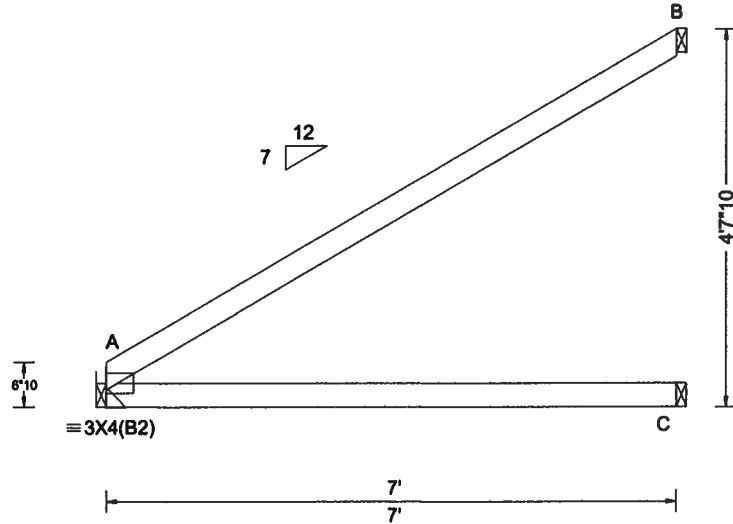
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SEQN: 569264 / FROM: CDM	EJAC Qty: 3	Ply: 1	Job Number: 19-3769 /Parnell /ZECHEER CONSTRUCTION Truss Label: J21	Cust: R215 JRef: 1WRZ2150004 T29 / DrwNo: 017.20.1126.18756 / FV 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	A	294	/-	/-	/190	/-	/77
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	C	135	/-	/-	/96	/-	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 C - -	B	205	/-	/-	/108	/45	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.028 C - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	A	Brg Width = -		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.856	C	Brg Width = 1.5		Min Req = -			
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.566	B	Brg Width = 1.5		Min Req = -			
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.000	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft									
	Loc. from endwall: not in 9.00 ft									
	GCpl: 0.18									
	Wind Duration: 1.60									

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

#### Hangers / Ties

(J) Hanger Support Required, by others

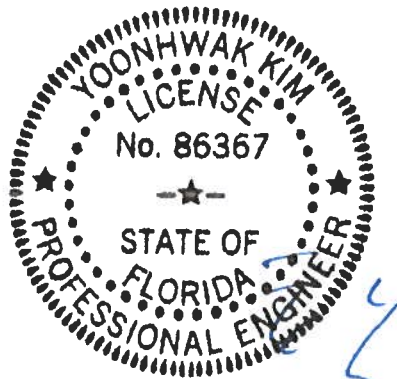
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4'-7'-10".



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01/17/2020

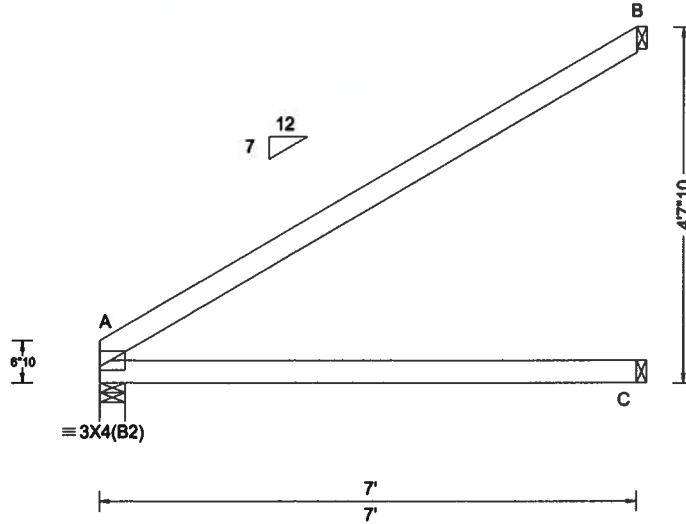
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA							
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	A	294	/-	/-	/190	/-	/77
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 C - -	C	135	/-	/-	/96	/-	/-
	EXP: C Kzt: NA		HORZ(TL): 0.028 C - -	B	205	/-	/-	/108	/45	/-
	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
Des Ld: 40.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.856	A	Brg Width = 4.0		Min Req = 1.5			
NCBCLL: 10.00	BCDL: 5.0 psf		Bldg Code: FBC 2017 RES	Max BC CSI: 0.566	C	Brg Width = 1.5		Min Req = -		
Soffit: 2.00	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.000	B	Brg Width = 1.5		Min Req = -			
Load Duration: 1.25	C&C Dist a: 3.00 ft	Rep Fac: Yes		Bearing A is a rigid surface.						
Spacing: 24.0 "	Loc. from endwall: not in 9.00 ft	FT/RT: 20(0)/10(0)		Members not listed have forces less than 375#						
	GCpl: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

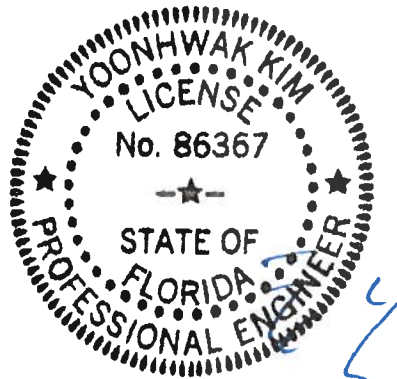
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4'-7-10.



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01/17/2020

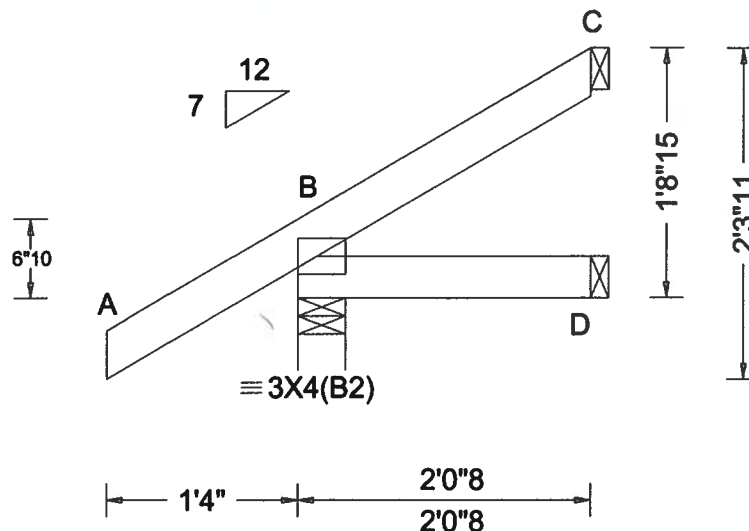
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B	212	/-	/-	/159	/33	/55
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 C - -	D	36	/-	/-	/27	/1	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 C - -	C	34	/-	/-	/19	/19	/-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0	Wind reactions based on MWFRS						
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.142	B	Brg Width = 4.0		Min Req = 1.5			
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.036	D	Brg Width = 1.5		Min Req = -			
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.000	C	Brg Width = 1.5		Min Req = -			
	C&C Dist a: 3.00 ft			Bearing B is a rigid surface.						
	Loc. from endwall: not in 9.00 ft			Members not listed have forces less than 375#						
	GCp1: 0.18									
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;

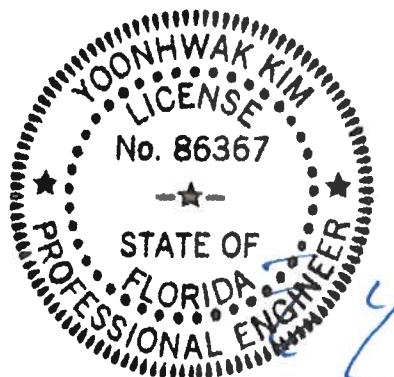
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-8-15.



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01/17/2020

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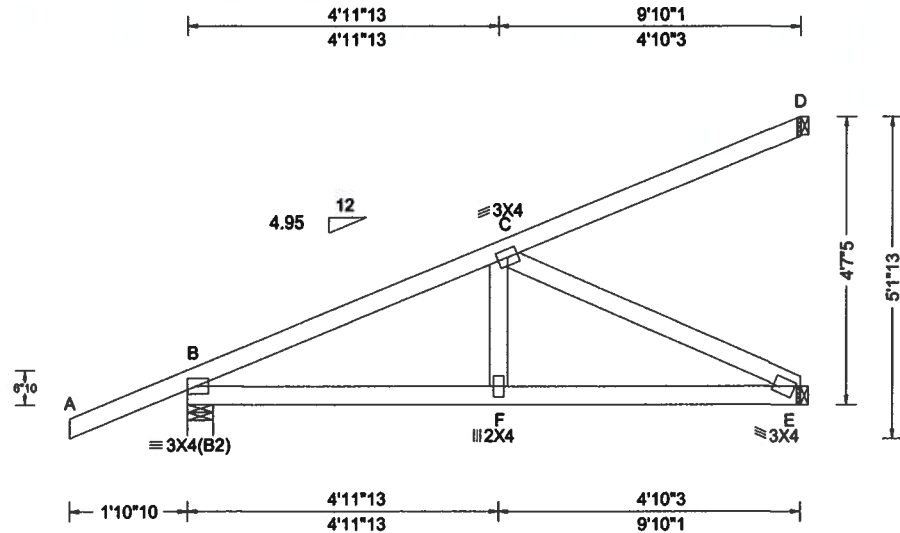
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SEQN: 589265 / FROM: CDM	HIP_	Ply: 1 Qty: 1	Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: J24	Cust: R 215 JRef: 1WRZ2150004 T31 / DrwNo: 017.20.1126.18695 / FV 01/17/2020
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Loading 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cs: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.019 F 999 240 VERT(CL): 0.039 F 999 240 HORZ(LL): -0.007 D - - HORZ(TL): 0.015 D - - Creep Factor: 2.0 Max TC CSI: 0.704 Max BC CSI: 0.645 Max Web CSI: 0.379  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 357 /- /- /- /146 /- E 370 /- /- /- /72 /- D 95 /- /- /- /29 /- Wind reactions based on MWFRS B Brg Width = 4.9 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Special Loads

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 0 plf at -1.89 to 62 plf at 0.00  
TC: From 2 plf at 0.00 to 2 plf at 9.84  
BC: From 0 plf at -1.89 to 4 plf at 0.00  
BC: From 2 plf at 0.00 to 2 plf at 9.84  
TC: -26 lb Conc. Load at 1.41  
TC: 144 lb Conc. Load at 4.24  
TC: 276 lb Conc. Load at 7.07  
BC: 27 lb Conc. Load at 1.41  
BC: 110 lb Conc. Load at 4.24  
BC: 189 lb Conc. Load at 7.07

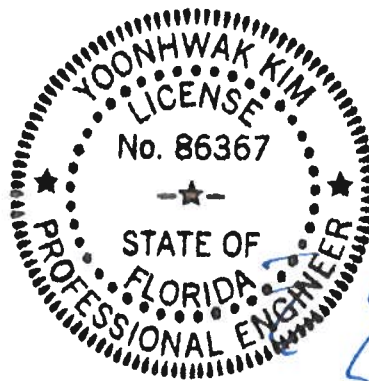
#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7.5.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

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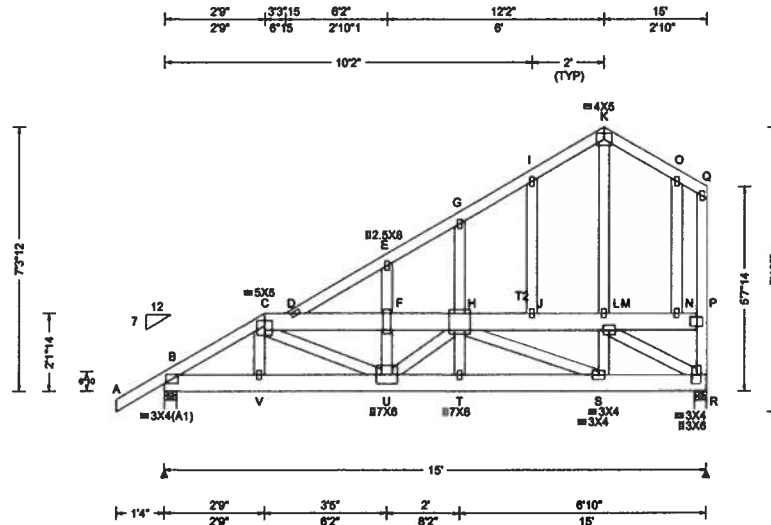
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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



SEQN: 571240 / FROM: CDM	SPEC Qty: 1	Ply: 1 Job Number: 19-3769 /Parnell /ZECHE CONSTRUCTION Truss Label: K01	Cust: R 215 JRef:1WRZ2150004 T11 / DrwNo: 017.20.1126.19054 / FV 01/17/2020
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 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  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.029 G 999 240 VERT(CL): 0.059 G 999 240 HORZ(LL): 0.012 Q - - HORZ(TL): 0.024 Q - - Creep Factor: 2.0 Max TC CSI: 0.232 Max BC CSI: 0.136 Max Web CSI: 0.282  VIEW Ver: 18.02.01B.0321.08	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ /R- /Rh /Rw /U /RL B 933 /- /- /- /213 /- R 840 /- /- /- /188 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 R Brg Width = 4.0 Min Req = 1.5 Bearings B & R are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 258 -1217 H - J 226 -1041 C - D 344 -1595 J - L 227 -1043 D - F 337 -1576 L - M 227 -1043 F - H 340 -1582

**Lumber**  
Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3;

**Special Loads**  
—(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at -1.33 to 63 plf at 2.75  
TC: From 32 plf at 2.75 to 32 plf at 14.71  
TC: From 63 plf at 14.71 to 63 plf at 15.00  
BC: From 5 plf at -1.33 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 2.78  
BC: From 10 plf at 2.78 to 10 plf at 15.00  
TC: 96 lb Conc. Load at 2.78  
TC: 63 lb Conc. Load at 4.81, 6.81, 8.81, 10.81  
TC: 81 lb Conc. Load at 12.81, 14.81  
BC: 120 lb Conc. Load at 2.78  
BC: 50 lb Conc. Load at 4.81, 6.81, 8.81, 10.81  
BC: 53 lb Conc. Load at 12.81, 14.81

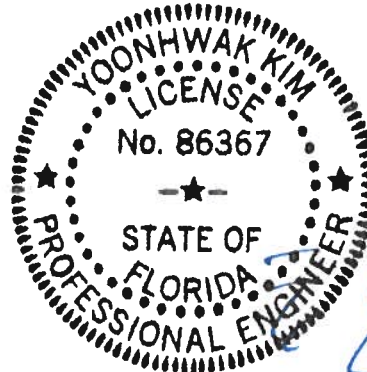
**Plating Notes**  
All plates are 1.5X3 except as noted.

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

**Additional Notes**  
Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7'-3-12.

Laterally brace chord above/below filler at 24" OC (or as designed) including a lateral brace on chord directly above/ below both ends of filler (if no rigid diaphragm exists at that point)

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



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01/17/2020

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - V	1007 -206	T - S	1620 -357
V - U	1002 -210	S - R	986 -223
U - T	1620 -357		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - U	696 -150	S - M	401 -35
H - S	140 -634	M - R	269 -1186

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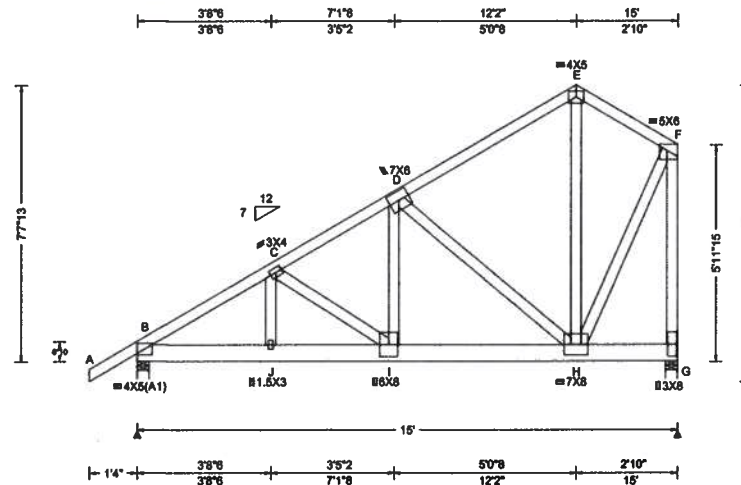
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCE: www.sbcindustry.com; ICC: www.iccsafe.org

**ALPINE**  
ANTHONY COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32811

SEQN: 571163 / FROM: CDM	SPEC Ply: 2 Qty: 1	Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: K02	Cust: R215 JRef:1WRZ2150004 T34 / DrwNo: 017.20.1126.19272 / FV 01/17/2020
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.060 I 999 240							
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.120 I 999 240	B	3338	/-	/-	/-	/747	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 C - -	G	4768	/-	/-	/-	/1009	/-
	EXP: C Kzt: NA		HORZ(TL): 0.030 C - -	Wind reactions based on MWFRS						
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B	Brg Width = 4.0		Min Req = 1.5			
NCBCLL: 0.00	TCDL: 5.0 psf		Max TC CSI: 0.502	G	Brg Width = 4.0		Min Req = 2.0			
Soffit: 2.00	BCDL: 5.0 psf		Max BC CSI: 0.510	Bearings B & G are a rigid surface.						
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.938	Members not listed have forces less than 375#						
Spacing: 24.0 "	C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 9.00 ft			Chords	Tens.Comp.	Chords	Tens. Comp.			
	GCpi: 0.18			B - C	581	- 2615	D - E	233	- 1060	
	Wind Duration: 1.60									
			</							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3;

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 3.25" 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 63 plf at -1.33 to 63 plf at 7.13  
TC: From 32 plf at 7.13 to 32 plf at 12.17  
TC: From 63 plf at 12.17 to 63 plf at 15.00  
BC: From 5 plf at -1.33 to 5 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 7.13  
BC: From 10 plf at 7.13 to 10 plf at 15.00  
BC: 3161 lb Conc. Load at 7.13  
BC: 1280 lb Conc. Load at 9.06, 11.06  
BC: 1284 lb Conc. Load at 13.10

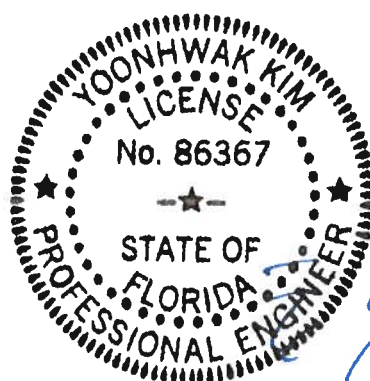
#### Wind

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

#### Additional Notes

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 7-7-13.

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



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01/17/2020

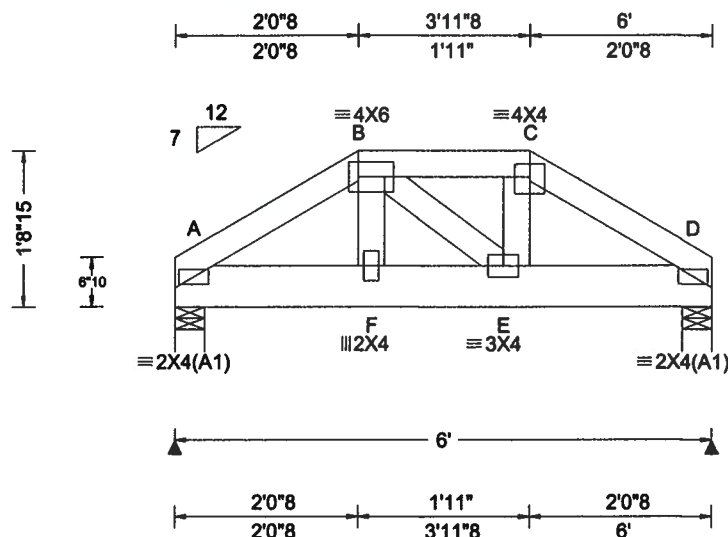
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
Suite 305  
Orlando FL, 32811



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.006 E 999 240 VERT(CL): 0.011 E 999 240 HORZ(LL): 0.001 E - - HORZ(TL): 0.002 E - - Creep Factor: 2.0 Max TC CSI: 0.079 Max BC CSI: 0.096 Max Web CSI: 0.111  VIEW Ver: 18.02.01B.0321.08	<b>Gravity</b> Loc R+ /R- /Rh /Rw /U /RL A 834 /- /- /- /40 /- D 699 /- /- /- /46 /- <b>Non-Gravity</b> Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 D Brg Width = 4.0 Min Req = 1.5 Bearings A & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 68 -843 C - D 68 -827 B - C 48 -742

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3;

#### Special Loads

——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 63 plf at 0.00 to 63 plf at 2.04  
TC: From 32 plf at 2.04 to 32 plf at 3.96  
TC: From 63 plf at 3.96 to 63 plf at 6.00  
BC: From 10 plf at 0.00 to 10 plf at 6.00  
TC: 52 lb Conc. Load at 2.07, 3.93  
BC: 294 lb Conc. Load at 0.56, 2.56, 4.56  
BC: 85 lb Conc. Load at 2.07, 3.93

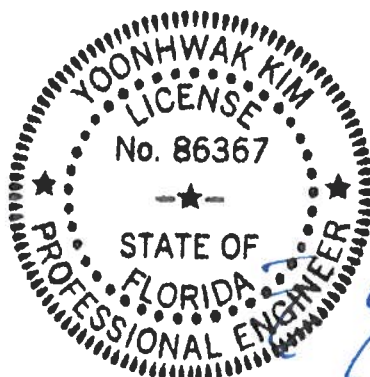
#### Wind

Wind loads and reactions based on MWFRS.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-8-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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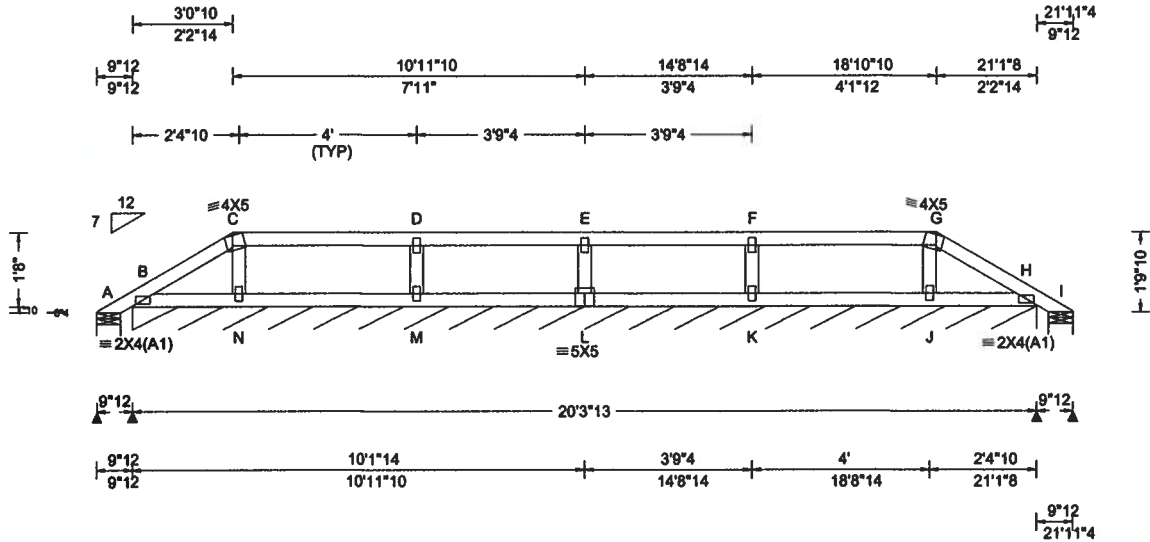
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Orlando FL, 32821





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Cs: NA	VERT(LL): 0.000 N 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA	VERT(CL): 0.001 N 999 240	A	0	/-	/-	/-	/-	/-
BCDL: 10.00	Risk Category:	Snow Duration: NA	HORZ(LL): 0.000 N - -	B*	71	/-	/-	/-	/-	/-
	EXP: C Kzt: NA		HORZ(TL): 0.001 N - -	I	0	/-	/-	/-	/-	/-
Des Ld: 40.00	Mean Height: 0.00 ft	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 0.00	TCDL: 5.0 psf		Max TC CSI: 0.208	A	Brg Width = 6.5		Min Req = 1.5			
Soffit: 2.00	BCDL: 2.0 psf		Max BC CSI: 0.024	B	Brg Width = 243		Min Req = -			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.053	I	Brg Width = 6.5		Min Req = 1.5			
Spacing: 24.0 "	C&C Dist a: 3.00 ft			Bearings A, B, & I are a rigid surface.						
	Loc. from endwall: NA			Members not listed have forces less than 375#						
	GCpl: 0.18									
	Wind Duration: 0.00		VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

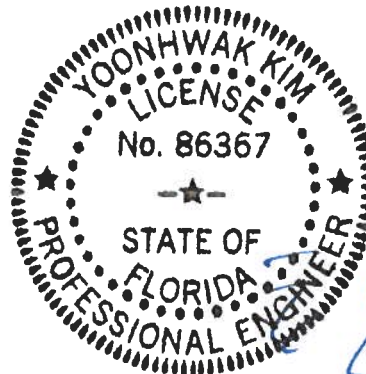
#### Plating Notes

All plates are 2X4 except as noted.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-9-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

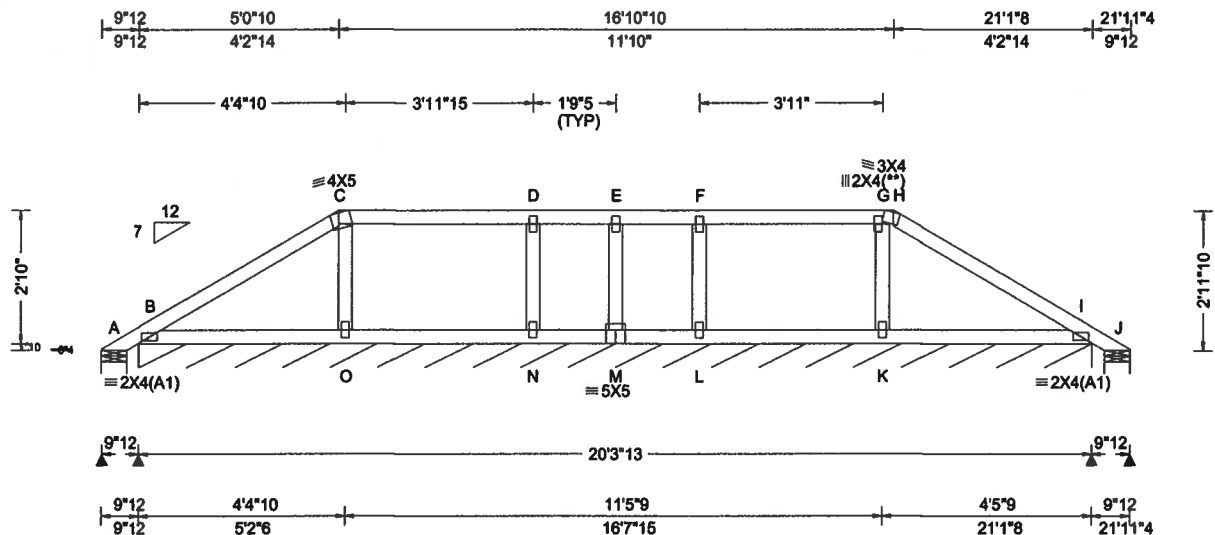
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**ALPINE**  
AN ITW COMPANY  
6750 Forum Drive  
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Orlando FL, 32821

SEQN: 573035 / FROM: CDM	HIPS Qty: 1	Ply: 1 Job Number: 19-3769 /Pamell /ZECHE CONSTRUCTION Truss Label: P02	Cust: R 215 JRef: 1WRZ2150004 T73 / DrwNo: 017.20.1126.19850 / YK 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpl: 0.18 Wind Duration: 0.00	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 O 999 240 VERT(CL): 0.003 O 999 240 HORZ(LL): 0.001 O - - HORZ(TL): 0.002 O - - Creep Factor: 2.0 Max TC CSI: 0.209 Max BC CSI: 0.086 Max Web CSI: 0.056  VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL A - /-90 /- /- /- /- B* 78 /- /- /- /- /- J - /-68 /- /- /- /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 6.5 Min Req = 1.9 B Brg Width = 243 Min Req = - J Brg Width = 6.5 Min Req = 1.5 Bearings A, B, & J are a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Plating Notes

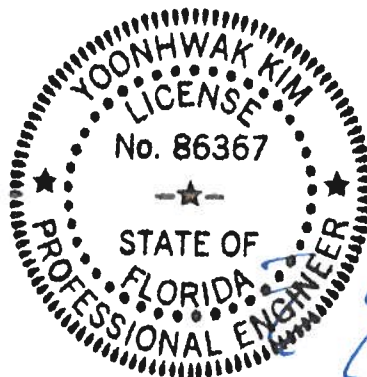
All plates are 2X4 except as noted.

(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-11-10.



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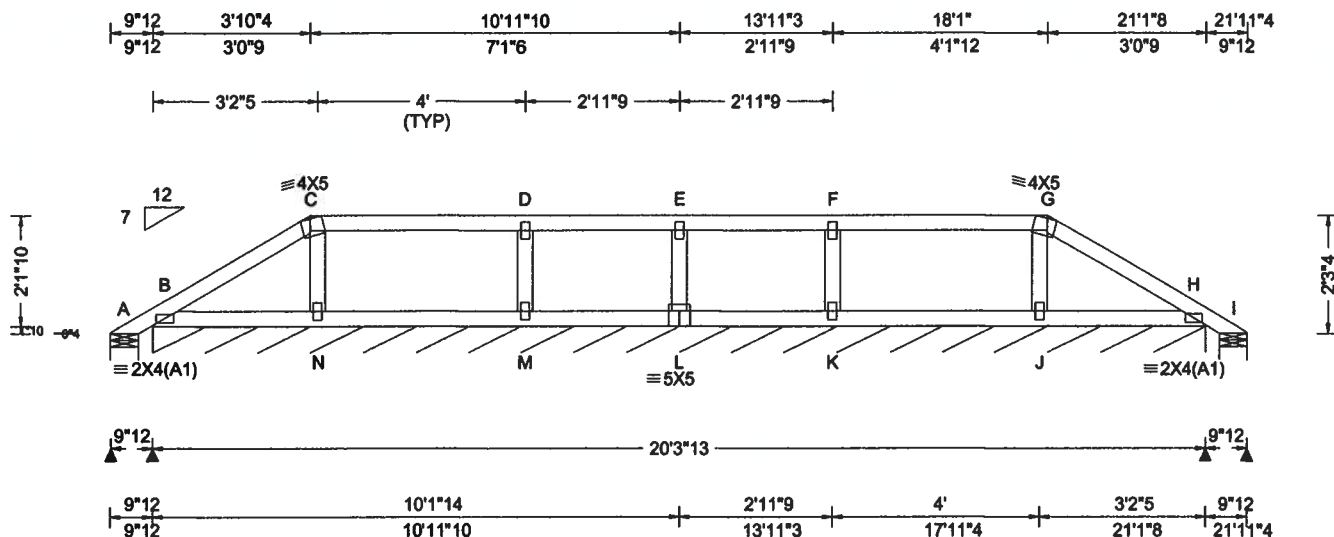
#### \*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING! \*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Uniform, by TPI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 180A-2 for standard plate positions.

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

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

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<b>Loading Criteria (psf)</b>	<b>Wind Criteria</b>	<b>Snow Criteria (Pg,Pf in PSF)</b>	<b>Defl/CSI Criteria</b>	<b>▲ Maximum Reactions (lbs), or *PLF</b>
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	<div>GravityNon-Gravity</div> <div>LocR+ /R- /Rh /Rw /U /RL</div>
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 N 999 240	A - /-27 /- /- /- /-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 N 999 240	B* 73 /- /- /- /- /-
BCDL: 10.00	Risk Category:	Snow Duration: NA	HORZ(LL): 0.001 N - -	I - /-27 /- /- /- /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 N - -	
NCBCLL: 0.00	Mean Height: 0.00 ft	<b>Code / Misc Criteria</b>	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.208	A Brg Width = 6.5 Min Req = 1.8
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.039	B Brg Width = 243 Min Req = -
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.053	I Brg Width = 6.5 Min Req = 1.5
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Bearings A, B, & I are a rigid surface.
	Loc. from endwall: NA	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE		
	Wind Duration: 0.00		VIEW Ver: 18.02.01B.0321.08	

#### Lumber

Top chord: 2x4 SP #2;  
 Bot chord: 2x4 SP #2;  
 Webs: 2x4 SP #3;

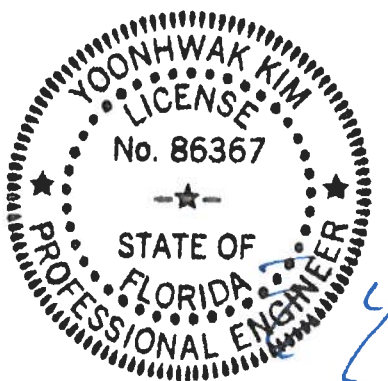
#### Plating Notes

All plates are 2X4 except as noted.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-3-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 01/17/2020

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

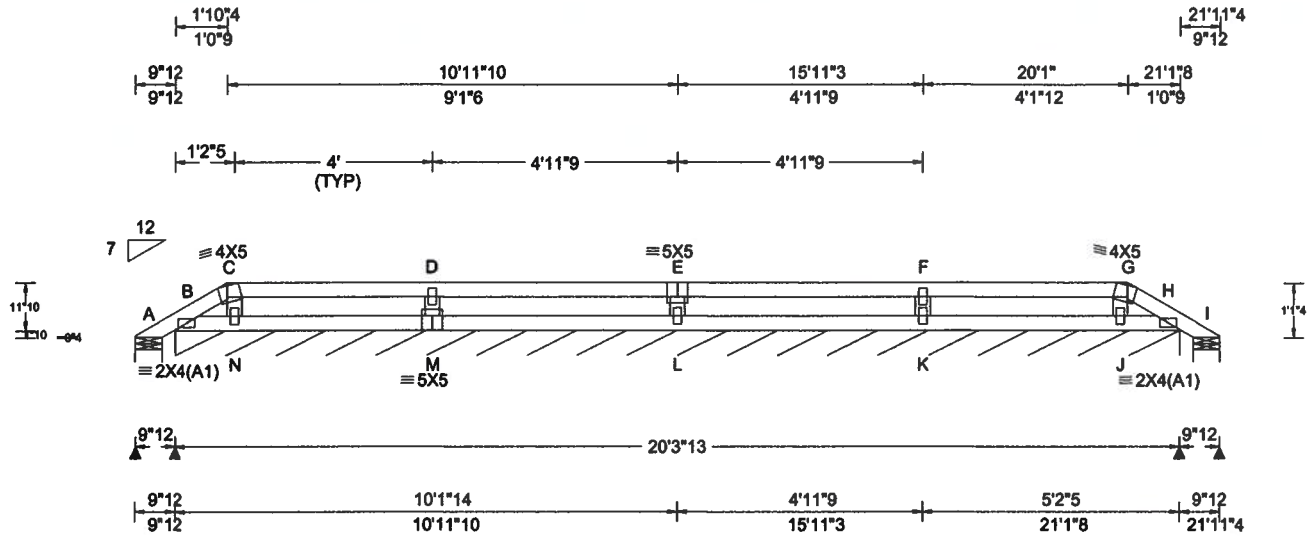
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 180A-Z for standard plate positions.

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

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

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 6750 Forum Drive  
 Suite 305  
 Orlando FL, 32821

SEQN: 573041 / FROM: CDM	HIPS Qty: 1	Ply: 1 Job Number: 19-3769 /Parnell /ZECHEER CONSTRUCTION Truss Label: P04	Cust: R 215 JRef: 1WRZ2150004 T77 / DrwNo: 017.20.1126.19801 / YK 01/17/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 F 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 F 999 240	A	19	/-	/-	/-	/-	/-
BCDL: 10.00	Risk Category:	Snow Duration: NA	HORZ(LL): 0.000 N - -	B*	69	/-	/-	/-	/-	/-
	EXP: C Kzt: NA		HORZ(TL): 0.000 N - -	I	19	/-	/-	/-	/-	/-
Des Ld: 40.00	Mean Height: 0.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 0.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.263	A	Brg Width = 6.5		Min Req = 1.5			
Soffit: 2.00	BCDL: 2.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.017	B	Brg Width = 243		Min Req = -			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.058	I	Brg Width = 6.5		Min Req = 1.5			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes		Bearings A, B, & I are a rigid surface.						
	Loc. from endwall: NA	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	GCpl: 0.18	Plate Type(s):								
	Wind Duration: 0.00	WAVE	VIEW Ver: 18.02.01B.0321.08							

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

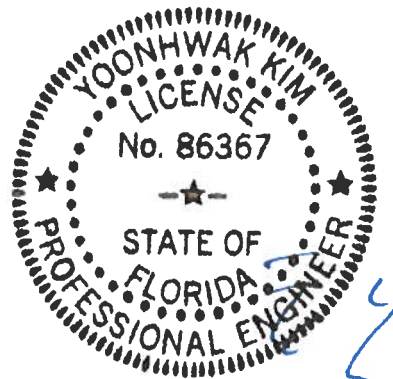
#### Plating Notes

All plates are 2X4 except as noted.

#### Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1'-1-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
01/17/2020

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

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

For more information see this job's general notes page and these web sites: ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinet.org](http://www.tpinet.org); SBCEA: [www.sbcindustry.com](http://www.sbcindustry.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

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Orlando FL, 32821



ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C,  $K_{zt} = 1.00$

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

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

100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D,  $K_{zt} = 1.00$

Group A1			
Service-Pne-Fr.		Hem-Fr.	
#1 / #2	Standard	#2	Stud
#3	Standard	#3	Standard
Douglas Fir-Larch		Southern Pine	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B1	
Hem-Fr.	
#1 & Btr	
#1	
Douglas Fir-Larch	
#1	
#2	
Southern Pine	
#1	
#2	

**Gable Truss Detail Notes:**  
Wind Load deflection criterion is L/240.

Provide uplift connections for 55 pcf over continuous bearing (3 psf TC Dead Load).

Table end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

\* For (1) 'L' brace space nails at 2' o.c.

in 18" end zones and 4' o.c. between zones.

In 18' end zones and 6' o.c. between zones.

TL' bracing must be a minimum of 80% of web

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

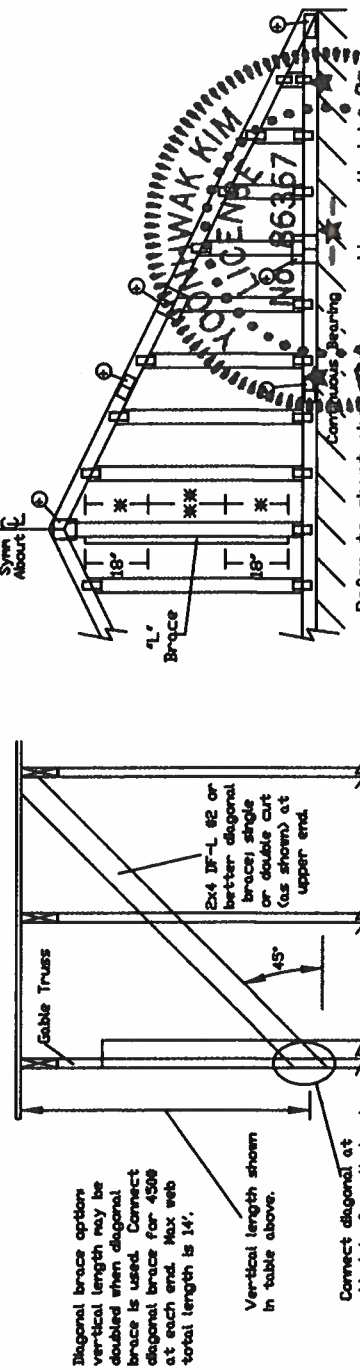
- Refer to common truss design for peak, splice, and heel plates.

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

ASCE7-10-GAB14015  
DATE 10/01/14  
A14015ENC101014

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0'



Refer to chart above of max cable vertical length

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

Trusses require extensive care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of AISC Building Component Safety Information, by TRS and ASD for safety practices prior to performing these functions. Installers shall provide temporary bracing per AISI. Unless noted otherwise, top chord shall have properly attached structural steeling and bottom chord shall have a properly attached rtd cable. Locations shown for permanent lateral bracing of webs shall have bracing installed per AISI sections 13, 17 or 30, as applicable. Apply plates to each face of truss web and position as shown above and on the Joint Details. Unless noted otherwise, use 1/2" x 1/4" x 16" A36 steel plates.

[illegible]

01/17/2020

[illegible]

01/17/2023 11:58 AM 0606271/16

# Gable Stud Reinforcement Detail

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

Or 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

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

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

Gable Vertical Spacing		2x4 Vertical Species	Brace		No Braces		(1) 1x4 'L' Brace						(1) 2x4 'L' Brace						(2) 2x4 'L' Brace						(1) 2x6 'L' Brace						(2) 2x6 'L' Brace																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			Grade	Brace			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
16" O.C.	SPF	HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	SP	DFL	#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 6"	14' 0"	SP	DFL	#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 6"	14' 0"	SP	DFL	#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	8' 10"	9' 6"	11' 7"	14' 0"	14' 0"	14' 0"	SP	DFL	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	12" O.C.	#1	4' 10"	6' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	SP	DFL	#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	SP	DFL	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	24" O.C.	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	1

## Member Substitution

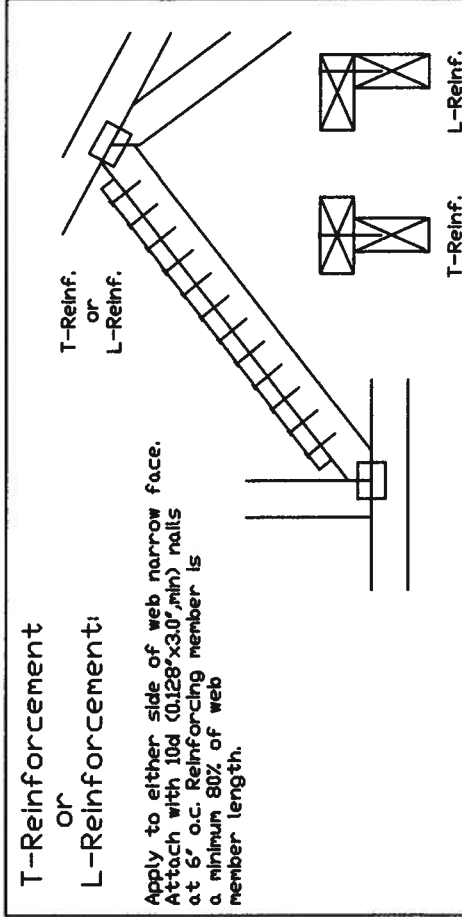
## Notes:

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

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

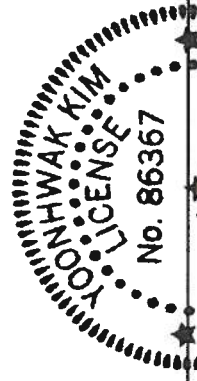
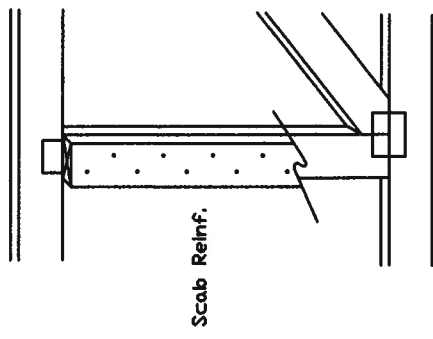
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4@
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6@

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



### Scab Reinforcement:

Apply scab(s) to wide face of web.  
No more than (1) scab per face.  
Attach with 10d (0.128"x3.0") nails  
at 6" o.c. Reinforcing member is a  
minimum 80% of web member length.



**MEMORANDUM HEAD AND FOLLOW ALL NOTES ON THIS DRAWING**  
**IMPORTANT! FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extensive care in fabricating, handling, shipping, installation, and bracing. Refer to and follow the latest edition of RSCC Girding Component Safety Information, by ITW and RSCC for safety practices prior to performing these functions. Installers shall provide temporary bracing per RSCC. Trusses shall be stored on a flat, level surface. Trusses shall have temporary struts and bracing placed and secured in accordance with the RSCC Girding Component Safety Information, by ITW and RSCC. Trusses shall have bracing installed per RSCC sections 32.2, or 33.0, 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 1504-2 for standard plate positions.

Notes: a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing. Any change to build the truss in conformance with AISI/TPI 1, or for handling, shipping, or erection, shall be made by the fabricator. This drawing indicates experience of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per AISI/TPI 1 and 3.2.

For more information see this job's general notes page and these web sites:  
ALPINE web site: <http://www.alpineinc.com> RSCC web site: <http://www.rscctruss.com> ITW web site: <http://www.itw.com>

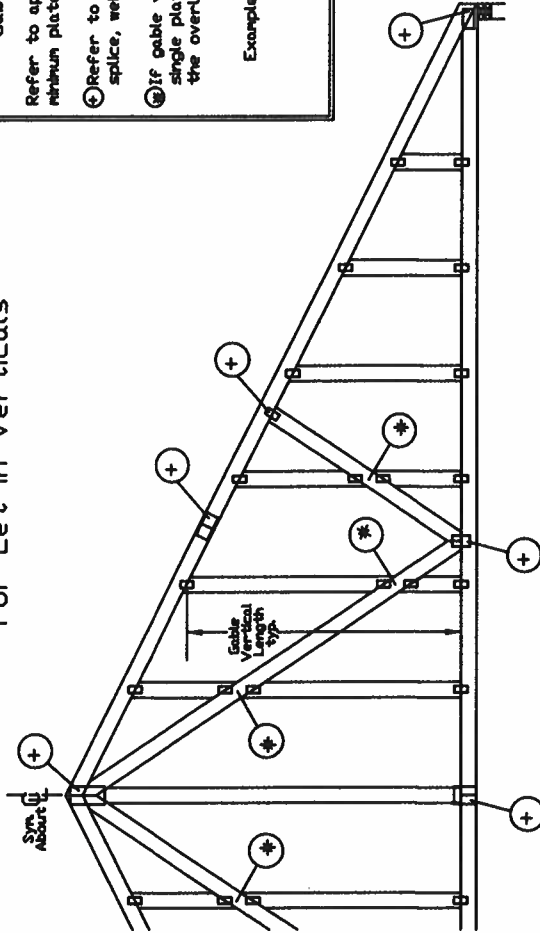


13723 Riverport Drive  
Suite 200  
Maryland Heights, MO 63043

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCCLBSUB0119
PSF	
PSF	
PSF	
PSF	
TOT. LD.	
DWR. FAC.	
SPACING	



# Gable Detail For Let-In Verticals



## Gable Truss Plate Sizes

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

① Refer to Engineered truss design for peak, splice, web, and heel plates.

② If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



Examples

'T' Reinforcement Attachment Detail  
'T' Reinforcing Member  
End-nail



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.	'T' Min. Size	Increase
2x4	30 %	
2x6	20 %	

Example:

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

Provide connections for uplift 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" x 3" min) Toenails at 4' o.c. plus
- (4) toenails in the top and bottom chords.

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

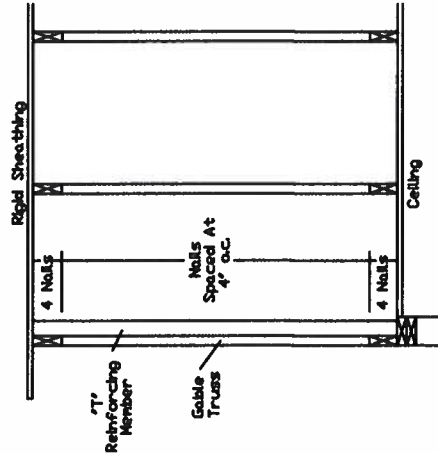
ASCE 7-05 Gable Detail Drawings

A13005051014, A12015051014, A10015051014, A14015051014, A13003051014, A12030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A115150510118, A120150510118, A140150510118, A150150510118, A160150510118, A170150510118, A180150510118, A190150510118, A200150510118, A210150510118, A220150510118, A230150510118, A240150510118, A250150510118, A260150510118, A270150510118, A280150510118, A290150510118, A300150510118, A310150510118, A320150510118, A330150510118, A340150510118, A350150510118, A360150510118, A370150510118, A380150510118, A390150510118, A400150510118, A410150510118, A420150510118, A430150510118, A440150510118, A450150510118, A460150510118, A470150510118, A480150510118, A490150510118, A500150510118, A510150510118, A520150510118, A530150510118, A540150510118, A550150510118, A560150510118, A570150510118, A580150510118, A590150510118, A600150510118, A610150510118, A620150510118, A630150510118, A640150510118, A650150510118, A660150510118, A670150510118, A680150510118, A690150510118, A700150510118, A710150510118, A720150510118, A730150510118, A740150510118, A750150510118, A760150510118, A770150510118, A780150510118, A790150510118, A800150510118, A810150510118, A820150510118, A830150510118, A840150510118, A850150510118, A860150510118, A870150510118, A880150510118, A890150510118, A900150510118, A910150510118, A920150510118, A930150510118, A940150510118, A950150510118, A960150510118, A970150510118, A980150510118, A990150510118, A1000150510118

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



IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING.

Trusses require extreme care in fabrication, shipping, handling and bracing. Refer to and follow the latest edition of EBC Guiding Component Safety Information, by ITI and ASCE for safety practices prior to performing these functions. Installers shall provide temporary bracing per EBC. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall be reinforced per local codes. If not applicable, apply plates to each face of truss and fasten to adjacent members. Refer to drawings EBC-12 for standard plate positions.

Alpine, a division of ITV 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 or bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicating acceptance of professional seal and signature of the building designer per ANSI/TPI 1, shall be the responsibility of the building designer for any structure in which this truss is used.

For more information see this job's general notes page and these web sites: [www.alpinebuilding.com](http://www.alpinebuilding.com) and [www.itvbuilding.com](http://www.itvbuilding.com)



13723 Riverport Drive  
Suite 200  
Maryland Heights, MO 63043

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0'

Yoonhwak Kim, FL PE #86367



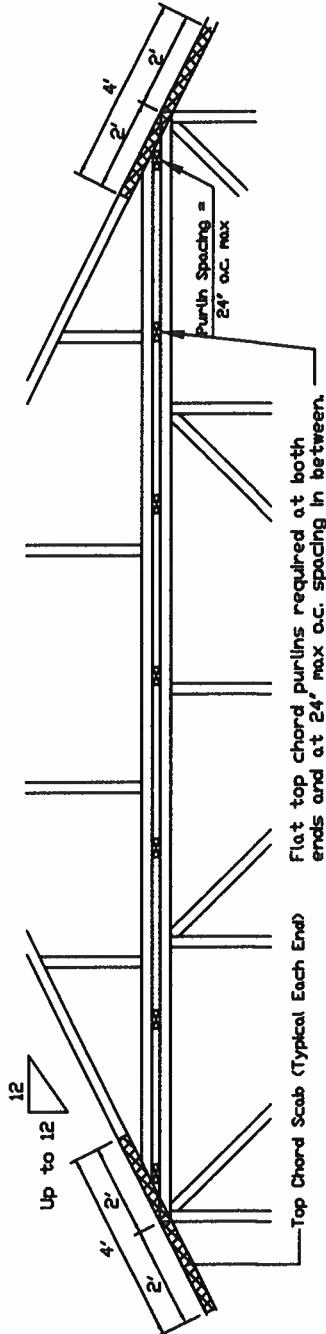
# Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp C, Wind III = 50 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg, located anywhere in roof, Exp D, Wind III = 50 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends. Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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

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



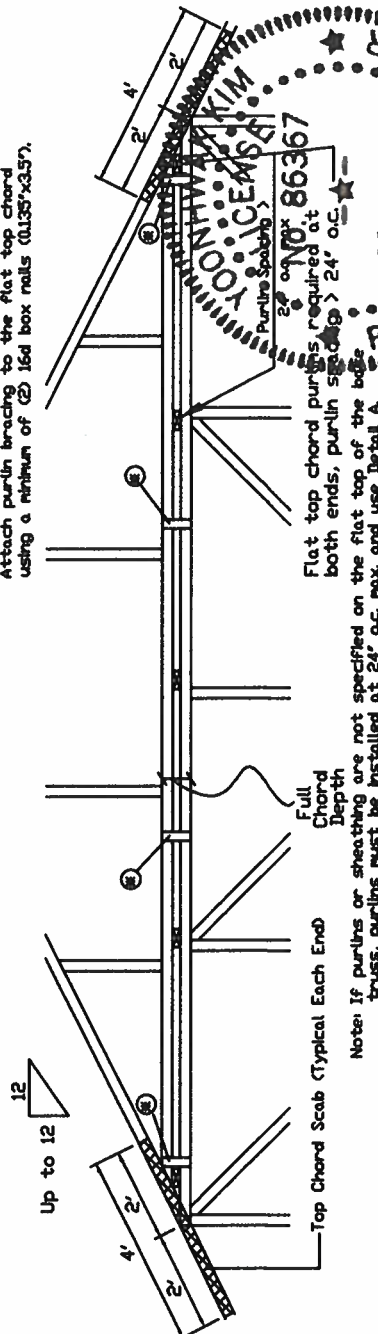
Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following (1) 3x8 Trulox plate attached with (3) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (2) 2x8 PWB wave piggyback plate to the piggyback truss and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

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

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



In addition, provide connection with one of the following methods

### Trulox

Use 3x8 Trulox plates for 2x4 chord member, and 3x10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

### APA Rated Gussset

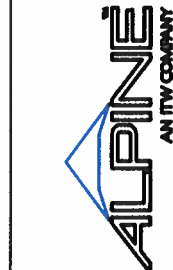
8"x8"x7/16" (min) APA rated sheathing gusssets (each face). Attach @ 8' o.c. with (3) 6d common (0.113"x2") nails per gussset, (4) in cap bottom chord and (4) in base truss top chord. Gusssets may be staggered 4' o.c. front to back faces.

### 2x4 Vertical Scabs

2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

### 2x8 Wave Piggyback Plate

Use 2x8 wave piggyback plate to each face @ 8' o.c. Attach to piggyback at top of (4) 0.120"x1.375" nails per scab, (4) in cap bottom chord and (4) in base truss top chord. Piggyback plates may be staggered 4' o.c. front to back faces.



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Maryland Heights, MO 63043

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING. INFORMATION FURNISHED THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of the Building Components Group Inc. (BCGI) Manual for the correct installation of the trusses. The trusses shall be installed in accordance with the BCGI Manual. The trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs are for reference only. Refer to drawings 1501-2 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 accordance with ANSI/TPI 1, or for handling, shipping, installation, or bracing of trusses.

A seal on this drawing or cover page listing this drawing indicates acceptance of professional responsibility by the Engineer of Record. The Engineer of Record shall be responsible for the design of any structure in the responsibility of the Building Engineer per ANSI/TPI 1, Sec 2.

For more information see the BCGI's general notes page and these web sites: [www.alpineinc.com](http://www.alpineinc.com) [www.bcgigroup.com](http://www.bcgigroup.com) [www.ansi-tpi.org](http://www.ansi-tpi.org)



REF PIGGYBACK

DATE 10/01/14

DRWG PB160101014

SPACING 24.0'

Yoonhwak Kim, FL PE #86367

# NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

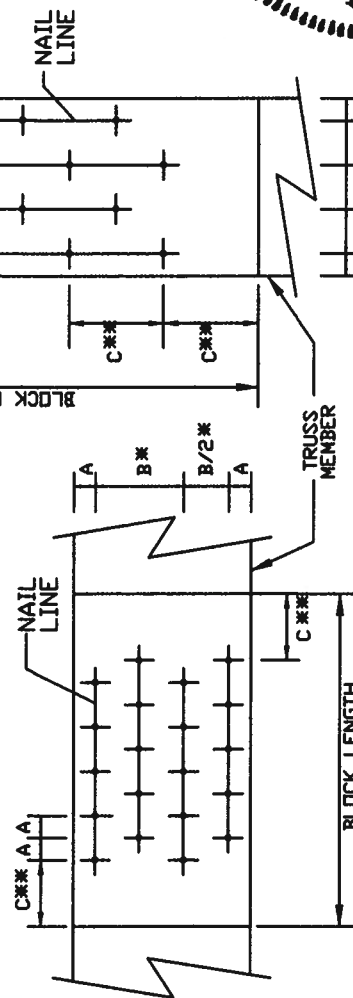
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

\* SPACING MAY BE REDUCED BY 50%.

\*\* SPACING MAY BE REDUCED BY 33%.

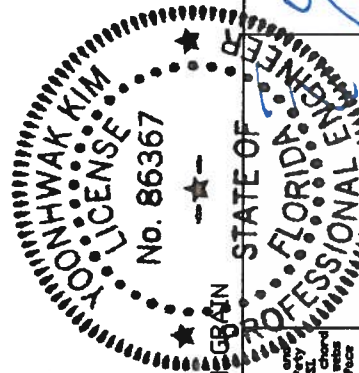
DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN      LOAD APPLIED PARALLEL TO GRAIN

## MINIMUM NAIL SPACING DISTANCES

DISTANCES				
NAIL TYPE	A	B*	C**	D
8d BOX (0.113" X 2.5", MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128" X 3", MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128" X 3.25", MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135" X 3.5", MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148" X 4", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131" X 2.5", MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148" X 3", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148" X 3.25", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162" X 3.5", MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120" X 2.5", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131" X 2.5", MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120" X 3", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131" X 3", MIN)	7/8"	1 5/8"	2"	1"



IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING. INSTALLERS MUST FOLLOW THE LATEST EDITION OF ICC Building Component Safety Information by ITI and ICCA for safety. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ICC Building Component Safety Information by ITI and ICCA for safety. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ICC Building Component Safety Information by ITI and ICCA for safety. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ICC Building Component Safety Information by ITI and ICCA for safety.



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REF	NAIL SPACE
DATE	10/01/14
DRWG	CNNAILS01014