DATE 03/05/2019

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000037824

APPLICANT J. LAMAR DUPREE, SR. PHONE 386.752.8631

ADDRESS 406 SW THERESA CT LAKE CITY FL 32025

OWNER JAMES M. & AMANDA CONNER PHONE 386.365.0929

ADDRESS 199 SW SOLSTICE CT LAKE CITY FL 32055

CONTRACTOR JOSEPH L. DUPREE, JR. PHONE 386.86.5697

LOCATION OF PROPERTY 90-W TO BROWN,TR TO SOLSTICE,TL ON L PAST BROOK LOOP.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 209800.00

HEATED FLOOR AREA 2732.00 TOTAL AREA 4196.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC

LAND USE & ZONING PRD MAX. HEIGHT ____

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

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. ____

PARCEL ID 20-3S-16-02202-136 SUBDIVISION HIGH POINTE

LOT 36 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 5.88

		CGC060631		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
PRIVATE	18-0494	TC	LH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

Time/STUP No.

COMMENTS: FLOOR ONE FOOT ABOVE ROAD. (NO BUFFER ZONE)

Check # or Cash 7397

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power ____ date/app. by

Foundation ____ date/app. by

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

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

Slab ____ date/app. by

Sheathing/Nailing ____ date/app. by

Framing ____ date/app. by

Insulation ____ date/app. by

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

Electrical rough-in ____ date/app. by

Heat & Air Duct ____ date/app. by

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

Pool ____ date/app. by

Permanent power ____ date/app. by

C.O. Final ____ date/app. by

Culvert ____ date/app. by

Pump pole ____ date/app. by

Utility Pole ____ date/app. by

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

Reconnection ____ date/app. by

RV ____ date/app. by

Re-roof ____ date/app. by

BUILDING PERMIT FEE $ 1050.00 CERTIFICATION FEE $ 20.98 SURCHARGE FEE $ 20.98

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

PLAN REVIEW FEE $ 263.00 DP & FLOOD ZONE FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 1429.96

INSPECTORS OFFICE ____ CLERKS OFFICE ____

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

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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

Manuel J energy called Jody 2-19-19 T.C.

Columbia County New Building Permit Application

For Office Use Only Application # 1902-36 Date Received 2/13 By JW Permit # 39824

Zoning Official LH Date 2-27-19 Flood Zone X Land Use AG Zoning PRD

FEMA Map # N/A Elevation N/A MFE 1' Above River N/A Plans Examiner T.C. Date 2-27-19

Comments Floor 1' Above Rd. (NO Buffer Zone) Front 30' Sides 25' Rear 25'

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

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

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

Septic Permit No. 18-0494 OR City Water - Fax -

Applicant (Who will sign/pickup the permit) LAMAR DUPREE Phone 386-752-8631

Address 406 S.W. THERESA COURT LAKE CITY, FLA. 32025 CELL 386-867-0090

Owners Name JAMES M. & AMANDA L. CONNER Phone 386-365-0929

911 Address ~~164 S.W. BIRCH GLN.~~ 199 NW SOLTICE CT LAKE CITY, FLA. ~~32024~~ 32055

Contractors Name JOSEPH L. DUPREE JR. Phone 386-867-5697

Address 406 S.W. THERESA COURT LAKE CITY, FLA. 32025

Contractor Email dupreej.ccm@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address JAMES M. & AMANDA L. CONNER 164 S.W. BIRCH GLN. LAKE CITY, FLA 32024

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address SCHAFER ENGINEERING L.L.C. 14705 MAIN ST. ALACHUA, FLA. 32615

Mortgage Lenders Name & Address PEOPLES STATE BANK 161 N.W. LAKE JEFFERY ROAD LAKE CITY, FLA 32025

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

Property ID Number 20-3S-16-02202-136 Estimated Construction Cost $ 320,560.00

Subdivision Name HIGH POINTE - - Lot 36 Block - Unit - Phase -

Driving Directions from a Major Road US 90 WEST, TURN RIGHT ON BROWN ROAD. GO around HARD CURVE, GO WEST ON BROWN ROAD TO N.W. SOLSTICE CT. TURN LEFT SITE ON LEFT.

8' 12

Construction of SINGLE FAMILY RESIDENCE Commercial OR ✓ Residential

Proposed Use/Occupancy FAMILY DWELLING Number of Existing Dwellings on Property -

Is the Building Fire Sprinkled? NO If Yes, blueprints included - Or Explain -

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

Actual Distance of Structure from Property Lines - Front - Side 79' FT Side - Rear 99 FT

Number of Stories 1 Heated Floor Area 2732 Total Floor Area 4196 Acreage 5.88

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

Sent email 2.14.19 - JW spoke w/ Jody 2.5.19

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.

X James Conner
Print Owners Name

X _____
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 CGC060631
Columbia County
Competency Card Number _____

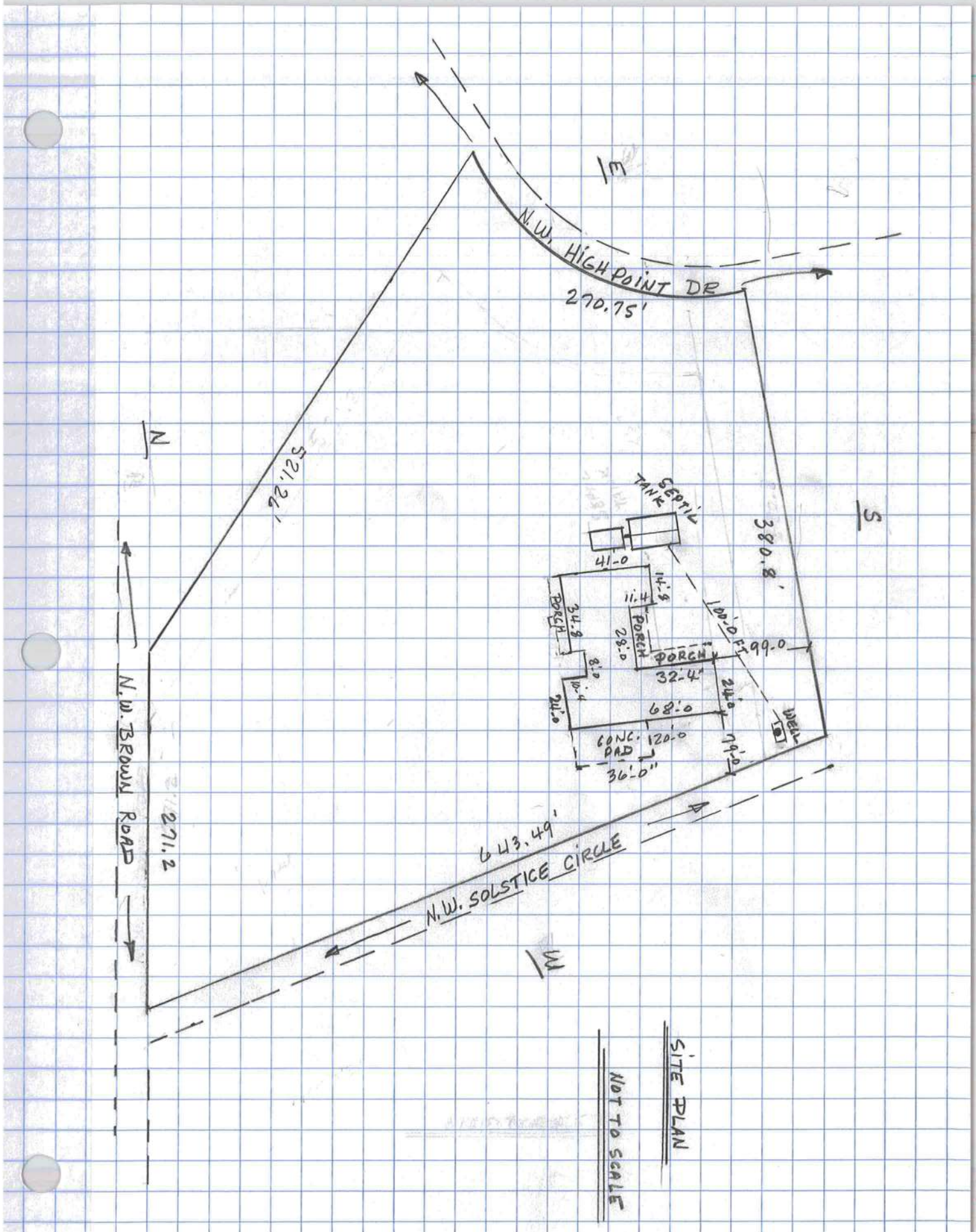
Affirmed under penalty of perjury to by the Contractor and subscribed before me this 1 **day of** February **20** 19

Personally known [X] **or Produced Identification** _____

Shannon M Regan
State of Florida Notary Signature (For the Contractor)

SEAL:

SHANNON M REGAR
MY COMMISSION # GG048931
EXPIRES November 30, 2020


E
N.W. HIGH POINT DR
270.75'
N
192.12'
S
380.8'
SEPTIC TANK
41-0
14'-8
11.4
PORCH
34.8
PORCH
28'-0
PORCH
32'-4"
100'-0" FT.
99.0
8'-0
10'-4
24'-0
68'-0
24'-0
WELL
CONC. PAD 36'-0"
120-0
79'-0
N.W. BROWN ROAD
271.2
643.49'
N.W. SOLSTICE CIRCLE
W
SITE PLAN
NOT TO SCALE

District No. 1 - Ronald Williams
District No. 2 - Rusty DePratter
District No. 3 - Bucky Nash
District No. 4 - Everett Phillips
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

Date/Time Issued:	**6/7/2018 2:46:30 PM**
Address:	**199 NW SOLSTICE Ct**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32055**
Parcel ID	**02202-136**

REMARKS: Address for proposed structure on parcel.

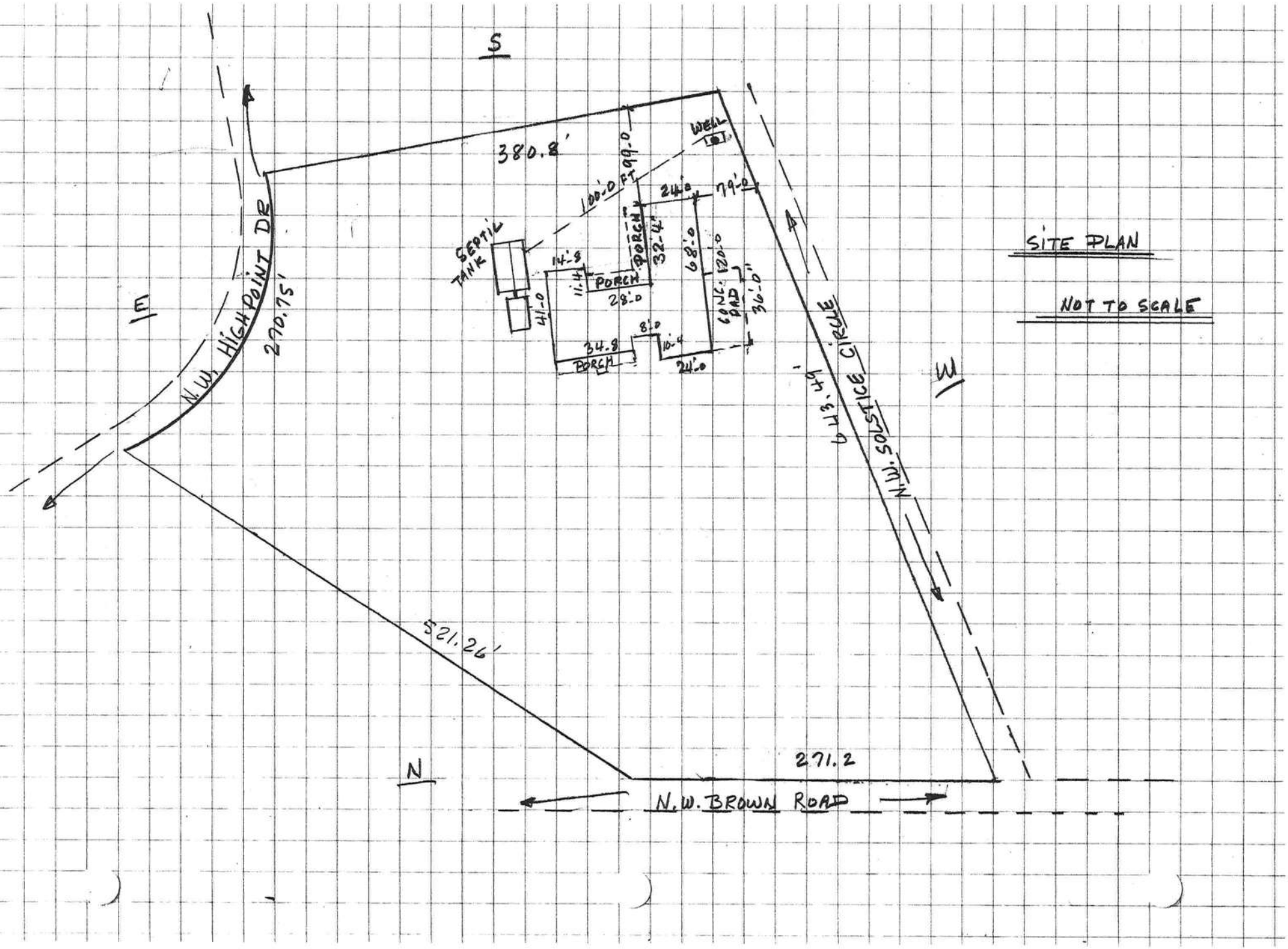
NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

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


S
380.8'
WELL
100.0 FT
99.0
24'0
79'-0
SEPTIC TANK
14'-8
11'-4
PORCH
28'-0
32'-4"
PORCH
68'-0
120'-0
CONC. PAD
36'-0"
41'-0
34'-8
PORCH
8'0
10'-4
24'-0
E
N.W. HIGH POINT DR
290.75'
W
N.W. SOLSTICE CIRCLE
643.49'
521.26'
N
271.2
N.W. BROWN ROAD
SITE PLAN
NOT TO SCALE

Legend

2016Aerials

Parcels

Subdivisions

Roads

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

Addressing:2018 Base Flood Elevations Group

2018 Base Flood Elevations

- DEFAULT
- Base Flood Elevations

2018 Base Flood Elevation Zones

- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH

2018 Flood Zones

- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH

2009 Base Flood Elevations

- DEFAULT
- Base Flood Elevations

DevZones1

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

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Feb 27 2019 14:19:18 GMT-0500 (Eastern Standard Time)

Parcel Information

Parcel No: 20-3S-16-02202-136

Owner: CONNER JAMES M &

Subdivision: HIGH POINTE

Lot: 36

Acres: 5.87538767

Deed Acres: 5.88 Ac

District: District 3 Bucky Nash

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3, PRD


NW SOLSTICE CT
79'
643.49'
HOUSE LOCATION
99'
271.2'
380.8'
270.75'
521.26'
NW HIGH POINT DR
NW BROWN RD
NW BROOK LOOP

This Instrument Prepared By:
Lake City Title
426 SW Commerce Dr, Ste 145
Lake City, FL 32024
2017-2146

MORTGAGE DEED

This MORTGAGE DEED executed on October 20, 2017, by **James M. Conner and Amanda L. Conner**, Husband and Wife, whose post office address is 164 SW Birch Glen, Lake City, FL 32024, hereinafter called the MORTGAGOR, to **Brown Road Properties, LLC**, a Florida Limited Liability Company, whose post office address is 1140 SW Bascom Norris Dr., Ste 107, Lake City, FL 32025, hereinafter called the MORTGAGEE:

(Wherever used herein the terms "MORTGAGOR" and "MORTGAGEE " include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations; and the term "NOTE" includes all the notes herein described if more than one.)

WITNESSETH, that for good and valuable considerations and also in consideration of the aggregate sum named in the promissory note of even date herewith which states that the Mortgagor owes the Mortgagee FIFTY EIGHT THOUSAND NINE HUNDRED TWENTY THREE AND 23/100--- ($58,923.25) which is due and payable on **October 20, 2027**, hereinafter described, the MORTGAGOR hereby grants, bargains, sells, aliens, remises, conveys and confirms unto the mortgagee all the certain land of which the MORTGAGOR is now seized and in possession situate in Columbia County, Florida, viz:

Lot 36, HIGH POINTE, according to the Plat thereof, as recorded in PRRD Book 1, Pages 28-31, of the Public Records of Columbia County, Florida.

Bearing the address: TBD NW High Point Drive, Lake City, FL 32055

TO HAVE AND TO HOLD, the same, together with the tenements, hereditaments and appurtenances thereto belonging and the rents, issue and profits thereof, unto the mortgagee, in fee simple.

AND the mortgagor covenants with the mortgagee that the mortgagor is indefeasibly seized of said land in fee simple; that the mortgagor has good right and lawful authority to convey said land as aforesaid; that the mortgagor will make such further assurances to perfect the fee simple title to said land in the mortgagee as may reasonably be required; that the mortgagor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free and clear of all encumbrances.

PROVIDED ALWAYS that, if said mortgagor shall pay unto said mortgagee the certain promissory note attached as EXHIBIT B hereto and shall perform, comply with and abide by each and every one of the agreements, stipulations, conditions and covenants thereof and of this mortgage, then this mortgage and the estate hereby created shall cease, determine and be null and void.

AND the mortgagor hereby further covenants and agrees to pay promptly when due the principal and interest and other sums of money provided for in said note and this mortgage, or either; to pay all and singular the taxes, assessments, levies, liabilities, obligations and encumbrances of every nature on said property; to permit, commit or suffer no waste, impairment or deterioration of said land or the improvements thereon at any time; to keep the buildings now or hereafter on said land fully insured in a sum of not less than Full Insurable Value in a company or companies acceptable to the mortgagee, the policy or policies to be held by and payable to said mortgagee and, in the event any sum of money becomes payable by virtue of such insurance, the mortgagee shall have the right to receive and apply the same to the indebtedness hereby secured, accounting to the mortgagor for any surplus; to pay all costs, charges and expenses, including lawyer's fees and title searches, reasonably incurred or paid by the mortgagee because of the failure of the mortgagor to promptly and fully comply with the agreement, stipulations, conditions and covenants of said note and this mortgage, or either; to perform, comply with and abide by each and every one of the agreements, stipulations, conditions and covenants set forth in said note and this mortgage or either. In the event the mortgagor fails to pay when due any tax, assessment, insurance premium or other sum of money payable by virtue of said note and this mortgage, or either, the mortgagee may pay the same, without waiving or affecting the option to

foreclose or any other right hereunder and all such payments shall bear interest from date thereof at the highest lawful rate then allowed by the laws of the State of Florida.

IF any sum of money herein referred to be not promptly paid within thirty (30) days next after the same becomes due, or if each and every one of the agreements, stipulations. conditions and covenants of said note and this mortgage, or either, are not fully performed, complied with and abided by, then the entire sum mentioned in said note and this mortgage, or the entire balance unpaid thereon, shall forthwith or thereafter, at the option of the mortgagee, become and be due and payable, anything in said note or herein to the contrary notwithstanding. Failure by the mortgagee to exercise any of the rights or options herein provided shall not constitute a waiver of any rights or options under said note or this mortgage accrued or thereafter accruing.

IN WITNESS WHEREOF, the Mortgagor has executed and delivered this mortgage the day and year first above written.

Witness

Witness

James M. Conner

Amanda L. Conner

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 20th day of October, 2017, by James M. Conner and Amanda L. Conner, who ___ is , __is not personally know to me, __ produced a valid driver's license as identification and did not take an oath.

NOTARY SEAL:

Notary Signature

Print Name

My Commission Expires:_____

REGINA SIMPKINS
MY COMMISSION # GG059915
EXPIRES January 04, 2021

CR # 10-6871

PERMIT NO. 18-0494
DATE PAID: 6/19/18
FEE PAID: 310.00
RECEIPT #: 1350408

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

APPLICATION FOR:

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

APPLICANT: JAMES CONNER

AGENT: PAUL LLOYD TELEPHONE: (386) 365-0929

MAILING ADDRESS: 164 SW BIRCH GLN LAKE CITY FL 32024

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: 36 BLOCK: N/A SUBDIVISION: HIGH POINT S/D PLATTED: 2007

PROPERTY ID #: 20-3S-16-02202-136 ZONING: RES I/M OR EQUIVALENT: [NO]

PROPERTY SIZE: 5.880 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [NO] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 199 NW SOLSTICE CT. LAKE CITY

DIRECTIONS TO PROPERTY: 90 WEST, TURN RIGHT ON BROWN RD. GO AROUND HARD LEFT HAND CURVE, TURN LEFT ON NW SOLSTICE CT. (JUST PAST BROOK LOOP) SITE ON LEFT.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	HOUSE	3	2,787	Rec'd complete floorplan 7.6.18
2				
3				
4				

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

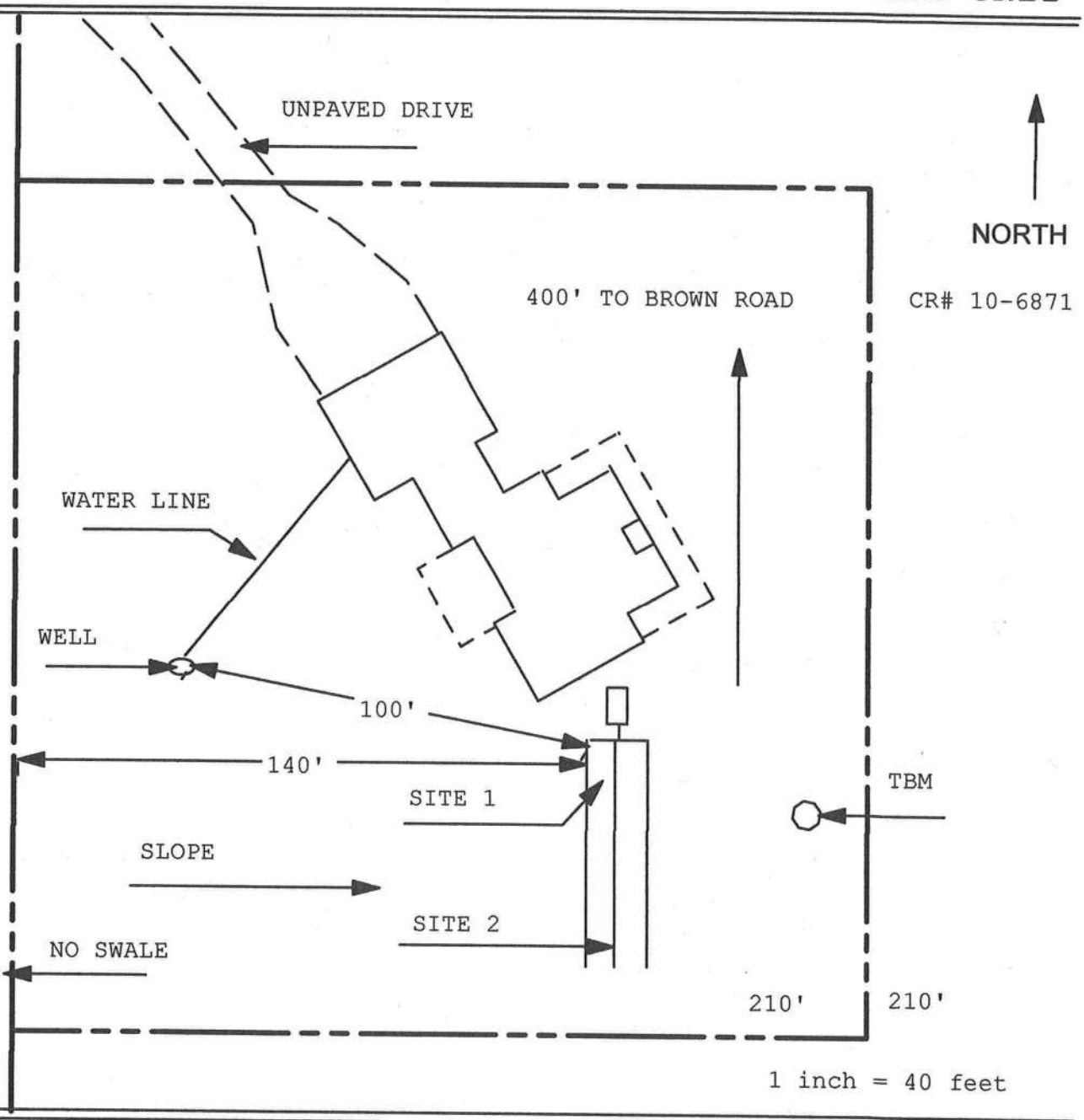
SIGNATURE: Paul Lloyd DATE: 6/16/18

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

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 18-0494

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Ronald L Boyd **Date** 6/16/18

Plan Approved √ **Not Approved** ____ **Date** 6/20/2018

By Sean Brown ESI Columbia **CPHU**

Notes: _____

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1902-36 JOB NAME CONNELL

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.

		Need
ELECTRICAL ☑ CC# 76	Print Name Marc Matthews Signature Company Name: Matthews Electric LLC License #: EC 13005459 Phone #: 386-344-2029	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☑ CC# 327	Print Name Harry Moseley Signature Company Name: Harry's Heating + AC Inc License #: RA0030316 Phone #: 386 752-2308	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☑ CC# 1724	Print Name Ronald Cochran Signature Company Name: Cochran Plumbing Services, LLC License #: CFC1429154 Phone #: (386) 208-8080	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☑ CC# 202	Print Name Robert Fennell Signature Company Name: Robbie's Roofing License #: RC 24027319 Phone #: (386) 755-5137	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

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

PLAT BOOK ____, PAGE ____

PRRD BOOK 1 PG 29

SHEET 2 OF 4

PLANNED RURAL RESIDENTIAL DEVELOPMENT
HIGH POINTE
IN
SECTION 20
TOWNSHIP 03 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA.

OFFICIAL RECORDS BOOK 1127 PAGE 916

LEGAL DESCRIPTION:
PART OF THE WEST 1/2 OF SECTION 20, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR POINT OF REFERENCE COMMENCE AT THE SOUTHEAST CORNER OF SAID WEST 1/2, THENCE RUN NORTH 89°26'44" WEST ALONG THE SOUTH LINE OF SECTION 20, A DISTANCE OF 1.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 89°26'44" WEST ALONG SAID SOUTH LINE, A DISTANCE OF 2734.37 FEET TO THE SOUTHWEST CORNER OF SAID SECTION 20; THENCE RUN NORTH 01°49'04" WEST ALONG THE WEST LINE OF SAID SECTION 20, A DISTANCE OF 2356.30 FEET; THENCE RUN SOUTH 51°13'42" EAST, A DISTANCE OF 339.80 FEET; THENCE RUN NORTH 01°47'58" WEST, A DISTANCE OF 551.97 FEET; THENCE RUN SOUTH 77°23'25" EAST, A DISTANCE OF 1123.32 FEET;THENCE RUN NORTH 13°11'18" EAST, A DISTANCE OF 1111.14 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF BROWN ROAD; THENCE RUN SOUTH 60°24'10" EAST ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 1331.79 FEET TO THE EAST LINE OF SAID WEST 1/2 OF SECTION 20; THENCE RUN SOUTH 01°03'36" EAST ALONG SAID EAST LINE, A DISTANCE OF 309.77 FEET; THENCE RUN NORTH 45°14'53" EAST, A DISTANCE OF 2.87 FEET; THENCE RUN SOUTH 00°40'49" EAST, A DISTANCE OF 905.04 FEET; THENCE RUN SOUTH 01°44'56" EAST, A DISTANCE OF 540.19 FEET; THENCE RUN SOUTH 01°03'36" EAST, A DISTANCE OF 1146.88 FEET TO THE POINT OF BEGINNING.
CONTAINING 180.30 ACRES MORE OR LESS.

STATEMENT OF OBJECTIVES
THE DEVELOPMENT CONTAINS APPROXIMATELY 180.30 ACRES LOCATED ON BROWN ROAD. THE DEVELOPMENT INCLUDES 36 LOTS RANGING IN SIZE FROM APPROXIMATELY 1.67 ACRES TO 23.96 ACRES.

THE DEVELOPMENT ALLOWS ONLY SINGLE FAMILY HOMES AND APPERTINENT STRUCTURES. THERE WILL BE AN ATTRACTIVELY LANDSCAPED ENTRANCE. THE ROADS WILL BE PUBLICLY OWNED AND MAINTAINED BY THE COUNTY.

THE PROPERTY IS BORDERED ON THE NORTH BY BROWN ROAD,RESIDENTIAL LOT; ON THE EAST BY FAIRFIELD BROOK SUBDIVISION AND FAIRFIELD HILLS ; ON THE WEST AGRICULTURAL LAND; ON THE SOUTH BY ARGRICULTURAL LAND. THE EXISTING LAND USE DESIGNATION OF THE PROPERTY IS PLANNED RURAL RESIDENTIAL DEVELOPMENT (PRRD).

1) LAND USE: RESIDENTIAL SINGLE FAMILY WITH ONE RESIDENCE PER LOT.

2) BUILDING SETBACKS: BUILDING SETBACKS SHALL BE AS FOLLOWS:
A. SIDE AND REAR OF PROPERTY LINES – 25 FEET
B. FRONT ALONG STREETS – 30 FEET

3) MAXIMUM HEIGHT OF BUILDINGS: THE MAXIMUM HEIGHT OF BUILDINGS SHALL BE 35 FEET. HEIGHT OF BUILDING IS THE VERTICAL DISTANCE MEASURED FROM THE ESTABLISHED GRADE AT CORNER OF THE FRONT OF THE BUILDING TO THE HIGHEST POINT OF THE ROOF SURFACE OF A FLAT TOP ROOF, TO THE DECK LINE OF A MANSARD OR BERMUDA ROOF, TO THE MEAN HEIGHT LEVEL BETWEEN EAVES AND RIDGE OF GABLE, HIP, CONE, GAMBREL, AND SHED ROOFS, AND TO A HEIGHT THREE– FOURTHS THE DISTANCE FROM THE GROUND TO THE APEX OF A–FRAME AND DOME ROOFS.

4) ARTERIAL STREET: THE ONLY ARTERIAL STREETS INVOLVED IN THIS DEVELOPMENTARE BROWN ROAD AND BROOK LOOP . THE LOCAL ACCESS STREET TO BROWN ROAD IS U.S. HIGHWAY NO. 90.

5) COMMON OUTSIDE STORAGE AREA: THERE WILL BE NO PROVISION MADE FOR COMMON OUTSIDE STORAGE AREAS. EACH LOT IS LARGE ENOUGH THAT THE OWNER CAN PROVIDE HIS OR HER OWN STORAGE AREA.

6) SCREENING, BUFFERING AND LANDSCAPING: SCREENING, BUFFERING AND LANDSCAPE BUFFERED AREAS SHALL BE IN COMPLIANCE WITH CHAPTER 20–A. COLUMBIA COUNTY ZONING REGULATIONS, OR SUCH REGULATIONS IN EFFECT AT THE TIME EACH HOME IS BUILT, WHICHEVER IS LESS RESTRICTIVE.

STATEMENT CONCERNING PROPOSED FLOOR AREA RATIOS
THE MAXIMUM FLOOR AREA SHALL NOT EXCEED 20% AND THE MAXIMUM BUILDING COVERAGE SHALL NOT EXCEED 40% OF THE TOTAL DEVELOPED AREA OF EACH LOT AS SHOWN.

UTILITY SERVICE PLAN
THIS AREA IS NOT SERVED BY A PUBLIC WATER OR SEWER SYSTEM. EACH LOT WILL RECEIVE WATER FROM ITS' OWN PRIVATE WELL AND EACH RESIDENCE WILL HAVE ITS' OWN SEPTIC TANK.

BELL SOUTH/ AT&T AND FLORIDA POWER AND LIGHT COMPANY WILL BE GRANTED EASEMENTS WITHIN THE PROJECT SITE TO CONSTRUCT UTILITY FACILITES, THESE TO BE DETERMINED PRIOR TO FINAL PRRD.

LAND USE
TOTAL LOT ACREAGE (RESIDENTIAL) –172.43 ± ACRES
TOTAL ROAD RIGHT–OF–WAY ACREAGE –7.87 ± ACRES
TOTAL ACREAGE – 180.30± ACRES

BUFFER NOTE
A BUFFER ZONE OF 200 FEET HAS BEEN ESTABLISHED ALONG A PORTION OF THE SUBDIVISION BOUNDARY (AFFECTING LOTS 1–12,17–23 AND 34) IN WHICH NO BUILDING CAN BE PLACE OR CONSTRUCTED.

NOTICE:
THIS PLAT, AS RECORDED IN ITS' GRAPHIC FORM,IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

NOTICE:
ALL PLATTED UTILITY EASEMENTS SHALL PROVIDE THAT SUCH EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION,INSTALLATION, MAINTENANCE AND OPERATION OF CABLE TELEVISION SERVICES PROVIDED. HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION,MAINTENANCE,AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES ANO SERVICES OF ELECTRIC, TELEPHONE, GAS OR OTHER PUBLIC UTILITY. IN THE EVENT THAT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY ,IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

LEGEND AND NOTES:
- □ DENOTES P.R.M. (PERMANENT REFERENCE MONUMENT) SET, 4"x4"x24" CONCRETE MONUMENT,STAMPED L.B. # 7170
- ■ DENOTES P.R.M. (PERMANENT REFERENCE MONUMENT) FOUND, 4"x4" CONCRETE MONUMENT, R.L.S. # 2245
- ⊠ DENOTES P.C.P. (PERMANENT CONTROL POINT) SET, 2"x2" ALUMINUM PLATE, STAMPED L.B. # 7170

1) BEARINGS ARE BASED ON THESOUTH LINE OF SECTION 20. (N89°26'44" W)

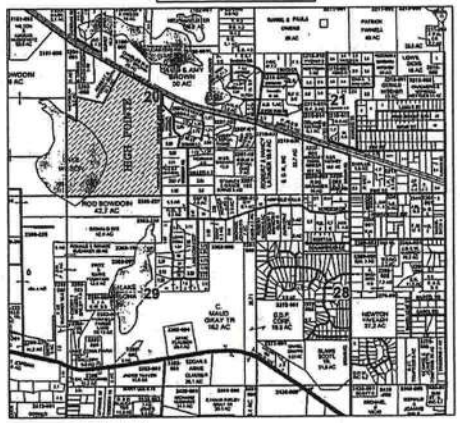
2) FOR SECTION BREAKDOWN, SEE JOB FILE THIS OFFICE.

3) 5/8"x 20" REBAR (WITH CAP STAMPED L.B. # 7170) SET ON ALL LOT CORNERS EXCEPT AS SHOWN.

4) 5/8"x 20" REBAR (WITH CAP STAMPED L.B. # 7170) SET AT INTERSECTION OF ALL LOT LINES AND WETLAND BUFFER LINES.

5) THE PROPERTY AS SURVEYED FALLS WITHIN ZONES "A" AND "X" AS PER THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY PANEL NOS. 120070 0125B AND 0175B. ZONE "A" AFFECTS LOTS 9–11,12 AND 15–21.

VICINITY MAP
NOT TO SCALE



ABBREVIATIONS
CONC. – CONCRETE
IP – IRON PIPE
REB. – REBAR
ST. – STREET
AVE.– AVENUE
NO ID – NO IDENTIFICATION
FD. – FOUND
CM – CONCRETE MONUMENT
± – MORE OR LESS
ORB – OFFICIAL RECORDS BOOK
PG – PAGE(S)
(M) – MEASURED
(P) – PLAT
(D) – DEED
(C) – CALCULATED
(A) – ACTUAL
(R) – RECORD
C.L.I. – CENTERLINE INTERSECTION
RLS – REGISTERED LAND SURVEYOR
O/S – OFFSET
FDOT – FLORIDA DEPARTMENT OF TRANSPORTATION
P.C. – POINT OF CURVATURE
P.T. – POINT OF TANGENCY
P.I. – POINT OF INTERSECTION
P.R.C. – POINT OF REVERSE CURVATURE
P.C.C. – POINT OF COMPOUND CURVATURE
R – RADIUS
R/W – RIGHT–OF–WAY
P.C.P. – PERMANENT CONTROL POINT
P.R.M. – PERMANENT REFERENCE MONUMENT
EP – EDGE OF PAVEMENT
EG – EDGE OF GRADE
C&G – CURB AND GUTTER
ST. MH – STORM MANHOLE
SS. MH – SANITARY SEWER MANHOLE
ELEV. – ELEVATION
B.M. – BENCHMARK
℄ – CENTERLINE

SURVEYOR:
TIMOTHY B. ALCORN
J. SHERMAN FRIER & ASSOCIATES, INC.
130 WEST HOWARD STREET
LIVE OAK, FLORIDA 32064
(386) 362–4629
REG. NO. 6332

CURVE TABLE

CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING	CHORD LENGTH
C1	70°15'47"	230.00'	282.05'	161.84'	S 55°26'57" W	264.71'
C2	27°13'27"	2000.00'	950.30'	484.30'	S 06°41'20" W	941.39'
C3	22°31'47"	2000.00'	786.43'	398.36'	S 04°20'30" W	781.36'
C4	14°45'48"	1000.00'	257.66'	129.54'	N 01°46'39" W	256.94'
C5	62°36'43"	1770.00'	1934.23'	1076.43'	N 18°12'24" W	1839.41'
C6	12°10'19"	1770.00'	376.02'	188.72'	N 06°56'46" E	375.31'
C7	25°19'18"	1770.00'	779.11'	395.97'	S 11°46'58" E	772.83'
C8	70°15'47"	200.00'	245.28'	140.73'	N 55°26'57" E	230.18'
C9	03°09'43"	1970.00'	108.72'	54.37'	N 15°43'12" E	108.71'
C10	07°08'51"	1970.00'	242.32'	121.31'	N 13°36'54" E	242.17'
C11	06°03'53"	1970.00'	216.76'	138.81'	N 06°04'00" E	276.53'
C12	07°36'54"	1970.00'	261.26'	130.82'	N 01°46'28" W	261.06'
C13	01°22'09"	1970.00'	46.99'	23.50'	N 06°14'23" W	46.99'
C14	04°46'30"	2030.00'	170.36'	85.23'	S 04°31'06" E	170.31'
C15	06°10'40"	2030.00'	218.80'	109.54'	S 00°56'27" W	218.77'
C16	06°59'39"	2030.00'	247.81'	124.08'	S 07°33'38" W	247.65'
C17	04°38'26"	2030.00'	161.16'	80.63'	S 13°19'05" W	161.14'
C18	46°11'23"	30.00'	24.23'	13.42'	N 06°29'16" W	24.49'
C19	60°00'00"	60.00'	62.83'	34.64'	S 02°36'00" E	60.00'
C20	96°58'22"	60.00'	101.03'	67.19'	S 76°39'12" W	89.51'
C21	60°00'00"	60.00'	62.83'	34.64'	N 28°06'37" W	60.00'
C22	59°54'54"	60.00'	62.73'	34.59'	N 33°50'34" E	59.92'
C23	46°11'23"	30.00'	24.23'	13.42'	S 39°42'05" W	24.49'
C24	10°10'38"	970.00'	172.30'	86.36'	S 79°28'56" E	172.07'
C25	04°35'07"	970.00'	77.83'	38.83'	S 86°51'48" E	77.80'
C26	08°07'35"	1600.00'	226.30'	127.00'	N 06°49'01" W	205.08'
C27	47°07'51"	30.00'	24.68'	13.09'	N 12°41'08" W	23.99'
C28	59°00'29"	60.00'	61.80'	33.99'	S 06°43'17" W	59.14'
C29	129°01'48"	60.00'	135.12'	125.55'	S 67°19'21" W	106.32'
C30	88°16'23"	60.00'	92.44'	58.22'	N 15°56'26" E	83.56'
C31	49°15'14"	30.00'	25.82'	13.77'	S 36°27'31" W	25.03'
C32	24°09'02"	1740.00'	733.29'	370.09'	S 01°12'02" E	723.96'
C33	18°03'24"	1740.00'	548.36'	276.47'	S 22°14'10" E	546.09'
C34	16°07'20"	1740.00'	489.61'	246.43'	S 39°19'32" E	488.00'
C35	49°18'14"	30.00'	25.82'	13.77'	S 72°02'19" E	25.03'
C36	82°24'41"	60.00'	86.30'	52.54'	N 56°29'05" W	79.05'
C37	117°08'51"	60.00'	122.68'	98.19'	N 44°17'40" E	102.40'
C38	76°48'07"	60.00'	80.42'	47.56'	S 35°43'50" E	74.54'
C39	47°07'51"	30.00'	24.68'	13.09'	N 23°53'42" W	23.99'
C40	12°30'32"	1800.00'	392.89'	197.23'	S 41°12'26" E	392.11'
C41	09°52'07"	1800.00'	310.03'	155.40'	S 30°01'12" E	309.65'
C42	08°25'42"	1800.00'	201.95'	101.08'	S 21°52'17" E	201.84'
C43	08°19'34"	1800.00'	198.74'	99.47'	S 13°22'39" E	198.64'
C44	06°35'03"	1800.00'	206.85'	103.54'	S 09°02'20" E	206.74'
C45	04°40'51"	1800.00'	147.06'	73.57'	S 03°24'53" E	147.01'
C46	14°45'45"	1030.00'	265.35'	133.43'	S 81°46'29" E	264.65'
C47	12°33'48"	1970.00'	431.96'	216.85'	S 07°34'47" W	431.10'
C48	05°37'27"	1970.00'	193.38'	96.77'	S 01°30'50" E	193.30'
C49	02°35'50"	1970.00'	89.30'	44.66'	S 05°37'28" E	89.29'
C50	03°44'13"	2030.00'	132.41'	66.23'	N 00°03'17" E	132.39'
C51	09°24'22"	2030.00'	333.26'	167.00'	N 01°31'01" E	332.89'
C52	04°31'02"	2030.00'	160.04'	80.06'	N 06°28'43" E	160.00'
C53	09°33'50"	2030.00'	338.65'	169.82'	N 15°31'08" E	338.46'
C54	63°00'53"	280.00'	205.95'	159.37'	N 51°45'30" E	271.76'
C55	07°14'54"	260.00'	32.89'	16.47'	N 86°56'23" E	32.87'
C56	25°13'12"	1770.00'	779.11'	396.97'	S 38°59'10" E	772.83'

LINE TABLE

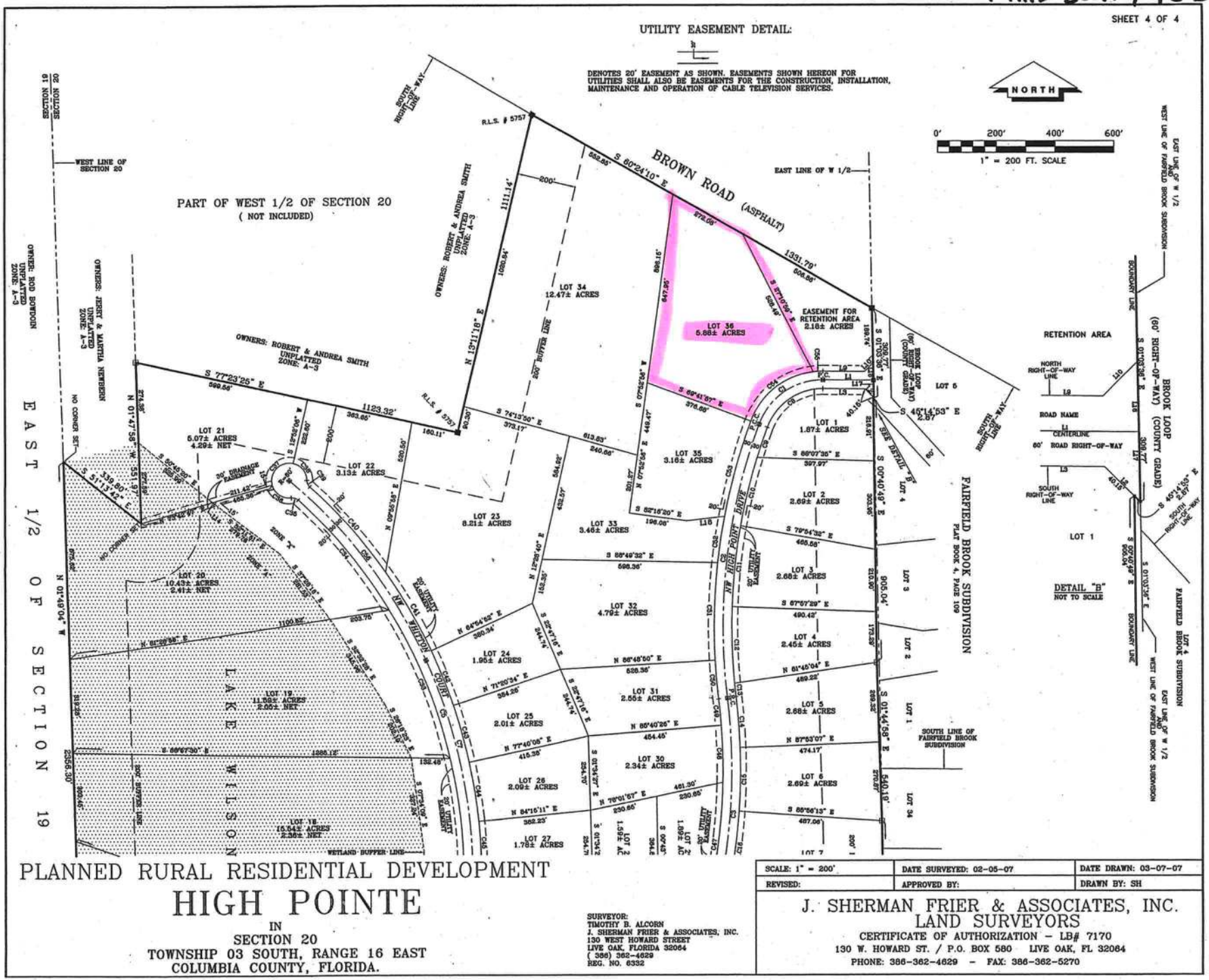
LINE	BEARING	DISTANCE
L1	N 89°26'09" W	171.39'
L2	N 45°14'53" W	43.02'
L3	N 89°26'09" W	142.24'
L4	S 15°36'53" W	56.07'
L5	N 29°23'37" W	42.43'
L6	N 74°23'37" W	53.09'
L7	S 46°33'37" W	42.95'
L8	N 59°07'07" E	41.94'
L9	S 89°26'09" E	140.64'
L10	N 44°45'07" E	41.66'
L11	S 44°02'20" E	42.95'
L12	S 01°03'36" E	58.72'
L13	S 01°03'36" E	61.49'
L14	S 50°45'20" E	9.44'
L15	N 89°09'14" E	141.00'
L16	S 01°03'36" E	80.01'
L17	S 01°03'36" E	80.01'
L18	N 53°39'57" E	130.87'

SCALE: 1" = 200'	DATE SURVEYED: 02–05–07	DATE DRAWN: 03–07–07
REVISED:	APPROVED BY:	DRAWN BY: SH

J. SHERMAN FRIER & ASSOCIATES, INC.
LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION – LB# 7170
130 W. HOWARD ST. / P.O. BOX 580 LIVE OAK, FL 32064
PHONE: 386–362–4629 – FAX: 386–362–5270

PRRD BOOK 1 PG 31

SHEET 4 OF 4



OFFICIAL RECORDS BOOK 1127 PAGE 916

PLANNED RURAL RESIDENTIAL DEVELOPMENT

HIGH POINTE

IN

SECTION 20

TOWNSHIP 03 SOUTH, RANGE 16 EAST

COLUMBIA COUNTY, FLORIDA.

SURVEYOR:
TIMOTHY B. ALCORN
J. SHERMAN FRIER & ASSOCIATES, INC.
130 WEST HOWARD STREET
LIVE OAK, FLORIDA 32064
(386) 362-4629
REG. NO. 6332

SCALE: 1" = 200'	DATE SURVEYED: 02-05-07	DATE DRAWN: 03-07-07
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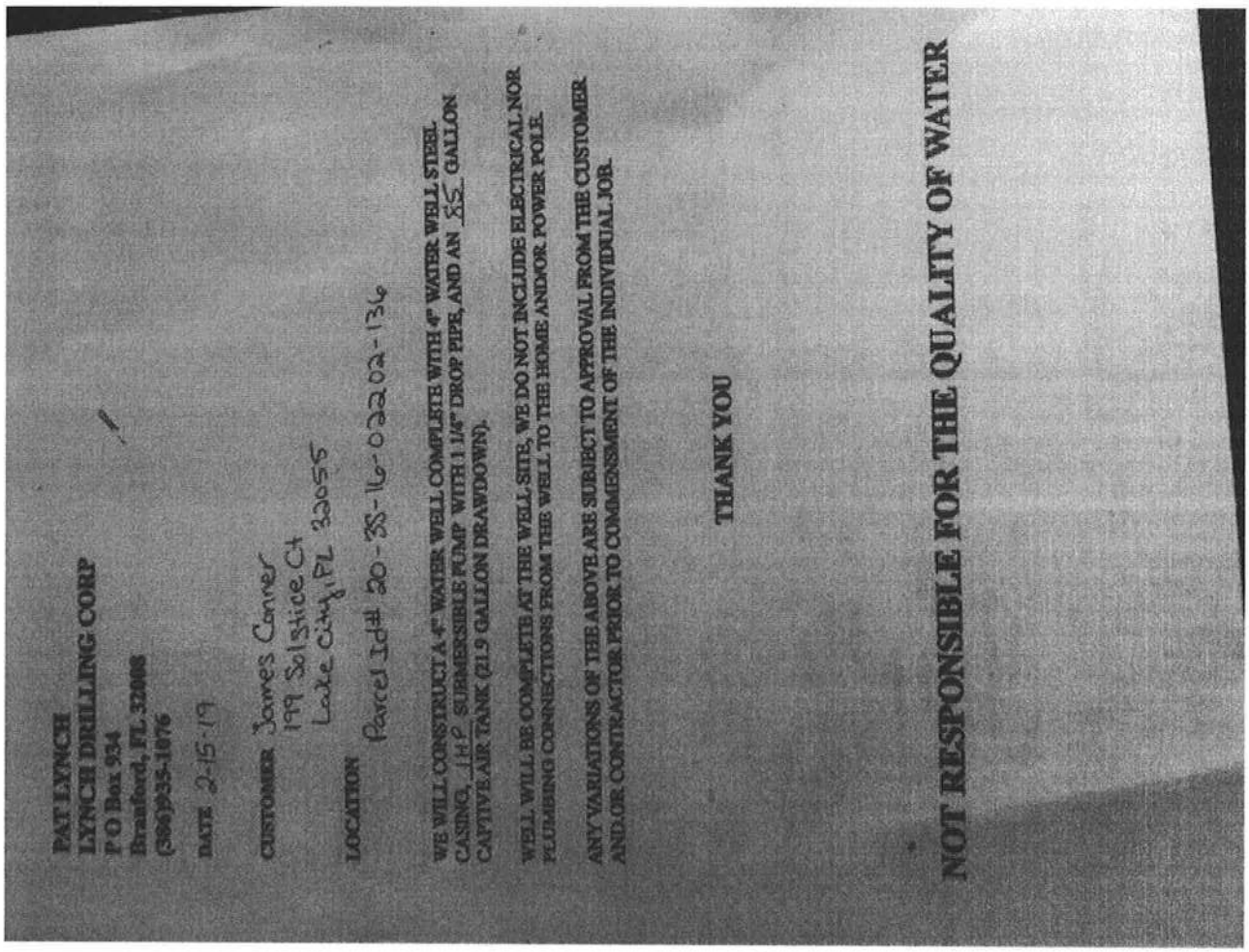
J. SHERMAN FRIER & ASSOCIATES, INC.
LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION - LB# 7170
130 W. HOWARD ST. / P.O. BOX 580 LIVE OAK, FL 32064
PHONE: 386-362-4629 - FAX: 386-362-5270

Janice Williams

From: bucky nash <bnash2488@gmail.com>
Sent: Tuesday, March 05, 2019 10:43 AM
To: Janice Williams
Subject: Re: Letter for well

well letter for James Connor

On Fri, Feb 15, 2019 at 3:35 PM James Conner <James.Conner@nutrien.com> wrote:



Bucky, attached is letter for well to go to county. Thank you

Get Outlook for Android

37824

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Inst: 201912005677 Date: 03/11/2019 Time: 9:05AM
Page 1 of 2 B: 1379 P: 2558, P.DeWitt Cason, Clerk of Court
Columbia, County, By: KV
Deputy Clerk

Tax Parcel Identification Number:

20-3S-16-02202-136

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

a) Description of property *(legal description)*: LOT 36 HIGH POINT FARMS
b) Street *(job)* Address: 199 SW SOLSTICE CT.

2. General description of improvements: CONSTRUCTION OF NEW RESIDENCE

3. Owner Information or lessee information if the lessee contracted for the improvements:
a) Name and address: JAMES M. & AMANDA CONNER 164 SW Birch Glen Lake City FL 32024
b) Name and address of fee simple titleholder (if other than owner) N/A
c) Interest in property

4. Contractor Information
a) Name and address: COLUMBIA CONSTRUCTION & MAINTENANCE, INC. 406 SW THERESA CT. LAKE CITY FL. 32025
b) Telephone No.: 386-867-5697

5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address: N/A
b) Amount of Bond:
c) Telephone No.:

6. Lender
a) Name and address N/A
b) Phone No.

7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
a) Name and address: N/A
b) Telephone No.:

8. In addition to himself or herself, Owner designates the following person to receive a copy of the lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
a) Name: N/A OF
b) Telephone No.:

9. Expiration date of Notice of Commencement (the expiration date will be 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 I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. James M Conner
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office Director Partner Manager

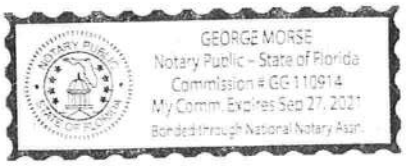
James M Conner Owner
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 11 day of March 2019 by:

James Conner as Owner for
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known ____ OR Produced Identification ✓ Type FL DL

Notary Signature _____ Notary Stamp or Seal:



Revised copy

37829-

This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE AN ITW COMPANY

#0-278
03/04/2019

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

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

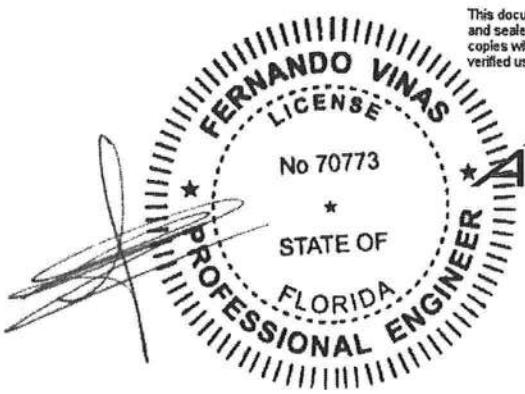
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 18-2701D
Job Description: /CONNER RESIDENCE /COLUMBIA CONST.	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC2017RES	*View Version:* 18.02.00.1126.20 *JRef #:* 1WJ12150001
Wind Standard: ASCE 7-10 *Wind Speed (mph):* 130.000000	*Roof Load (pdf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 47 truss drawing(s) and 5 detail(s).

Item	Seal #	Truss
1	060.19.0742.26101	A01
3	060.19.0742.26193	A03
5	060.19.0742.26397	A05
7	060.19.0742.25897	A07
9	060.19.0742.26053	A09
11	060.19.0742.25913	A11
13	060.19.0742.26537	C01
15	060.19.0742.25850	D01
17	060.19.0742.26037	D03
19	060.19.0742.25943	FT2
21	060.19.0742.26165	FT4
23	060.19.0742.26208	G02
25	060.19.0742.25682	H02
27	060.19.0742.25896	H04
29	060.19.0742.26442	H06
31	063.19.1200.32063	H21

Item	Seal #	Truss
2	060.19.0742.26069	A02
4	060.19.0742.25681	A04
6	060.19.0742.26754	A06
8	060.19.0742.26163	A08
10	060.19.0742.25711	A10
12	060.19.0742.26521	B01
14	060.19.0742.26271	C02
16	060.19.0742.25944	D02
18	060.19.0742.25959	FT1
20	060.19.0742.26287	FT3
22	060.19.0742.26007	G01
24	060.19.0742.26490	H01
26	060.19.0742.26614	H03
28	060.19.0742.25710	H05
30	060.19.0742.26536	H07
32	060.19.0742.26538	H31



This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

ALPINE™
AN ITW COMPANY

#0-278
03/04/2019

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

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 18-2701D
Job Description: /CONNER RESIDENCE /COLUMBIA CONST.	
Address: FL	

Item	Seal #	Truss
33	060.19.0742.26568	K01
35	060.19.0742.25680	M01
37	060.19.0742.26381	M03
39	060.19.0742.26100	M05
41	060.19.0742.26661	P02
43	060.19.0742.26427	P05
45	060.19.0742.26164	P07
47	060.19.0742.26333	V01

Item	Seal #	Truss
34	063.19.1200.00537	L01
36	060.19.0742.26318	M02
38	060.19.0742.25725	M04
40	060.19.0742.26817	P01
42	060.19.0742.26241	P04
44	060.19.0742.26708	P06
46	060.19.0742.25683	P08

General Notes

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

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

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

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

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

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

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

General Notes (continued)

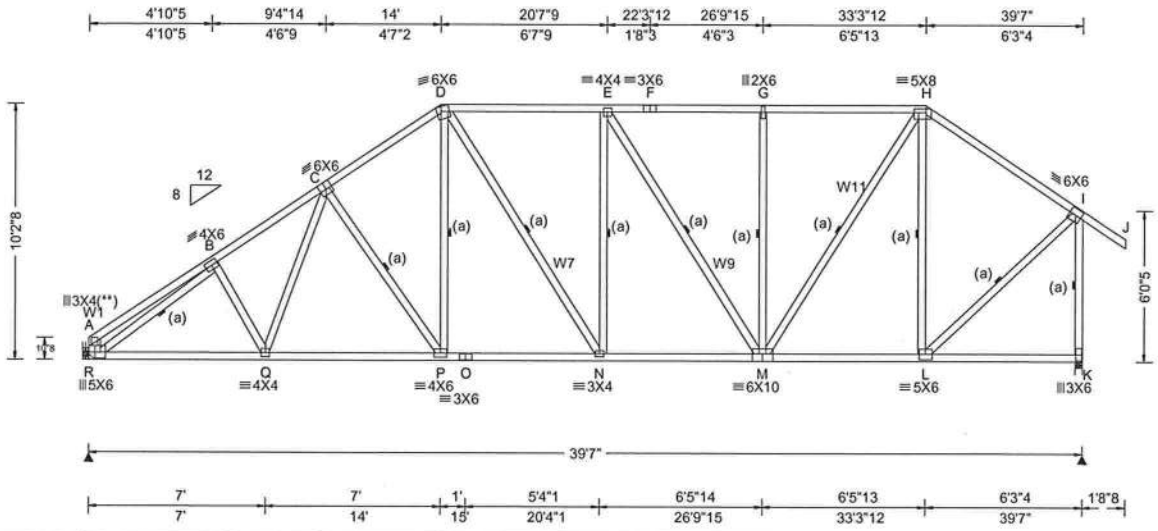
Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written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

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

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

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

SEQN: 609652 / COMN	Ply: 1	Job Number: 18-2701D	Cust: R R215 JRef: 1WJ12150001 T3 /
FROM: CDM	Qty: 4	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26101
		Truss Label: A01	KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.96 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.125	N	999	240
VERT(CL): 0.227	N	999	180
HORZ(LL): 0.056	L	-	-
HORZ(TL): 0.102	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.493
Max BC CSI: 0.894
Max Web CSI: 0.590

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	1925	/-	/-	/1006	/270	/261
K	2066	/-	/-	/971	/323	/-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
K Brg Width = 3.5 Min Req = 2.4
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.
A - B	185	-478	E - F	629	-1778
B - C	764	-2720	F - G	629	-1778
C - D	721	-2333	G - H	629	-1779
D - E	695	-2046	H - I	463	-1416

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2228	-660	O - N	1876	-444
Q - P	2104	-564	N - M	2046	-493
P - O	1876	-444	M - L	1093	-239

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	544	-2415	M - H	1251	-334
C - P	211	-404	H - L	241	-750
D - P	622	-154	L - I	1478	-323
E - M	134	-505	I - K	613	-2025
G - M	191	-394			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W7, W9, W11 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

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.

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 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

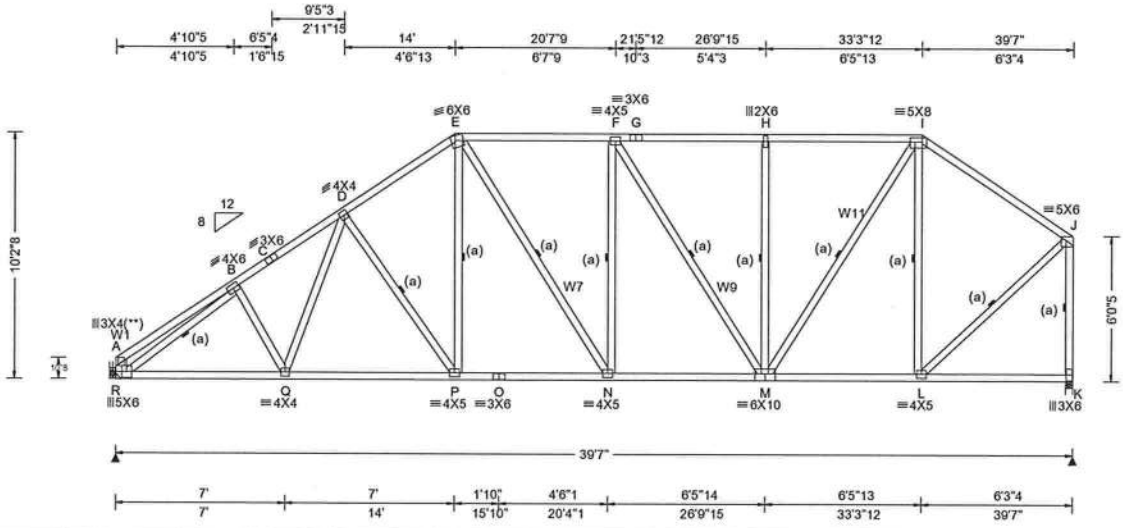
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 609655 / COMN	Ply: 1	Job Number: 18-2701D	Cust: R R215 JRef: 1WJ12150001 T1 /
FROM: CDM	Qty: 2	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26069
		Truss Label: A02	KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.96 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.125	N	999	240
VERT(CL): 0.227	N	999	180
HORZ(LL): 0.056	L	-	-
HORZ(TL): 0.103	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.900
Max Web CSI: 0.591

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	1927	/-	/-	/1009	/266	/220
K	1946	/-	/-	/871	/298	/-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
K Brg Width = 3.5 Min Req = 2.3
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.
A - B	184	-478	F - G	606	-1785
B - C	732	-2724	G - H	606	-1785
C - D	751	-2665	H - I	606	-1785
D - E	707	-2338	I - J	421	-1418
E - F	678	-2051			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2231	-697	O - N	1880	-480
Q - P	2108	-600	N - M	2051	-526
P - O	1880	-480	M - L	1104	-267

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	531	-2419	M - I	1243	-337
D - P	212	-405	I - L	266	-759
E - P	623	-155	L - J	1492	-361
F - M	140	-503	J - K	526	-1905
H - M	185	-388			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W7, W9, W11 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

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.

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 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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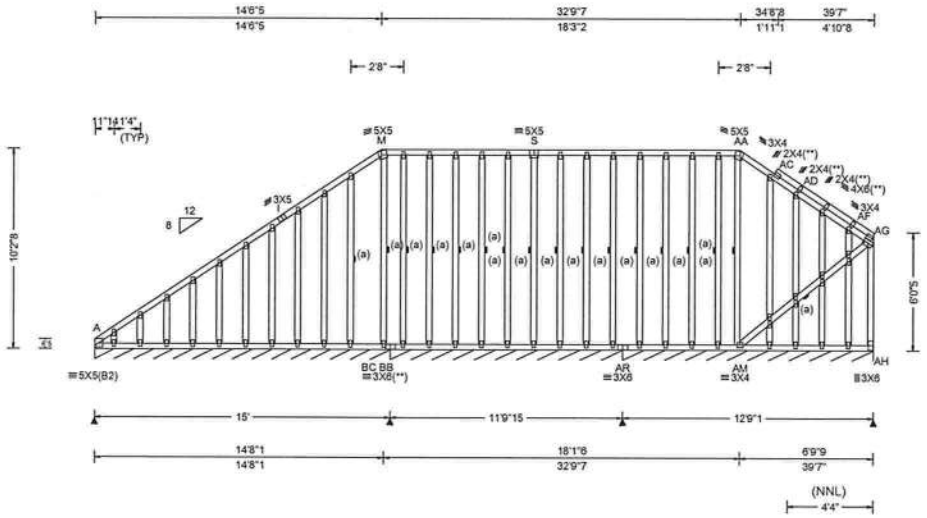
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609650 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A03	Cust: R R215 JRef: 1WJ12150001 T38 / DrwNo: 060.19.0742.26193 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.96 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	AC	999	240
VERT(CL): 0.002	AC	999	180
HORZ(LL): -0.004	H	-	-
HORZ(TL): 0.006	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.056
Max BC CSI: 0.075
Max Web CSI: 0.118

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A*	84	/-	/-	/61	/14	/15
BB*	85	/-	/-	/41	/15	/-
AR*	83	/-	/-	/51	/14	/-

Wind reactions based on MWFRS
A Brg Width = 180 Min Req = -
BB Brg Width = 141 Min Req = -
AR Brg Width = 153 Min Req = -
Bearings A, BB, & AR 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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

(**) 5 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

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

The overall height of this truss excluding overhang is 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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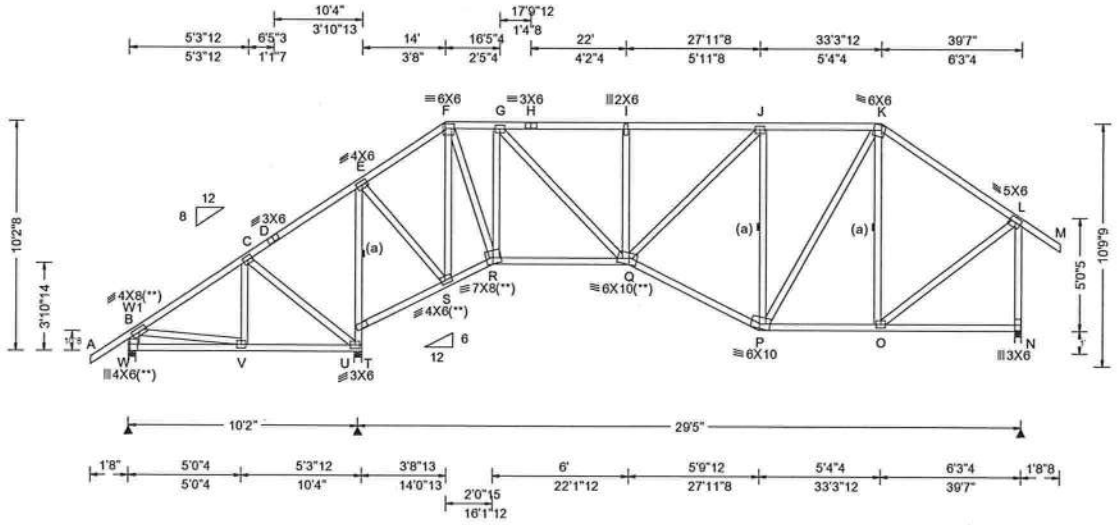
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609660 / COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A04	Cust: R R215 JRef: 1WJ12150001 T41 / DrwNo: 060.19.0742.25681 KD / FV 03/01/2019



Loading Criteria (psf)

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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.067	I	999	240
VERT(CL): 0.141	I	999	180
HORZ(LL): 0.024	O	-	-
HORZ(TL): 0.050	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.362
Max Web CSI: 0.899

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
W	407	/-	/-	/-	/-	/-
U	1825	/-	/-	/-	/-	/-
N	1309	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
W Brg Width = 3.5 Min Req = 1.5
U Brg Width = 4.0 Min Req = 2.2
N Brg Width = 3.5 Min Req = 1.5
Bearings W, U, & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	0	-670	I - J	0	-1415
F - G	0	-880	J - K	0	-962
G - H	0	-1425	K - L	0	-933
H - I	0	-1425			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	545	0	Q - P	1105	0
R - Q	918	0	P - O	692	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - U	0	-396	I - Q	0	-389
U - T	0	-1537	Q - J	652	0
T - E	0	-1437	J - P	0	-815
E - S	935	0	P - K	522	0
F - S	0	-932	K - O	0	-387
F - R	1182	0	O - L	866	0
R - G	0	-800	L - N	0	-1258
G - Q	735	0			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 4X5 except as noted.

(**) 5 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 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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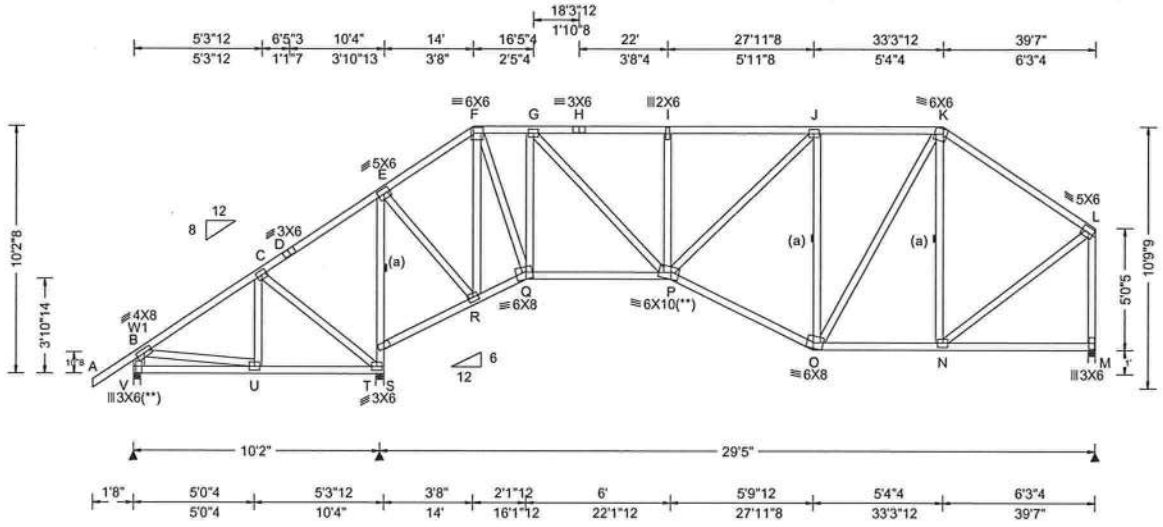
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609662 / COMN	Ply: 1	**Job Number:** 18-2701D	Cust: R R215 JRef: 1WJ12150001 T37 /
FROM: CDM	Qty: 4	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26397
		Truss Label: A05	KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.067	I	999	240
VERT(CL): 0.141	I	999	180
HORZ(LL): 0.024	N	-	-
HORZ(TL): 0.051	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.658
Max BC CSI: 0.363
Max Web CSI: 0.901

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	407	/-	/-	/-	/-	/-
T	1827	/-	/-	/-	/-	/-
M	1212	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
V Brg Width = 3.5 Min Req = 1.5
T Brg Width = 4.0 Min Req = 2.2
M Brg Width = 3.5 Min Req = 1.5
Bearings V, T, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	0	-672	I - J	0	-1420
F - G	0	-882	J - K	0	-966
G - H	0	-1430	K - L	0	-935
H - I	0	-1430			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	547	0	P - O	1109	0
Q - P	921	0	O - N	700	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	0	-396	I - P	0	-390
T - S	0	-1539	P - J	653	0
S - E	0	-1440	J - O	0	-811
E - R	937	0	O - K	515	0
F - R	0	-934	K - N	0	-393
F - Q	1185	0	N - L	875	0
Q - G	0	-803	L - M	0	-1161
G - P	738	0			

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:

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

Plating Notes
All plates are 4X5 except as noted.
(**) 2 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 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/04/2019

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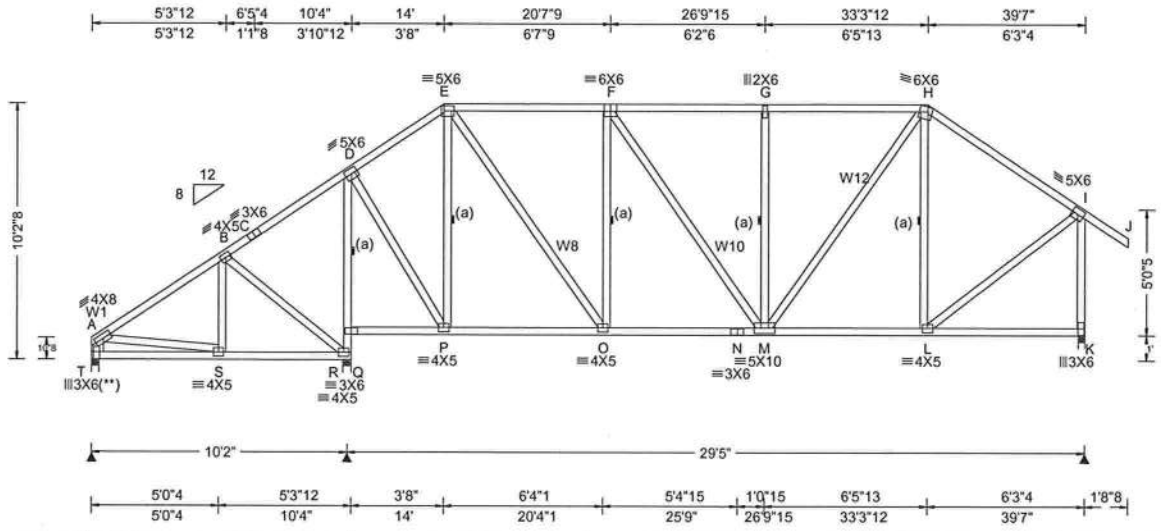
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609664 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A06	Cust: R R215 JRef: 1WJ12150001 T2 / DrwNo: 060.19.0742.26754 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	G	999	240
VERT(CL): 0.091	G	999	180
HORZ(LL): 0.012	L	-	-
HORZ(TL): 0.025	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.630
Max BC CSI: 0.376
Max Web CSI: 0.560

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity /R-	Non-Gravity /Rh	Non-Gravity /Rw	Non-Gravity /U	Non-Gravity /RL
T	385	/-	/-	/-	/-	/-
R	1713	/-	/-	/-	/-	/-
K	1229	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
R Brg Width = 4.0 Min Req = 2.0
K Brg Width = 3.0 Min Req = 1.5
Bearings T, R, & 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.
A - B	0	-408	F - G	0	-1020
D - E	0	-618	G - H	0	-1020
E - F	0	-934	H - I	0	-952

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	463	0	N - M	951	0
O - N	951	0	M - L	716	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	0	-403	O - F	0	-528
R - Q	0	-1414	G - M	0	-391
Q - D	0	-1385	M - H	515	0
D - P	921	0	H - L	0	-393
E - P	0	-683	L - I	896	0
E - O	811	0	I - K	0	-1179

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W8, W10, W12 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

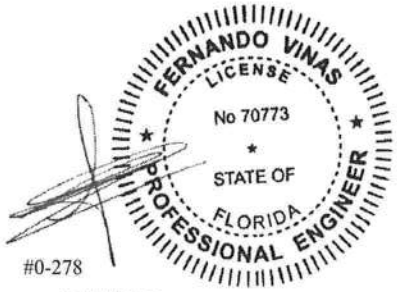
Plating Notes

(**) 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 10-2-8.



#0-278

03/04/2019

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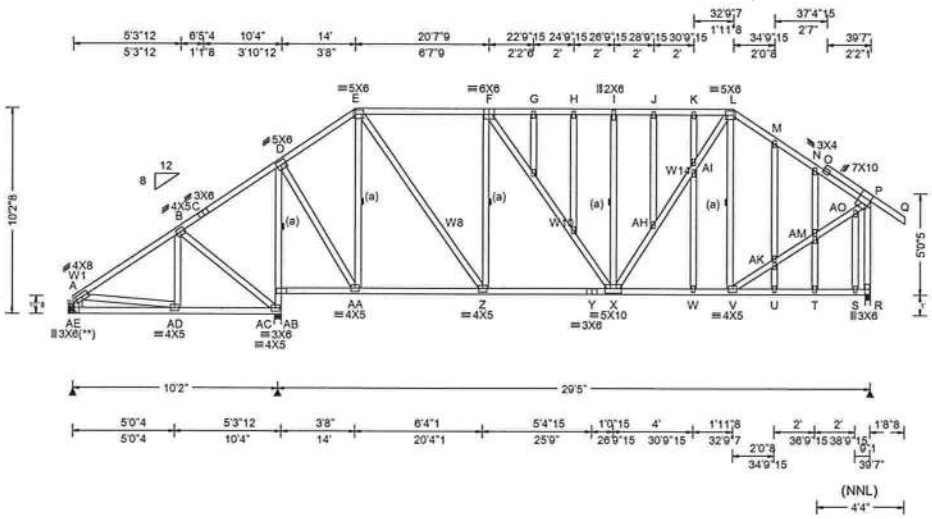
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609668 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A07	Cust: R R215 JRef: 1WJ12150001 T6 / DrwNo: 060.19.0742.25897 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.076	T	999	240
VERT(CL): 0.159	T	999	180
HORZ(LL): -0.040	O	-	-
HORZ(TL): 0.083	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.476
Max BC CSI: 0.669
Max Web CSI: 0.947

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AE	384	/-	/-	/-	/-	/-
AC	1714	/-	/-	/-	/-	/-
R	1229	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
AE Brg Width = - Min Req = -
AC Brg Width = 4.0 Min Req = 2.0
R Brg Width = 3.0 Min Req = 1.5
Bearings AC & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-407	J - K	0	-1012
D - E	0	-617	K - L	0	-1013
E - F	0	-934	L - M	0	-904
F - G	0	-1012	M - N	0	-914
G - H	0	-1012	N - O	0	-882
H - I	0	-1013	O - P	0	-972
I - J	0	-1013			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	463	0	X - W	757	0
Z - Y	951	0	W - V	757	0
Y - X	951	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AC	0	-403	AH-AI	470	0
AC-AB	0	-1414	AI- L	458	0
AB- D	0	-1386	V -AK	892	0
D -AA	921	0	AK-AM	894	0
E -AA	0	-683	AM-AO	946	0
E - Z	811	0	AO- P	918	0
Z - F	0	-529	P - R	0	-1119
X -AH	449	0			

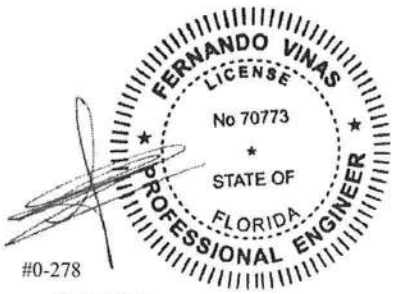
Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W8, W10, W14 2x4 SP #2:

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

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.

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 10-2-8.



#0-278

03/04/2019

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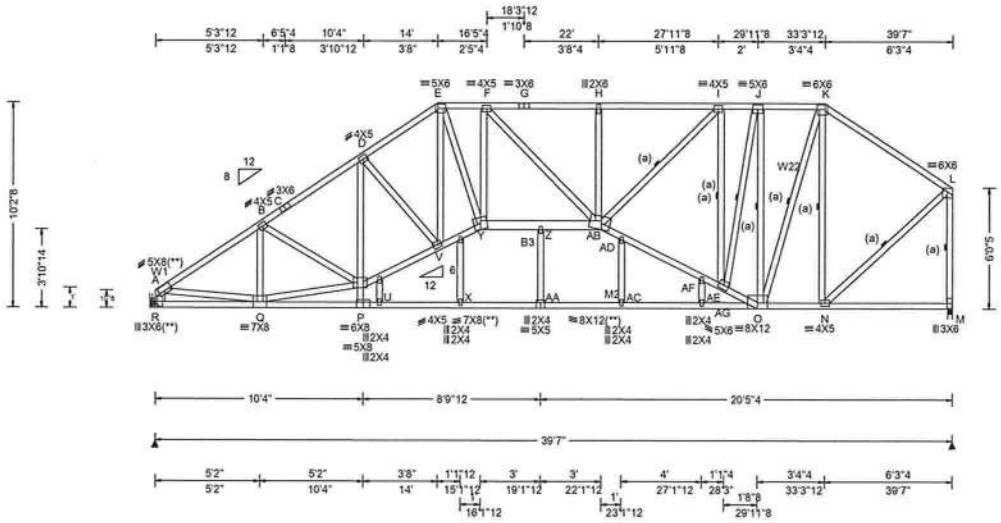
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609879 / COMN	Ply: 1	Job Number: 18-2701D	Cust: R R215 JRef: 1WJ12150001 T25 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26163
		Truss Label: A08	KD / FV 03/01/2019



Loading Criteria (psf)

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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 3.96 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.194	O	999	240
VERT(CL): 0.407	O	999	180
HORZ(LL): 0.041	N	-	-
HORZ(TL): 0.086	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.893
Max BC CSI: 0.747
Max Web CSI: 0.816

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	2041	/-	/-	/-	/340	/-
M	2046	/-	/-	/-	/336	/-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
M Brg Width = 3.0 Min Req = 2.4
Bearing M 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	509	-2969	G - H	365	-2368
B - C	479	-2814	H - I	361	-2358
C - D	462	-2771	I - J	279	-1786
D - E	413	-2492	J - K	254	-1596
E - F	348	-2225	K - L	262	-1486
F - G	365	-2368			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	2189	-360	O - N	1158	-187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - R	361	-1985	AC-AD	397	0
A - Q	2143	-348	AC-AE	2198	-362
P - U	2200	-362	AD-AF	86	-478
D - V	77	-392	AE- O	2197	-364
U - X	2201	-362	AF-AG	69	-489
E - V	591	-68	I -AG	205	-875
E - Y	626	-90	AG- J	993	-128
X -AA	2206	-361	AG- O	131	-636
Y - F	118	-385	J - O	139	-1005
Z -AA	380	0	O - K	1361	-208
AA-AC	2206	-361	K - N	234	-929
H -AB	157	-396	N - L	1565	-253
AB- I	787	-111	L - M	362	-1995

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2 :B3 2x6 SP #2:
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W22 2x4 SP #2:
Filler 2x4 SP #2 :M2 2x4 SP 2400f-2.0E:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	64 plf at	0.00 to	64 plf at	39.58
BC: From	20 plf at	0.00 to	20 plf at	10.33
BC: From	22 plf at	10.33 to	22 plf at	16.15
BC: From	20 plf at	16.15 to	20 plf at	22.15
BC: From	22 plf at	22.15 to	22 plf at	29.96
BC: From	20 plf at	29.96 to	20 plf at	39.58

BC: 247 lb Conc. Load at 16.58
BC: 481 lb Conc. Load at 21.58

Plating Notes

(**) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

Laterally brace BC at 24" oc in lieu of rigid ceiling.
Laterally brace BC above filler at 24" oc.

Wind

Wind loads and reactions based on MWFRS.

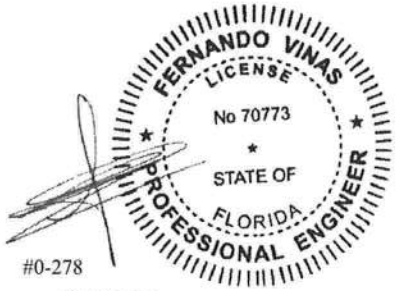
Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-2-8.

Note: Laterally brace bottom chord above filler at 2'0" O.C. Max. including a lateral brace at chord ends.



#0-278

03/04/2019

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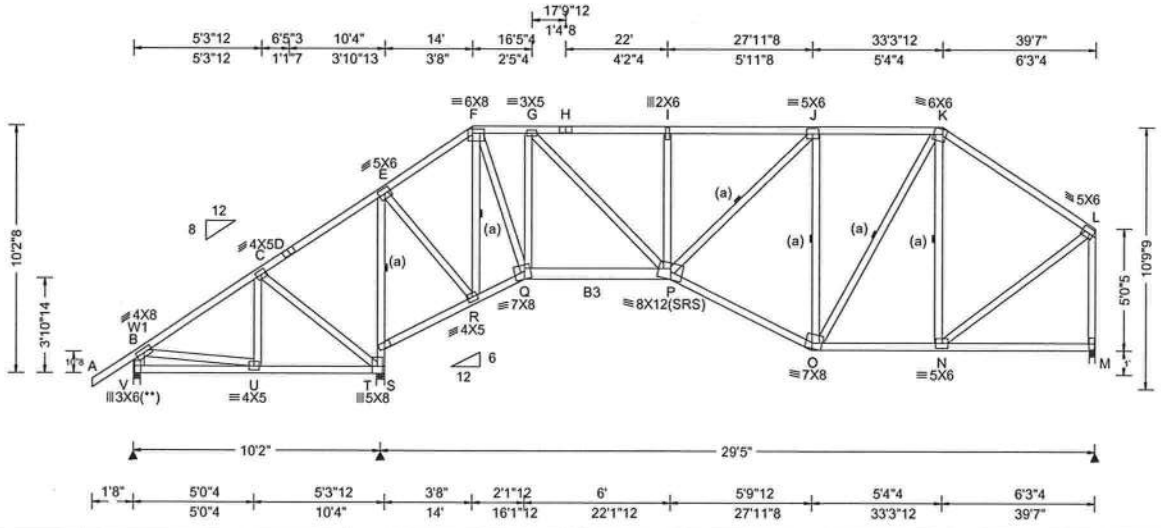
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609881 / COMN	Ply: 1	**Job Number:** 18-2701D	Cust: R R215 JRef:1WJ12150001 T36 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26053
		Truss Label: A09	KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 3.96 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.100	I	999	240
VERT(CL): 0.209	I	999	180
HORZ(LL): 0.036	N	-	-
HORZ(TL): 0.076	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.818
Max BC CSI: 0.591
Max Web CSI: 0.812

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	363	/-	/-	/-	/87	/-
T	2441	/-	/-	/-	/388	/-
M	1477	/-	/-	/-	/238	/-

Wind reactions based on MWFRS
V Brg Width = 3.5 Min Req = 1.5
T Brg Width = 4.0 Min Req = 2.9
M Brg Width = 3.0 Min Req = 1.7
Bearings V, T, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	162	-988	I - J	311	-2212
F - G	205	-1402	J - K	199	-1311
G - H	315	-2222	K - L	204	-1160
H - I	315	-2222			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	846	-125	P - O	1503	-236
Q - P	1454	-215	O - N	888	-139

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	70	-403	I - P	155	-390
T - S	364	-2152	P - J	1291	-160
S - E	369	-2027	J - O	251	-1265
E - R	1420	-206	O - K	821	-116
F - R	258	-1481	K - N	172	-532
F - Q	1949	-290	N - L	1110	-174
Q - G	211	-1064	L - M	264	-1426
G - P	1110	-144			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2 :B3 2x6 SP #2:
Webs 2x4 SP #3 :W1 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	64 plf at	-1.33 to	64 plf at	39.58
BC: From	5 plf at	-1.33 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	10.33
BC: From	22 plf at	10.33 to	22 plf at	16.15
BC: From	20 plf at	16.15 to	20 plf at	22.15
BC: From	22 plf at	22.15 to	22 plf at	27.96
BC: From	20 plf at	27.96 to	20 plf at	39.58

BC: 273 lb Conc. Load at 16.58
BC: 563 lb Conc. Load at 21.58

Plating Notes

All plates are 3X6 except as noted.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

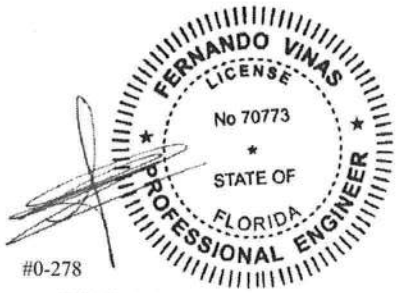
Wind loads and reactions based on MWFRS.

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 10-2-8.



#0-278

03/04/2019

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

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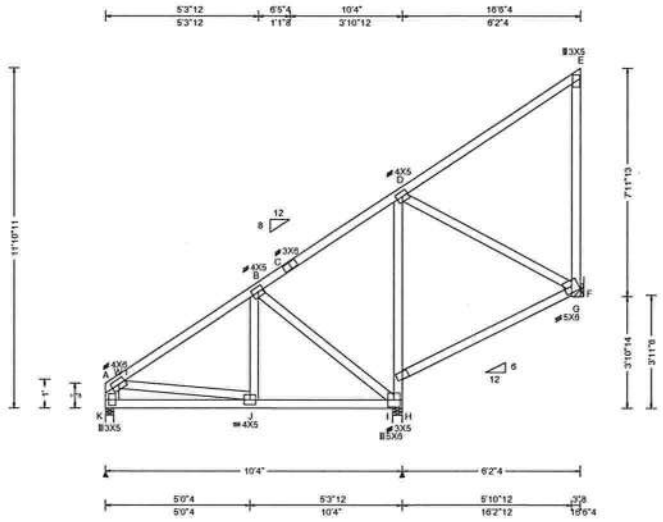
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609869 / MONO	Ply: 1	Job Number: 18-2701D	Cust: R R215 JRef: 1WJ12150001 T12 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.25711
		Truss Label: A10	KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.38 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	J	999	240
VERT(CL): 0.009	J	999	180
HORZ(LL): -0.005	I	-	-
HORZ(TL): 0.007	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.594
Max BC CSI: 0.439
Max Web CSI: 0.308

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	395	/-	/-	/236	/-	/230
I	787	/-	/-	/622	/127	/-
F	239	/-	/-	/155	/30	/-

Wind reactions based on MWFRS
K Brg Width = 3.5 Min Req = 1.5
I Brg Width = 4.0 Min Req = 1.5
F Brg Width = - Min Req = -
Bearings K & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	0	-422

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
K - J	210	-406

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - I	163	-393	H - D	215	-436
I - H	191	-511			

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:

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
Shim all supports to solid bearing.
The overall height of this truss excluding overhang is 11-10-11.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
#0-278

03/04/2019

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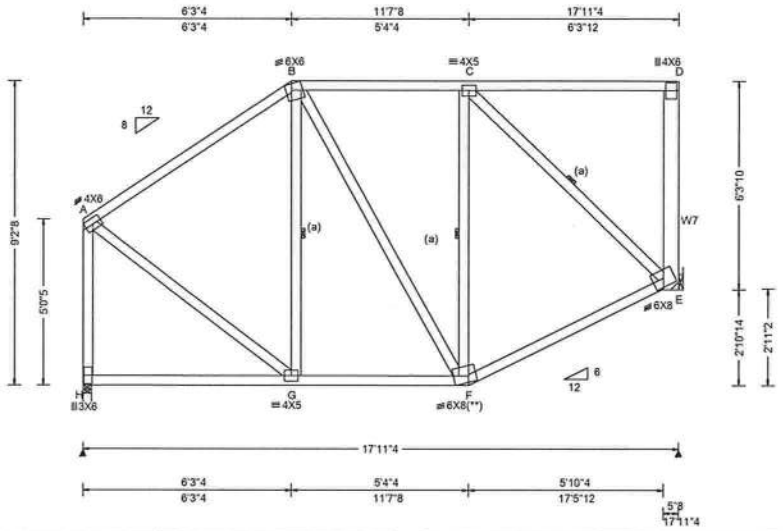
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609678 / COMN	Ply: 1	**Job Number:** 18-2701D	Cust: R R215 JRef: 1WJ12150001 T49 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.25913
		Truss Label: A11	KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.008	B	999	240
VERT(CL): 0.017	B	999	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.619
Max BC CSI: 0.297
Max Web CSI: 0.335

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	/ Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
H	756	/-	/-	/-	/-	/-
E	765	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
H Brg Width = 3.0 Min Req = 1.5
E Brg Width = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-548	B - C	0	-383

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	377	0	F - E	454	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	0	-704	C - E	0	-517
A - G	471	0			

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W7 2x6 SP #2:

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

Plating Notes
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

Additional Notes
Refer to General Notes for additional information
Right end vertical not designed to be exposed to wind pressure.
Shim all supports to solid bearing.
The overall height of this truss excluding overhang is 9-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
03/04/2019

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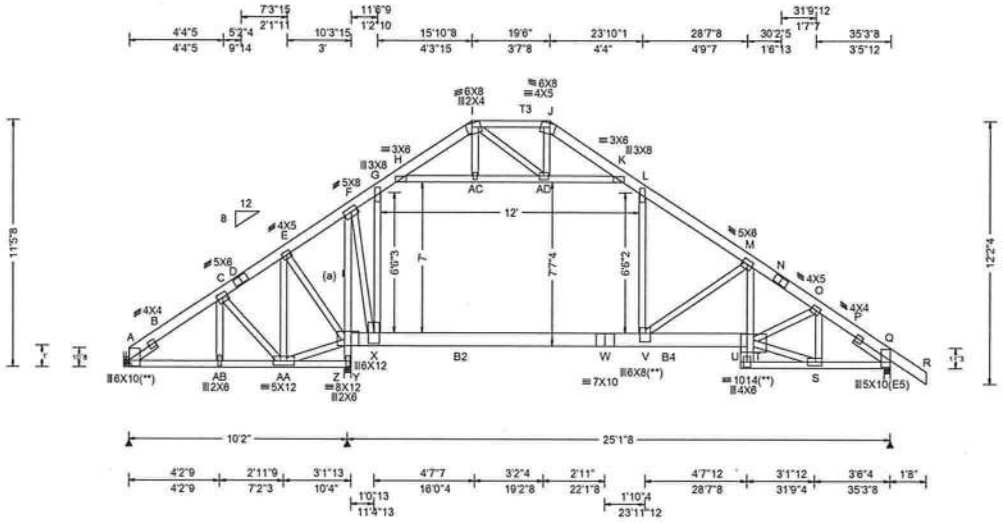
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609680 / ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** B01	Cust: R R215 JRef: 1WJ12150001 T30 / DrwNo: 060.19.0742.26521 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.53 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

	Loc	L/defl	L/#
PP Deflection in			
VERT(LL): 0.262	V	999	240
VERT(CL): 0.489	V	615	180
HORZ(LL): -0.093	L	-	-
HORZ(TL): 0.180	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.666
Max BC CSI: 0.593
Max Web CSI: 0.762

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1571	/-	/-	/807	/38	/342
Z	803	/-	/-	/557	/290	/-
Q	1940	/-	/-	/1012	/50	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
Z Brg Width = 4.0 Min Req = 1.5
Q Brg Width = 3.5 Min Req = 2.3
Bearings Z & Q 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	377	-2331	J - K	184	-471
B - C	393	-2285	K - L	404	-1973
C - D	399	-2155	L - M	426	-2747
D - E	412	-2121	M - N	492	-3118
E - F	432	-2375	N - O	483	-3180
F - G	477	-2720	O - P	395	-2550
G - H	416	-2002	P - Q	408	-2612
H - I	185	-476			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AB	1815	-232	W - V	2113	-118
AB-AA	1813	-232	V - T	2677	-283
Y - X	1919	-128	S - Q	1987	-239
X - W	2113	-118			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- E	21	-621	AC-AD	320	-1906
AA- Y	1921	-178	AD- K	308	-1841
E - Y	405	-71	L - V	1085	-52
Y - Z	294	-776	V - M	210	-709
Y - F	68	-1527	T - S	2001	-240
F - X	1058	-64	T - O	795	-52
X - G	1387	-185	S - O	96	-629
H -AC	322	-1916			

Lumber

Top chord 2x6 SP #2 :T3 2x4 SP #2:
Bot chord 2x4 SP #2 :B2, B4 2x8 SP 2400f-2.0E:
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.965'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 4X8 except as noted.

(**) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 11-8-5 to 23-8-5: Live Load: 30 PSF. Dead Load: 10 PSF Ceiling: 1 PSF, Kneewalls: 1 PSF

Truss designed for sleeping room only. No waterbeds permitted. Provide information to contractor, architect, and bldg owner. Trusses to be visibly stamped to indicate 30.00 psf MAX LL.

Purlins

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

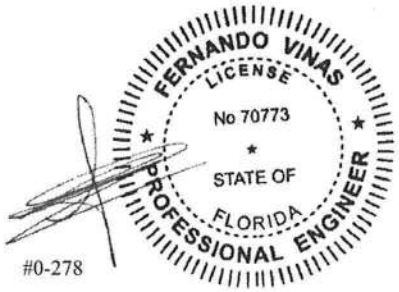
Wind

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 11-5-8.



#0-278

03/04/2019

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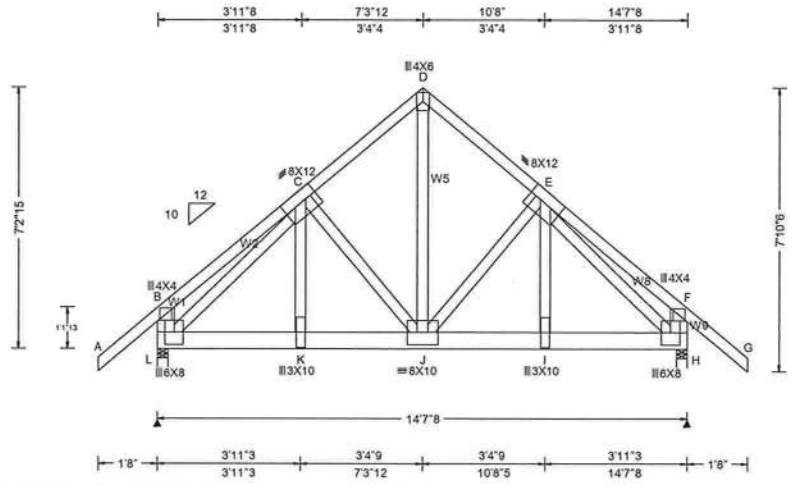
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609883 / COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** C01	Cust: R R215 JRef: 1WJ12150001 T27 / DrwNo: 060.19.0742.26537 KD / FV 03/01/2019

2 Complete Trusses Required



Loading Criteria (psf)

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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.053	J	999	240
VERT(CL): 0.106	J	999	180
HORZ(LL): 0.027	C	-	-
HORZ(TL): 0.054	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.301
Max BC CSI: 0.524
Max Web CSI: 0.748

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	6726	/-	/-	/-	/1041	/-
H	8218	/-	/-	/-	/1296	/-

Wind reactions based on MWFRS
L Brg Width = 3.5 Min Req = 2.8
H Brg Width = 3.5 Min Req = 3.4
Bearings L & 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.
C - D	417	-2739	E - F	69	-404
D - E	417	-2739			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2769	-413	J - I	2855	-426
K - J	2812	-419	I - H	2810	-420

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - C	543	-3630	J - E	173	-1156
C - K	1807	-240	I - E	1891	-254
C - J	162	-1091	E - H	545	-3646
D - J	3314	-469			

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3 :W1, W9 2x6 SP #2:
:W2, W8 2x4 SP 2400f-2.0E:
:W5 2x4 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 3.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	66 plf at	-1.67 to	66 plf at	16.29
BC: From	5 plf at	-1.67 to	5 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	14.63
BC: From	5 plf at	14.63 to	5 plf at	16.29

BC: 1925 lb Conc. Load at 2.06, 4.06, 6.06, 8.06
BC: 1927 lb Conc. Load at 10.06,12.06
BC: 2041 lb Conc. Load at 14.06

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 7-2-15.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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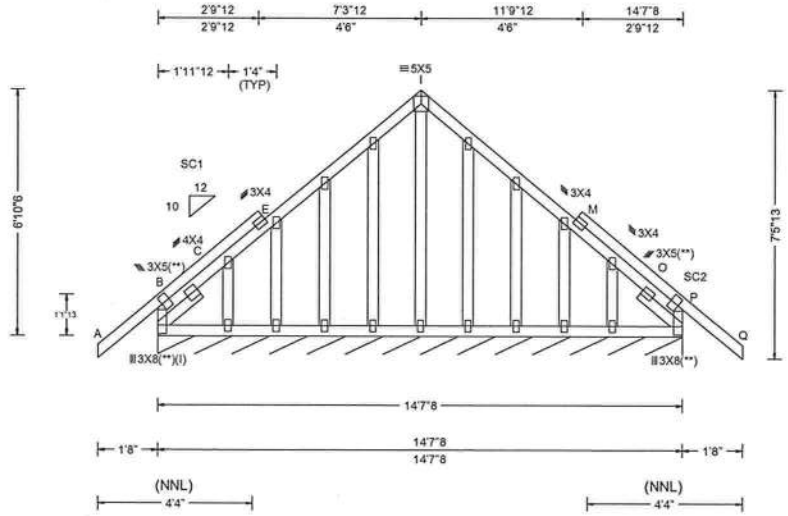
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609690 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** C02	Cust: R R215 JRef: 1WJ12150001 T7 / DrwNo: 060.19.0742.26271 KD / FV 03/01/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	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): 0.002 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): 0.004 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.323 Max BC CSI: 0.052 Max Web CSI: 0.129 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P* 102 /- /- /57 /15 /17 Wind reactions based on MWFRS P Brg Width = 175 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
:Stack Chord SC1 2x4 SP #2:
:Stack Chord SC2 2x4 SP #2:
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Plating Notes

All plates are 2X4 except as noted.

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

(**) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

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

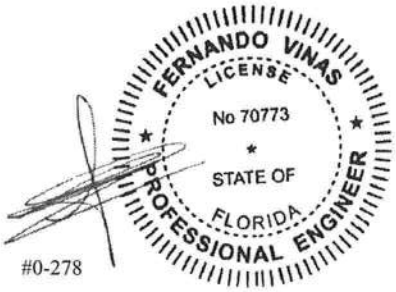
Additional Notes

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). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

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



#0-278

03/04/2019

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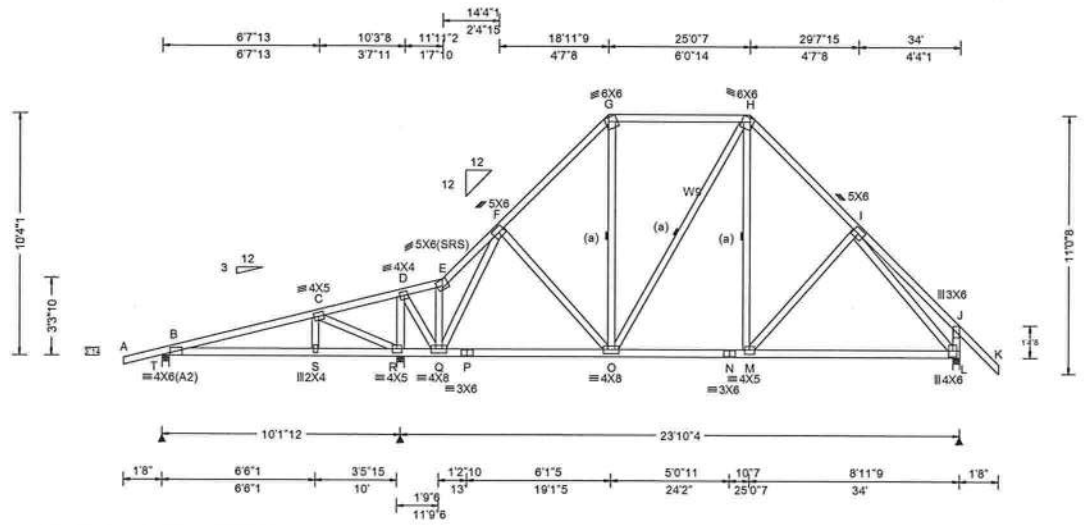
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609692 / COMN	Ply: 1	Job Number: 18-2701D	Cust: R R215 JRef: 1WJ12150001 T46 /
FROM: CDM	Qty: 5	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.25850
		Truss Label: D01	KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.026	M	999	240
VERT(CL): 0.051	M	999	180
HORZ(LL): 0.017	J	-	-
HORZ(TL): 0.033	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.530
Max BC CSI: 0.782
Max Web CSI: 0.920

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	427	/-	/-	/186	/121	/360
R	1660	/-	/-	/903	/257	/-
L	1267	/-	/-	/718	/161	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
R Brg Width = 3.5 Min Req = 1.6
L Brg Width = 3.5 Min Req = 1.5
Bearings T, R, & 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.
C - D	516	-153	G - H	329	-603
E - F	179	-528	H - I	373	-1042
F - G	362	-955			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	597	-169	N - M	659	-64
P - O	597	-169	M - L	724	-66
O - N	659	-64			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - R	319	-723	Q - F	179	-688
R - D	450	-1338	H - M	404	-114
D - Q	1176	-268	I - L	112	-1053

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W9 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

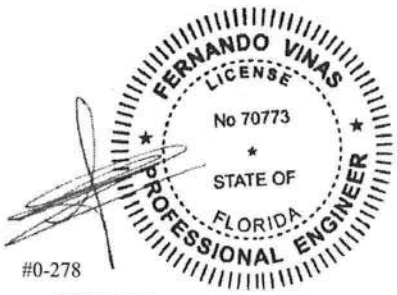
Wind

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 10-4-1.



#0-278

03/04/2019

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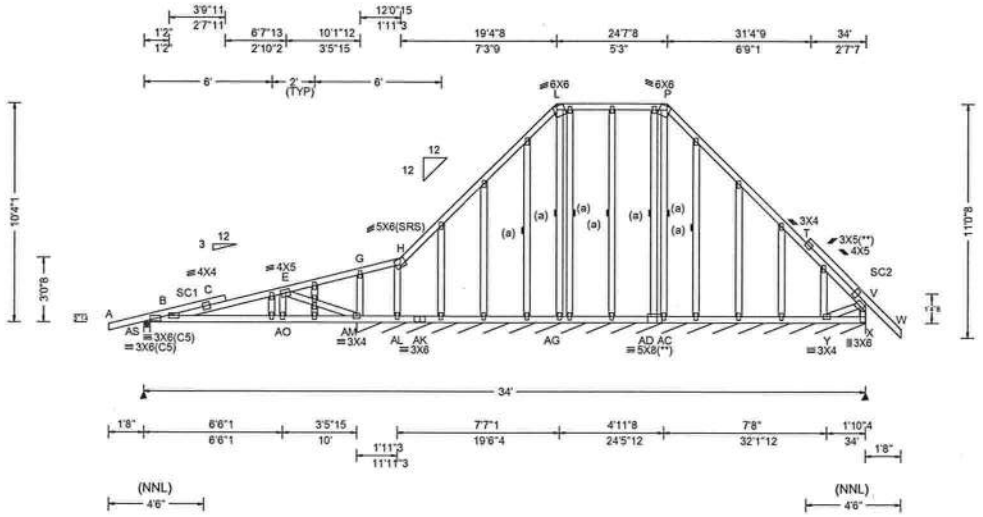
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609864 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** D02	Cust: R R215 JRef: 1WJ12150001 T45 / DrwNo: 060.19.0742.25944 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.075	C	999	240
VERT(CL): 0.156	C	746	180
HORZ(LL): 0.010	C	-	-
HORZ(TL): 0.022	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.453
Max Web CSI: 0.171

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AS	489	/-	/-	/237	/109	/365
X*	109	/-	/-	/60	/17	/-

Wind reactions based on MWFRS
AS Brg Width = 3.5 Min Req = 1.5
X Brg Width = 288 Min Req = -
Bearings AS & AM 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	351	-676	T - V	313	-376
C - E	204	-572			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AO	553	-143	AO-AM	523	-132

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
E -AM	399	-745

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:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

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

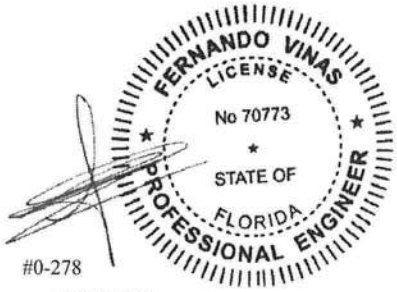
Additional Notes

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). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is 10-4-1.



#0-278

03/04/2019

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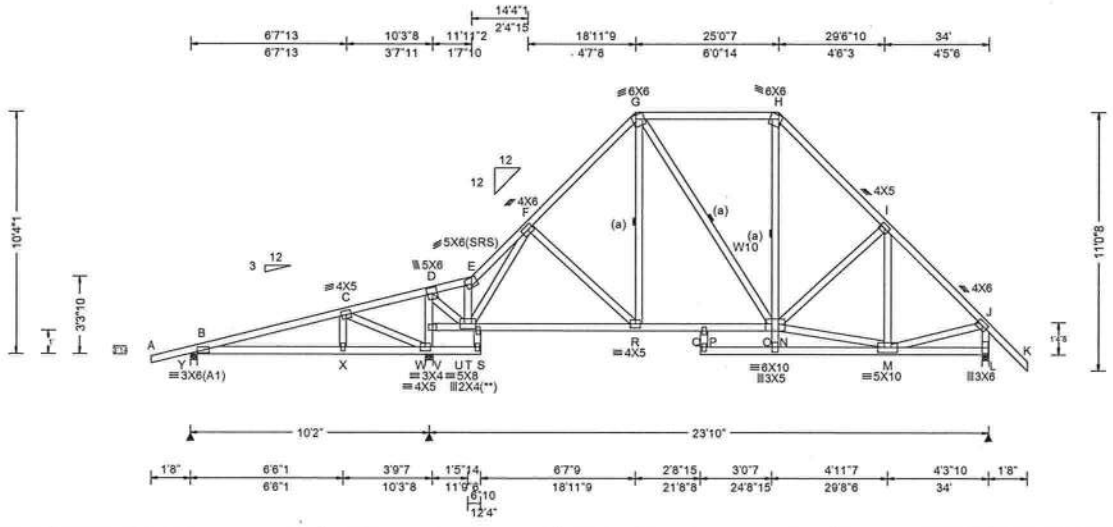
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609699 / COMN FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** D03	Cust: R R215 JRef: 1WJ12150001 T47 / DrwNo: 060.19.0742.26037 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	Q	999	240
VERT(CL): 0.083	Q	999	180
HORZ(LL): -0.009	I	-	-
HORZ(TL): 0.014	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.454
Max BC CSI: 0.489
Max Web CSI: 0.458

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	480	/-	/-	/215	/151	/360
W	1555	/-	/-	/912	/223	/-
L	1177	/-	/-	/743	/171	/-

Wind reactions based on MWFRS
Y Brg Width = 3.5 Min Req = 1.5
W Brg Width = 4.0 Min Req = 1.5
L Brg Width = 3.5 Min Req = 1.5
Bearings Y, W, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	243	-513	F - G	339	-1051
C - D	414	-283	G - H	298	-675
D - E	196	-673	H - I	324	-1056
E - F	314	-978	I - J	272	-1099

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - X	464	-82	T - R	778	-136
X - W	456	-82	R - P	667	-122
U - T	805	-127	P - N	665	-121

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	157	-691	U - E	174	-575
W - V	255	-1191	N - M	715	-57
V - D	237	-1195	M - J	713	-58
D - U	1138	-190	J - L	314	-1139

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W10 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

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.

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 10-4-1.

Note: Laterally brace bottom chord above filler at 2'0" O.C. Max. including a lateral brace at chord ends.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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

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

ALPINE
AN ITW COMPANY
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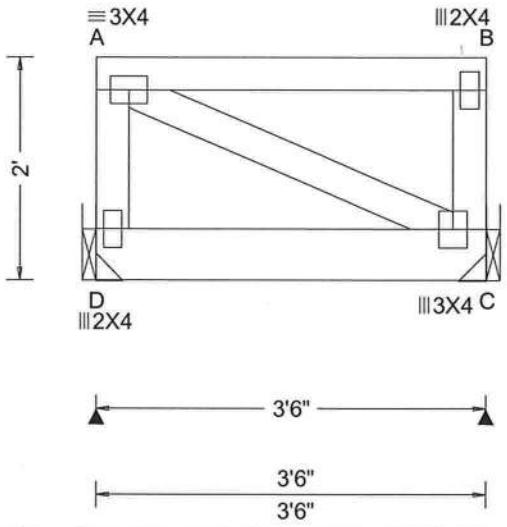
SEQN: 609873 / FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT1	Cust: R R215 JRef: 1WJ12150001 T39 / DrwNo: 060.19.0742.25959 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	240
VERT(CL): 0.000	A	999	180
HORZ(LL): -0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.213
Max BC CSI: 0.279
Max Web CSI: 0.036

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	247	/-	/-	/-	/40	/-
C	273	/-	/-	/-	/44	/-

Wind reactions based on MWFRS
D Brg Width = - Min Req = -
C Brg Width = - Min Req = -
Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.50
BC: From 20 plf at 0.00 to 20 plf at 3.50
BC: 239 lb Conc. Load at 1.94

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.

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No 70773
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PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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ALPINE
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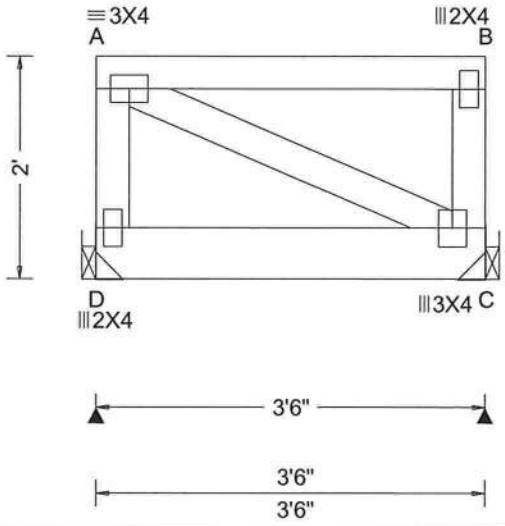
SEQN: 609597 / FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT2	Cust: R R215 JRef: 1WJ12150001 T50 / DrwNo: 060.19.0742.25943 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	240
VERT(CL): 0.000	A	999	180
HORZ(LL): -0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.212
Max BC CSI: 0.812
Max Web CSI: 0.061

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	481	/-	/-	/-	/27	/-
C	563	/-	/-	/-	/26	/-

Wind reactions based on MWFRS
D Brg Width = - Min Req = -
C Brg Width = - Min Req = -
Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.50
BC: From 20 plf at 0.00 to 20 plf at 3.50
BC: 765 lb Conc. Load at 1.94

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

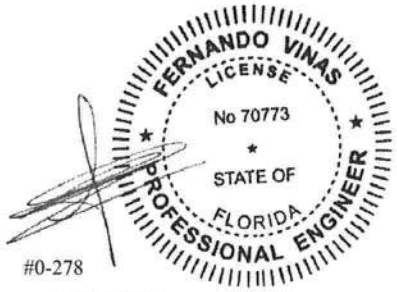
End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.



#0-278

03/04/2019

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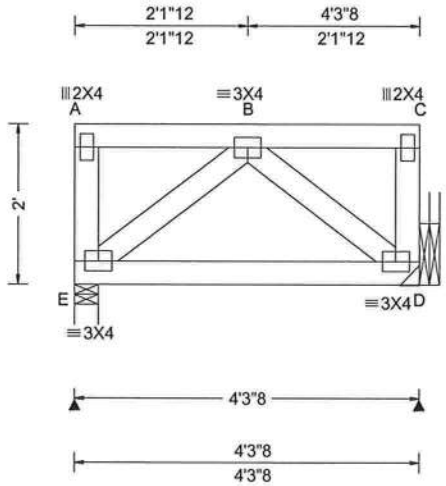
SEQN: 609814 / FLAT FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT3	Cust: R R215 JRef: 1WJ12150001 T8 / DrwNo: 060.19.0742.26287 KD / FV 03/01/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	B	999	240
VERT(CL): 0.001	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.001	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.084
Max BC CSI: 0.079
Max Web CSI: 0.025

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	342	/-	/-	/27	/-	/-
D	204	/-	/-	/26	/-	/-

Wind reactions based on MWFRS
E Brg Width = 3.5 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing E 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

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 4 plf at 0.00 to 4 plf at 4.29
BC: From 20 plf at 0.00 to 20 plf at 4.29
TC: 222 lb Conc. Load at 0.48, 2.48

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

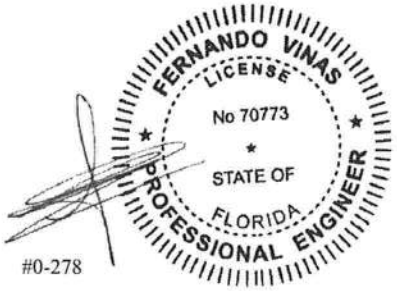
End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.



#0-278

03/04/2019

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

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Suite 305
Orlando FL, 32821

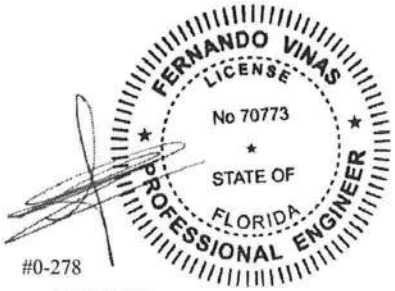
Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=4'0"8 uses the following support conditions: 4'0"8
Bearing D (4'0"8, 9') HGUS26-2
Supporting Member: (2)2x10 SP 2400f-2.0E
(20) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supported member.



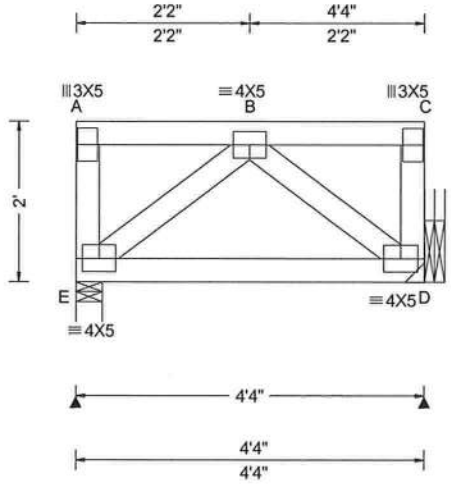
#0-278

03/04/2019

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

SEQN: 609776 / FLAT FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT4	Cust: R R215 JRef: 1WJ12150001 T17 / DrwNo: 060.19.0742.26165 KD / FV 03/01/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	B	999	240
VERT(CL): 0.002	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.001	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.154
Max BC CSI: 0.093
Max Web CSI: 0.041

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	489	/-	/-	/-	/109	/-
D	320	/-	/-	/-	/56	/-

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing E 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

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 9.25" 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.

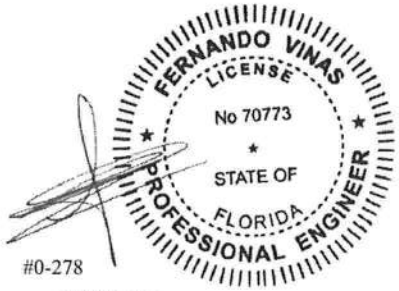
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 4 plf at 0.00 to 4 plf at 4.33
BC: From 20 plf at 0.00 to 20 plf at 4.33
TC: 352 lb Conc. Load at 0.65, 2.65

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

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

Wind
Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 2-0-0.



#0-278

03/04/2019

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

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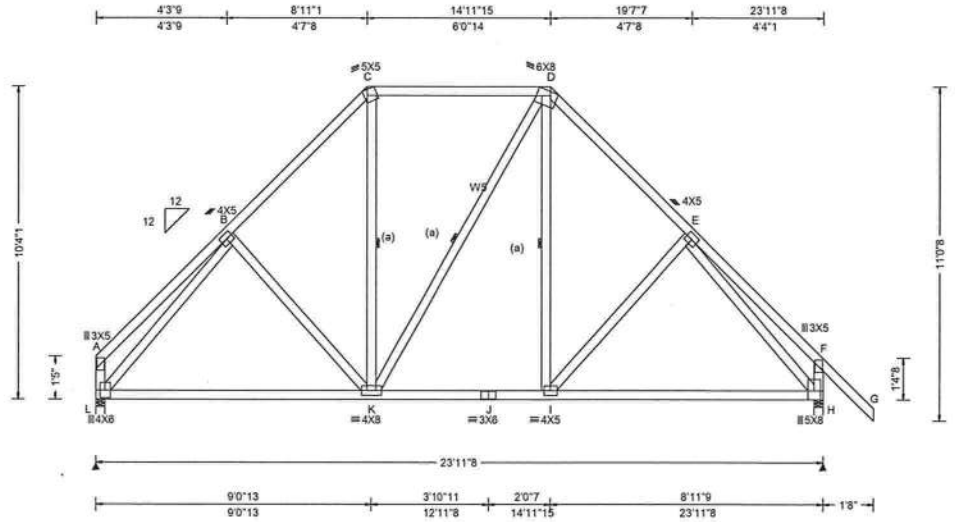
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609701 / COMN	Ply: 1	**Job Number:** 18-2701D	Cust: R R215 JRef: 1WJ12150001 T23 /
FROM: CDM	Qty: 4	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26007
		Truss Label: G01	KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.029	I	999	240
VERT(CL): 0.055	I	999	180
HORZ(LL): 0.021	F	-	-
HORZ(TL): 0.040	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.404
Max BC CSI: 0.780
Max Web CSI: 0.998

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1202	/-	/-	/609	/-	/347
H	1345	/-	/-	/726	/-	/-

Wind reactions based on MWFRS
L Brg Width = 3.5 Min Req = 1.5
H Brg Width = 3.5 Min Req = 1.6
Bearings L & 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.
B - C	335	-1122	D - E	324	-1137
C - D	290	-720			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	784	-228	J - I	727	-77
K - J	727	-77	I - H	785	-59

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	166	-1125	E - H	102	-1142

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W5 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

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 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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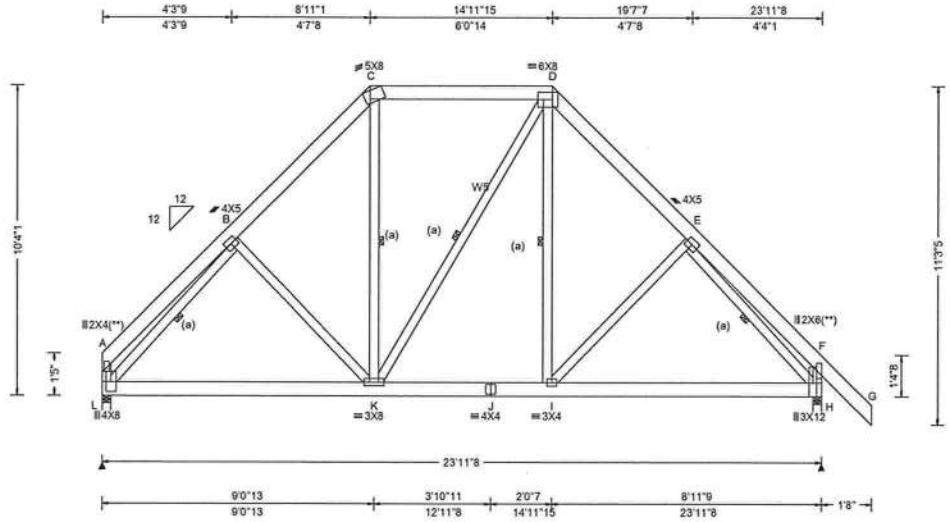
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609709 / COMN	Ply: 1	**Job Number:** 18-2701D	Cust: R R215 JRef: 1WJ12150001 T11 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26208
		Truss Label: G02	KD / FV 03/01/2019



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 48.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	I	999	240
VERT(CL): 0.085	I	999	180
HORZ(LL): 0.030	F	-	-
HORZ(TL): 0.063	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.376
Max BC CSI: 0.872
Max Web CSI: 0.603

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	2220	/-	/-	/1222	/-	/690
H	2506	/-	/-	/1455	/-	/-

Wind reactions based on MWFRS
L Brg Width = 3.5 Min Req = 2.6
H Brg Width = 3.5 Min Req = 3.0
Bearings L & 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.
B - C	666	-2142	D - E	643	-2169
C - D	579	-1368	E - F	540	-412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	1522	-453	J - I	1381	-150
K - J	1381	-150	I - H	1521	-129

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	347	-2267	E - H	206	-2262
C - K	670	-195	F - H	616	-637
D - I	660	-169			

Lumber

Top chord 2x6 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W5 2x4 SP #2:

Bracing

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

Plating Notes

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

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

Purlins

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

Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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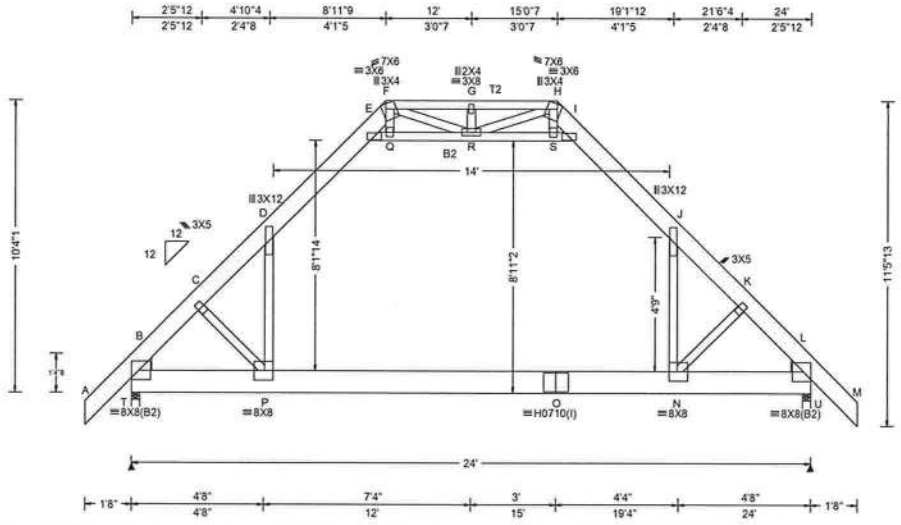
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609722 / ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H01	Cust: R R215 JRef: 1WJ12150001 T40 / DrwNo: 060.19.0742.26490 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.122	N	999	240
VERT(CL): 0.255	N	999	180
HORZ(LL): -0.117	J	-	-
HORZ(TL): 0.250	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.482
Max BC CSI: 0.463
Max Web CSI: 0.667

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	2139	/-	/-	/738	/170	/383
U	2139	/-	/-	/738	/170	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.8
U Brg Width = 3.5 Min Req = 1.8
Bearings T & 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	285	-2605	G - H	636	-3
C - D	321	-2539	I - J	326	-1459
D - E	325	-1460	J - K	316	-2540
F - G	636	-3	K - L	282	-2607

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	1598	-161	O - N	1398	-109
P - O	1398	-109	N - L	1599	-74

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1461	-67	R - S	421	-2230
E - Q	459	-2458	R - H	456	-164
F - Q	786	-144	S - H	785	-145
F - R	459	-164	S - I	463	-2455
Q - R	417	-2233	N - J	1464	-42

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Plating Notes

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

Loading

Attic room loading from 5-0-0 to 19-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.00' bearing 2 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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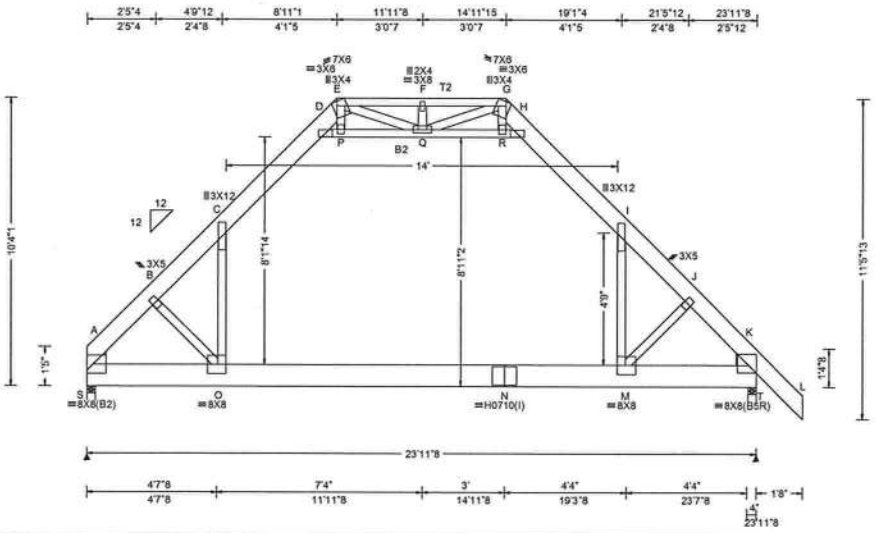
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609720 / ATIC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H02	Cust: R R215 JRef: 1WJ12150001 T20 / DrwNo: 060.19.0742.25682 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.122	O	999	240
VERT(CL): 0.256	O	999	180
HORZ(LL): -0.117	I	-	-
HORZ(TL): 0.250	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.482
Max BC CSI: 0.464
Max Web CSI: 0.667

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	2011	/-	/-	/616	/141	/348
T	2144	/-	/-	/738	/171	/-

Wind reactions based on MWFRS
S Brg Width = 3.5 Min Req = 1.7
T Brg Width = 3.5 Min Req = 1.8
Bearings S & T 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	293	-2616	F - G	637	-3
B - C	329	-2551	H - I	328	-1463
C - D	328	-1462	I - J	325	-2547
E - F	637	-3	J - K	290	-2614

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - O	1620	-165	N - M	1402	-110
O - N	1402	-110	M - K	1602	-80

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	174	-397	Q - R	430	-2243
C - O	1464	-57	Q - G	460	-164
D - P	469	-2459	R - G	789	-148
E - P	786	-147	R - H	473	-2469
E - Q	458	-163	M - I	1468	-48
P - Q	427	-2234			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Plating Notes

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

Loading

Attic room loading from 4-11-8 to 18-11-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.04' bearing 2 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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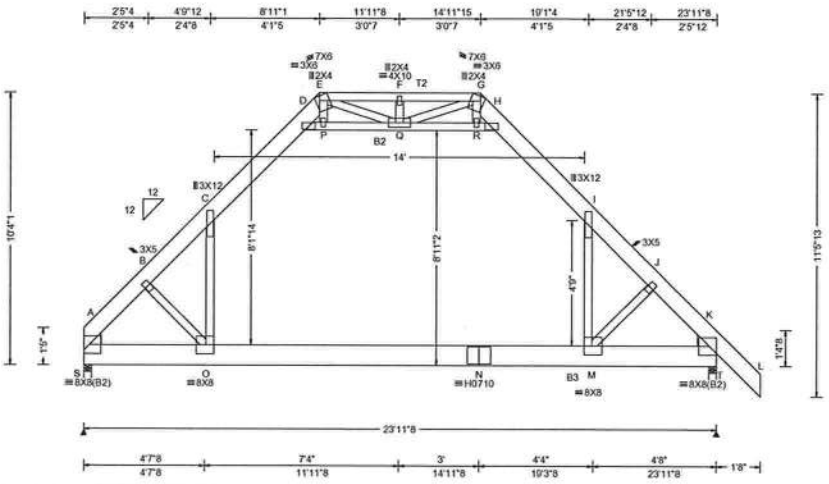
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609729 / ATIC FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H03	Cust: R R215 JRef: 1WJ12150001 T24 / DrwNo: 060.19.0742.26614 KD / FV 03/01/2019

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 36.0 "	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 13.00 ft GCpi: 0.18 Wind Duration: 1.25	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): 0.118 O 999 240 VERT(CL): 0.236 O 999 180 HORZ(LL): 0.112 C - - HORZ(TL): 0.227 C - - Creep Factor: 2.0 Max TC CSI: 0.492 Max BC CSI: 0.925 Max Web CSI: 0.584 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	3688	/-	/-	/1596	/257	/522
T	3291	/-	/-	/1183	/308	/-

Wind reactions based on MWFRS
S Brg Width = 3.5 Min Req = 1.5
T Brg Width = 3.5 Min Req = 1.9
Bearings S & T 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	187	-2106	F - G	539	-2
B - C	213	-2065	H - I	211	-1147
C - D	213	-1124	I - J	200	-1978
E - F	539	-2	J - K	177	-2032

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - O	1333	-123	N - M	1107	-79
O - N	1107	-79	M - K	1220	-78

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	110	-400	Q - R	260	-1845
C - O	1273	-39	Q - G	399	-126
D - P	295	-1937	R - G	645	-90
E - P	615	-93	R - H	286	-2030
P - Q	268	-1761	M - I	1117	-24

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
:B3 2x10 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @10.25" 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	42 plf at	0.00 to	42 plf at	25.62
TC: From	60 plf at	0.00 to	60 plf at	25.62
TC: From	42 plf at	4.96 to	42 plf at	8.36
TC: From	42 plf at	15.55 to	42 plf at	18.96
PLT: From	30 plf at	8.62 to	30 plf at	15.30
PLT: From	150 plf at	4.96 to	150 plf at	18.96
BC: From	30 plf at	0.00 to	30 plf at	23.96
BC: From	150 plf at	0.00 to	150 plf at	4.98
BC: From	8 plf at	23.96 to	8 plf at	25.62

BC: 142 lb Conc. Load at 4.96,18.96

Purlins

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

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.04' bearing 2 located at 23.71'

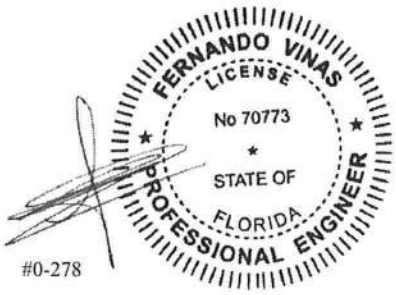
Additional Notes

Refer to General Notes for additional information

The maximum horizontal reaction is 522#

The overall height of this truss excluding overhang is 10-4-1.

WIND LOAD CASE MODIFIED!



#0-278

03/04/2019

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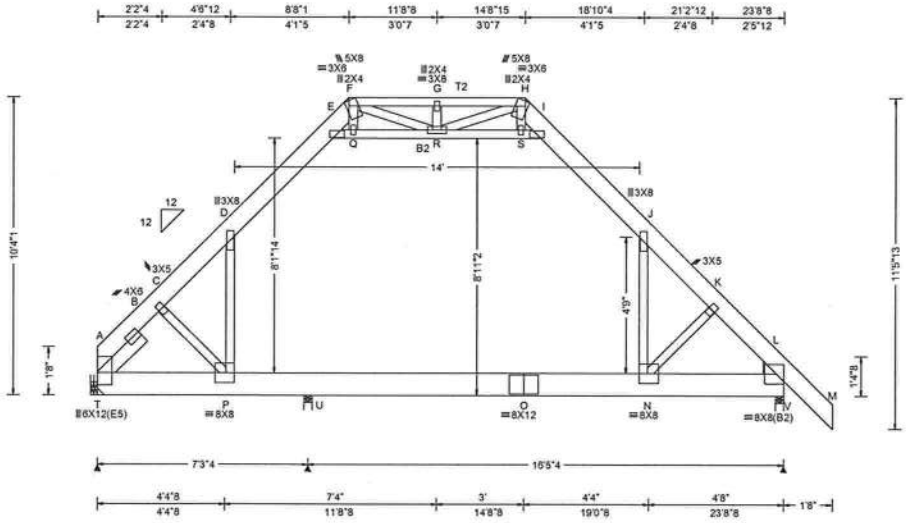
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609829 / ATIC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H04	Cust: R R215 JRef: 1WJ12150001 T55 / DrwNo: 060.19.0742.25896 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.114	N	999	240
VERT(CL): 0.242	N	809	180
HORZ(LL): -0.113	J	-	-
HORZ(TL): 0.244	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.296
Max BC CSI: 0.372
Max Web CSI: 0.334

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1022	/-	/-	/391	/84	/343
U	1455	/-	/0	/461	/81	/0
V	1695	/-	/-	/666	/146	/-

Wind reactions based on MWFRS
T Brg Width = - Min Req = -
U Brg Width = 3.5 Min Req = 1.5
V Brg Width = 3.5 Min Req = 1.5
Bearings U & V 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	191	-1394	H - I	162	-415
B - C	174	-1327	I - J	287	-1013
C - D	212	-1285	J - K	237	-1575
D - E	296	-1112	K - L	203	-1643

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	826	-136	O - N	837	-84
P - O	1673	-168	N - L	1035	-29

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - Q	366	-1423	R - S	298	-770
F - Q	490	-117	S - I	328	-858
F - R	612	-152	N - J	706	0
Q - R	332	-1282			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.994'
:Rt Wedge 2x6 SP #2:

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 4-8-8 to 18-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

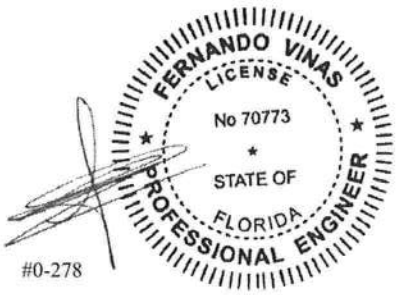
Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 2 located at 7.42' bearing 3 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.



#0-278

03/04/2019

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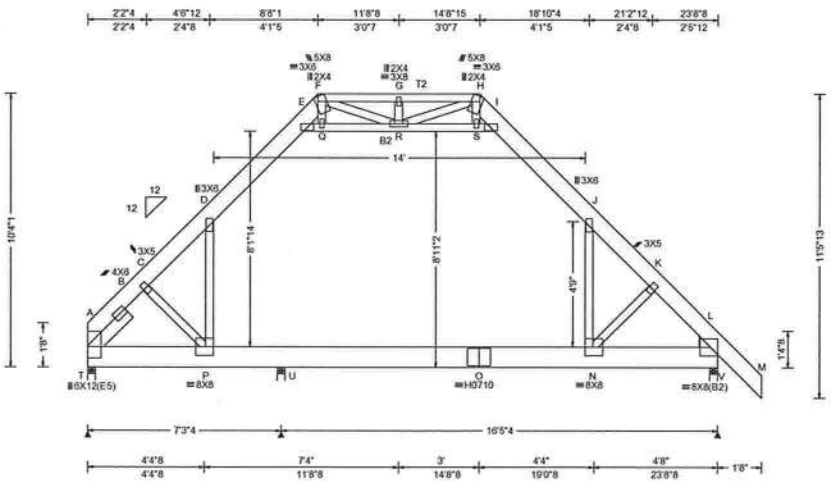
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609818 / ATIC FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H05	Cust: R R215 JRef: 1WJ12150001 T16 / DrwNo: 060.19.0742.25710 KD / FV 03/01/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.077	N	999	240
VERT(CL): 0.150	N	999	180
HORZ(LL): -0.077	J	-	-
HORZ(TL): 0.150	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.197
Max BC CSI: 0.247
Max Web CSI: 0.182

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1020	/-	/-	/391	/197	/343
U	1735	/-	/0	/461	/81	/0
V	1902	/-	/-	/666	/245	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
U Brg Width = 3.5 Min Req = 1.5
V Brg Width = 3.5 Min Req = 1.5
Bearings T, U, & V 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	116	-772	I - J	144	-533
B - C	103	-738	J - K	119	-923
C - D	106	-716	K - L	114	-953
D - E	148	-602			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	452	-69	O - N	470	-61
P - O	940	-123	N - L	603	-65

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - Q	183	-819	S - I	164	-508
Q - R	166	-739	N - J	478	0
R - S	149	-458			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.994'
:Rt Wedge 2x6 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.

Hangers / Ties

Bearing at location x=3"8 uses the following support conditions: 3"8
Bearing T (3"8, 9') HGUS26-2
Supporting Member: Unavailable
(20) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supported member.

Recommended tie connection based on manufacturer tested capacities and calculations for vertical reactions. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Loading

Attic room loading from 4-8-8 to 18-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

Wind loads based on MWFRS.

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.29' bearing 2 located at 7.42'
bearing 3 located at 23.71'

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#0-278

03/04/2019

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

SEQN: 609818 / ATIC	Ply: 2	**Job Number:** 18-2701D	Cust: R R215 JRef: 1WJ12150001 T16 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.25710
Page 2 of 2		**Truss Label:** H05	KD / FV 03/01/2019

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

Special loads

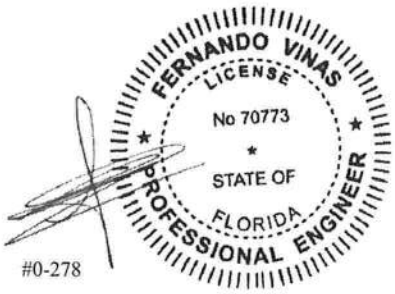
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	28 plf at	0.00 to	28 plf at	25.37
TC: From	40 plf at	0.00 to	40 plf at	25.37
TC: From	28 plf at	4.71 to	28 plf at	8.11
TC: From	28 plf at	15.30 to	28 plf at	18.71
PLT: From	20 plf at	8.37 to	20 plf at	15.05
PLT: From	100 plf at	4.71 to	100 plf at	14.71
PLT: From	100 plf at	14.71 to	100 plf at	18.71
BC: From	20 plf at	0.00 to	20 plf at	23.71
BC: From	6 plf at	23.71 to	6 plf at	25.37

BC: 95 lb Conc. Load at 4.71,18.71

BC: 204 lb Conc. Load at 11.33

BC: 320 lb Conc. Load at 15.29

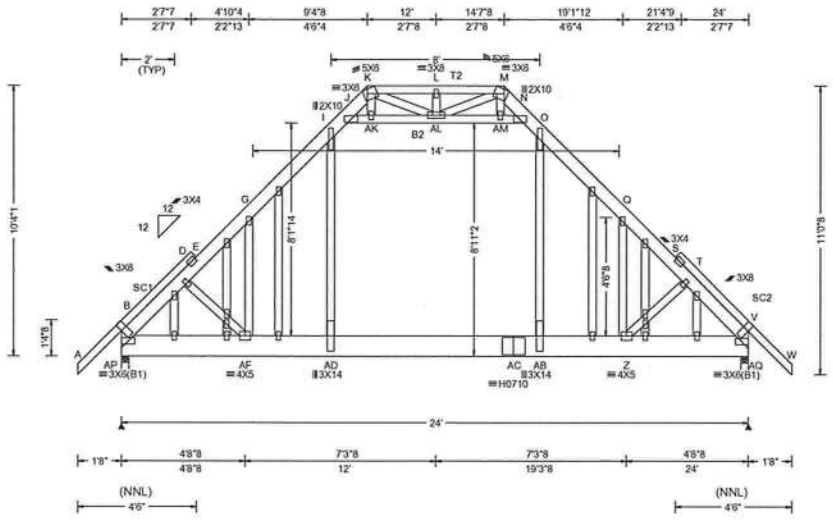


#0-278

03/04/2019

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

SEQN: 609808 / GABL	Ply: 1	**Job Number:** 18-2701D	Cust: R R215 JRef: 1WJ12150001 T19 /
FROM: CDM	Qty: 1	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 060.19.0742.26442
		Truss Label: H06	KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.061	AE	999	240
VERT(CL): 0.136	AE	999	180
HORZ(LL): 0.051	H	-	-
HORZ(TL): 0.113	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.576
Max BC CSI: 0.179
Max Web CSI: 0.433

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AP	2138	/-	/-	/736	/157	/382
AQ	2138	/-	/-	/736	/157	/-

Wind reactions based on MWFRS
AP Brg Width = 3.5 Min Req = 1.8
AQ Brg Width = 3.5 Min Req = 1.8
Bearings AP & AQ 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 - D	109	-2140	M - N	126	-394
D - E	110	-2131	N - O	319	-1324
E - G	280	-2145	O - Q	409	-2248
G - I	409	-2248	Q - S	278	-2145
I - J	318	-1324	S - T	89	-2131
J - K	126	-394	T - V	89	-2140

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AF	1437	-187	AC-AB	1503	-103
AF-AD	1487	-106	AB- Z	1487	-102
AD-AC	1503	-103	Z - V	1437	-63

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J -AK	372	-1628	AL-AM	355	-1542
K -AK	378	-81	AM- M	378	-81
AK-AL	354	-1542	AM- N	374	-1628

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
I -AD	1147	-142	AB- O	1146	-141

Lumber

Top chord 2x6 SP #2 :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 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.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Attic room loading from 5-0-0 to 19-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.00' bearing 2 located at 23.71'

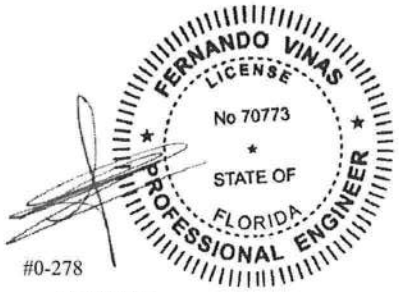
Additional Notes

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). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is 10-4-1.



#0-278

03/04/2019

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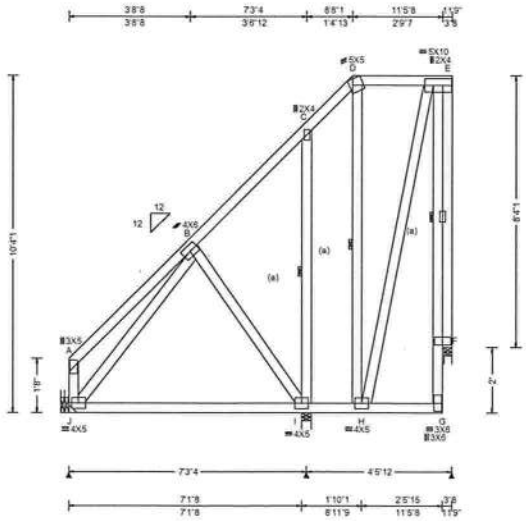
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609812 / MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H07	Cust: R R215 JRef: 1WJ12150001 T22 / DrwNo: 060.19.0742.26536 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	D	999	240
VERT(CL): 0.006	D	999	180
HORZ(LL): 0.002	D	-	-
HORZ(TL): 0.003	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.176
Max BC CSI: 0.270
Max Web CSI: 0.127

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	325	/-	/-	/-	/-	/-
I	485	/-	/-	/-	/-	/-
F	222	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
J Brg Width = - Min Req = -
I Brg Width = 3.5 Min Req = 1.5
F Brg Width = 3.0 Min Req = 3.0
Bearings I & F 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
:Rt Bearing Leg 2x4 SP #3:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=0' uses the following support conditions: 0'
Bearing J (0', 9') HUS26
Supporting Member: (2)2x6 SP #2
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Additional Notes

Refer to General Notes for additional information

Right end vertical not designed to be exposed to wind pressure.

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
#0-278

03/04/2019

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ALPINE
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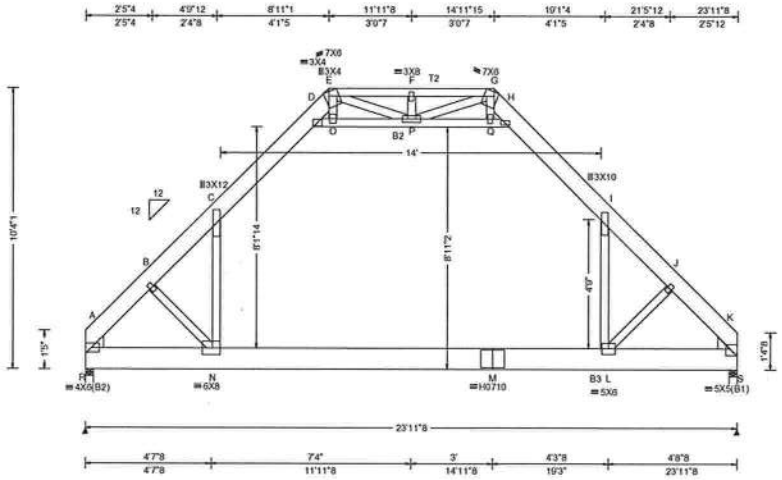
SEQN: 615348 ATIC FROM: CDM	Ply: 2 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H21	Cust: R215 JRef:1WJ12150001 T56 DrwNo: 063.19.1200.32063 KD / FV 03/04/2019	

2 Complete Trusses Required



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	**Wind Criteria** Wind Std: ASCE 7-10 Speed: 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: 1.25	**Snow Criteria** (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	**Defl/CSI Criteria** PP Deflection in loc L/defl L/# VERT(LL): 0.109 L 999 240 VERT(CL): 0.243 L 999 180 HORZ(LL): -0.107 I - - HORZ(TL): 0.239 I - - Creep Factor: 2.0 Max TC CSI: 0.482 Max BC CSI: 0.882 Max Web CSI: 0.609 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
R	3531	/-	/-	/-	/122	/-
S	4592	/-	/-	/-	/89	/-

Wind reactions based on MWFRS
R Brg Width = 3.5 Min Req = 1.5
S Brg Width = 3.5 Min Req = 2.7
Bearings R & S 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	66	-2289	F - G	642	0
B - C	49	-2270	H - I	54	-1284
C - D	55	-1098	I - J	42	-2316
E - F	639	0	J - K	50	-2443

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - N	1431	-38	M - L	1217	-30
N - M	1217	-30	L - K	1513	-30

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - N	1598	0	P - Q	5	-1950
D - O	4	-2480	Q - G	634	-4
E - O	746	-3	Q - H	7	-2132
E - P	433	-22	L - I	1202	0
O - P	3	-2265	L - J	0	-477

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
:B3 2x10 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 8.00" 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	68 plf at	0.00 to	68 plf at	25.62
TC: From	80 plf at	11.81 to	80 plf at	23.96
TC: From	48 plf at	14.99 to	103 plf at	23.96
BC: From	20 plf at	0.00 to	20 plf at	23.96
BC: From	6 plf at	23.96 to	6 plf at	25.62

BC: 1334 lb Conc. Load at 4.75
BC: 302 lb Conc. Load at 6.69, 8.69,10.69,12.69 14.69,16.69,18.69,20.69,22.69,23.85

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads and reactions based on MWFRS.

Blocking

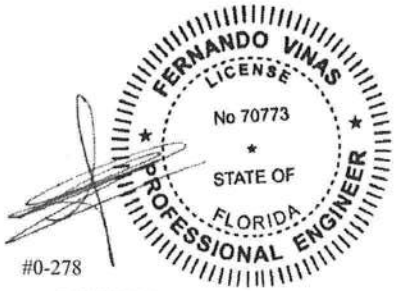
Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.04' bearing 2 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

It is the responsblity of the building designer and truss fabricator to review this dwg prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/ specifications and fabricator's truss layout.



#0-278

03/04/2019

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ALPINE
AN ITW COMPANY
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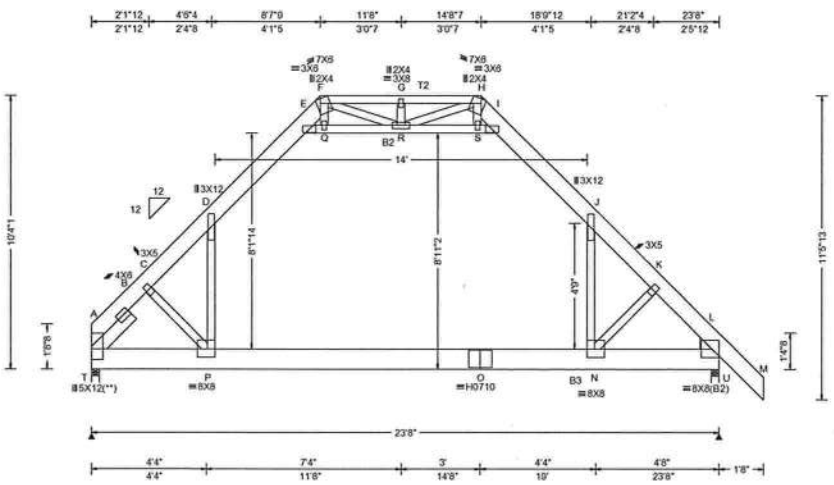
Orlando FL, 32821

SEQN: 609735 / ATIC FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H31	Cust: R R215 JRef: 1WJ12150001 T15 / DrwNo: 060.19.0742.26538 KD / FV 03/01/2019

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	36.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.107	P	999	240
VERT(CL): 0.216	P	999	180
HORZ(LL): 0.105	D	-	-
HORZ(TL): 0.215	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.462
Max BC CSI: 0.919
Max Web CSI: 0.586

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	3634	/-	/-	/1538	/250	/515
U	3262	/-	/-	/1173	/306	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
U Brg Width = 3.5 Min Req = 1.9
Bearings T & 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.
A - B	179	-2119	G - H	522	-3
B - C	182	-2068	I - J	209	-1133
C - D	210	-2055	J - K	197	-1948
D - E	213	-1114	K - L	174	-2002
F - G	522	-3			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	1301	-131	O - N	1089	-78
P - O	1089	-78	N - L	1203	-77

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1280	-40	R - H	391	-126
E - Q	293	-1905	S - H	631	-89
F - Q	606	-92	S - I	281	-1981
Q - R	266	-1731	N - J	1095	-23
R - S	256	-1800			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
:B3 2x10 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.985'
:Rt Wedge 2x6 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @10.25" 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	42 plf at	0.00 to	42 plf at	25.33
TC: From	60 plf at	0.00 to	60 plf at	25.33
TC: From	42 plf at	4.67 to	42 plf at	8.07
TC: From	42 plf at	15.26 to	42 plf at	18.67
PLT: From	30 plf at	8.32 to	30 plf at	15.01
PLT: From	150 plf at	4.67 to	150 plf at	18.67
BC: From	30 plf at	0.00 to	30 plf at	23.67
BC: From	150 plf at	0.00 to	150 plf at	4.69
BC: From	8 plf at	23.67 to	8 plf at	25.33

BC: 142 lb Conc. Load at 4.67,18.67

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins

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

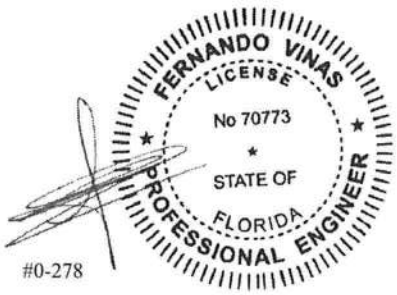
Collar-tie braced with continuous lateral bracing at 24" oc.

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.33' bearing 2 located at 23.71'



#0-278

03/04/2019

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Orlando FL, 32821

SEQN: 609735 / ATIC FROM: CDM Page 2 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H31	Cust: R R215 JRef: 1WJ12150001 T15 / DrwNo: 060.19.0742.26538 KD / FV 03/01/2019

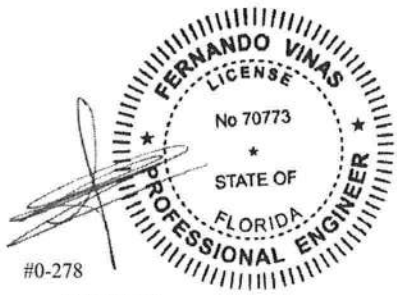
Additional Notes

Refer to General Notes for additional information

The maximum horizontal reaction is 515#

The overall height of this truss excluding overhang is 10-4-1.

WIND LOAD CASE MODIFIED!



#0-278

03/04/2019

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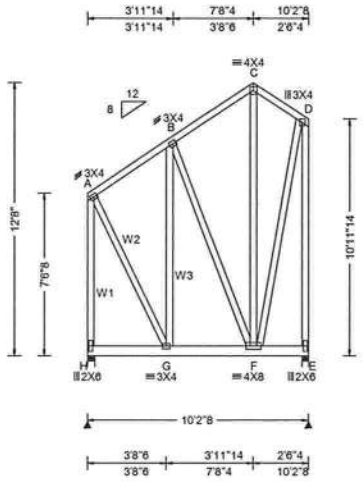
SEQN: 609831 / COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** K01	Cust: R R215 JRef: 1WJ12150001 T21 / DrwNo: 060.19.0742.26568 KD / FV 03/01/2019

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 36.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 19.10 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.014	F	999	240
VERT(CL): 0.028	F	999	180
HORZ(LL): 0.010	D	-	-
HORZ(TL): 0.021	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.207
Max BC CSI: 0.348
Max Web CSI: 0.863

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	1339	/-	/-	/-	/235	/-
E	2540	/-	/-	/-	/413	/-

Wind reactions based on MWFRS
H Brg Width = 4.0 Min Req = 1.5
E Brg Width = 3.5 Min Req = 1.5
Bearings H & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	130	-654	F - D	831	-142
A - G	485	-79	D - E	183	-986

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #2 :W1, W2, W3 2x4 SP #3:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 96 plf at 0.00 to 96 plf at 10.21
BC: From 30 plf at 0.00 to 30 plf at 3.56
BC: From 15 plf at 3.56 to 15 plf at 10.21
BC: 325 lb Conc. Load at 3.56, 5.56
BC: 1020 lb Conc. Load at 7.50
BC: 1022 lb Conc. Load at 9.23

Purlins

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

Wind

Wind loads and reactions based on MWFRS.
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 12-8-0.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
#0-278

03/04/2019

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

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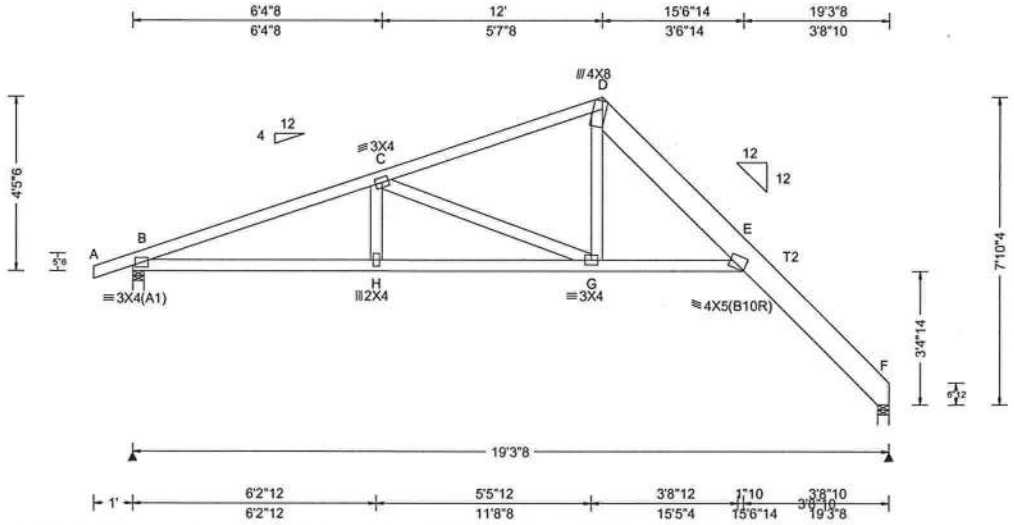
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 615355 COMN	Ply: 1	Job Number: 18-2701D	Cust: R 215 JRef: 1WJ12150001 T26
FROM: CDM	Qty: 2	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 063.19.1200.00537
		Truss Label: L01	KD / FV 03/04/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.73 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.210	G	999	240
VERT(CL): 0.435	G	520	180
HORZ(LL): 0.048	D	-	-
HORZ(TL): 0.099	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.446
Max BC CSI: 0.524
Max Web CSI: 0.421

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	853	/-	/-	/465	/142	/199
F	829	/-	/-	/533	/114	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
F Brg Width = 3.5 Min Req = 1.5
Bearings B & F Fcperp = 565psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	372	-1634	D - E	243	-944
C - D	253	-1028	E - F	211	-568

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	1494	-176	G - E	915	0
H - G	1490	-177			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - G	195	-603

Lumber

Top chord 2x4 SP #2 :T2 2x8 SP 2400f-2.0E:
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 14-4-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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

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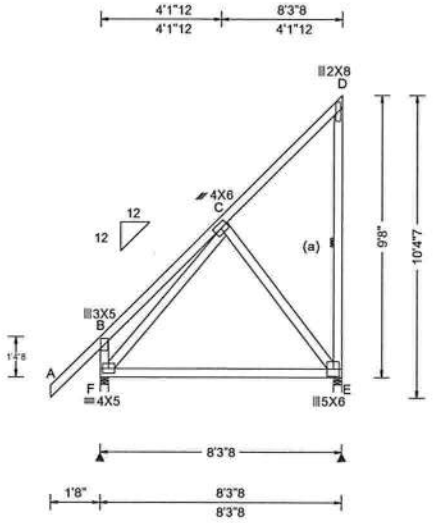
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609763 / MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M01	Cust: R R215 JRef: 1WJ12150001 T4 / DrwNo: 060.19.0742.25680 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	C	999	240
VERT(CL): 0.003	C	999	180
HORZ(LL): 0.003	B	-	-
HORZ(TL): 0.004	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.405
Max BC CSI: 0.773
Max Web CSI: 0.355

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	502	/-	/-	/334	/-	/189
E	354	/-	/-	/338	/106	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
F - C	157	-401

Lumber

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

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

The overall height of this truss excluding overhang is 9-8-0.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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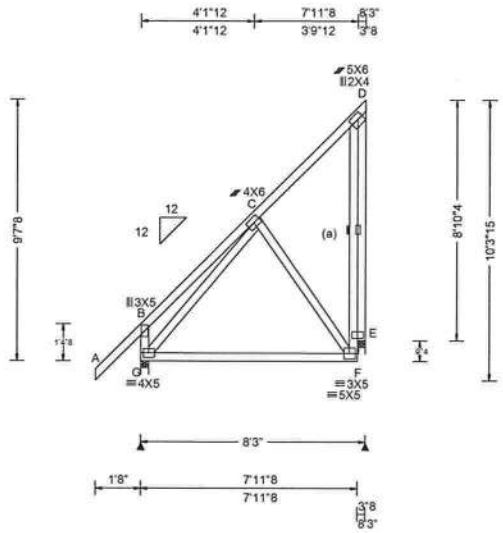
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609753 / MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M02	Cust: R R215 JRef: 1WJ12150001 T35 / DrwNo: 060.19.0742.26318 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	F	999	240
VERT(CL): 0.009	F	999	180
HORZ(LL): 0.004	D	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.405
Max BC CSI: 0.657
Max Web CSI: 0.334

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	494	/-	/-	/327	/-	/188
E	352	/-	/-	/335	/109	/-

Wind reactions based on MWFRS
G Brg Width = 3.5 Min Req = 1.5
E Brg Width = 3.0 Min Req = 3.0
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - C	154	-416	D - E	605	-584

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Rt Bearing Leg 2x4 SP #3:

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

The overall height of this truss excluding overhang is 9-7-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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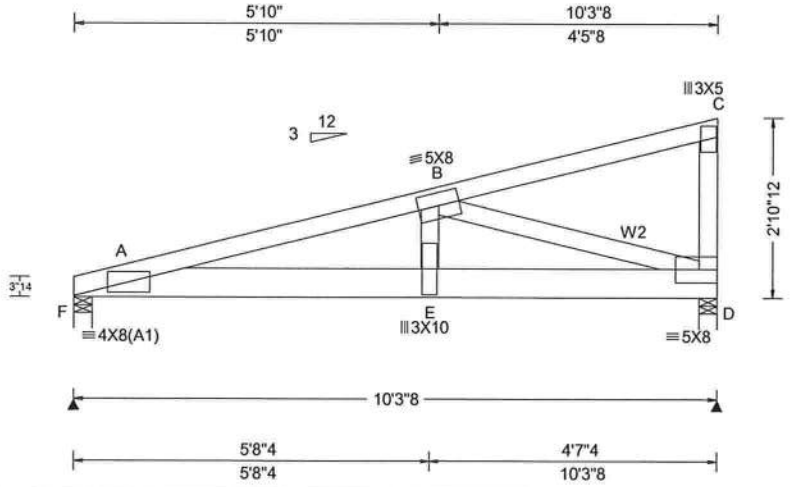
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609761 / MONO FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M03	Cust: R R215 JRef: 1WJ12150001 T10 / DrwNo: 060.19.0742.26381 KD / FV 03/01/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	E	999	240
VERT(CL): 0.190	E	641	180
HORZ(LL): -0.022	C	-	-
HORZ(TL): 0.044	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.729
Max BC CSI: 0.788
Max Web CSI: 0.844

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh		/ Rw	/ U	/ RL
F	2906 /-	/-		/-	/159	/-
D	4490 /-	/-		/-	/202	/-

Wind reactions based on MWFRS
F Brg Width = 3.5 Min Req = 1.5
D Brg Width = 3.5 Min Req = 1.9
Bearings F & D are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	209	-4489

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	4347	-198	E - D	4172	-195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - B	2214	-45	B - D	202	-4347

Lumber

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

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" 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 61 plf at 0.00 to 61 plf at 10.29
BC: From 10 plf at 0.00 to 10 plf at 10.29
BC: 384 lb Conc. Load at 1.94
BC: 1571 lb Conc. Load at 3.94, 5.85, 7.85, 9.18

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 2-10-12.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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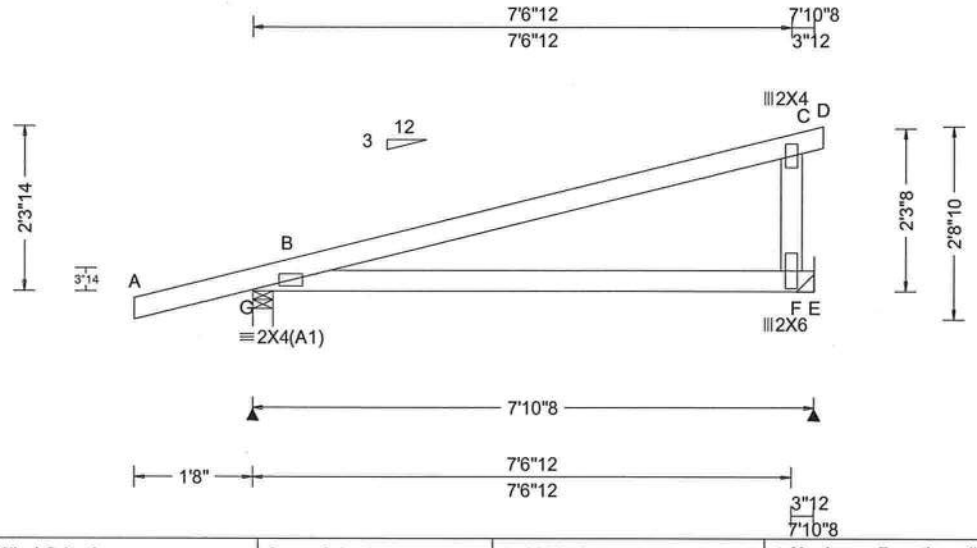
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609833 / MONO FROM: CDM	Ply: 1 Qty: 17	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M04	Cust: R R215 JRef: 1WJ12150001 T32 / DrwNo: 060.19.0742.25725 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.018 F - -
HORZ(TL): 0.035 F - -
Creep Factor: 2.0
Max TC CSI: 0.727
Max BC CSI: 0.536
Max Web CSI: 0.344

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	438	/-	/-	/240	/104	/69
E	313	/-	/-	/162	/66	/-

Wind reactions based on MWFRS
G Brg Width = 3.5 Min Req = 1.5
E Brg Width = - Min Req = -
Bearing G 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

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 2-3-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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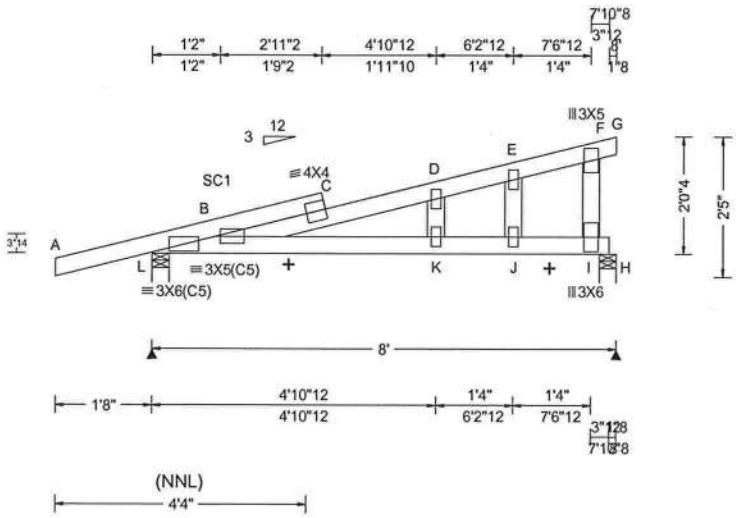
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609772 / GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M05	Cust: R R215 JRef: 1WJ12150001 T31 / DrwNo: 060.19.0742.26100 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.141	K	632	240
VERT(CL): 0.273	K	325	180
HORZ(LL): 0.021	D	-	-
HORZ(TL): 0.041	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.635
Max BC CSI: 0.579
Max Web CSI: 0.247

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	447	/-	/-	/244	/106	/69
H	304	/-	/-	/159	/62	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	659	-753

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

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

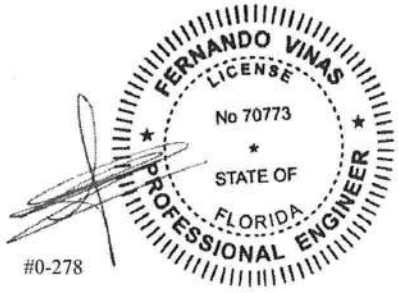
Additional Notes

Refer to General Notes for additional information

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is 2-0-4.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.



#0-278

03/04/2019

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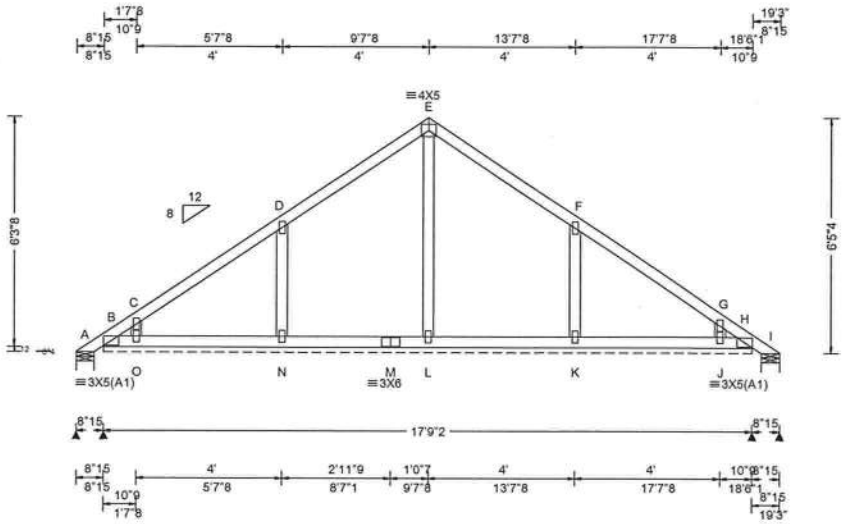
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609843 / COMN FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P01	Cust: R R215 JRef: 1WJ12150001 T9 / DrwNo: 060.19.0742.26817 KD / FV 03/01/2019



Loading Criteria (psf)

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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.44 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: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	E	999	240
VERT(CL): 0.002	E	999	180
HORZ(LL): 0.003	F	-	-
HORZ(TL): 0.003	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.220
Max BC CSI: 0.125
Max Web CSI: 0.123

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	16	/-	/-	/118	/103	/182
B*	84	/-	/-	/52	/30	/-
I	16	/-	/-	/15	/5	/-
O		/-166				
N		/-228				
K		/-229				
J		/-165				

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 213 Min Req = -
I Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & I are a rigid surface.
Members not listed have forces less than 375#

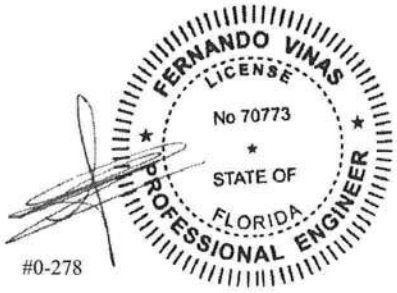
Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

Plating Notes
All plates are 2X4 except as noted.

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
Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is 6-5-4.



#0-278

03/04/2019

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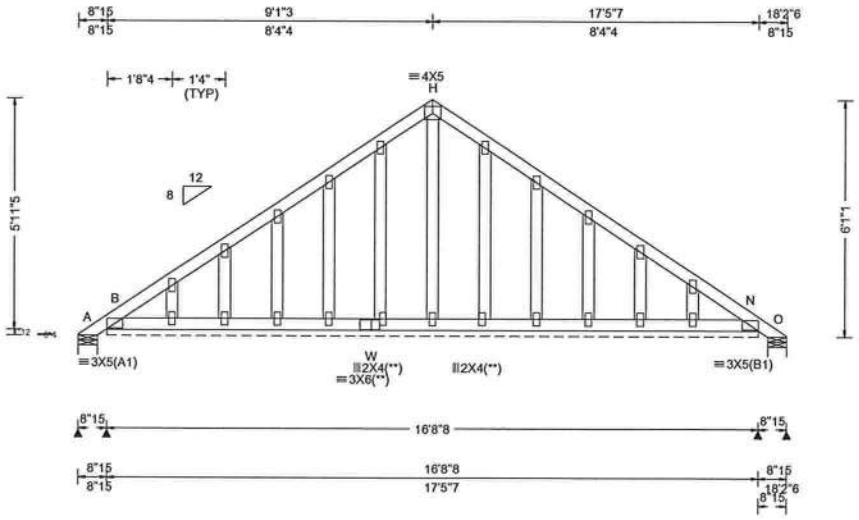
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609845 / GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P02	Cust: R R215 JRef: 1WJ12150001 T13 / DrwNo: 060.19.0742.26661 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.26 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: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	H	999	240
VERT(CL): 0.001	H	999	180
HORZ(LL): 0.002	K	-	*-
HORZ(TL): 0.003	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.055
Max BC CSI: 0.031
Max Web CSI: 0.074

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	15	/-	/-	/110	/97	/171
B*	76	/-	/-	/52	/31	/-
O	15	/-	/-	/13	/2	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 200 Min Req = -
O Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & O 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.

(**) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 6-1-1.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

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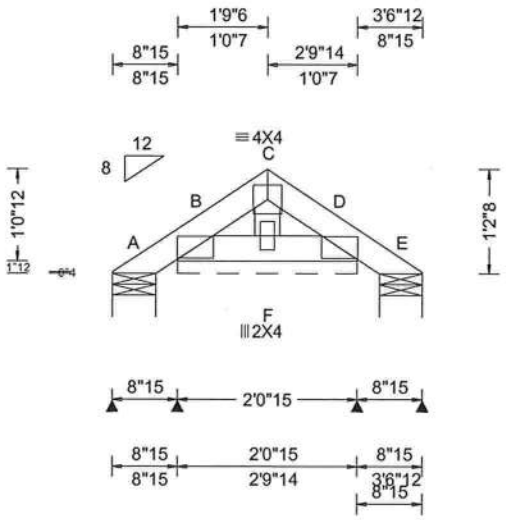
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609848 / COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P04	Cust: R R215 JRef: 1WJ12150001 T29 / DrwNo: 060.19.0742.26241 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.07 ft
TCDL: 5.0 psf
BCDL: 2.0 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	F	999	240
VERT(CL): 0.000	F	999	180
HORZ(LL): 0.000	F	-	-
HORZ(TL): 0.000	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.014
Max BC CSI: 0.007
Max Web CSI: 0.006

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	19	/-	/-	/27	/12	/30
B*	83	/-	/-	/63	/11	/-
E	19	/-	/-	/19	/5	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 24.9 Min Req = -
E Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & E 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 3X5(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 1-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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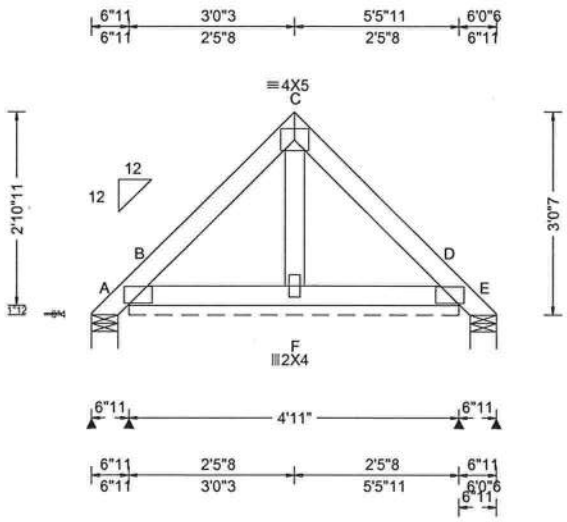
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609850 / COMN FROM: CDM	Ply: 1 Qty: 28	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P05	Cust: R R215 JRef: 1WJ12150001 T42 / DrwNo: 060.19.0742.26427 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.87 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: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	F	999	240
VERT(CL): 0.000	F	999	180
HORZ(LL): 0.001	F	-	-
HORZ(TL): 0.001	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.093
Max BC CSI: 0.047
Max Web CSI: 0.014

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-29	/-	/96	/99	/93
B*	94	/-	/-	/75	/42	/-
E	-	/-29	/-	/37	/28	/-

Wind reactions based on MWFRS
A Brg Width = 4.7 Min Req = 1.5
B Brg Width = 59.0 Min Req = -
E Brg Width = 4.7 Min Req = 1.5
Bearings A, B, & E 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 3X5(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 3-0-7.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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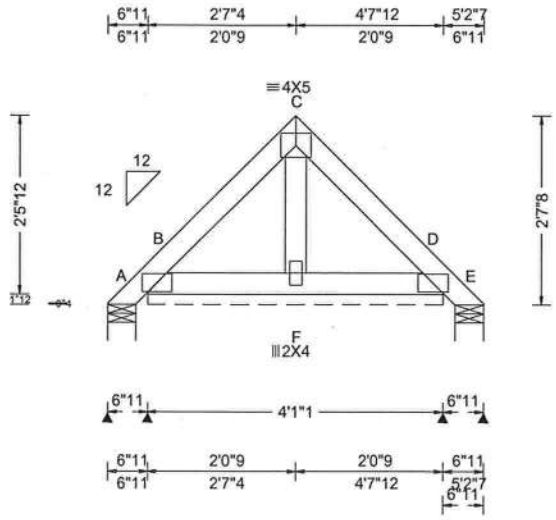
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609853 / COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P06	Cust: R R215 JRef: 1WJ12150001 T43 / DrwNo: 060.19.0742.26708 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.66 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: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	F	999	240
VERT(CL): 0.000	C	999	180
HORZ(LL): 0.001	F	-	-
HORZ(TL): 0.001	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.064
Max BC CSI: 0.032
Max Web CSI: 0.012

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-		/ Rh	/ Rw	/ U / RL
A	-	/-11	/-	/80	/75 /79
B*	90	/-	/-	/74	/37 /-
E	-	/-11	/-	/23	/14 /-

Wind reactions based on MWFRS
A Brg Width = 4.7 Min Req = 1.5
B Brg Width = 49.1 Min Req = -
E Brg Width = 4.7 Min Req = 1.5
Bearings A, B, & E 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 3X5(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 2-7-8.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

03/04/2019

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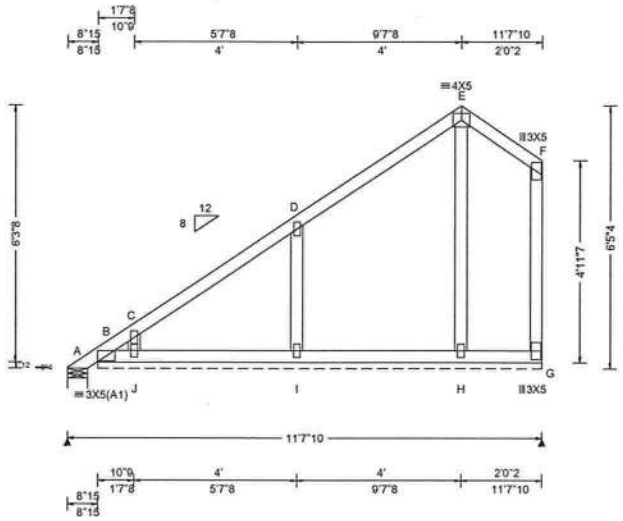
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609856 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P07	Cust: R R215 JRef: 1WJ12150001 T34 / DrwNo: 060.19.0742.26164 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.32 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	E	999	240
VERT(CL): 0.002	E	999	180
HORZ(LL): -0.001	F	-	-
HORZ(TL): 0.002	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.119
Max Web CSI: 0.115

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	20	/-	/-	/90	/40	/140
B*	87	/-	/-	/54	/13	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 130 Min Req = -
Bearings A & B 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.

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

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 6-5-4.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

03/04/2019

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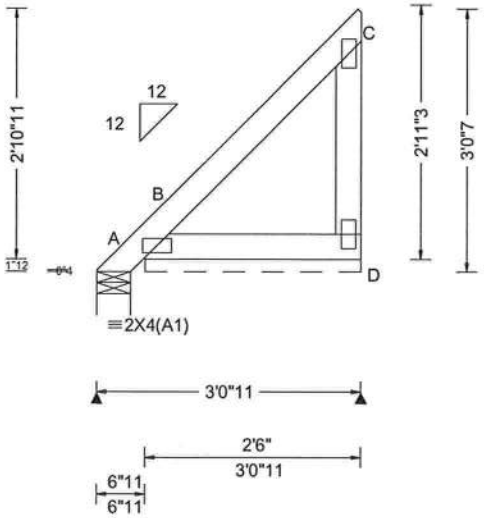
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609861 / MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P08	Cust: R R215 JRef: 1WJ12150001 T48 / DrwNo: 060.19.0742.25683 KD / FV 03/01/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.000 C - -
HORZ(TL): 0.001 C - -
Creep Factor: 2.0
Max TC CSI: 0.069
Max BC CSI: 0.020
Max Web CSI: 0.014

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-35	/-	/-	/-	/-
B*	97	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
A Brg Width = 4.7 Min Req = 1.5
B Brg Width = 30.0 Min Req = -
Bearings A & B 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.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-0-7.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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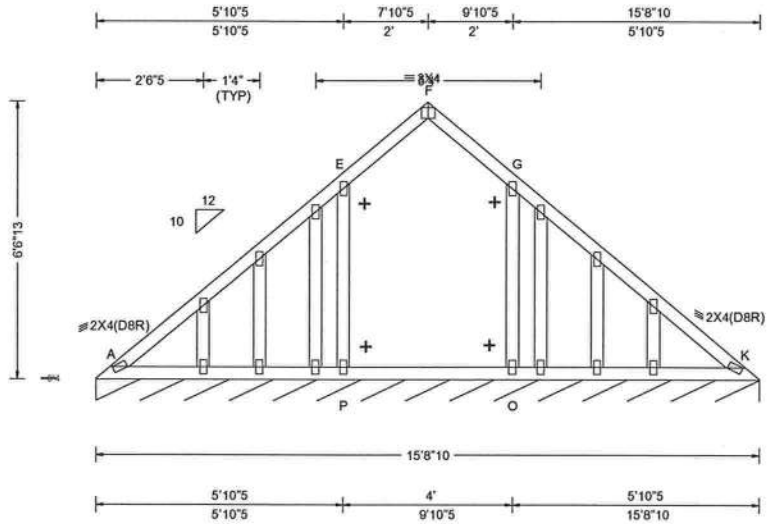
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609859 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701D /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** V01	Cust: R R215 JRef: 1WJ12150001 T5 / DrwNo: 060.19.0742.26333 KD / FV 03/01/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.55 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: 1.25

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

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

Defl/CSI Criteria

	loc	L/defl	L/#
PP Deflection in			
VERT(LL): 0.002	F	999	240
VERT(CL): 0.005	F	999	180
HORZ(LL): -0.003	E	-	-
HORZ(TL): 0.005	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.059
Max BC CSI: 0.117
Max Web CSI: 0.051

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K*	85	/-	/-	/47	/11	/12

Wind reactions based on MWFRS
K Brg Width = 188 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

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

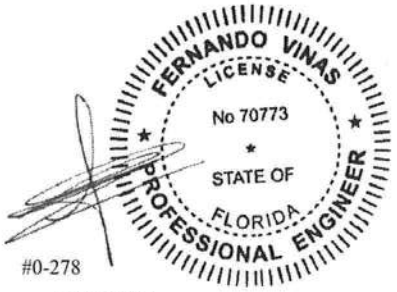
Additional Notes

Refer to General Notes for additional information

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 6-6-13.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.



#0-278

03/04/2019

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

Gable Stud Reinforcement Detail

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

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable 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' braces: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

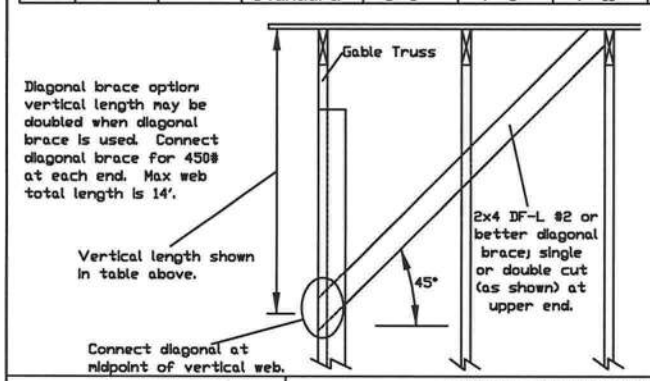
'L' bracing must be a minimum of 80% of web member length.

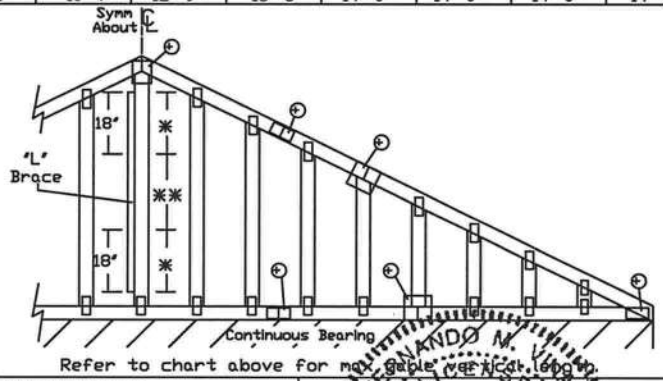
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

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

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





Refer to chart above for max. gable vertical length.

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FERNANDO M. VIVAS LICENSE NO. 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/01/2019

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB14015
DATE	10/01/14
DRWG	A14015ENC101014

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

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace * Group A	(1) 1x4 'L' Brace * Group B	(1) 2x4 'L' Brace * Group A	(1) 2x4 'L' Brace * Group B	(2) 2x4 'L' Brace ** Group A	(2) 2x4 'L' Brace ** Group B	(1) 2x6 'L' Brace * Group A	(1) 2x6 'L' Brace * Group B	(2) 2x6 'L' Brace ** Group A	(2) 2x6 'L' Brace ** Group B
24" 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"
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable 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.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

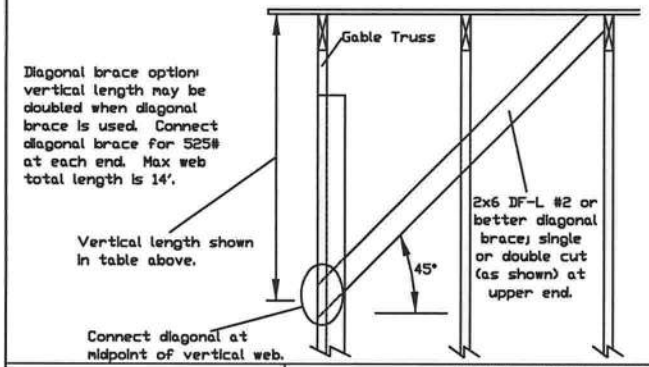
'L' bracing must be a minimum of 80% of web member length.

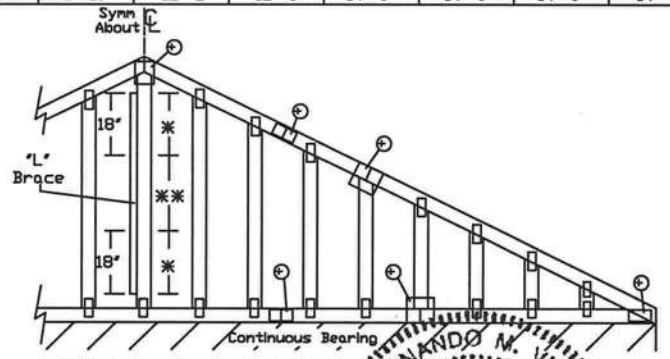
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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





Refer to chart above for max. gable vertical length.

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

FERNANDO M. VIEIRA LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

03/04/2019

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB14030
DATE	10/01/14
DRWG	A14030ENC101014

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

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

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

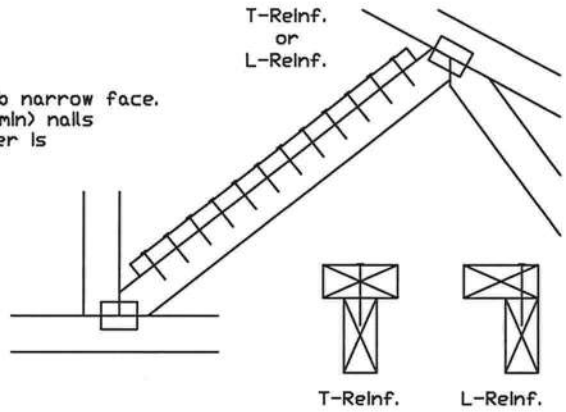
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4 (*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6 (*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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

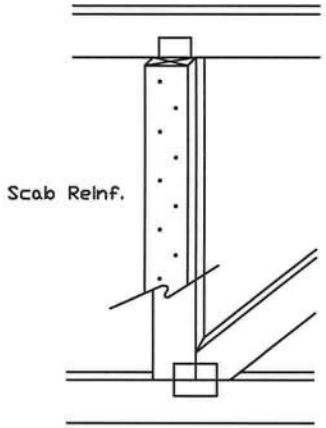
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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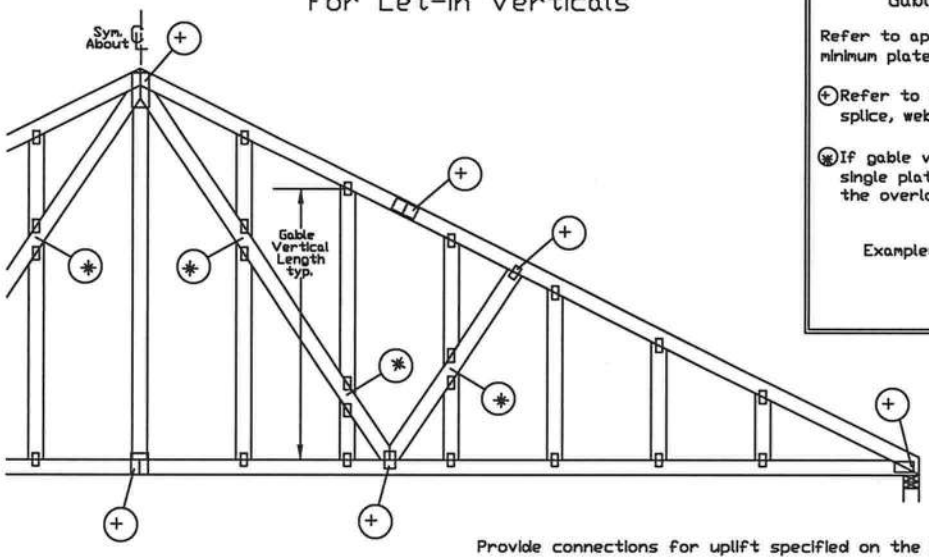
STATE OF FLORIDA
PROFESSIONAL ENGINEER
03/04/2019

TC	LL	PSF	REF	CLR Subst.
TC	DL	PSF	DATE	01/02/19
BC	DL	PSF	DRWG	BRCLBSUB0119
BC	LL	PSF		
TOT.	L.D.	PSF		
DUR. FAC.				
SPACING				

Gable Detail
For Let-in Verticals



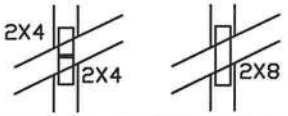
Gable Truss Plate Sizes

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

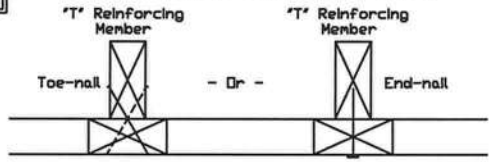
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



'T' Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

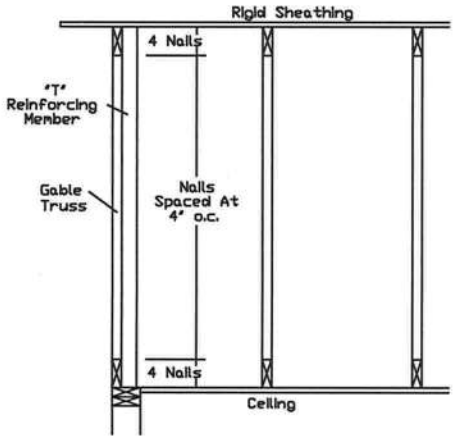
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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

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

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

Web Length Increase w/ 'T' Brace

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

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, 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"

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No 70773
STATE OF FLORIDA
PROFESSIONAL ENGINEER
03/04/2019

#0-278

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

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

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

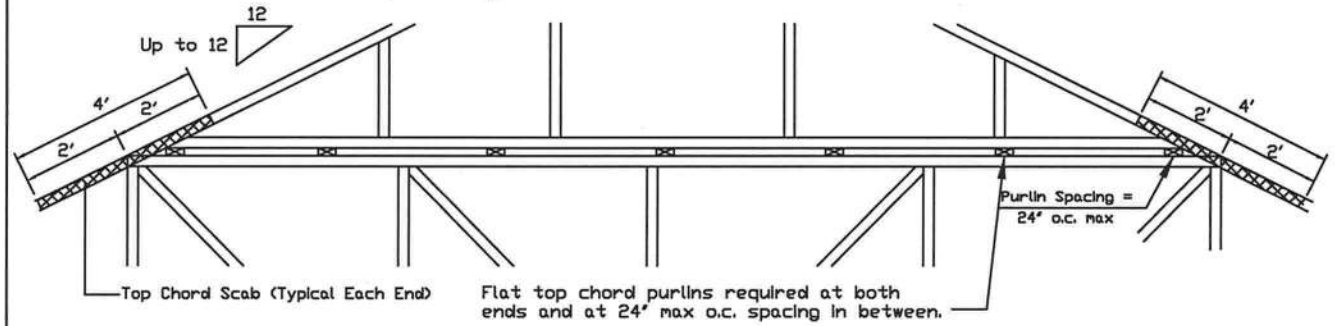
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

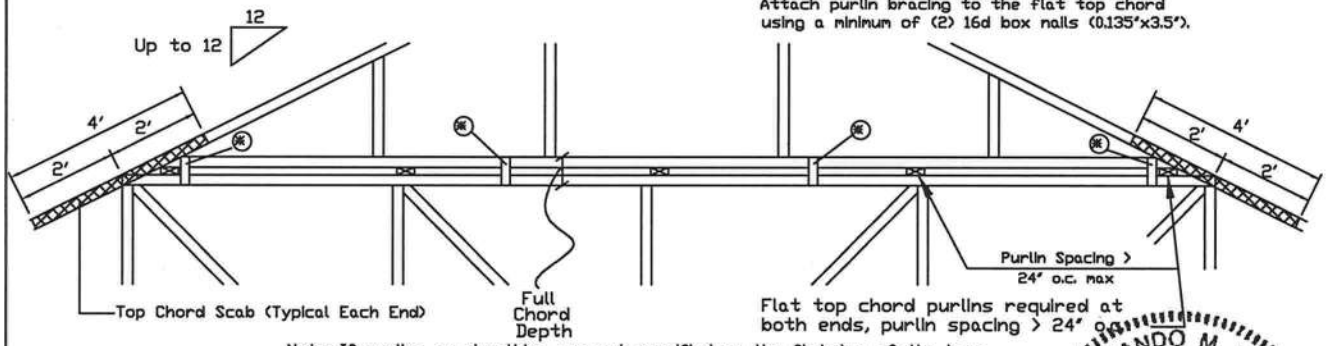
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC 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").



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

* 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 Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"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.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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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 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 & bracing of trusses.

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

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

FERNANDO M. VINAS
LICENSE
No 70773
STATE OF FLORIDA
PROFESSIONAL ENGINEER

03/04/2019

REF	PIGGYBACK
DATE	10/01/14
DRWG	PB160101014
SPACING	24.0"

Schafer Engineering LLC

14705 Main St. Alachua FL 32615

E

Prepared for:

CONNER RESIDENCE
COLUMBIA COUNTY, FLORIDA

By:

Schafer Engineering, LLC **CA9312**

386-462-1340

NO COPIES ARE TO BE PERMITTED

SCHAFER ENGINEERING, LLC
7104 NW 42ND LANE \ GAINESVILLE FL. 32606
PHONE: 386-462-1340

Trusses: Pre-engineered, pre-fabricated with the manufacturer's required bracing system installed.

Roof Sheathing: Type: OSB Size: 7/16" Fastener type nails: 8d / .113 Ring Shank

Interior zone spacing: Interior: 6" Periphery: 4"

Edge and end zone spacing: Interior: 6" Periphery: 4"

Double Top Plate: Type: Spruce Grade: #2 Size: 2 x 4 Nail Spacing: 8" o.c.

Stud Type: Spruce Grade: #2 Size: 2 x 4

Interior stud spacing: 16" End stud spacing: 16"

Required Shear Wall Siding: Type: OSB Thickness: 7/16"

118 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"

60 ft Long: Fastener 8d/131 Spacing: Int: 8 Edge: 4"

Allowable Unit Shear on Shear Walls: 314 pounds per linear foot

Allowable Unit Shear Transferred from Diaphragm: Trans: 276 Long: 164

Wall Tension Transferred by: Siding Nails: 8d/131 @ 4" O.C. Edges

Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"

Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"

Anchor Bolts @ 48" o.c. Model: A307 Loc. from corner: 8"

Type of Foundation: (1) - #5 rebar continuous required in bond beam.

Floor Slab: 4" Cmu size: 8" x 16" Height: 32" Rein.: #5 at 72" o.c.

Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebars

Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar

Interior Footings 20" Wide X 12" Deep with 2-#5 rebar continuous

Porch Columns: 6 X 6 X 9' syp #2 pt @ 12'-0" o.c. max. spacing Column Fasteners: Simpson PC66 \ PBS66 or equal

Special Comments: Install 2 ply 2 x 12 syp #2 with 7/16" osb flitch beam over all doors, windows and covered porches.

Notes:

1. Balloon frame all gable ends unless accompanied by gable end detail
2. All walls to be nailed with same nailing pattern as the shear walls.
3. This wind load is not valid without a raised, embossed seal. (NO COPIES).
4. 1500 psf soil bearing pressure minimum.
5. Fiber mesh or WWM may be used in concrete slab. All steel must be grade 40 min. Install standard 10" ACI hook top and bottom.
6. Trusses must be installed and anchored in accordance to the truss engineering.
7. All headers spanning 12' and over must be pre-engineered.
8. This is a windload only. Not a structural analysis. Schafer Engineering strongly recommends always having a structural analysis.
9. The foundation is for minimum design use, and may be increased.
10. Wind load is for one use only \ FBC-2017 \ No copies permitted
11. Install anchor bolts a 48" o.c., & Simpson SP1 at bottom plate and Simpson SP2 at top plate or equal @ 32" O.C. for all interior bearing walls.
12. Truss company to use all exterior porch walls for bearing when possible.

11-2-16

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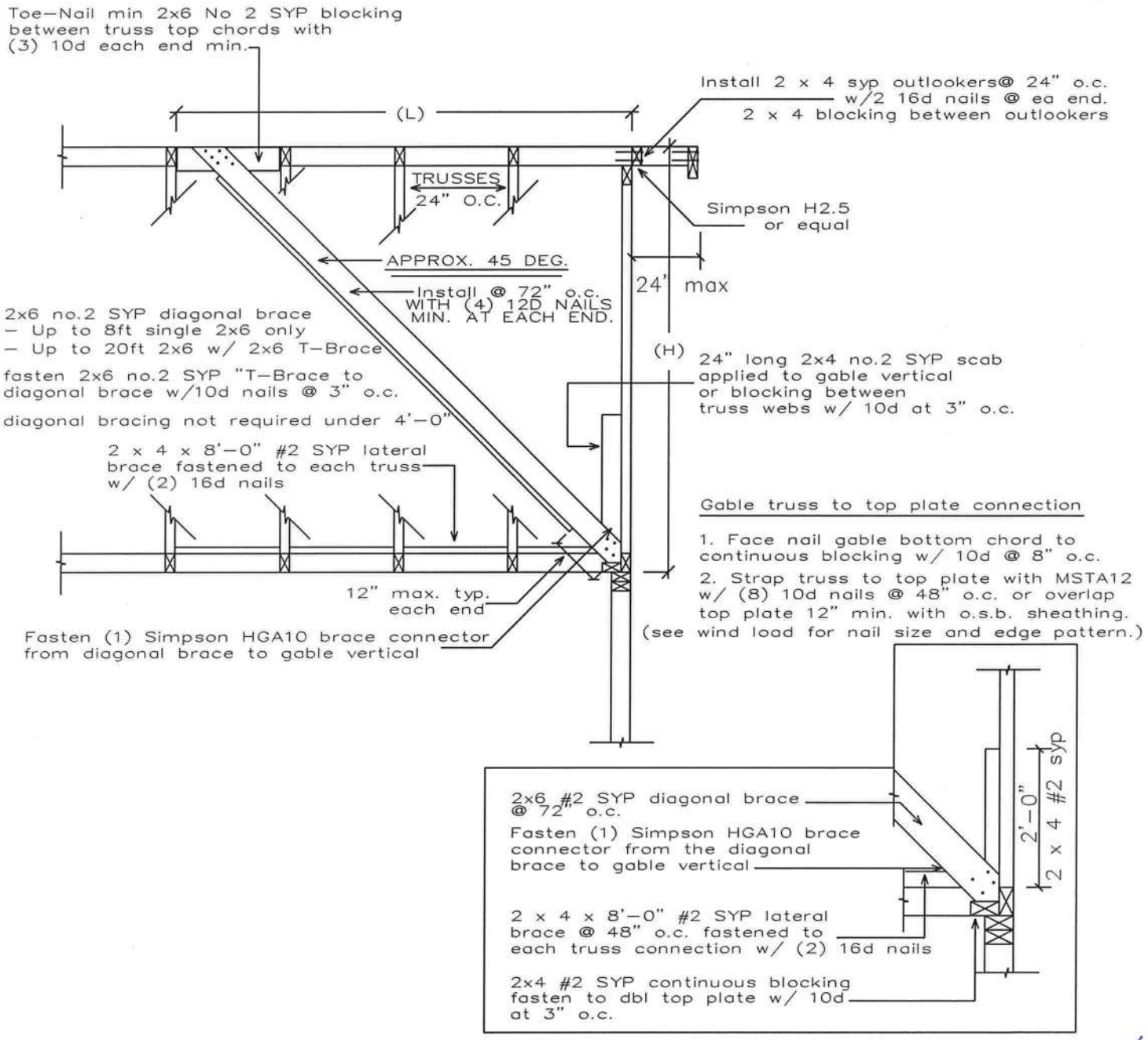

TYPICAL GABLE END BRACING

11-2-15

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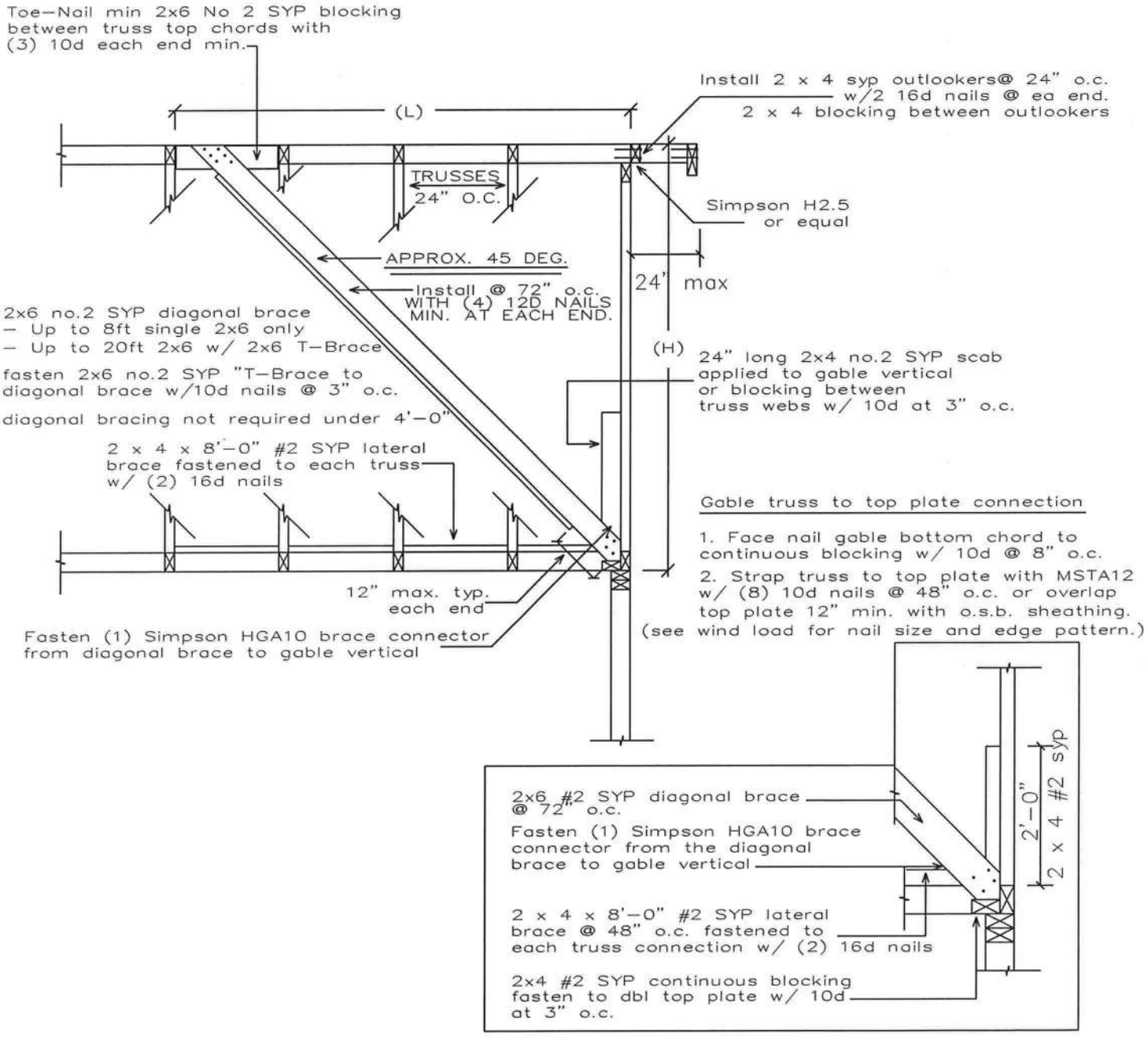

TYPICAL GABLE END BRACING

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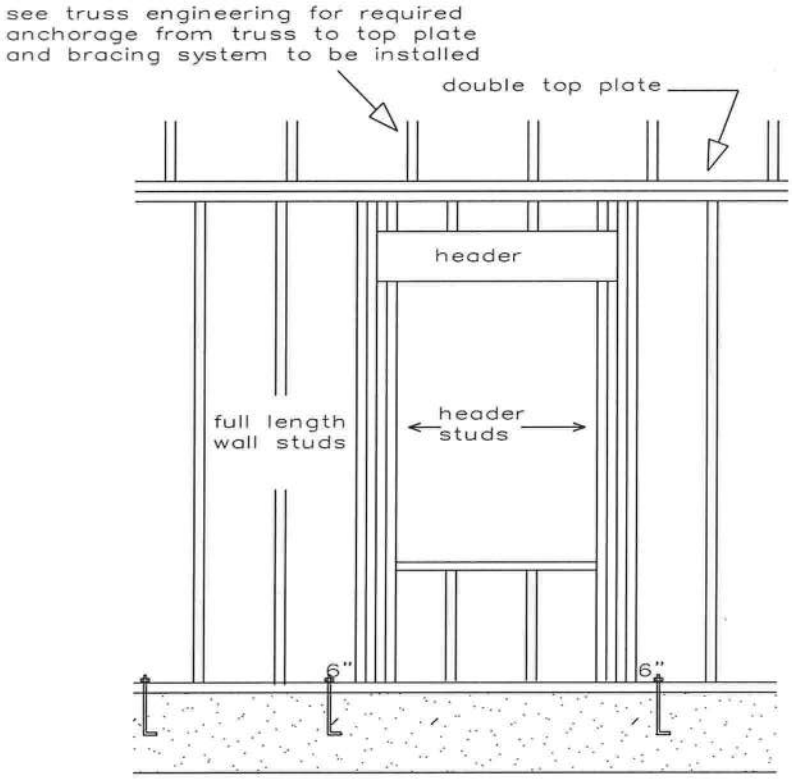

total each truss uplift on the header and divide by two for header and header stud anchorages

		Maximum Header Span (ft)					
		3'	6'	9'	12'	15'	18'
		Number of Header Studs Supporting End of Header					
		1	1	2	2	2	2
Unsupported Wall Height	Stud Spacing	Number of Full Length Studs at Each End of Header					
10'-0" or less	12"	2	2	3	3	3	3
	16"	2	2	3	3	3	3
	24"	1	2	2	2	2	2
Greater than 10'-0"	12"	2	2	3	4	5	5
	16"	2	2	3	3	4	4
	24"	1	2	2	2	3	3

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TIE-DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	H3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3130
Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.				

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540
Two 12d common toenials are required per truss for each bearing point into top plate. It is the contractors responsibility to provide a continuous load path from truss to foundation.			

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

1. Simpson or equivlent hardware may be used.
   For nailing into spruce members, multiply table values by .86
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values of any manufactures values.

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	135	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	45	Deg
Type of Roof	Gabled	
Eave Height (Eht)	9.00	ft
Ridge Height (RHt)	27.83	ft
Mean Roof Height (Ht)	18.42	ft
Width Perp. to Wind (B)	70.00	ft
Width Parallel to Wind (L)	66.66	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.28
Flexible Structure	No

Calculated Parameters		
Importance Factor	1	
Non-Hurricane, Hurricane (v=85-100 mph) & Alaska		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
lzm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8819	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8553	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	198.00	ft/s
Vzm	bm*(zm/33)^Am*Vhref	87.00	ft/s
NF1	NatFreq*Lzm/Vzm	3.56	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0627	
Nh	4.6*NatFreq*Ht/Vzm	0.97	
Nb	4.6*NatFreq*B/Vzm	3.70	
Nd	15.4*NatFreq*Depth/Vzm	11.80	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5748	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.2337	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0812	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.6920	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.06	

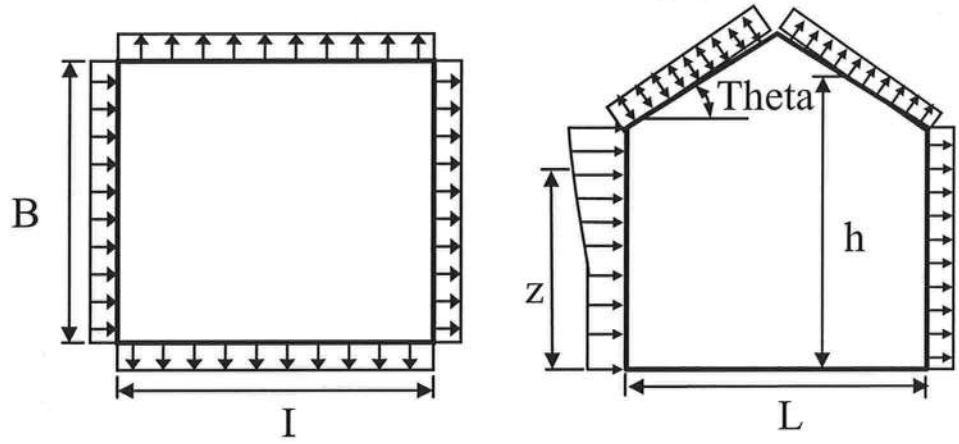
Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.86	Gust Factor (G)	0.86

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windward Wall*	
ft			1.00	lb/ft^2	+GCpi	-GCpi
27.83	0.70	1.00	1.00	32.69	17.25	27.48
20	0.70	1.00	1.00	32.69	17.25	27.48
18.42	0.70	1.00	1.00	32.69	17.25	27.48
15	0.70	1.00	1.00	32.69	17.25	27.48

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.61	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	28.43	psf

Wall Pressure Coefficients, Cp	
Surface	**Cp**
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 70 ft wall)	-0.50	-17.28	-7.04
Leeward Walls (Wind Dir Parallel to 66.66 ft wall)	-0.49	-17.03	-6.80
Side Walls	-0.70	-22.14	-11.91
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	0.00	0.00	0.00
Windward - Max Positive	0.00	0.00	0.00
Leeward Normal to Ridge	-0.60	-19.71	-9.47
Overhang Top	0.00	0.00	0.00
Overhang Bottom	0.80	0.68	0.68
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 9.21 ft	-0.90	-27.01	-16.77
Dist from Windward Edge: 9.21 ft to 18.42 ft	-0.90	-27.01	-16.77
Dist from Windward Edge: 18.42 ft to 36.84 ft	-0.50	-17.28	-7.04
Dist from Windward Edge: > 36.84 ft	-0.30	-12.41	-2.18

* Horizontal distance from windward edge

Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	28.43

Case A						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	0.56	0.18	-0.18	32.69	12.42	24.19
2	0.21	0.18	-0.18	32.69	0.98	12.75
3	-0.43	0.18	-0.18	32.69	-19.94	-8.17
4	-0.37	0.18	-0.18	32.69	-17.98	-6.21
5	0.00	0.18	-0.18	32.69	-5.88	5.88
6	0.00	0.18	-0.18	32.69	-5.88	5.88
1E	0.69	0.18	-0.18	32.69	16.67	28.44
2E	0.27	0.18	-0.18	32.69	2.94	14.71
3E	-0.53	0.18	-0.18	32.69	-23.21	-11.44
4E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
5E	0.00	0.18	-0.18	32.69	-5.88	5.88
6E	0.00	0.18	-0.18	32.69	-5.88	5.88

* p = qh * (GCpf - GCpi)

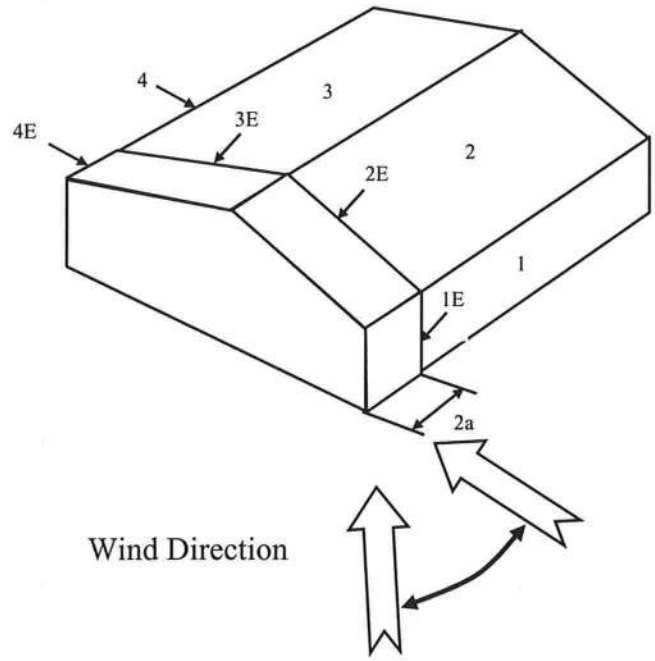


Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	28.43

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	32.69	-20.59	-8.83
2	-0.69	0.18	-0.18	32.69	-28.44	-16.67
3	-0.37	0.18	-0.18	32.69	-17.98	-6.21
4	-0.45	0.18	-0.18	32.69	-20.59	-8.83
5	0.40	0.18	-0.18	32.69	7.19	18.96
6	-0.29	0.18	-0.18	32.69	-15.36	-3.60
1E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
2E	-1.07	0.18	-0.18	32.69	-40.86	-29.09
3E	-0.53	0.18	-0.18	32.69	-23.21	-11.44
4E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
5E	0.61	0.18	-0.18	32.69	14.06	25.82
6E	-0.43	0.18	-0.18	32.69	-19.94	-8.17

* p = qh * (GCpf - GCpi)

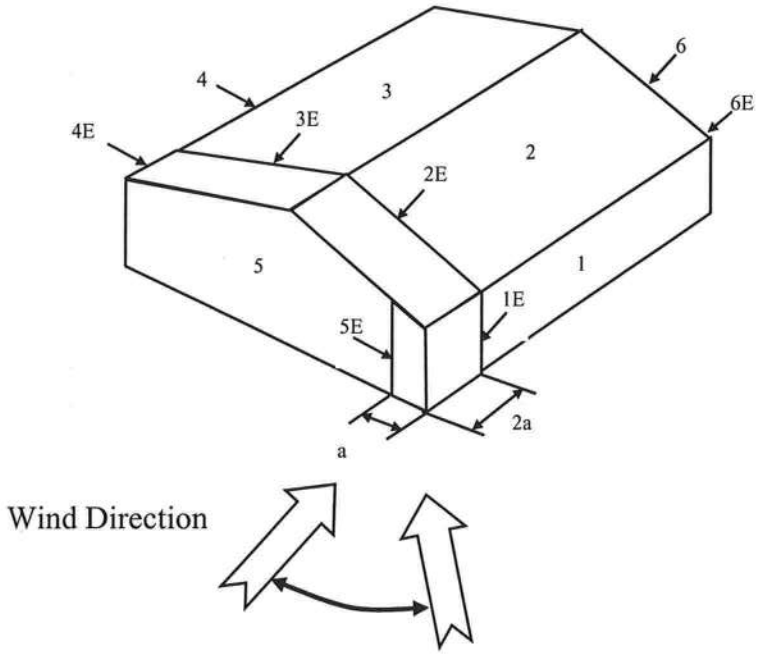
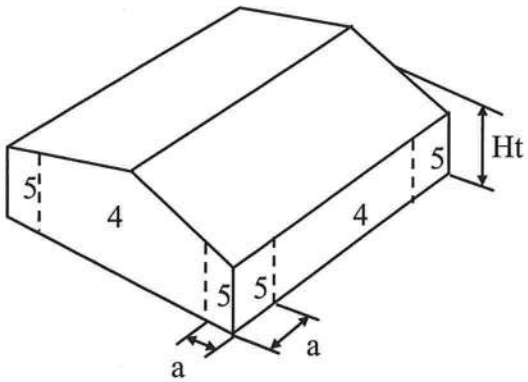
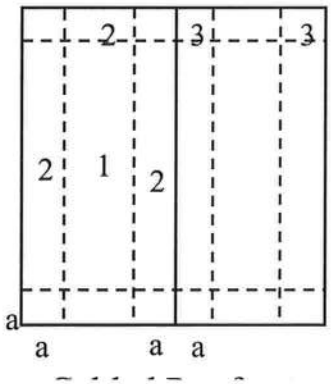


Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





a

Gabled Roof
10 < Theta <= 45

a = 6.666 ==> 6.67 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp		Wind Press (lb/ft^2)	
					Max	Min	Max	Min
	16	7	112.00	5	0.81	-1.03	28.28	-34.39
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

Revised 7/1/18

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable		
				Select From Drop down		
1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	**Condition space (Sq. Ft.)**	2732 SF	**Total (Sq. Ft.) under roof** 4196 SF	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/m²), to be used for the design of exterior component, cladding materials not specifally 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)

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

FBCR 403: Foundation Plans

Select From Drop down

30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	-		
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 valve of soil 1500 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 lapped 6 inches and sealed)	-		
36	Show control joints, synthetic fiber reinforcement or welded fire 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**	-		

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 priers	-	✓	
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	-	✓	
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
		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	-		
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	-		

FBCR Chapter 11 Energy Efficiency Code for Residential Building

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		Select from Drop Down		
74	Show the insulation R value for the following areas of the structure	-		
75	Attic space	-		
76	Exterior wall cavity	-		
77	Crawl space	-	✓	

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

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

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-		
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**	-		
88	Show the location of smoke detectors & Carbon monoxide detectors	-		
89	Show service panel, sub-panel, location(s) and total ampere ratings	-		
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	-		
91	Appliances and HVAC equipment and disconnects	-		
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.	-		

Notice Of Commencement:

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

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

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

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

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.

Disclosure Statement for Owner Builders:

If you as the Applicant will be acting as your own contractor or owner/builder under section 489.103(7) Florida Statutes, you must submit the required notarized Owner Builder Disclosure Statement form.

**This form can be printed from the Columbia County Website on the Building and Zoning page under Documents. Web address is - http://www.columbiacountyfla.com/BuildingandZoning.asp

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

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

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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

NOTES: _____

_____

_____

FLORIDA PRODUCT APPROVALS
10-16-15

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	Anderson	Series 400	FL-1091.1
		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
Underlayment:	Woodland	30# Felt	FL-17206-R3
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
LP-siding	L.P.	Siding	SIDING FL-9990 FL9103 Soffit
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

				CHECK
Project Name:	Connor - Wilson	Builder Name:		
Street:	Suwannee County	Permit Office:		
City, State, Zip:	, FL ,	Permit Number:		
Owner:	Connor	Jurisdiction:		
Design Location:	FL, Gainesville			

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 94

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

1. New home or, addition	1. New (From Plans)
2. Single-family or multiple-family	2. Single-family
3. No. of units (if multiple-family)	3. 1
4. Number of bedrooms	4. 3
5. Is this a worst case? (yes/no)	5. No
6. Conditioned floor area (sq. ft.)	6. 2340
7. Windows, type and area	
a) U-factor:(weighted average)	7a. 0.350
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.250
c) Area	7c. 305.0
8. Skylights	
a) U-factor:(weighted average)	8a. NA
b) Solar Heat Gain Coefficient (SHGC)	8b. NA
9. Floor type, insulation level:	
a) Slab-on-grade (R-value)	9a. 0.0
b) Wood, raised (R-value)	9b.
c) Concrete, raised (R-value)	9c.
10. Wall type and insulation:	
A. Exterior:	
1. Wood frame (Insulation R-value)	10A1. 13.0
2. Masonry (Insulation R-value)	10A2.
B. Adjacent:	
1. Wood frame (Insulation R-value)	10B1. 13.0
2. Masonry (Insulation R-value)	10B2.
11. Ceiling type and insulation level	
a) Under attic	11a. 20.0
b) Single assembly	11b.
c) Knee walls/skylight walls	11c.
d) Radiant barrier installed	11d. No

12. Ducts, location & insulation level	
a) Supply ducts	R 6.0
b) Return ducts	R 6.0
c) AHU location	Main
13. Cooling system:	Capacity 42.5
a) Split system	SEER 14.5
b) Single package	SEER
c) Ground/water source	SEER/COP
d) Room unit/PTAC	EER
e) Other	
14. Heating system:	Capacity 40.0
a) Split system heat pump	HSPF 8.5
b) Single package heat pump	HSPF
c) Electric resistance	COP
d) Gas furnace, natural gas	AFUE
e) Gas furnace, LPG	AFUE
f) Other	
15. Water heating system	
a) Electric resistance	EF 0.95
b) Gas fired, natural gas	EF
c) Gas fired, LPG	EF
d) Solar system with tank	EF
e) Dedicated heat pump with tank	EF
f) Heat recovery unit	HeatRec%
g) Other	
16. HVAC credits claimed (Performance Method)	
a) Ceiling fans	
b) Cross ventilation	No
c) Whole house fan	No
d) Multizone cooling credit	
e) Multizone heating credit	
f) Programmable thermostat	Yes

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

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

Builder Signature: _____ Date: 2-27-19

Address of New Home: Suwannee County City/FL Zip: , FL

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Connor - Wilson	Builder Name:	
Street:	Suwannee County	Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:	Connor	Jurisdiction:	
Design Location:	FL, Gainesville	County:	Suwannee (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	2340
Conditioned floor area below grade (ft²)	0

7. Windows(305.0 sqft.)	Description	Area
a. U-Factor: SHGC:	Dbl, U=0.35 SHGC=0.25	305.00 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
Area Weighted Average Overhang Depth:		1.000 ft.
Area Weighted Average SHGC:		0.250

8. Floor Types (2340.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2340.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (2693.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	2206.30 ft²
b. Frame - Wood, Adjacent	R=13.0	486.75 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (2340.0 sqft.)	Insulation	Area
a. Roof Deck (Unvented)	R=20.0	2340.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	468

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	42.5	SEER:14.50

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	40.0	HSPF:8.50

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.950
b. Conservation features: None

15. Credits — Pstat

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

Glass/Floor Area: 0.130

Total Proposed Modified Loads: 60.90
Total Baseline Loads: 64.69

PASS

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

PREPARED BY: David Marrs
DATE: 2/27/19

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

OWNER/AGENT: _____
DATE: 2-27-19

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

BUILDING OFFICIAL: _____
DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Connor - Wilson	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2340	Lot #	
Owner Name:	Connor	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	Suwannee County
Permit Office:		Cross Ventilation:	No	County:	Suwannee
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Block1	2340	22698

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2340	22698	Yes	4	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	230.5 ft	0	2340 ft²	----	0.48	0	0.52

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or Shed	Composition shingles	2617 ft²	586 ft²	Medium	N	0.85	N	0.85	No	20	26.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	2340 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Unvented)	Main	20	Blown	2340 ft²	0.11	Wood

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___	1	N	Exterior	Frame - Wood	Main	13	48	6	9	0	436.5 ft²	0	0.23	0.6	0
___	2	E	Exterior	Frame - Wood	Main	13	42	6	10	0	425.0 ft²	0	0.23	0.6	0
___	3	S	Exterior	Frame - Wood	Main	13	70	6	10	0	705.0 ft²	0	0.23	0.6	0
___	4	W	Exterior	Frame - Wood	Main	13	71	1	9	0	639.8 ft²	0	0.23	0.6	0
___	5	-	Garage	Frame - Wood	Main	13	54	1	9	0	486.8 ft²	0	0.23	0.01	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	E	Wood	Main	None	.25	3		8		24 ft²
_____	2	-	Wood	Main	None	.25	6		6	8	40 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	1	Metal	Low-E Double	Yes	0.35	0.25	N	7.5 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	2	E	2	Metal	Low-E Double	Yes	0.35	0.25	N	5.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	3	E	2	Metal	Low-E Double	Yes	0.35	0.25	N	72.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	4	E	2	Metal	Low-E Double	Yes	0.35	0.25	N	16.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	5	S	3	Metal	Low-E Double	Yes	0.35	0.25	N	40.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	6	S	3	Metal	Low-E Double	Yes	0.35	0.25	N	17.5 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	7	W	4	Metal	Low-E Double	Yes	0.35	0.25	N	40.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	8	W	4	Metal	Low-E Double	Yes	0.35	0.25	N	5.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	9	W	4	Metal	Low-E Double	Yes	0.35	0.25	N	12.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	10	W	4	Metal	Low-E Double	Yes	0.35	0.25	N	90.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	686 ft²	686 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000431	2648.1	145.38	273.4	.1753	7

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	Split	HSPF:8.5	40 kBtu/hr	1	sys#1

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	Split	SEER: 14.5	42.5 kBtu/hr	cfm	0.7	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.95	40 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	468 ft²	Attic	117 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans:

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

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 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

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

ADDRESS:	Suwannee County , 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/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

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

Exceptions:

1. Direct vent 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 [a] (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance 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.

wrightsoft

Project Summary
Entire House

Job: Connor
Date: 2/26/19
By: DJM

Project Information

For: Connor
Suwannee County, FL

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

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

Summer Design Conditions

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

Heating Summary

Structure	38088	Btuh
Ducts	6138	Btuh
Central vent (0 cfm) (none)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	44226	Btuh

Sensible Cooling Equipment Load Sizing

Structure	26952	Btuh
Ducts	7422	Btuh
Central vent (0 cfm) (none)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	33343	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2340	2340
Volume (ft³)	22636	22636
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	121	60

Latent Cooling Equipment Load Sizing

Structure	1935	Btuh
Ducts	1543	Btuh
Central vent (0 cfm) (none)	0	Btuh
Equipment latent load	3478	Btuh
Equipment Total Load (Sen+Lat)	36821	Btuh
Req. total capacity at 0.80 SHR	3.5	ton

Heating Equipment Summary

Make	Rheem
Trade	RHEEM
Model	RP1442FJ1NA
AHRI ref	8378847

Efficiency	8.5 HSPF	
Heating input		
Heating output	40000	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	1417	cfm
Air flow factor	0.032	cfm/Btuh
Static pressure	0.53	in H2O

Space thermostat
Capacity balance point = 36 °F

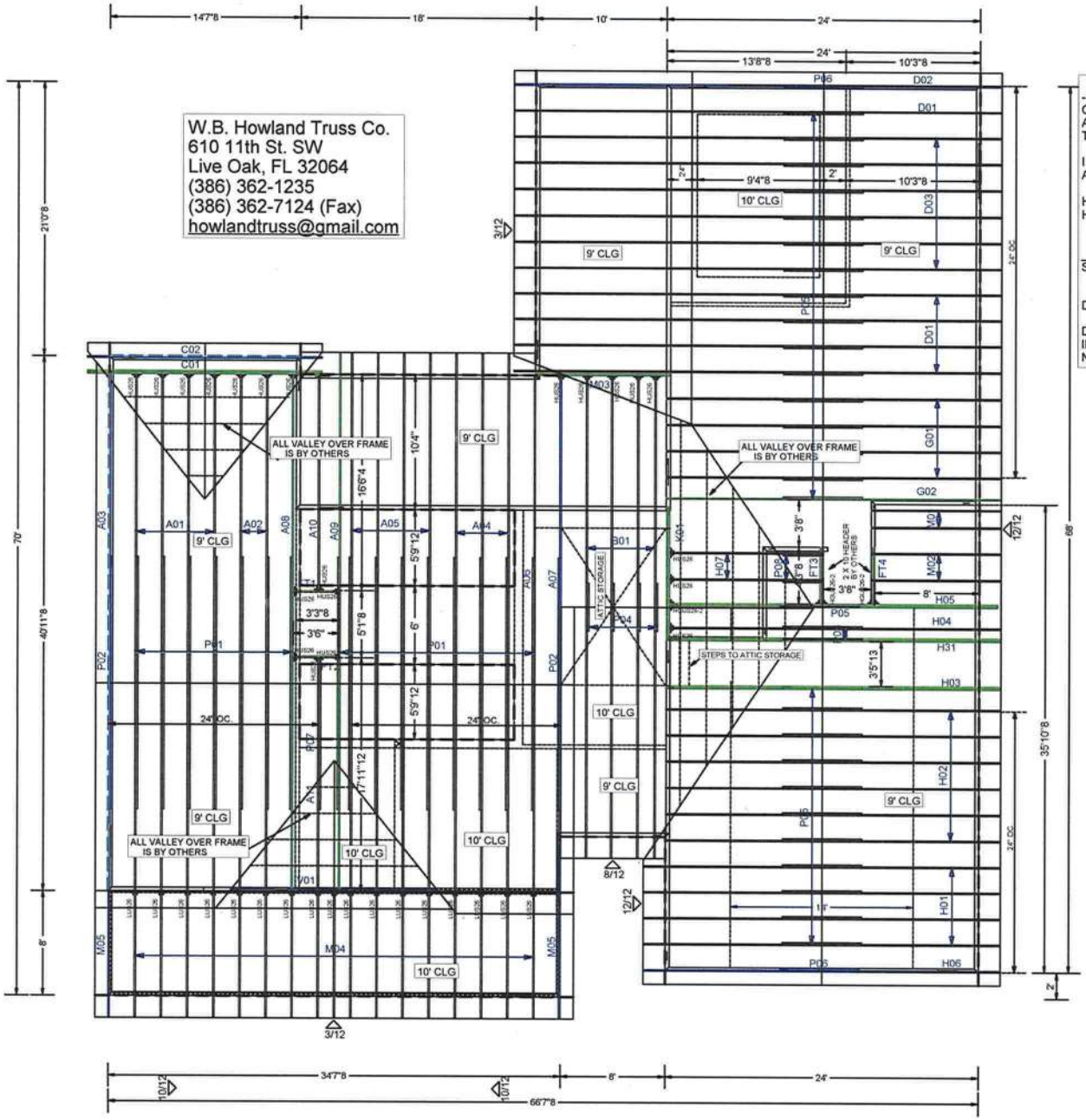
Backup:
Input = 9 kW, Output = 32259 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Rheem
Trade	RHEEM
Cond	RP1442FJ1NA
Coil	RH1T4821STANJA
AHRI ref	8378847

Efficiency	12.0 EER, 14.5 SEER	
Sensible cooling	34000	Btuh
Latent cooling	8500	Btuh
Total cooling	42500	Btuh
Actual air flow	1417	cfm
Air flow factor	0.041	cfm/Btuh
Static pressure	0.53	in H2O
Load sensible heat ratio	0.91	

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



W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

--IT IS THE RESPONSIBILITY OF THE CONTRACTOR / OWNER TO REVIEW, AND APPROVE THIS DESIGN PRIOR TO RELEASING TRUSSES FOR FABRICATION.

I HAVE REVIEWED THIS LAYOUT, AND THE ACCOMPANYING TRUSS DRAWINGS.

HAVING DONE SO I APPROVE THE DESIGN, AND HEREBY RELEASE THIS JOB FOR FABRICATION.

SIGNATURE

DATE: _____

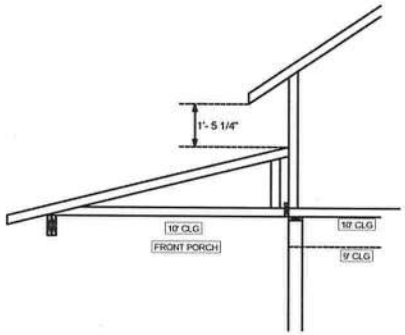
DO NOT SIGN & RELEASE JOB FOR FABRICATION IF THERE ARE ANY REVISIONS, OR CHANGES NEEDED!

ROOF PITCH: 3, 8. 10 & 12/12
CLG PITCH: FLAT

OVERHANG: 16" PI

LOADING: 40 PSF
WIND LOAD: 130 MPH
EXPOSURE: C
EXT WALLS: 2 X

DATE: 02/04/19

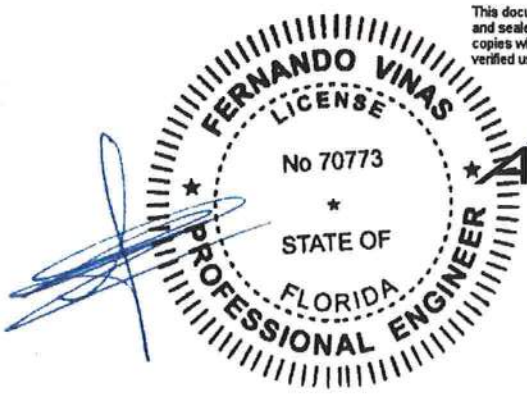


JOB #: 18-2701B

Job Name: CONNER RESIDENCE
Customer: COLUMBIA CONST.
Designer: Bob Glover
ADDRESS:
SALESMAN: DB
: <Not Found>

JOB NO:
18-2701B

PAGE NO:
1 OF 1



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ALPINE™
AN ITW COMPANY

#0-278
02/04/2019

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

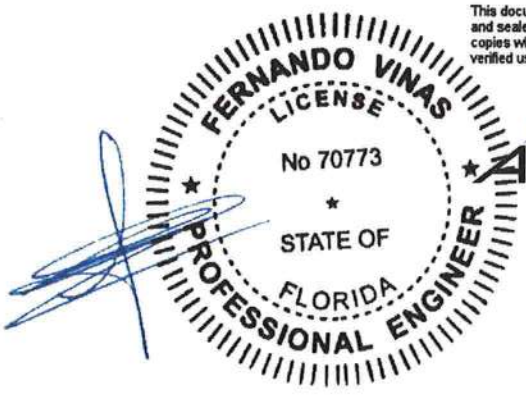
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 18-2701B
Job Description: /CONNER RESIDENCE /COLUMBIA CONST.	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC2017RES	*View Version:* 18.02.00.1126.20 *JRef #:* 1Wlc2150001
Wind Standard: ASCE 7-10 *Wind Speed (mph):* 130.000000	*Roof Load (pdf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 45 truss drawing(s) and 5 detail(s).

Item	Seal #	Truss
1	035.19.1041.13037	A01
3	035.19.1041.19670	A03
5	035.19.1041.23910	A05
7	035.19.1041.32123	A07
9	035.19.1048.02167	A09
11	035.19.1042.15297	A11
13	035.19.1048.20277	C01
15	035.19.1045.03677	D01
17	035.19.1042.38890	D03
19	035.19.1044.14313	FT2
21	035.19.1048.42220	FT4
23	035.19.1049.02170	G02
25	035.19.1049.08687	H02
27	035.19.1049.20663	H31
29	035.19.1050.41587	H05
31	035.19.1044.31460	H07

Item	Seal #	Truss
2	035.19.1041.15203	A02
4	035.19.1041.21830	A04
6	035.19.1041.27300	A06
8	035.19.1047.40247	A08
10	035.19.1042.09843	A10
12	035.19.1042.23770	B01
14	035.19.1048.37820	C02
16	035.19.1045.10307	D02
18	035.19.1042.53497	FT1
20	035.19.1044.45280	FT3
22	035.19.1048.44770	G01
24	035.19.1049.06333	H01
26	035.19.1049.10773	H03
28	035.19.1051.37547	H04
30	035.19.1050.50083	H06
32	035.19.1051.05930	K01



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ALPINE AN ITW COMPANY

#0-278
02/04/2019

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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:* 18-2701B
Job Description: /CONNER RESIDENCE /COLUMBIA CONST.	
Address: FL	

Item	Seal #	Truss
33	035.19.1045.30130	M01
35	035.19.1045.54497	M03
37	035.19.1046.20183	M05
39	035.19.1046.59317	P02
41	035.19.1047.08260	P05
43	035.19.1043.12797	P07
45	035.19.1043.50210	V01

Item	Seal #	Truss
34	035.19.1045.21313	M02
36	035.19.1044.51260	M04
38	035.19.1046.36300	P01
40	035.19.1047.02250	P04
42	035.19.1047.10263	P06
44	035.19.1043.15497	P08

General Notes

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

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

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

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

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

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

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

General Notes (continued)

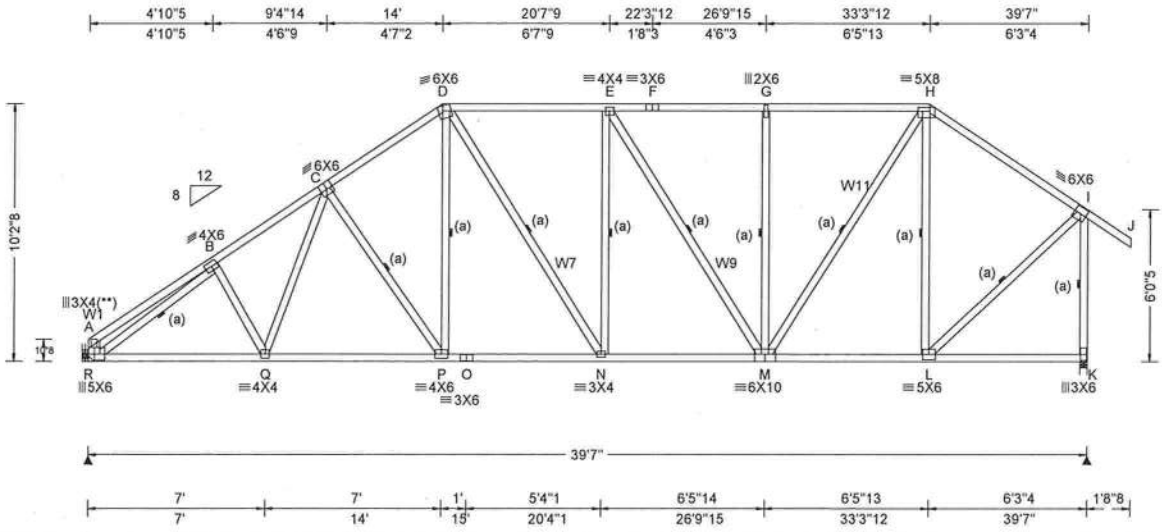
Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written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

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

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

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

SEQN: 609652 COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A01	Cust: R 215 JRef: 1Wlc2150001 T3 DrwNo: 035.19.1041.13037 KD / FV 02/04/2019	



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.96 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.125	N	999	240
VERT(CL): 0.227	N	999	180
HORZ(LL): 0.056	L	-	-
HORZ(TL): 0.102	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.493
Max BC CSI: 0.894
Max Web CSI: 0.590

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	1925	/-	/-	/1006	/270	/261
K	2066	/-	/-	/971	/323	/-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
K Brg Width = 3.5 Min Req = 2.4
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.
A - B	185	-478	E - F	629	-1778
B - C	764	-2720	F - G	629	-1778
C - D	721	-2333	G - H	629	-1779
D - E	695	-2046	H - I	463	-1416

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2228	-660	O - N	1876	-444
Q - P	2104	-564	N - M	2046	-493
P - O	1876	-444	M - L	1093	-239

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	544	-2415	M - H	1251	-334
C - P	211	-404	H - L	241	-750
D - P	622	-154	L - I	1478	-323
E - M	134	-505	I - K	613	-2025
G - M	191	-394			

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W7, W9, W11 2x4 SP #2:

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

Plating Notes
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

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.
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 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
02/04/2019

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

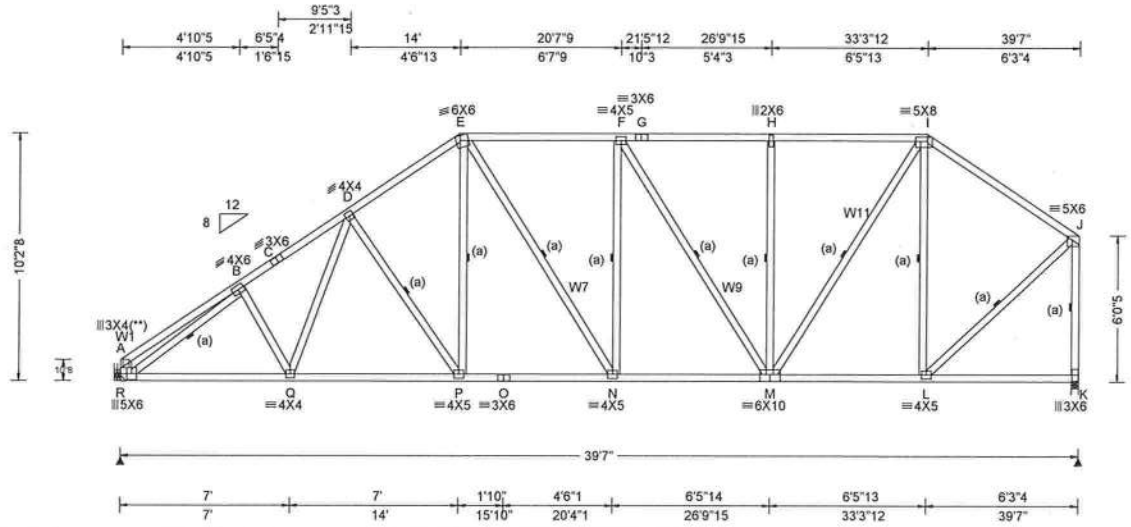
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 609655 COMN	Ply: 1	Job Number: 18-2701B	Cust: R 215 JRef: 1Wlc2150001 T1
FROM: CDM	Qty: 2	/CONNER RESIDENCE /COLUMBIA CONST.	DrwNo: 035.19.1041.15203
		Truss Label: A02	KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.96 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

	PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.125	N	999	240
VERT(CL):	0.227	N	999	180
HORZ(LL):	0.056	L	-	-
HORZ(TL):	0.103	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.900
Max Web CSI: 0.591

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	1927	/-	/-	/1009	/266	/220
K	1946	/-	/-	/871	/298	/-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
K Brg Width = 3.5 Min Req = 2.3
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.
A - B	184	-478	F - G	606	-1785
B - C	732	-2724	G - H	606	-1785
C - D	751	-2665	H - I	606	-1785
D - E	707	-2338	I - J	421	-1418
E - F	678	-2051			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2231	-697	O - N	1880	-480
Q - P	2108	-600	N - M	2051	-526
P - O	1880	-480	M - L	1104	-267

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	531	-2419	M - I	1243	-337
D - P	212	-405	I - L	266	-759
E - P	623	-155	L - J	1492	-361
F - M	140	-503	J - K	526	-1905
H - M	185	-388			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W7, W9, W11 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

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.

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 10-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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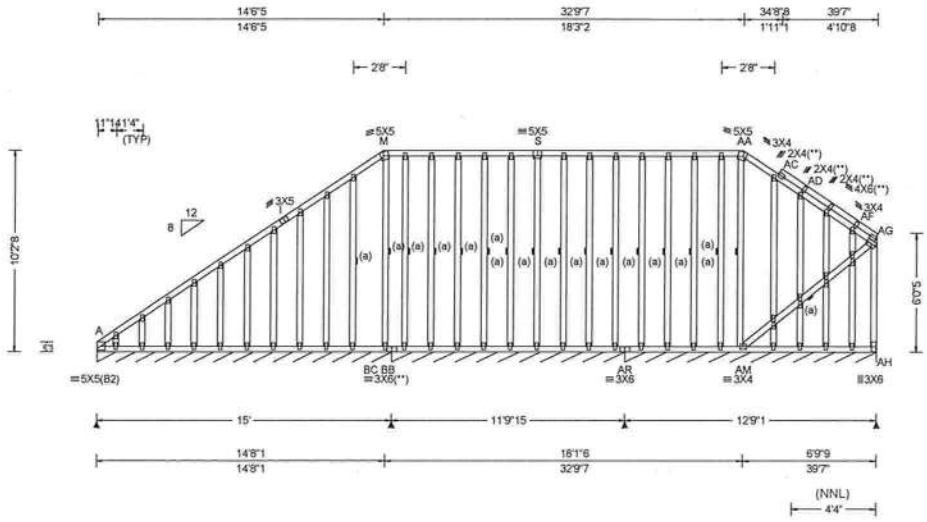
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609650 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A03	Cust: R 215 JRef: 1Wlc2150001 T38 DrwNo: 035.19.1041.19670 KD / FV 02/04/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲Maximum Reactions (lbs), or *=PLF**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.96 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	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): 0.001 AC 999 240 VERT(CL): 0.002 AC 999 180 HORZ(LL): -0.004 H - - HORZ(TL): 0.006 L - - Creep Factor: 2.0 Max TC CSI: 0.056 Max BC CSI: 0.075 Max Web CSI: 0.118 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A* 84 /- /- /61 /14 /15 BB*85 /- /- /41 /15 /- AR*83 /- /- /51 /14 /- Wind reactions based on MWFRS A Brg Width = 180 Min Req = - BB Brg Width = 141 Min Req = - AR Brg Width = 153 Min Req = - Bearings A, BB, & AR 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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

(**) 5 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

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

The overall height of this truss excluding overhang is 10-2-8.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

02/04/2019

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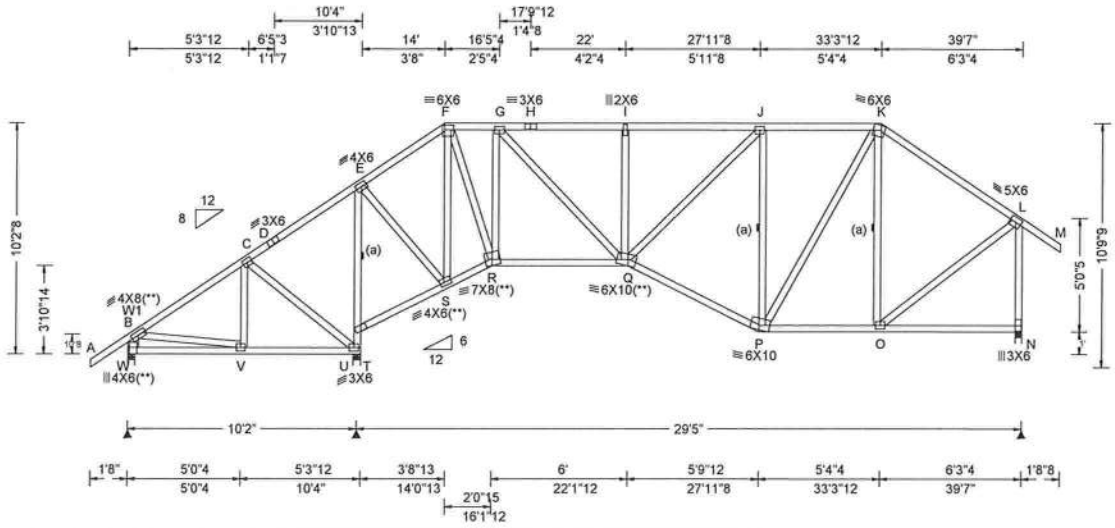
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609660 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A04	Cust: R 215 JRef: 1Wlc2150001 T41 DrwNo: 035.19.1041.21830 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.067	I	999	240
VERT(CL): 0.141	I	999	180
HORZ(LL): 0.024	O	-	-
HORZ(TL): 0.050	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.362
Max Web CSI: 0.899

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	407	/-	/-	/-	/-	/-
U	1825	/-	/-	/-	/-	/-
N	1309	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
W Brg Width = 3.5 Min Req = 1.5
U Brg Width = 4.0 Min Req = 2.2
N Brg Width = 3.5 Min Req = 1.5
Bearings W, U, & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	0	-670	I - J	0	-1415
F - G	0	-880	J - K	0	-962
G - H	0	-1425	K - L	0	-933
H - I	0	-1425			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	545	0	Q - P	1105	0
R - Q	918	0	P - O	692	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - U	0	-396	I - Q	0	-389
U - T	0	-1537	Q - J	652	0
T - E	0	-1437	J - P	0	-815
E - S	935	0	P - K	522	0
F - S	0	-932	K - O	0	-387
F - R	1182	0	O - L	866	0
R - G	0	-800	L - N	0	-1258
G - Q	735	0			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

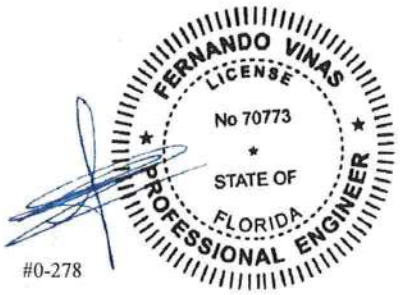
All plates are 4X5 except as noted.

(**) 5 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 10-2-8.



#0-278

02/04/2019

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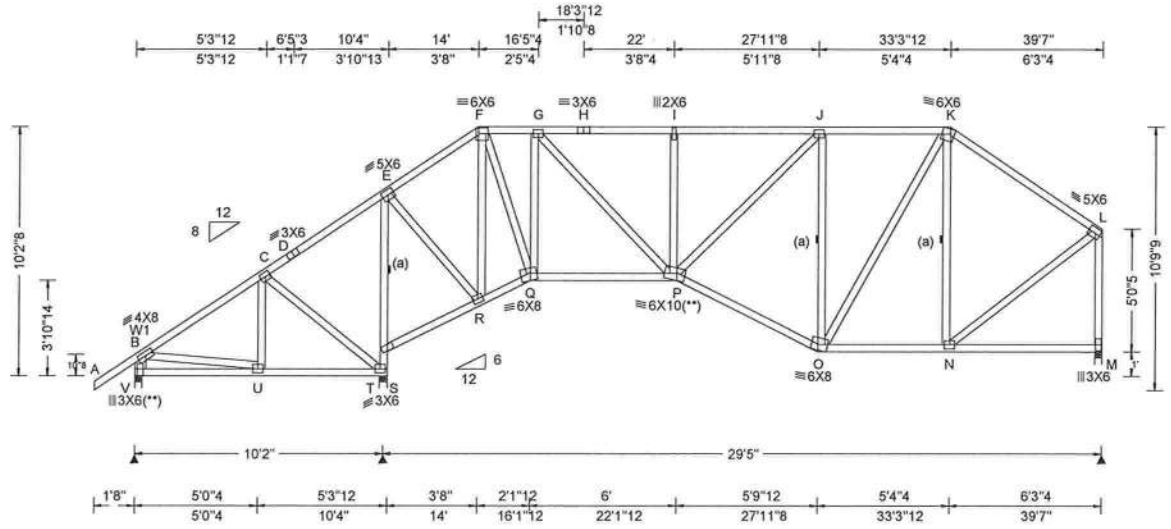
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609662 COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A05	Cust: R 215 JRef: 1Wlc2150001 T37 DrwNo: 035.19.1041.23910 KD / FV 02/04/2019	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 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: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 0.00	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): 0.067 I 999 240 VERT(CL): 0.141 I 999 180 HORZ(LL): 0.024 N - - HORZ(TL): 0.051 N - - Creep Factor: 2.0 Max TC CSI: 0.658 Max BC CSI: 0.363 Max Web CSI: 0.901 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	407	/-	/-	/-	/-	/-
T	1827	/-	/-	/-	/-	/-
M	1212	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
V Brg Width = 3.5 Min Req = 1.5
T Brg Width = 4.0 Min Req = 2.2
M Brg Width = 3.5 Min Req = 1.5
Bearings V, T, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	0	-672	I - J	0	-1420
F - G	0	-882	J - K	0	-966
G - H	0	-1430	K - L	0	-935
H - I	0	-1430			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	547	0	P - O	1109	0
Q - P	921	0	O - N	700	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	0	-396	I - P	0	-390
T - S	0	-1539	P - J	653	0
S - E	0	-1440	J - O	0	-811
E - R	937	0	O - K	515	0
F - R	0	-934	K - N	0	-393
F - Q	1185	0	N - L	875	0
Q - G	0	-803	L - M	0	-1161
G - P	738	0			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

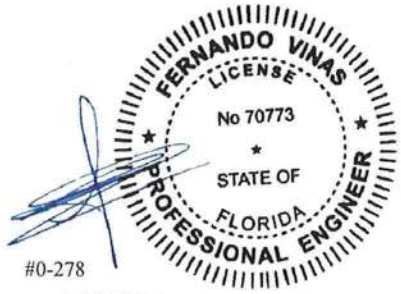
All plates are 4X5 except as noted.

(**) 2 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 10-2-8.



#0-278

02/04/2019

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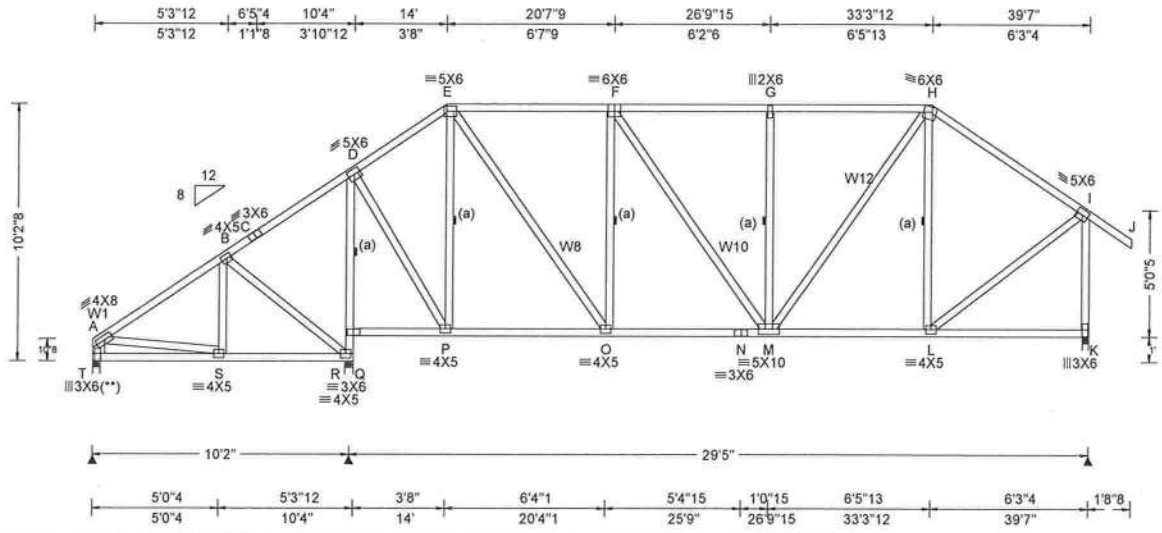
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609664 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A06	Cust: R 215 JRef: 1Wlc2150001 T2 DrwNo: 035.19.1041.27300 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	G	999	240
VERT(CL): 0.091	G	999	180
HORZ(LL): 0.012	L	-	-
HORZ(TL): 0.025	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.630
Max BC CSI: 0.376
Max Web CSI: 0.560

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	385	/-	/-	/-	/-	/-
R	1713	/-	/-	/-	/-	/-
K	1229	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
R Brg Width = 4.0 Min Req = 2.0
K Brg Width = 3.0 Min Req = 1.5
Bearings T, R, & 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.
A - B	0	-408	F - G	0	-1020
D - E	0	-618	G - H	0	-1020
E - F	0	-934	H - I	0	-952

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	463	0	N - M	951	0
O - N	951	0	M - L	716	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	0	-403	O - F	0	-528
R - Q	0	-1414	G - M	0	-391
Q - D	0	-1385	M - H	515	0
D - P	921	0	H - L	0	-393
E - P	0	-683	L - I	896	0
E - O	811	0	I - K	0	-1179

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W8, W10, W12 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

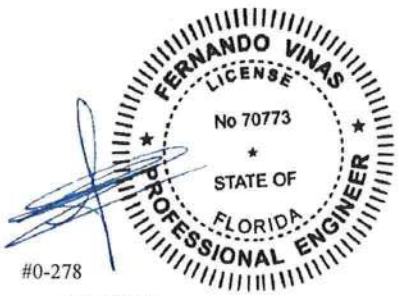
Plating Notes

(**) 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 10-2-8.



#0-278

02/04/2019

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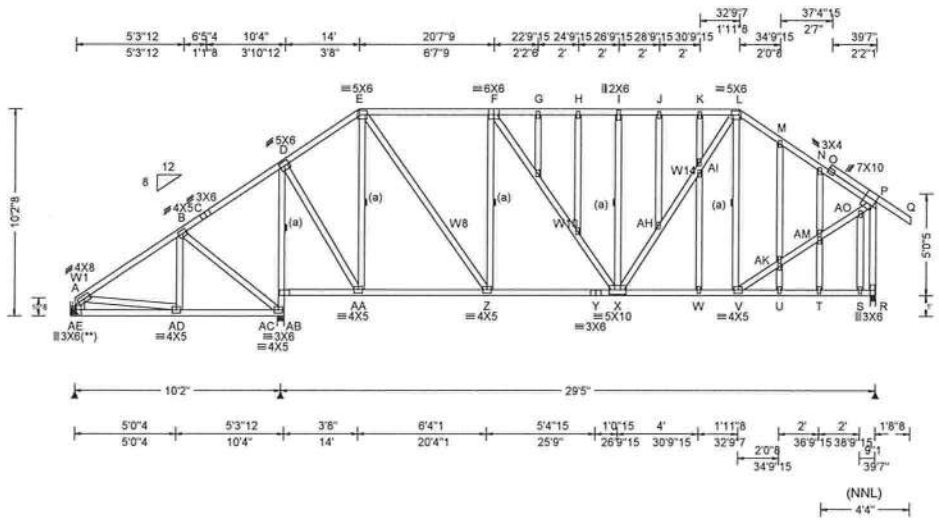
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609668 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A07	Cust: R 215 JRef: 1Wlc2150001 T6 DrwNo: 035.19.1041.32123 KD / FV 02/04/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 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: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 0.00	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): 0.076 T 999 240 VERT(CL): 0.159 T 999 180 HORZ(LL): -0.040 O - - HORZ(TL): 0.083 O - - Creep Factor: 2.0 Max TC CSI: 0.476 Max BC CSI: 0.669 Max Web CSI: 0.947 VIEW Ver: 18.02.00A.1126.20

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W8, W10, W14 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

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.

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-2-8.

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
AE	384	/-	/-	/-	/-	/-
AC	1714	/-	/-	/-	/-	/-
R	1229	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
AE Brg Width = - Min Req = -
AC Brg Width = 4.0 Min Req = 2.0
R Brg Width = 3.0 Min Req = 1.5
Bearings AC & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-407	J - K	0	-1012
D - E	0	-617	K - L	0	-1013
E - F	0	-934	L - M	0	-904
F - G	0	-1012	M - N	0	-914
G - H	0	-1012	N - O	0	-882
H - I	0	-1013	O - P	0	-972
I - J	0	-1013			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	463	0	X - W	757	0
Z - Y	951	0	W - V	757	0
Y - X	951	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AC	0	-403	AH-AI	470	0
AC-AB	0	-1414	AI- L	458	0
AB- D	0	-1386	V -AK	892	0
D -AA	921	0	AK-AM	894	0
E -AA	0	-683	AM-AO	946	0
E - Z	811	0	AO- P	918	0
Z - F	0	-529	P - R	0	-1119
X -AH	449	0			

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#0-278

02/04/2019

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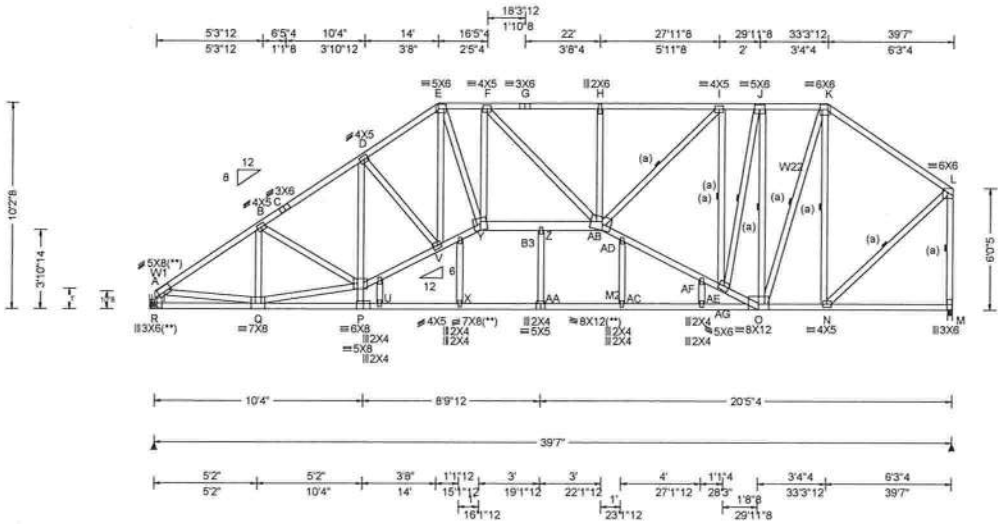
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609879 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A08	Cust: R 215 JRef: 1Wlc2150001 T25 DrwNo: 035.19.1047.40247 KD / FV 02/04/2019	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 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: 3.96 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	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): 0.194 O 999 240 VERT(CL): 0.407 O 999 180 HORZ(LL): 0.041 N - - HORZ(TL): 0.086 N - - Creep Factor: 2.0 Max TC CSI: 0.893 Max BC CSI: 0.747 Max Web CSI: 0.816 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
R	2041	/-	/-	/-	/340 /-
M	2046	/-	/-	/-	/336 /-

Wind reactions based on MWFRS
R Brg Width = - Min Req = -
M Brg Width = 3.0 Min Req = 2.4
Bearing M 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	509	- 2969	G - H	365	- 2368
B - C	479	- 2814	H - I	361	- 2358
C - D	462	- 2771	I - J	279	- 1786
D - E	413	- 2492	J - K	254	- 1596
E - F	348	- 2225	K - L	262	- 1486
F - G	365	- 2368			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	2189	- 360	O - N	1158	- 187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - R	361	- 1985	AC-AD	397	0
A - Q	2143	- 348	AC-AE	2198	- 362
P - U	2200	- 362	AD-AF	86	- 478
D - V	77	- 392	AE- O	2197	- 364
U - X	2201	- 362	AF-AG	69	- 489
E - V	591	- 68	I -AG	205	- 875
E - Y	626	- 90	AG- J	993	- 128
X -AA	2206	- 361	AG- O	131	- 636
Y - F	118	- 385	J - O	139	- 1005
Z -AA	380	0	O - K	1361	- 208
AA-AC	2206	- 361	K - N	234	- 929
H -AB	157	- 396	N - L	1565	- 253
AB- I	787	- 111	L - M	362	- 1995

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2 :B3 2x6 SP #2:
Webs 2x4 SP #3 :W1 2x6 SP #2:
:W22 2x4 SP #2:
Filler 2x4 SP #2 :M2 2x4 SP 2400f-2.0E:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	64 plf at	0.00 to	64 plf at	39.58
BC: From	20 plf at	0.00 to	20 plf at	10.33
BC: From	22 plf at	10.33 to	22 plf at	16.15
BC: From	20 plf at	16.15 to	20 plf at	22.15
BC: From	22 plf at	22.15 to	22 plf at	29.96
BC: From	20 plf at	29.96 to	20 plf at	39.58

BC: 247 lb Conc. Load at 16.58
BC: 481 lb Conc. Load at 21.58

Plating Notes

(**) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

Laterally brace BC at 24" oc in lieu of rigid ceiling.
Laterally brace BC above filler at 24" oc.

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 10-2-8.

Note: Laterally brace bottom chord above filler at 2'0" O.C. Max. including a lateral brace at chord ends.

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#0-278

02/04/2019

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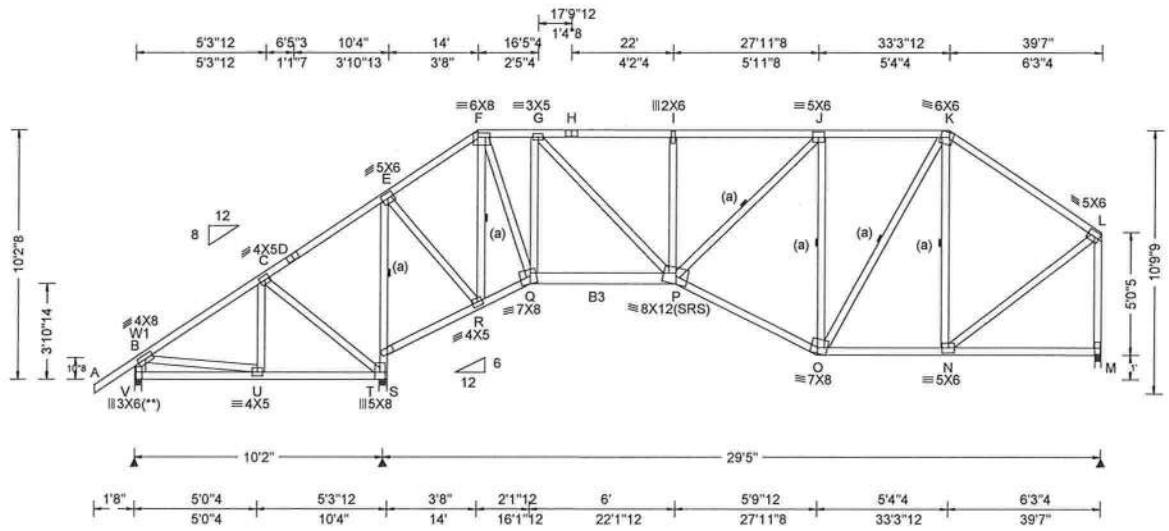
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609881 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A09	Cust: R 215 JRef: 1WIc2150001 T36 DrwNo: 035.19.1048.02167 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 3.96 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.100	I	999	240
VERT(CL): 0.209	I	999	180
HORZ(LL): 0.036	N	-	-
HORZ(TL): 0.076	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.818
Max BC CSI: 0.591
Max Web CSI: 0.812

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	363	/-	/-	/-	/87	/-
T	2441	/-	/-	/-	/388	/-
M	1477	/-	/-	/-	/238	/-

Wind reactions based on MWFRS
V Brg Width = 3.5 Min Req = 1.5
T Brg Width = 4.0 Min Req = 2.9
M Brg Width = 3.0 Min Req = 1.7
Bearings V, T, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	162	- 988	I - J	311	- 2212
F - G	205	- 1402	J - K	199	- 1311
G - H	315	- 2222	K - L	204	- 1160
H - I	315	- 2222			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	846	- 125	P - O	1503	- 236
Q - P	1454	- 215	O - N	888	- 139

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	70	- 403	I - P	155	- 390
T - S	364	- 2152	P - J	1291	- 160
S - E	369	- 2027	J - O	251	- 1265
E - R	1420	- 206	O - K	821	- 116
F - R	258	- 1481	K - N	172	- 532
F - Q	1949	- 290	N - L	1110	- 174
Q - G	211	- 1064	L - M	264	- 1426
G - P	1110	- 144			

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2 :B3 2x6 SP #2:
Webs 2x4 SP #3 :W1 2x6 SP #2:

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

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

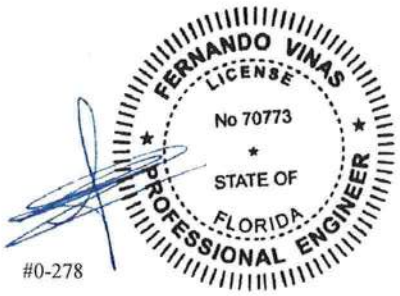
TC: From	64 plf at	-1.33 to	64 plf at	39.58
BC: From	5 plf at	-1.33 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	10.33
BC: From	22 plf at	10.33 to	22 plf at	16.15
BC: From	20 plf at	16.15 to	20 plf at	22.15
BC: From	22 plf at	22.15 to	22 plf at	27.96
BC: From	20 plf at	27.96 to	20 plf at	39.58

BC: 273 lb Conc. Load at 16.58
BC: 563 lb Conc. Load at 21.58

Plating Notes
All plates are 3X6 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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 10-2-8.



#0-278
02/04/2019

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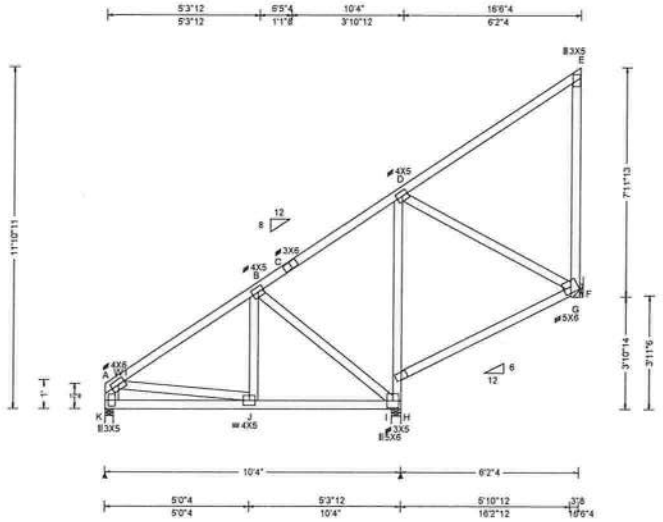
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609869 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A10	Cust: R 215 JRef: 1Wlc2150001 T12 DrwNo: 035.19.1042.09843 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.38 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	J	999	240
VERT(CL): 0.009	J	999	180
HORZ(LL): -0.005	I	-	-
HORZ(TL): 0.007	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.594
Max BC CSI: 0.439
Max Web CSI: 0.308

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	395	/-	/-	/236	/-	/230
I	787	/-	/-	/622	/127	/-
F	239	/-	/-	/155	/30	/-

Wind reactions based on MWFRS
K Brg Width = 3.5 Min Req = 1.5
I Brg Width = 4.0 Min Req = 1.5
F Brg Width = - Min Req = -
Bearings K & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	0	-422

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
K - J	210	-406

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - I	163	-393	H - D	215	-436
I - H	191	-511			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W1 2x6 SP #2:

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

Shim all supports to solid bearing.

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

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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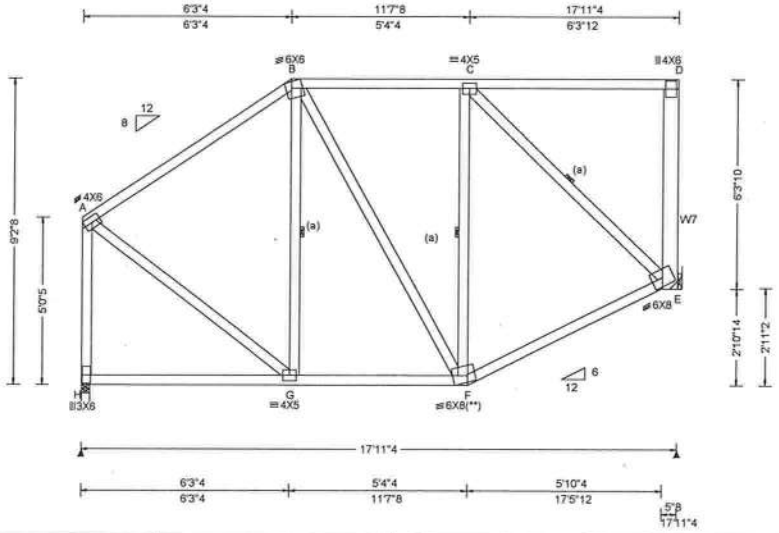
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609678 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** A11	Cust: R 215 JRef: 1Wlc2150001 T49 DrwNo: 035.19.1042.15297 KD / FV 02/04/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category:
EXP: C Kzt: NA
Mean Height: 0.00 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: NA
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.008	B	999	240
VERT(CL): 0.017	B	999	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.619
Max BC CSI: 0.297
Max Web CSI: 0.335

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	756	/-	/-	/-	/-	/-
E	765	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
H Brg Width = 3.0 Min Req = 1.5
E Brg Width = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-548	B - C	0	-383

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	377	0	F - E	454	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	0	-704	C - E	0	-517
A - G	471	0			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W7 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

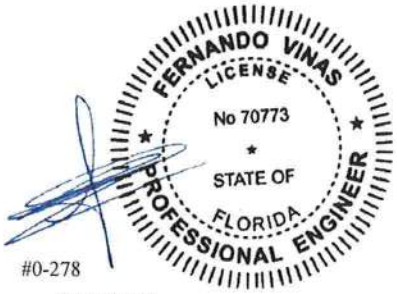
Additional Notes

Refer to General Notes for additional information

Right end vertical not designed to be exposed to wind pressure.

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 9-2-8.



#0-278

02/04/2019

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

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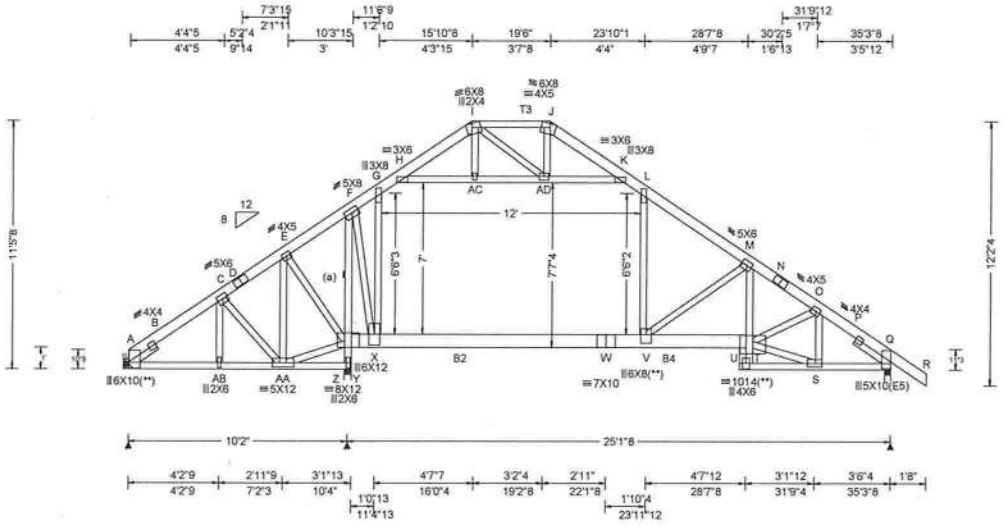
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609680 ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** B01	Cust: R 215 JRef: 1Wlc2150001 T30 DrwNo: 035.19.1042.23770 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.53 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.262	V	999	240
VERT(CL): 0.489	V	615	180
HORZ(LL): -0.093	L	-	-
HORZ(TL): 0.180	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.666
Max BC CSI: 0.593
Max Web CSI: 0.762

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1571	/-	/-	/807	/38	/342
Z	803	/-	/-	/557	/290	/-
Q	1940	/-	/-	/1012	/50	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
Z Brg Width = 4.0 Min Req = 1.5
Q Brg Width = 3.5 Min Req = 2.3
Bearings Z & Q 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	377	- 2331	J - K	184	- 471
B - C	393	- 2285	K - L	404	- 1973
C - D	399	- 2155	L - M	426	- 2747
D - E	412	- 2121	M - N	492	- 3118
E - F	432	- 2375	N - O	483	- 3180
F - G	477	- 2720	O - P	395	- 2550
G - H	416	- 2002	P - Q	408	- 2612
H - I	185	- 476			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AB	1815	- 232	W - V	2113	- 118
AB-AA	1813	- 232	V - T	2677	- 283
Y - X	1919	- 128	S - Q	1987	- 239
X - W	2113	- 118			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- E	21	- 621	AC-AD	320	- 1906
AA- Y	1921	- 178	AD- K	308	- 1841
E - Y	405	- 71	L - V	1085	- 52
Y - Z	294	- 776	V - M	210	- 709
Y - F	68	- 1527	T - S	2001	- 240
F - X	1058	- 64	T - O	795	- 52
X - G	1387	- 185	S - O	96	- 629
H -AC	322	- 1916			

Lumber

Top chord 2x6 SP #2 :T3 2x4 SP #2:
Bot chord 2x4 SP #2 :B2, B4 2x8 SP 2400f-2.0E:
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.965'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 4X8 except as noted.

(**) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 11-8-5 to 23-8-5: Live Load: 30 PSF. Dead Load: 10 PSF Ceiling: 1 PSF, Kneewalls: 1 PSF

Truss designed for sleeping room only. No waterbeds permitted. Provide information to contractor, architect, and bldg owner. Trusses to be visibly stamped to indicate 30.00 psf MAX LL.

Purlins

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

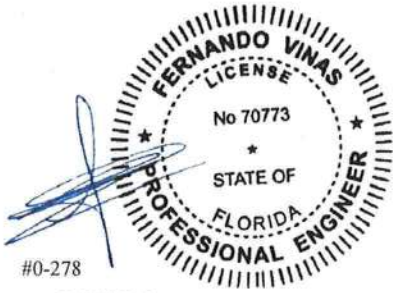
Wind

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 11-5-8.



#0-278

02/04/2019

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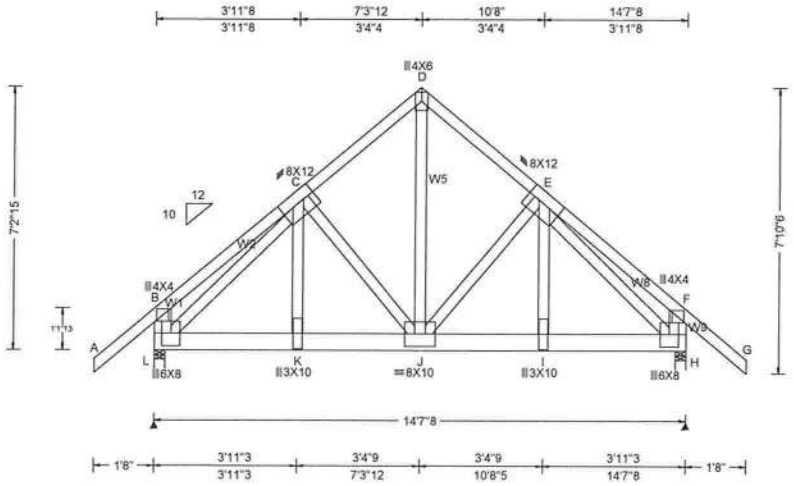
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609883 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** C01	Cust: R 215 JRef: 1Wlc2150001 T27 DrwNo: 035.19.1048.20277 KD / FV 02/04/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.053	J	999	240
VERT(CL): 0.106	J	999	180
HORZ(LL): 0.027	C	-	-
HORZ(TL): 0.054	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.301
Max BC CSI: 0.524
Max Web CSI: 0.748

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	6726	/-	/-	/-	/1041	/-
H	8218	/-	/-	/-	/1296	/-

Wind reactions based on MWFRS
L Brg Width = 3.5 Min Req = 2.8
H Brg Width = 3.5 Min Req = 3.4
Bearings L & 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.
C - D	417	-2739	E - F	69	-404
D - E	417	-2739			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2769	-413	J - I	2855	-426
K - J	2812	-419	I - H	2810	-420

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - C	543	-3630	J - E	173	-1156
C - K	1807	-240	I - E	1891	-254
C - J	162	-1091	E - H	545	-3646
D - J	3314	-469			

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3 :W1, W9 2x6 SP #2:
:W2, W8 2x4 SP 2400f-2.0E:
:W5 2x4 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 3.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	66 plf at	-1.67 to	66 plf at	16.29
BC: From	5 plf at	-1.67 to	5 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	14.63
BC: From	5 plf at	14.63 to	5 plf at	16.29

BC: 1925 lb Conc. Load at 2.06, 4.06, 6.06, 8.06
BC: 1927 lb Conc. Load at 10.06,12.06
BC: 2041 lb Conc. Load at 14.06

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 7-2-15.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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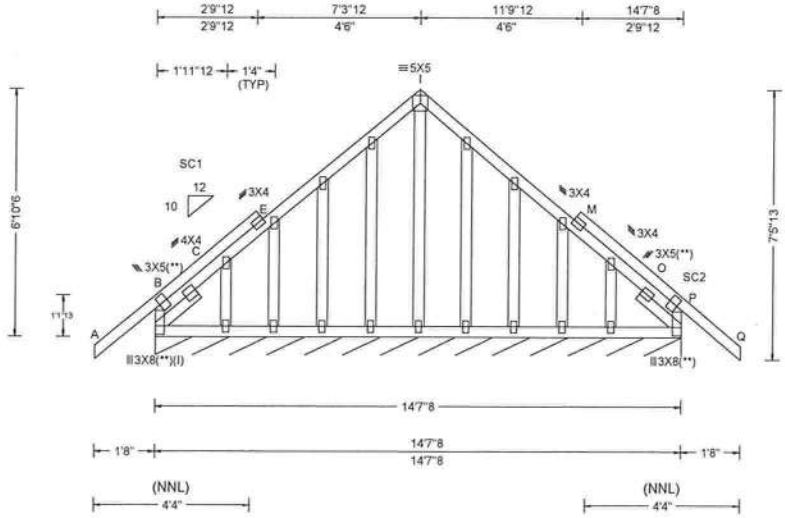
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609690 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** C02	Cust: R 215 JRef: 1Wlc2150001 T7 DrwNo: 035.19.1048.37820 KD / FV 02/04/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	B	999	240
VERT(CL): 0.003	B	999	180
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.323
Max BC CSI: 0.052
Max Web CSI: 0.129

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P*	102	/-	/-	/57	/15	/17

Wind reactions based on MWFRS
P Brg Width = 175 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
:Stack Chord SC1 2x4 SP #2:
:Stack Chord SC2 2x4 SP #2:
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.500'

Plating Notes

All plates are 2X4 except as noted.

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

(**) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

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

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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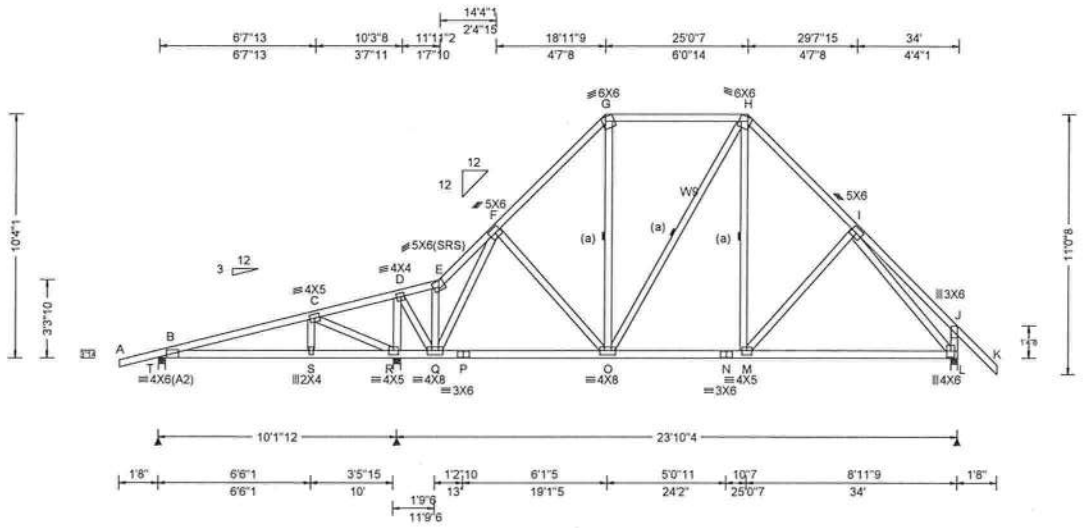
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609692 COMN FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** D01	Cust: R 215 JRef: 1Wlc2150001 T46 DrwNo: 035.19.1045.03677 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.026	M	999	240
VERT(CL): 0.051	M	999	180
HORZ(LL): 0.017	J	-	-
HORZ(TL): 0.033	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.530
Max BC CSI: 0.782
Max Web CSI: 0.920

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	427	/-	/-	/186	/121	/360
R	1660	/-	/-	/903	/257	/-
L	1267	/-	/-	/718	/161	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
R Brg Width = 3.5 Min Req = 1.6
L Brg Width = 3.5 Min Req = 1.5
Bearings T, R, & 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.
C - D	516	-153	G - H	329	-603
E - F	179	-528	H - I	373	-1042
F - G	362	-955			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	597	-169	N - M	659	-64
P - O	597	-169	M - L	724	-66
O - N	659	-64			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - R	319	-723	Q - F	179	-688
R - D	450	-1338	H - M	404	-114
D - Q	1176	-268	I - L	112	-1053

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W9 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

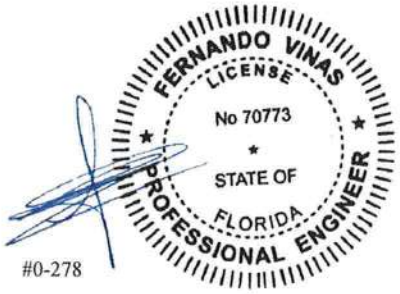
Wind

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 10-4-1.



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6750 Forum Drive
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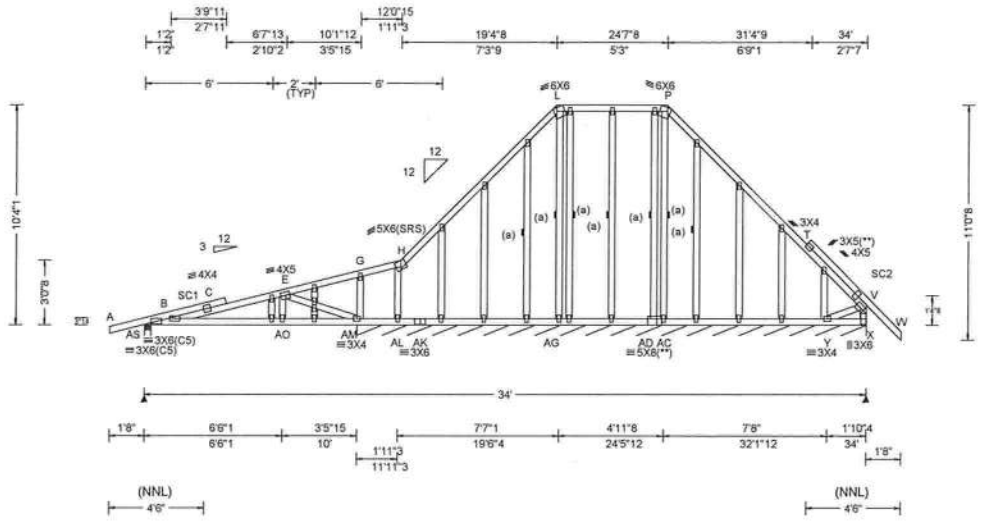
Orlando FL, 32821

SEQN: 609864 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** D02	Cust: R 215 JRef: 1Wlc2150001 T45 DrwNo: 035.19.1045.10307 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.075	C	999	240
VERT(CL): 0.156	C	746	180
HORZ(LL): 0.010	C	-	-
HORZ(TL): 0.022	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.453
Max Web CSI: 0.171

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AS	489	/-	/-	/237	/109	/365
X*	109	/-	/-	/60	/17	/-

Wind reactions based on MWFRS
AS Brg Width = 3.5 Min Req = 1.5
X Brg Width = 288 Min Req = -
Bearings AS & AM 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	351	- 676	T - V	313	- 376
C - E	204	- 572			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AO	553	- 143	AO-AM	523	- 132

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
E -AM	399	- 745

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:

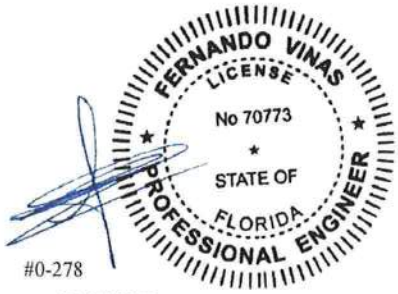
Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 2X4 except as noted.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.
The overall height of this truss excluding overhang is 10-4-1.



#0-278

02/04/2019

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

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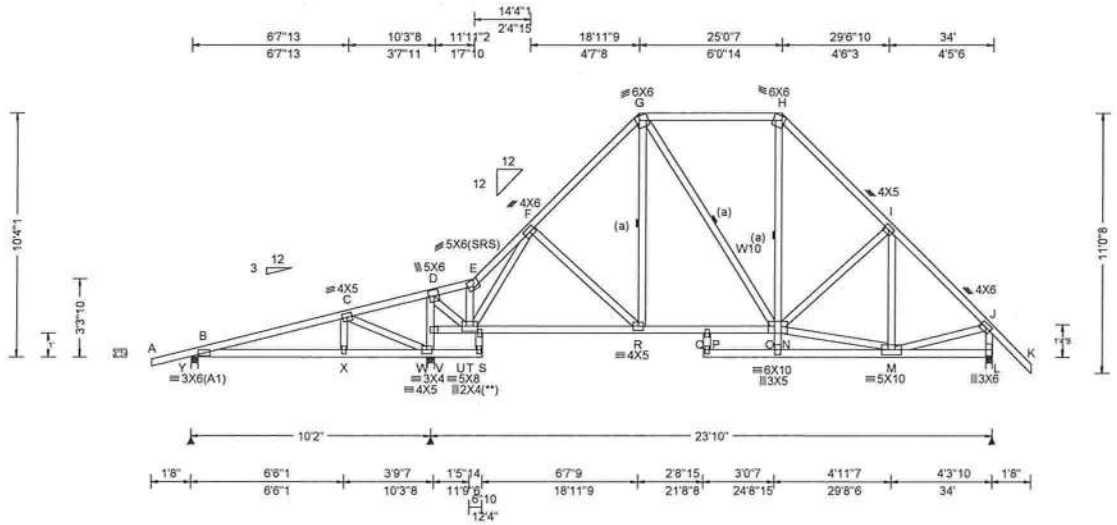
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609699 COMN FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** D03	Cust: R 215 JRef: 1Wlc2150001 T47 DrwNo: 035.19.1042.38890 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	Q	999	240
VERT(CL): 0.083	Q	999	180
HORZ(LL): -0.009	I	-	-
HORZ(TL): 0.014	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.454
Max BC CSI: 0.489
Max Web CSI: 0.458

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	480	/-	/-	/215	/151	/360
W	1555	/-	/-	/912	/223	/-
L	1177	/-	/-	/743	/171	/-

Wind reactions based on MWFRS
Y Brg Width = 3.5 Min Req = 1.5
W Brg Width = 4.0 Min Req = 1.5
L Brg Width = 3.5 Min Req = 1.5
Bearings Y, W, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	243	-513	F - G	339	-1051
C - D	414	-283	G - H	298	-675
D - E	196	-673	H - I	324	-1056
E - F	314	-978	I - J	272	-1099

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - X	464	-82	T - R	778	-136
X - W	456	-82	R - P	667	-122
U - T	805	-127	P - N	665	-121

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	157	-691	U - E	174	-575
W - V	255	-1191	N - M	715	-57
V - D	237	-1195	M - J	713	-58
D - U	1138	-190	J - L	314	-1139

Lumber
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W10 2x4 SP #2:

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

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.

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 10-4-1.
Note: Laterally brace bottom chord above filler at 2'0" O.C. Max. including a lateral brace at chord ends.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
#0-278
02/04/2019

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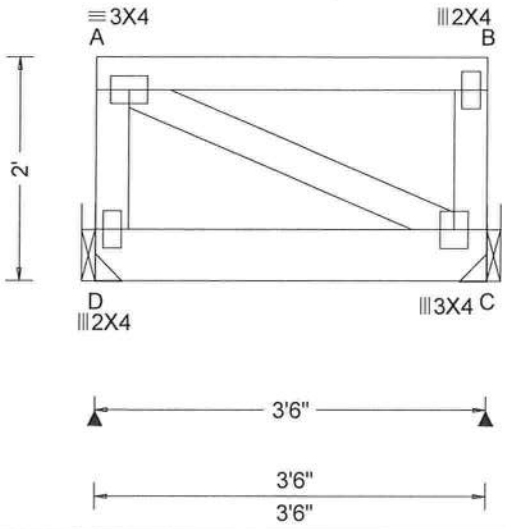
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609873 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT1	Cust: R 215 JRef: 1Wlc2150001 T39 DrwNo: 035.19.1042.53497 KD / FV 02/04/2019	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.25	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): 0.000 A 999 240 VERT(CL): 0.000 A 999 180 HORZ(LL): -0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.213 Max BC CSI: 0.279 Max Web CSI: 0.036 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 247 /- /- /- /40 /- C 273 /- /- /- /44 /- Wind reactions based on MWFRS D Brg Width = - Min Req = - C Brg Width = - Min Req = - Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.50
BC: From 20 plf at 0.00 to 20 plf at 3.50
BC: 239 lb Conc. Load at 1.94

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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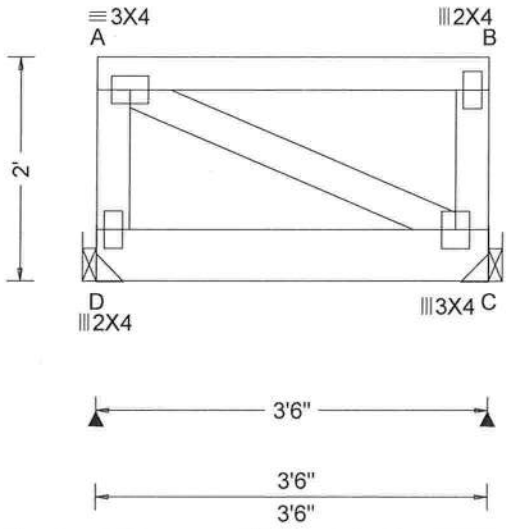
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609597 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT2	Cust: R 215 JRef: 1Wlc2150001 T50 DrwNo: 035.19.1044.14313 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	240
VERT(CL): 0.000	A	999	180
HORZ(LL): -0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.212
Max BC CSI: 0.812
Max Web CSI: 0.061

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	481	/-	/-	/-	/27	/-
C	563	/-	/-	/-	/26	/-

Wind reactions based on MWFRS
D Brg Width = - Min Req = -
C Brg Width = - Min Req = -
Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.50
BC: From 20 plf at 0.00 to 20 plf at 3.50
BC: 765 lb Conc. Load at 1.94

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

02/04/2019

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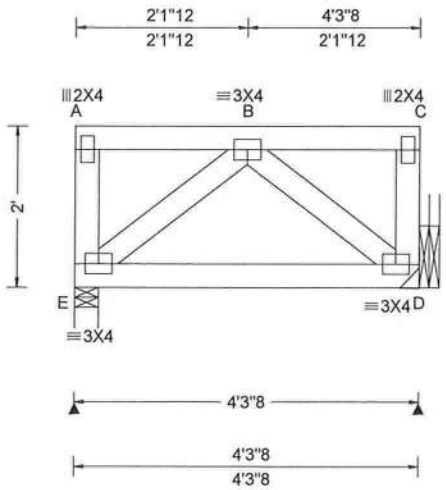
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609814 FLAT FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT3	Cust: R 215 JRef: 1Wlc2150001 T8 DrwNo: 035.19.1044.45280 KD / FV 02/04/2019	

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	B	999	240
VERT(CL): 0.001	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.001	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.084
Max BC CSI: 0.079
Max Web CSI: 0.025

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	342	/-	/-	/27	/-	/-
D	204	/-	/-	/26	/-	/-

Wind reactions based on MWFRS
E Brg Width = 3.5 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing E 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

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 4 plf at 0.00 to 4 plf at 4.29
BC: From 20 plf at 0.00 to 20 plf at 4.29
TC: 222 lb Conc. Load at 0.48, 2.48

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

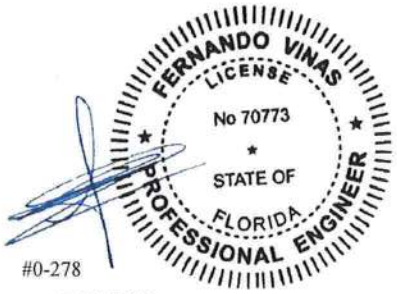
End verticals not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 2-0-0.



#0-278

02/04/2019

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

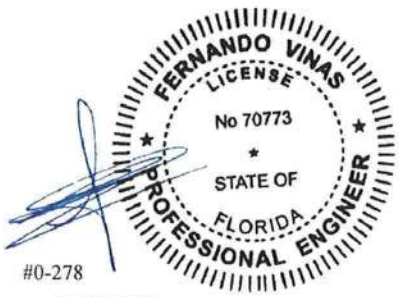
Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=4'0"8 uses the following support conditions: 4'0"8
Bearing D (4'0"8, 9') HGUS26-2
Supporting Member: (2)2x10 SP 2400f-2.0E
(20) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supporting member.



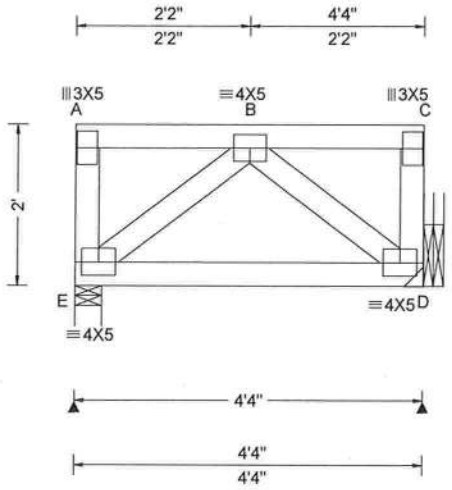
#0-278

02/04/2019

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

SEQN: 609776 FLAT FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** FT4	Cust: R 215 JRef: 1Wlc2150001 T17 DrwNo: 035.19.1048.42220 KD / FV 02/04/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	B	999	240
VERT(CL): 0.002	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.001	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.154
Max BC CSI: 0.093
Max Web CSI: 0.041

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
E	489 / -	/ -	/ -	/109	/ -
D	320 / -	/ -	/ -	/56	/ -

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing E 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

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 9.25" 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 4 plf at 0.00 to 4 plf at 4.33
BC: From 20 plf at 0.00 to 20 plf at 4.33
TC: 352 lb Conc. Load at 0.65, 2.65

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

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

Wind
Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 2-0-0.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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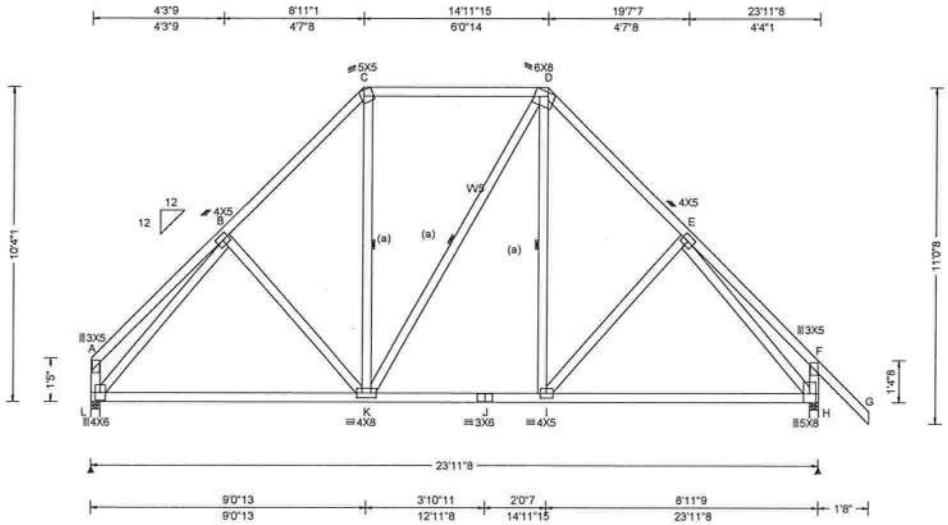
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609701 COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** G01	Cust: R 215 JRef: 1Wlc2150001 T23 DrwNo: 035.19.1048.44770 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.029	I	999	240
VERT(CL): 0.055	I	999	180
HORZ(LL): 0.021	F	-	-
HORZ(TL): 0.040	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.404
Max BC CSI: 0.780
Max Web CSI: 0.998

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1202	/-	/-	/609	/-	/347
H	1345	/-	/-	/726	/-	/-

Wind reactions based on MWFRS
L Brg Width = 3.5 Min Req = 1.5
H Brg Width = 3.5 Min Req = 1.6
Bearings L & 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.
B - C	335	- 1122	D - E	324	- 1137
C - D	290	- 720			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	784	- 228	J - I	727	- 77
K - J	727	- 77	I - H	785	- 59

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	166	- 1125	E - H	102	- 1142

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W5 2x4 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

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 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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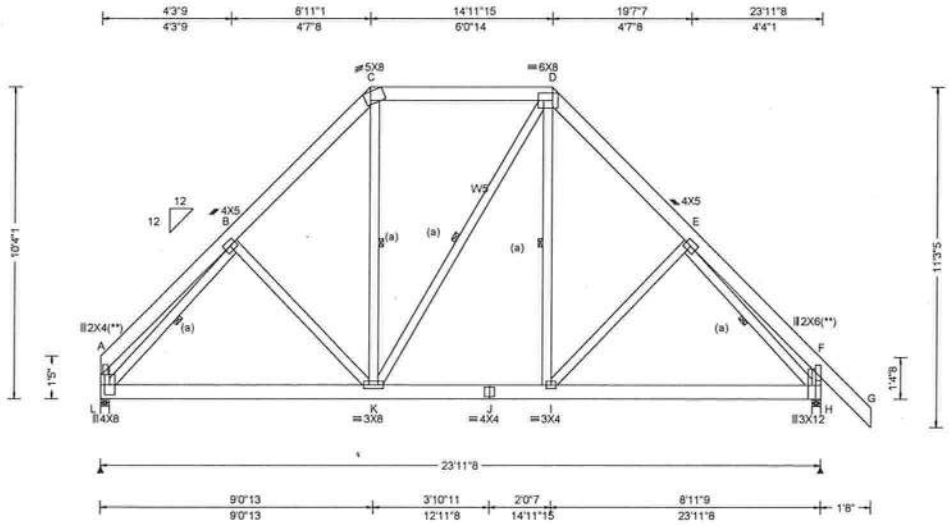
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609709 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** G02		Cust: R 215 JRef: 1Wlc2150001 T11 DrwNo: 035.19.1049.02170 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 48.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	I	999	240
VERT(CL): 0.085	I	999	180
HORZ(LL): 0.030	F	-	-
HORZ(TL): 0.063	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.376
Max BC CSI: 0.872
Max Web CSI: 0.603

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	2220	/-	/-	/1222	/-	/690
H	2506	/-	/-	/1455	/-	/-

Wind reactions based on MWFRS
L Brg Width = 3.5 Min Req = 2.6
H Brg Width = 3.5 Min Req = 3.0
Bearings L & 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.
B - C	666	-2142	D - E	643	-2169
C - D	579	-1368	E - F	540	-412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	1522	-453	J - I	1381	-150
K - J	1381	-150	I - H	1521	-129

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	347	-2267	E - H	206	-2262
C - K	670	-195	F - H	616	-637
D - I	660	-169			

Lumber

Top chord 2x6 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3 :W5 2x4 SP #2:

Bracing

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

Plating Notes

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

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

Purlins

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

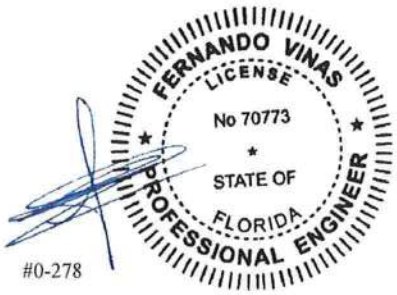
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.



#0-278

02/04/2019

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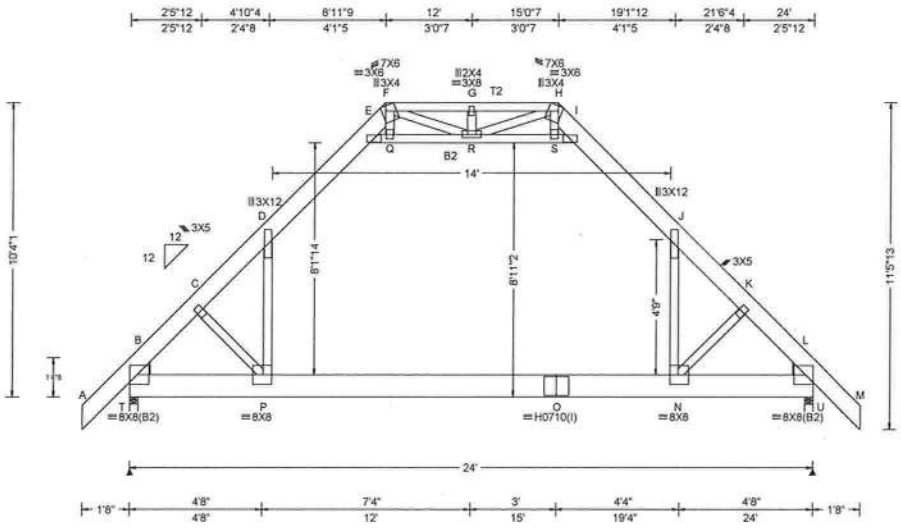
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609722 ATIC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H01	Cust: R 215 JRef: 1Wlc2150001 T40 DrwNo: 035.19.1049.06333 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.122	N	999	240
VERT(CL): 0.255	N	999	180
HORZ(LL): -0.117	J	-	-
HORZ(TL): 0.250	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.482
Max BC CSI: 0.463
Max Web CSI: 0.667

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	2139	/-	/-	/738	/170	/383
U	2139	/-	/-	/738	/170	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.8
U Brg Width = 3.5 Min Req = 1.8
Bearings T & 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	285	- 2605	G - H	636	- 3
C - D	321	- 2539	I - J	326	- 1459
D - E	325	- 1460	J - K	316	- 2540
F - G	636	- 3	K - L	282	- 2607

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	1598	- 161	O - N	1398	- 109
P - O	1398	- 109	N - L	1599	- 74

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1461	- 67	R - S	421	- 2230
E - Q	459	- 2458	R - H	456	- 164
F - Q	786	- 144	S - H	785	- 145
F - R	459	- 164	S - I	463	- 2455
Q - R	417	- 2233	N - J	1464	- 42

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Plating Notes

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

Loading

Attic room loading from 5-0-0 to 19-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.00' bearing 2 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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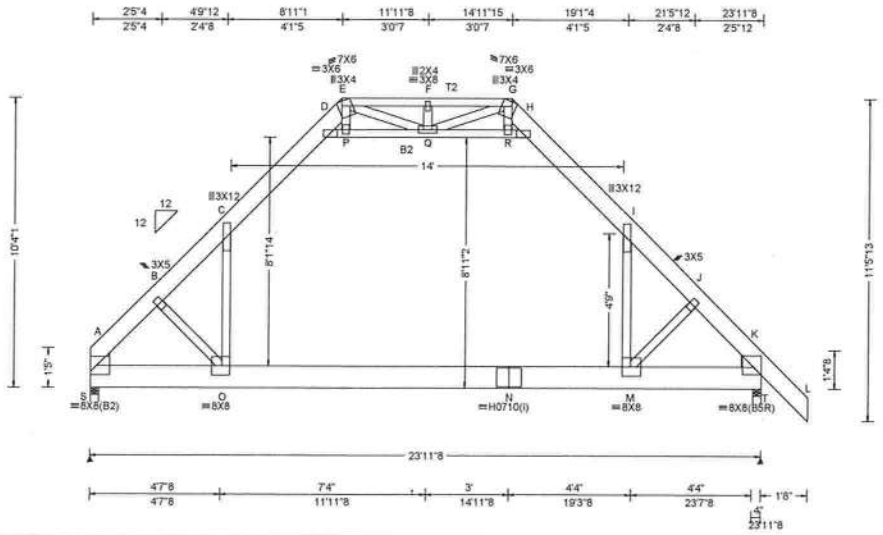
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609720 ATIC FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H02	Cust: R 215 JRef: 1WIc2150001 T20 DrwNo: 035.19.1049.08687 KD / FV 02/04/2019	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	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): 0.122 O 999 240 VERT(CL): 0.256 O 999 180 HORZ(LL): -0.117 I - - HORZ(TL): 0.250 I - - Creep Factor: 2.0 Max TC CSI: 0.482 Max BC CSI: 0.464 Max Web CSI: 0.667 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	2011	/-	/-	/616	/141	/348
T	2144	/-	/-	/738	/171	/-

Wind reactions based on MWFRS
S Brg Width = 3.5 Min Req = 1.7
T Brg Width = 3.5 Min Req = 1.8
Bearings S & T 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	293	-2616	F - G	637	-3
B - C	329	-2551	H - I	328	-1463
C - D	328	-1462	I - J	325	-2547
E - F	637	-3	J - K	290	-2614

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - O	1620	-165	N - M	1402	-110
O - N	1402	-110	M - K	1602	-80

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	174	-397	Q - R	430	-2243
C - O	1464	-57	Q - G	460	-164
D - P	469	-2459	R - G	789	-148
E - P	786	-147	R - H	473	-2469
E - Q	458	-163	M - I	1468	-48
P - Q	427	-2234			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Plating Notes

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

Loading

Attic room loading from 4-11-8 to 18-11-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.04' bearing 2 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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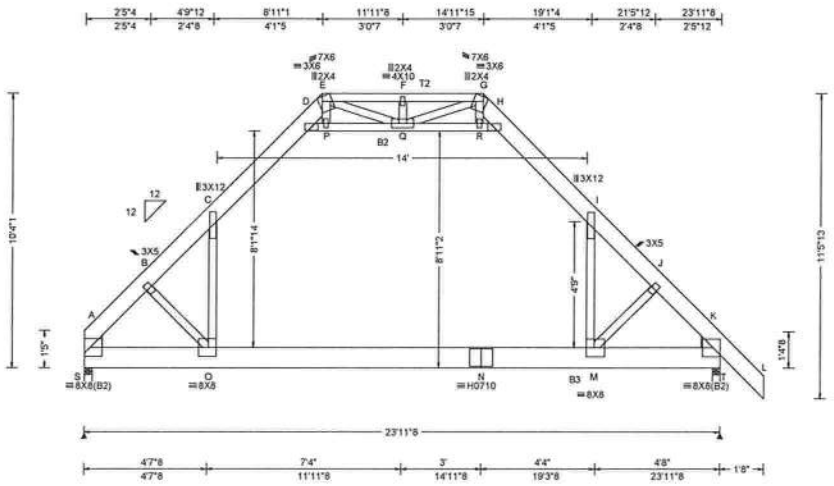
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609729 ATIC FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H03	Cust: R 215 JRef: 1Wlc2150001 T24 DrwNo: 035.19.1049.10773 KD / FV 02/04/2019	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 36.0 "	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 13.00 ft GCpi: 0.18 Wind Duration: 1.25	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): 0.118 O 999 240 VERT(CL): 0.236 O 999 180 HORZ(LL): 0.112 C - - HORZ(TL): 0.227 C - - Creep Factor: 2.0 Max TC CSI: 0.492 Max BC CSI: 0.925 Max Web CSI: 0.584 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	3688	/-	/-	/1596	/257	/522
T	3291	/-	/-	/1183	/308	/-

Wind reactions based on MWFRS
S Brg Width = 3.5 Min Req = 1.5
T Brg Width = 3.5 Min Req = 1.9
Bearings S & T 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	187	-2106	F - G	539	-2
B - C	213	-2065	H - I	211	-1147
C - D	213	-1124	I - J	200	-1978
E - F	539	-2	J - K	177	-2032

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - O	1333	-123	N - M	1107	-79
O - N	1107	-79	M - K	1220	-78

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	110	-400	Q - R	260	-1845
C - O	1273	-39	Q - G	399	-126
D - P	295	-1937	R - G	645	-90
E - P	615	-93	R - H	286	-2030
P - Q	268	-1761	M - I	1117	-24

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
:B3 2x10 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @10.25" 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	42 plf at	0.00 to	42 plf at	25.62
TC: From	60 plf at	0.00 to	60 plf at	25.62
TC: From	42 plf at	4.96 to	42 plf at	8.36
TC: From	42 plf at	15.55 to	42 plf at	18.96
PLT: From	30 plf at	8.62 to	30 plf at	15.30
PLT: From	150 plf at	4.96 to	150 plf at	18.96
BC: From	30 plf at	0.00 to	30 plf at	23.96
BC: From	150 plf at	0.00 to	150 plf at	4.98
BC: From	8 plf at	23.96 to	8 plf at	25.62
BC:	142 lb Conc. Load at 4.96,18.96			

Purlins

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

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.04' bearing 2 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The maximum horizontal reaction is 522#

The overall height of this truss excluding overhang is 10-4-1.

WIND LOAD CASE MODIFIED!

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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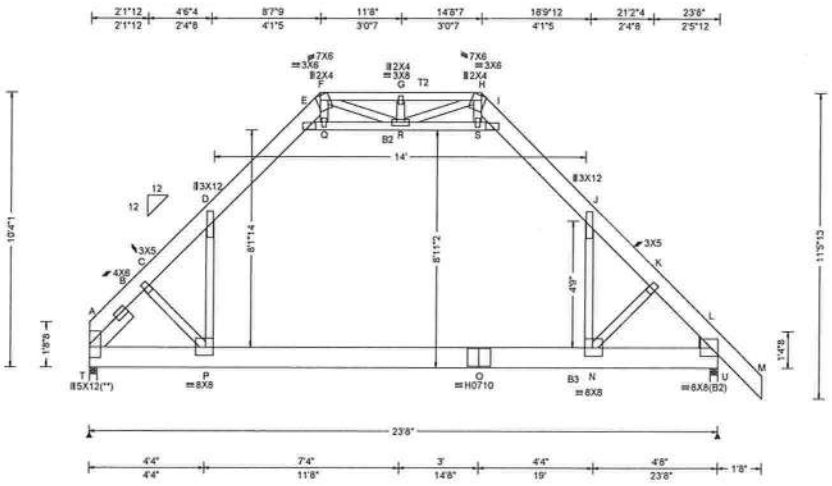
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609735 ATIC FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H31	Cust: R 215 JRef: 1Wlc2150001 T15 DrwNo: 035.19.1049.20663 KD / FV 02/04/2019

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 36.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.107	P	999	240
VERT(CL): 0.216	P	999	180
HORZ(LL): 0.105	D	-	-
HORZ(TL): 0.215	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.462
Max BC CSI: 0.919
Max Web CSI: 0.586

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	3634	/-	/-	/1538	/250	/515
U	3262	/-	/-	/1173	/306	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
U Brg Width = 3.5 Min Req = 1.9
Bearings T & 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.
A - B	179	-2119	G - H	522	-3
B - C	182	-2068	I - J	209	-1133
C - D	210	-2055	J - K	197	-1948
D - E	213	-1114	K - L	174	-2002
F - G	522	-3			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	1301	-131	O - N	1089	-78
P - O	1089	-78	N - L	1203	-77

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1280	-40	R - H	391	-126
E - Q	293	-1905	S - H	631	-89
F - Q	606	-92	S - I	281	-1981
Q - R	266	-1731	N - J	1095	-23
R - S	256	-1800			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
:B3 2x10 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.985'
:Rt Wedge 2x6 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @10.25" 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	42 plf at	0.00 to	42 plf at	25.33
TC: From	60 plf at	0.00 to	60 plf at	25.33
TC: From	42 plf at	4.67 to	42 plf at	8.07
TC: From	42 plf at	15.26 to	42 plf at	18.67
PLT: From	30 plf at	8.32 to	30 plf at	15.01
PLT: From	150 plf at	4.67 to	150 plf at	18.67
BC: From	30 plf at	0.00 to	30 plf at	23.67
BC: From	150 plf at	0.00 to	150 plf at	4.69
BC: From	8 plf at	23.67 to	8 plf at	25.33

BC: 142 lb Conc. Load at 4.67,18.67

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins

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

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.33' bearing 2 located at 23.71'

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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

SEQN: 609735 ATIC FROM: CDM Page 2 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H31	Cust: R 215 JRef: 1Wlc2150001 T15 DrwNo: 035.19.1049.20663 KD / FV 02/04/2019

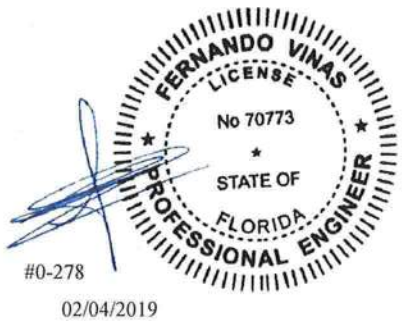
Additional Notes

Refer to General Notes for additional information

The maximum horizontal reaction is 515#

The overall height of this truss excluding overhang is 10-4-1.

WIND LOAD CASE MODIFIED!



#0-278

02/04/2019

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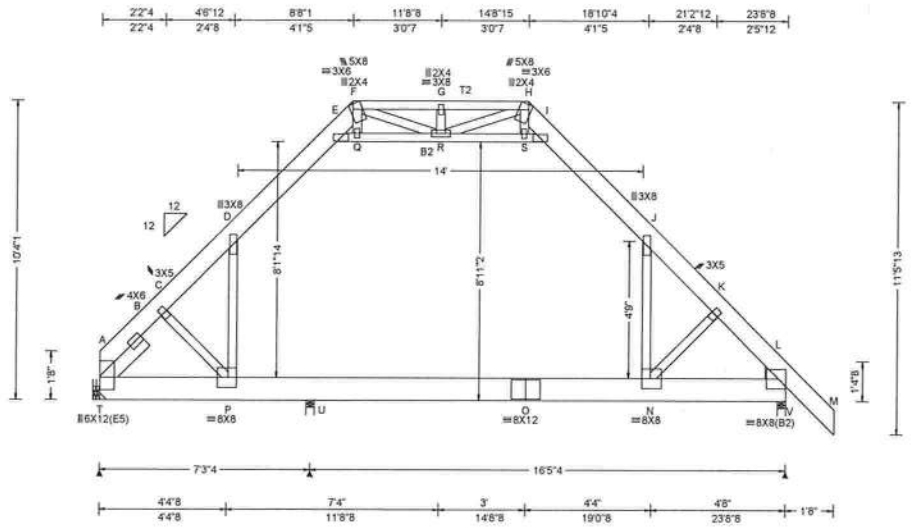
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609829 ATIC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H04	Cust: R 215 JRef: 1WIc2150001 T55 DrwNo: 035.19.1051.37547 KD / FV 02/04/2019	



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	**Wind Criteria** Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	**Snow Criteria** (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	**Defl/CSI Criteria** PP Deflection in loc L/defl L/# VERT(LL): 0.114 N 999 240 VERT(CL): 0.242 N 809 180 HORZ(LL): -0.113 J - - HORZ(TL): 0.244 J - - Creep Factor: 2.0 Max TC CSI: 0.296 Max BC CSI: 0.372 Max Web CSI: 0.334 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1022	/-	/-	/391	/84	/343
U	1455	/-	/0	/461	/81	/0
V	1695	/-	/-	/666	/146	/-

Wind reactions based on MWFRS
T Brg Width = - Min Req = -
U Brg Width = 3.5 Min Req = 1.5
V Brg Width = 3.5 Min Req = 1.5
Bearings U & V 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	191	- 1394	H - I	162	- 415
B - C	174	- 1327	I - J	287	- 1013
C - D	212	- 1285	J - K	237	- 1575
D - E	296	- 1112	K - L	203	- 1643

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	826	- 136	O - N	837	- 84
P - O	1673	- 168	N - L	1035	- 29

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - Q	366	- 1423	R - S	298	- 770
F - Q	490	- 117	S - I	328	- 858
F - R	612	- 152	N - J	706	0
Q - R	332	- 1282			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.994'
:Rt Wedge 2x6 SP #2:

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 4-8-8 to 18-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 2 located at 7.42' bearing 3 located at 23.71'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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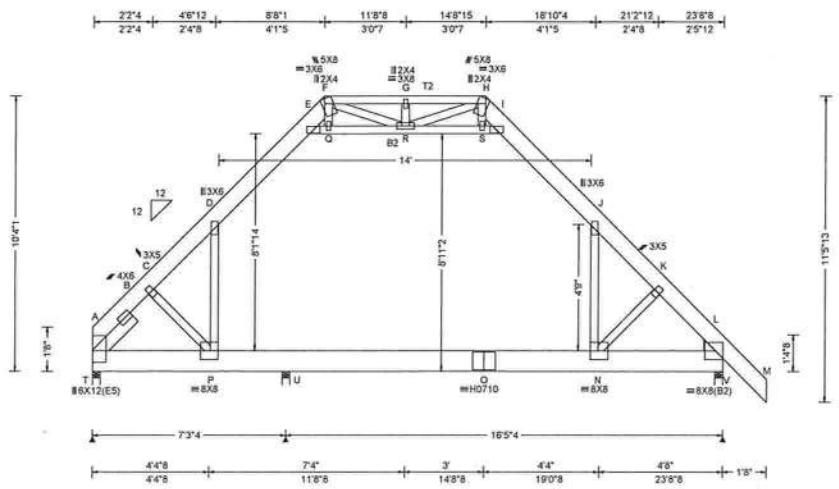
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 609818 ATIC FROM: CDM Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H05	Cust: R 215 JRef: 1WIc2150001 T16 DrwNo: 035.19.1050.41587 KD / FV 02/04/2019	

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 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: 1.25	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, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.077 N 999 240 VERT(CL): 0.150 N 999 180 HORZ(LL): -0.077 J - - HORZ(TL): 0.150 J - - Creep Factor: 2.0 Max TC CSI: 0.197 Max BC CSI: 0.247 Max Web CSI: 0.182 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1020	/-	/-	/391	/197	/343
U	1735	/-	/0	/461	/81	/0
V	1902	/-	/-	/666	/245	/-

Wind reactions based on MWFRS
T Brg Width = 3.5 Min Req = 1.5
U Brg Width = 3.5 Min Req = 1.5
V Brg Width = 3.5 Min Req = 1.5
Bearings T, U, & V 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	116	-772	I - J	144	-533
B - C	103	-738	J - K	119	-923
C - D	106	-716	K - L	114	-953
D - E	148	-602			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	452	-69	O - N	470	-61
P - O	940	-123	N - L	603	-65

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - Q	183	-819	S - I	164	-508
Q - R	166	-739	N - J	478	0
R - S	149	-458			

Lumber

Top chord 2x8 SP 2400f-2.0E :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.994'
:Rt Wedge 2x6 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.

Hangers / Ties

Bearing at location x=3"8 uses the following support conditions: 3"8
Bearing T (3"8, 9') HGUS26-2
Supporting Member: Unavailable
(20) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supported member.

Recommended tie connection based on manufacturer tested capacities and calculations for vertical reactions. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Loading

Attic room loading from 4-8-8 to 18-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

Wind loads based on MWFRS.

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.29' bearing 2 located at 7.42'
bearing 3 located at 23.71'

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#0-278

02/04/2019

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Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10-4-1.

Special loads

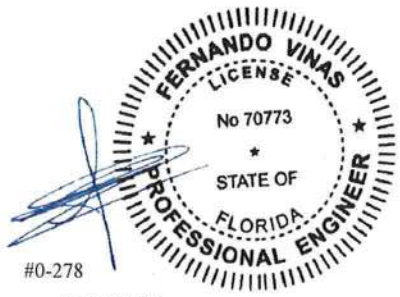
-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	28 plf at	0.00 to	28 plf at	25.37
TC: From	40 plf at	0.00 to	40 plf at	25.37
TC: From	28 plf at	4.71 to	28 plf at	8.11
TC: From	28 plf at	15.30 to	28 plf at	18.71
PLT: From	20 plf at	8.37 to	20 plf at	15.05
PLT: From	100 plf at	4.71 to	100 plf at	14.71
PLT: From	100 plf at	14.71 to	100 plf at	18.71
BC: From	20 plf at	0.00 to	20 plf at	23.71
BC: From	6 plf at	23.71 to	6 plf at	25.37

BC: 95 lb Conc. Load at 4.71,18.71

BC: 204 lb Conc. Load at 11.33

BC: 320 lb Conc. Load at 15.29



#0-278

02/04/2019

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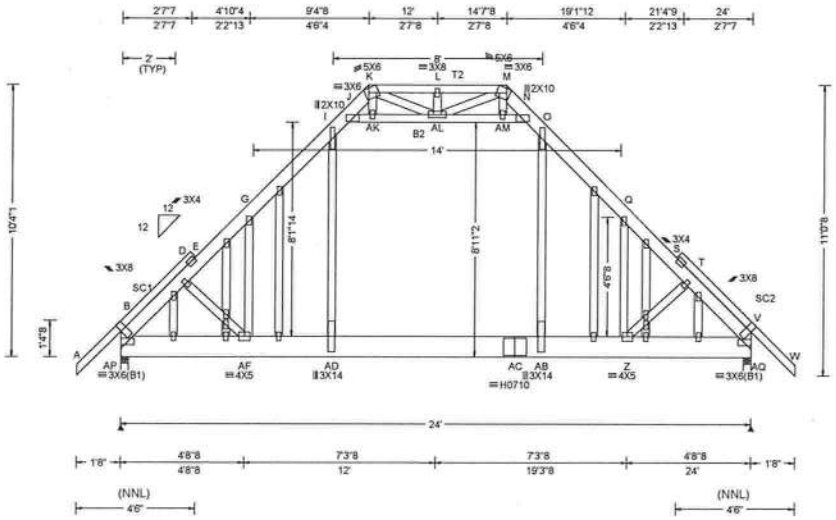
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609808 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H06	Cust: R 215 JRef: 1WIc2150001 T19 DrwNo: 035.19.1050.50083 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.061	AE	999	240
VERT(CL): 0.136	AE	999	180
HORZ(LL): 0.051	H	-	-
HORZ(TL): 0.113	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.576
Max BC CSI: 0.179
Max Web CSI: 0.433

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AP	2138	/-	/-	/736	/157	/382
AQ	2138	/-	/-	/736	/157	/-

Wind reactions based on MWFRS
AP Brg Width = 3.5 Min Req = 1.8
AQ Brg Width = 3.5 Min Req = 1.8
Bearings AP & AQ 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 - D	109	-2140	M - N	126	-394
D - E	110	-2131	N - O	319	-1324
E - G	280	-2145	O - Q	409	-2248
G - I	409	-2248	Q - S	278	-2145
I - J	318	-1324	S - T	89	-2131
J - K	126	-394	T - V	89	-2140

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AF	1437	-187	AC-AB	1503	-103
AF-AD	1487	-106	AB- Z	1487	-102
AD-AC	1503	-103	Z - V	1437	-63

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J -AK	372	-1628	AL-AM	355	-1542
K -AK	378	-81	AM- M	378	-81
AK-AL	354	-1542	AM- N	374	-1628

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
I -AD	1147	-142	AB- O	1146	-141

Lumber

Top chord 2x6 SP #2 :T2 2x4 SP #2:
Bot chord 2x10 SP 2400f-2.0E :B2 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.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Attic room loading from 5-0-0 to 19-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.00' bearing 2 located at 23.71'

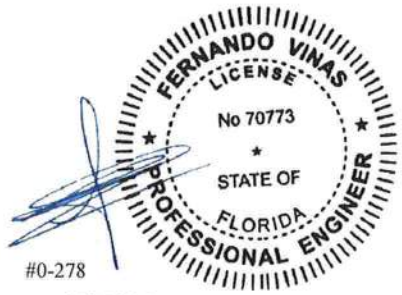
Additional Notes

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). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is 10-4-1.



#0-278

02/04/2019

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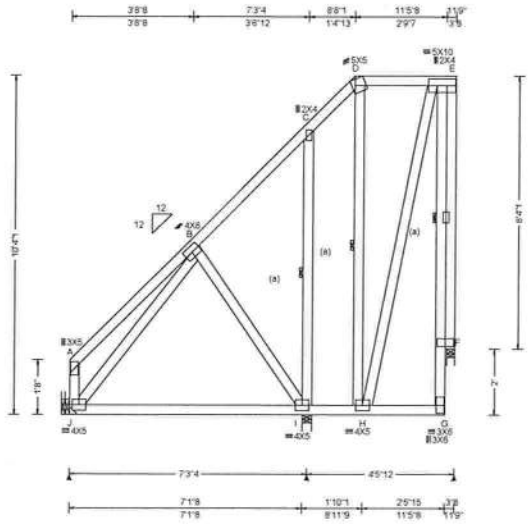
SEQN: 609812 MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** H07		Cust: R 215 JRef: 1Wlc2150001 T22 DrwNo: 035.19.1044.31460 KD / FV 02/04/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.003 D 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.006 D 999 180
BCDL: 10.00	Risk Category:	Snow Duration: NA	HORZ(LL): 0.002 D - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.003 D - -
NCBCLL: 0.00	Mean Height: 0.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.176
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.270
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.127
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.00A.1126.20
	Wind Duration: 0.00		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	325	/-	/-	/-	/-	/-
I	485	/-	/-	/-	/-	/-
F	222	/-	/-	/-	/-	/-

Wind reactions based on MWFRS
J Brg Width = - Min Req = -
I Brg Width = 3.5 Min Req = 1.5
F Brg Width = 3.0 Min Req = 3.0
Bearings I & F 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
:Rt Bearing Leg 2x4 SP #3:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=0' uses the following support conditions: 0'
Bearing J (0', 9') HUS26
Supporting Member: (2)2x6 SP #2
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Additional Notes

Refer to General Notes for additional information

Right end vertical not designed to be exposed to wind pressure.

The overall height of this truss excluding overhang is 10-4-1.

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#0-278

02/04/2019

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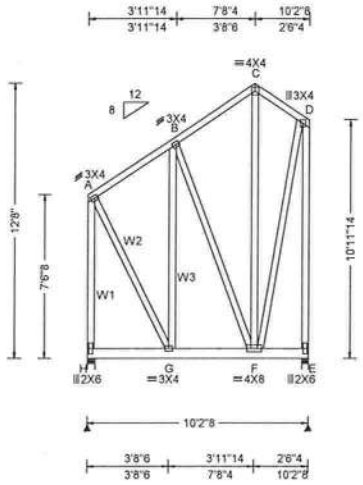
SEQN: 609831 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** K01	Cust: R 215 JRef: 1Wlc2150001 T21 DrwNo: 035.19.1051.05930 KD / FV 02/04/2019	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 36.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.10 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: 1.25	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): 0.014 F 999 240 VERT(CL): 0.028 F 999 180 HORZ(LL): 0.010 D - - HORZ(TL): 0.021 D - - Creep Factor: 2.0 Max TC CSI: 0.207 Max BC CSI: 0.348 Max Web CSI: 0.863 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	1339	/-	/-	/-	/235	/-
E	2540	/-	/-	/-	/413	/-

Wind reactions based on MWFRS
H Brg Width = 4.0 Min Req = 1.5
E Brg Width = 3.5 Min Req = 1.5
Bearings H & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - H	130	- 654	F - D	831	- 142
A - G	485	- 79	D - E	183	- 986

Lumber

Top chord 2x4 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #2 :W1, W2, W3 2x4 SP #3:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	96 plf at	0.00 to	96 plf at	10.21
BC: From	30 plf at	0.00 to	30 plf at	3.56
BC: From	15 plf at	3.56 to	15 plf at	10.21

BC: 325 lb Conc. Load at 3.56, 5.56
BC: 1020 lb Conc. Load at 7.50
BC: 1022 lb Conc. Load at 9.23

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

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 12-8-0.

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02/04/2019

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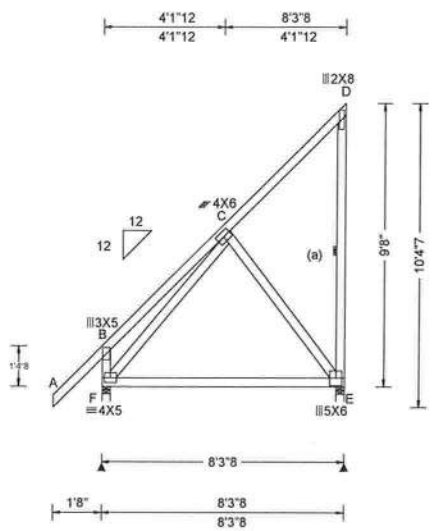
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609763 MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M01	Cust: R 215 JRef: 1Wlc2150001 T4 DrwNo: 035.19.1045.30130 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	C	999	240
VERT(CL): 0.003	C	999	180
HORZ(LL): 0.003	B	-	-
HORZ(TL): 0.004	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.405
Max BC CSI: 0.773
Max Web CSI: 0.355

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	502	/-	/-	/334	/-	/189
E	354	/-	/-	/338	/106	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
F - C	157	-401

Lumber

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

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

The overall height of this truss excluding overhang is 9-8-0.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

02/04/2019

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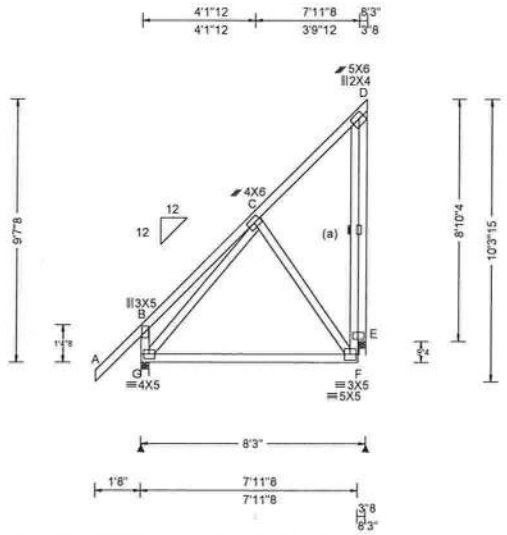
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609753 MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M02	Cust: R 215 JRef: 1Wlc2150001 T35 DrwNo: 035.19.1045.21313 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	F	999	240
VERT(CL): 0.009	F	999	180
HORZ(LL): 0.004	D	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.405
Max BC CSI: 0.657
Max Web CSI: 0.334

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	494	/-	/-	/327	/-	/188
E	352	/-	/-	/335	/109	/-

Wind reactions based on MWFRS
G Brg Width = 3.5 Min Req = 1.5
E Brg Width = 3.0 Min Req = 3.0
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - C	154	-416	D - E	605	-584

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Rt Bearing Leg 2x4 SP #3:

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

The overall height of this truss excluding overhang is 9-7-8.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

02/04/2019

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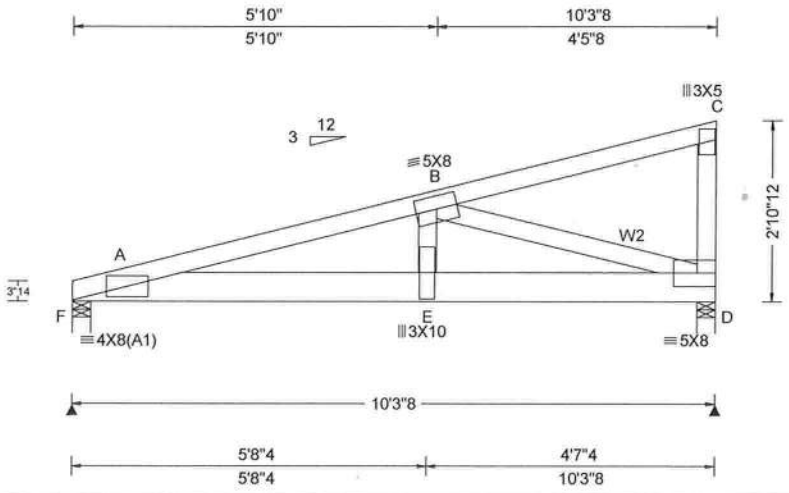
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609761 MONO FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M03	Cust: R 215 JRef: 1Wlc2150001 T10 DrwNo: 035.19.1045.54497 KD / FV 02/04/2019

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	E	999	240
VERT(CL): 0.190	E	641	180
HORZ(LL): -0.022	C	-	-
HORZ(TL): 0.044	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.729
Max BC CSI: 0.788
Max Web CSI: 0.844

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	2906	/-	/-	/-	/159	/-
D	4490	/-	/-	/-	/202	/-

Wind reactions based on MWFRS
F Brg Width = 3.5 Min Req = 1.5
D Brg Width = 3.5 Min Req = 1.9
Bearings F & D are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	209	-4489

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	4347	-198	E - D	4172	-195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - B	2214	-45	B - D	202	-4347

Lumber
Top chord 2x4 SP #2
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3 :W2 2x4 SP 2400f-2.0E:

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" 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 61 plf at 0.00 to 61 plf at 10.29
BC: From 10 plf at 0.00 to 10 plf at 10.29
BC: 384 lb Conc. Load at 1.94
BC: 1571 lb Conc. Load at 3.94, 5.85, 7.85, 9.18

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 2-10-12.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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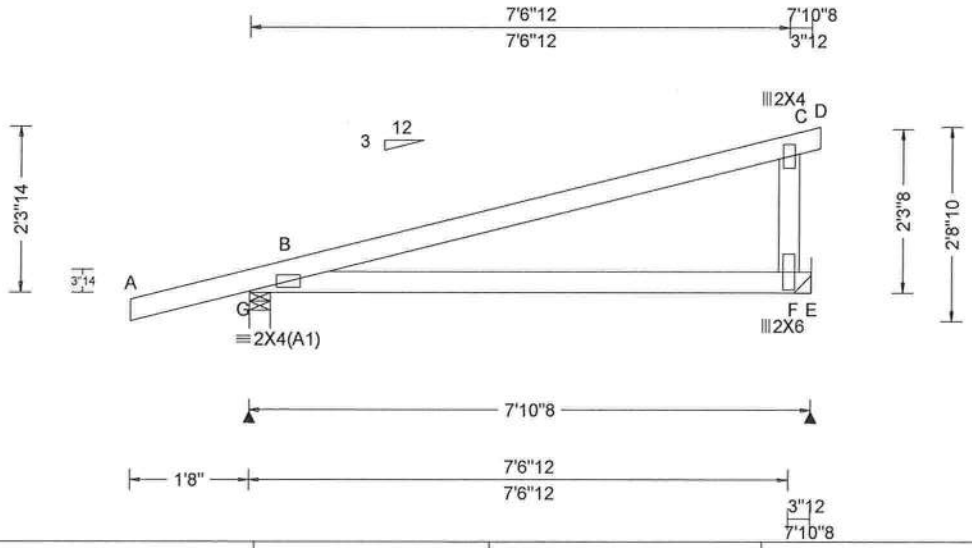
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609833 MONO FROM: CDM	Ply: 1 Qty: 17	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M04	Cust: R 215 JRef: 1Wlc2150001 T32 DrwNo: 035.19.1044.51260 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.018 F - -
HORZ(TL): 0.035 F - -
Creep Factor: 2.0
Max TC CSI: 0.727
Max BC CSI: 0.536
Max Web CSI: 0.344

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	438	/-	/-	/240	/104	/69
E	313	/-	/-	/162	/66	/-

Wind reactions based on MWFRS
G Brg Width = 3.5 Min Req = 1.5
E Brg Width = - Min Req = -
Bearing G 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

Hangers / Ties

(J) Hanger Support Required, by others

Wind

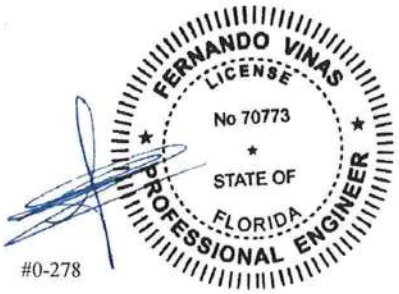
Wind loads based on MWFRS with additional C&C member design.

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 2-3-14.



#0-278

02/04/2019

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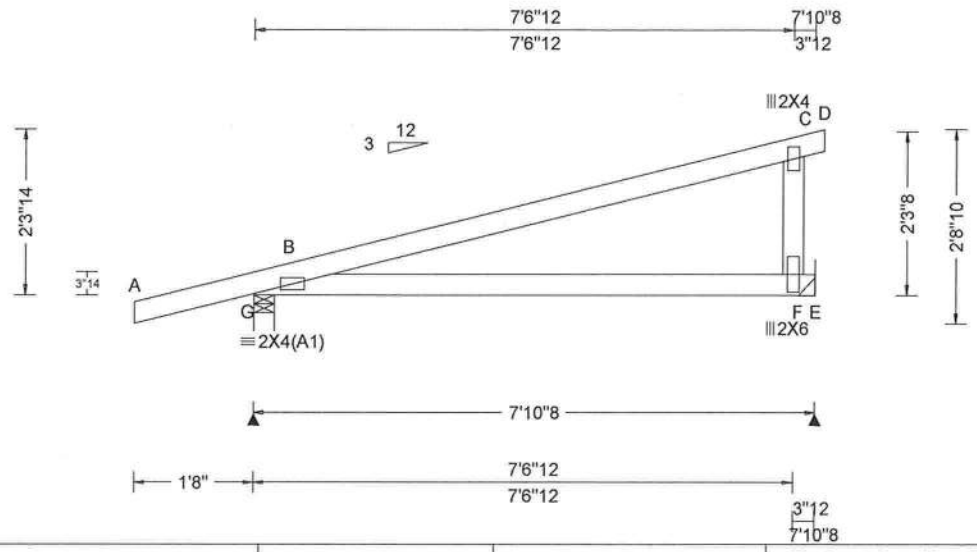
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609833 MONO FROM: CDM	Ply: 1 Qty: 17	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** M04	Cust: R 215 JRef: 1WIc2150001 T32 DrwNo: 035.19.1044.51260 KD / FV 02/04/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲ Maximum Reactions (lbs)**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.25	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.018 F - - HORZ(TL): 0.035 F - - Creep Factor: 2.0 Max TC CSI: 0.727 Max BC CSI: 0.536 Max Web CSI: 0.344 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 438 /- /- /240 /104 /69 E 313 /- /- /162 /66 /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 E Brg Width = - Min Req = - Bearing G 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

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 2-3-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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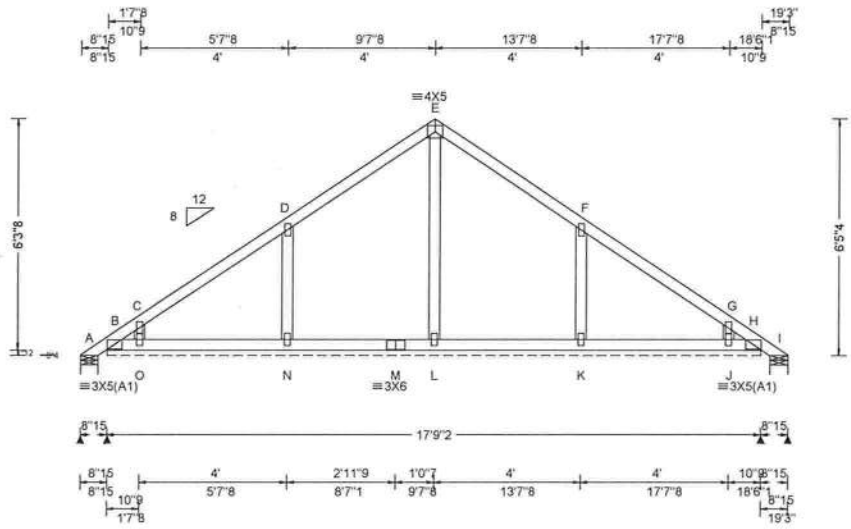
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609843 COMN FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P01	Cust: R 215 JRef: 1Wlc2150001 T9 DrwNo: 035.19.1046.36300 KD / FV 02/04/2019	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 22.44 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: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	E	999	240
VERT(CL): 0.002	E	999	180
HORZ(LL): 0.003	F	-	-
HORZ(TL): 0.003	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.220
Max BC CSI: 0.125
Max Web CSI: 0.123

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	16	/-	/-	/118	/103	/182
B*	84	/-	/-	/52	/30	/-
I	16	/-	/-	/15	/5	/-
O		/-166				
N		/-228				
K		/-229				
J		/-165				

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 213 Min Req = -
I Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & I 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.

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
Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is 6-5-4.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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

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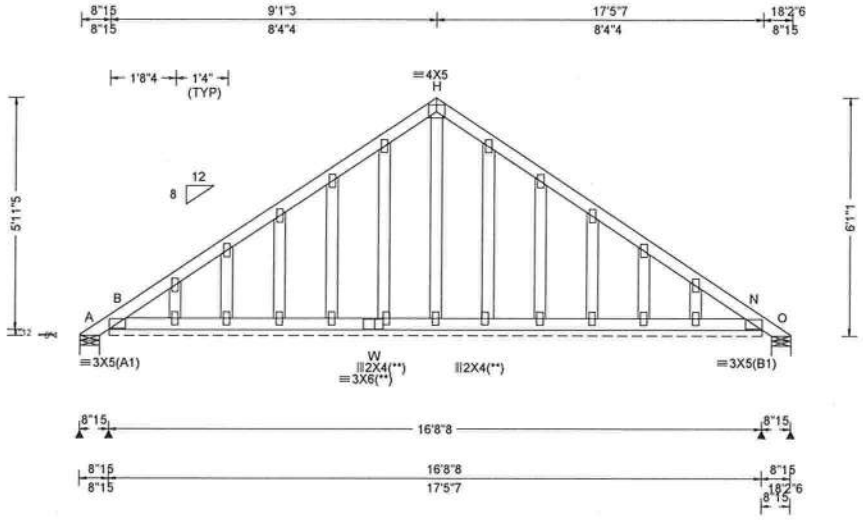
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

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

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

SEQN: 609845 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P02	Cust: R 215 JRef: 1Wlc2150001 T13 DrwNo: 035.19.1046.59317 KD / FV 02/04/2019



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 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: 22.26 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: Any GCpi: 0.18 Wind Duration: 1.25	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): 0.001 H 999 240 VERT(CL): 0.001 H 999 180 HORZ(LL): 0.002 K - - HORZ(TL): 0.003 K - - Creep Factor: 2.0 Max TC CSI: 0.055 Max BC CSI: 0.031 Max Web CSI: 0.074 VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	15	/-	/-	/110	/97	/171
B*	76	/-	/-	/52	/31	/-
O	15	/-	/-	/13	/2	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 200 Min Req = -
O Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & O 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.

(**) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 6-1-1.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
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PROFESSIONAL ENGINEER

#0-278

02/04/2019

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

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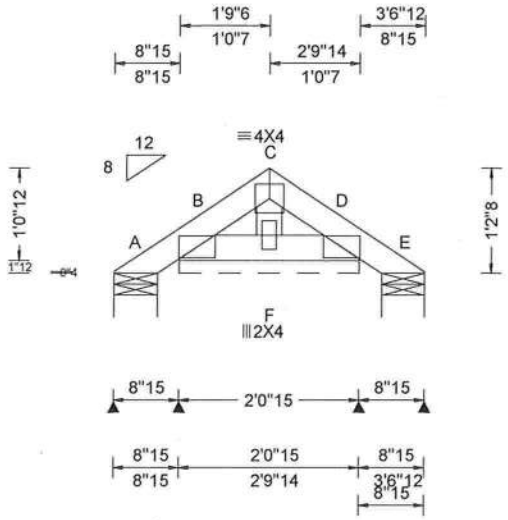
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609848 COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P04	Cust: R 215 JRef: 1Wlc2150001 T29 DrwNo: 035.19.1047.02250 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.07 ft
TCDL: 5.0 psf
BCDL: 2.0 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	F	999	240
VERT(CL): 0.000	F	999	180
HORZ(LL): 0.000	F	-	-
HORZ(TL): 0.000	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.014
Max BC CSI: 0.007
Max Web CSI: 0.006

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	19	/-	/-	/27	/12	/30
B*	83	/-	/-	/63	/11	/-
E	19	/-	/-	/19	/5	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 24.9 Min Req = -
E Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & E 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 3X5(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 1-2-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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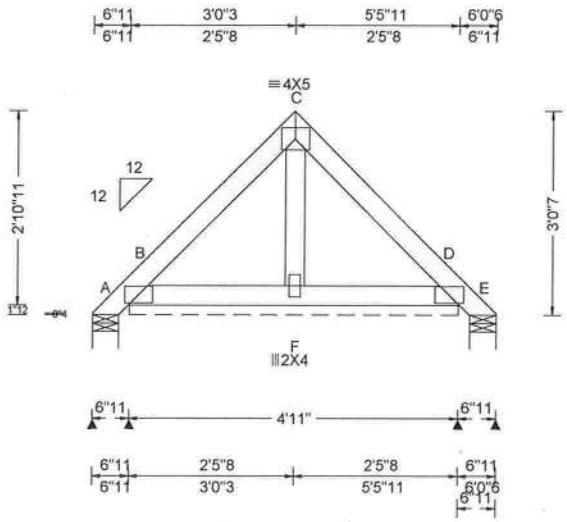
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609850 COMN FROM: CDM	Ply: 1 Qty: 30	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P05	Cust: R 215 JRef: 1Wlc2150001 T42 DrwNo: 035.19.1047.08260 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.87 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: Any
GCpi: 0.18
Wind Duration: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	F	999	240
VERT(CL): 0.000	F	999	180
HORZ(LL): 0.001	F	-	-
HORZ(TL): 0.001	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.093
Max BC CSI: 0.047
Max Web CSI: 0.014

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-29	/-	/96	/99	/93
B*	94	/-	/-	/75	/42	/-
E	-	/-29	/-	/37	/28	/-

Wind reactions based on MWFRS
A Brg Width = 4.7 Min Req = 1.5
B Brg Width = 59.0 Min Req = -
E Brg Width = 4.7 Min Req = 1.5
Bearings A, B, & E 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 3X5(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 3-0-7.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

02/04/2019

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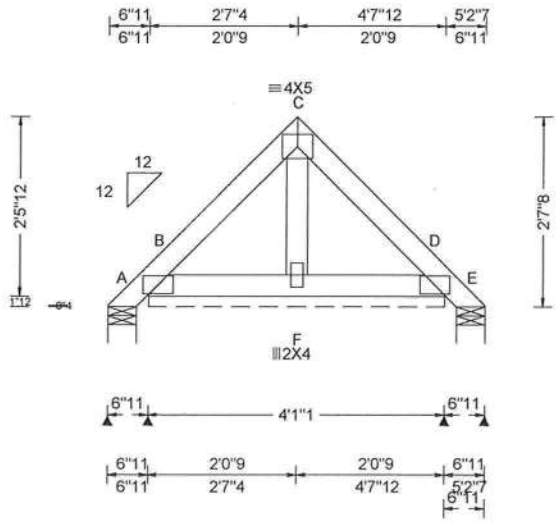
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609853 COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P06	Cust: R 215 JRef: 1Wlc2150001 T43 DrwNo: 035.19.1047.10263 KD / FV 02/04/2019	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲ Maximum Reactions (lbs), or *=PLF**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 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: 20.66 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: Any GCpi: 0.18 Wind Duration: 1.25	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): -0.000 F 999 240 VERT(CL): 0.000 C 999 180 HORZ(LL): 0.001 F - - HORZ(TL): 0.001 F - - Creep Factor: 2.0 Max TC CSI: 0.064 Max BC CSI: 0.032 Max Web CSI: 0.012 VIEW Ver: 18.02.00A.1126.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A - /-11 /- /80 /75 /79 B* 90 /- /- /74 /37 /- E - /-11 /- /23 /14 /- Wind reactions based on MWFRS A Brg Width = 4.7 Min Req = 1.5 B Brg Width = 49.1 Min Req = - E Brg Width = 4.7 Min Req = 1.5 Bearings A, B, & E 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 3X5(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 2-7-8.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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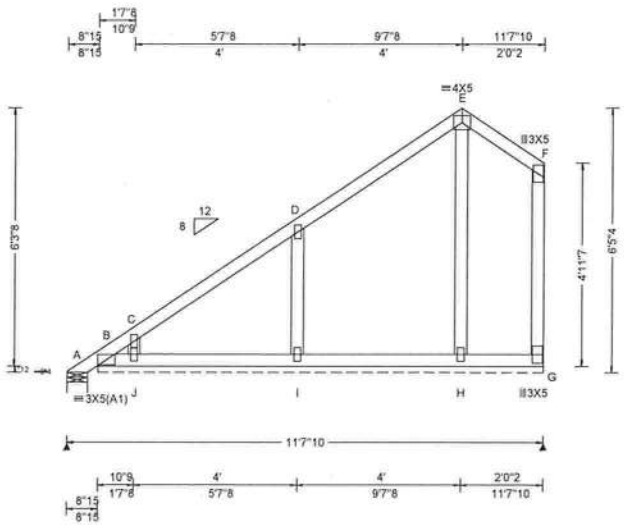
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609856 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P07	Cust: R 215 JRef: 1Wlc2150001 T34 DrwNo: 035.19.1043.12797 KD / FV 02/04/2019



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.32 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	E	999	240
VERT(CL): 0.002	E	999	180
HORZ(LL): -0.001	F	-	-
HORZ(TL): 0.002	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.119
Max Web CSI: 0.115

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	20	/-	/-	/90	/40	/140
B*	87	/-	/-	/54	/13	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 130 Min Req = -
Bearings A & B 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.

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

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 6-5-4.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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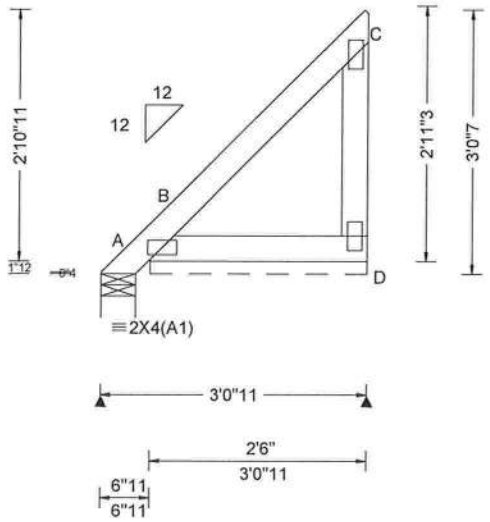
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609861 MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** P08	Cust: R 215 JRef: 1Wlc2150001 T48 DrwNo: 035.19.1043.15497 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 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
GCpi: 0.18
Wind Duration: 0.00

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

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

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.000 C - -
HORZ(TL): 0.001 C - -
Creep Factor: 2.0
Max TC CSI: 0.069
Max BC CSI: 0.020
Max Web CSI: 0.014

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
A	- /-35	/-	/-	/-	/-
B*	97 /-	/-	/-	/-	/-

Wind reactions based on MWFRS
A Brg Width = 4.7 Min Req = 1.5
B Brg Width = 30.0 Min Req = -
Bearings A & B 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.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-0-7.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

02/04/2019

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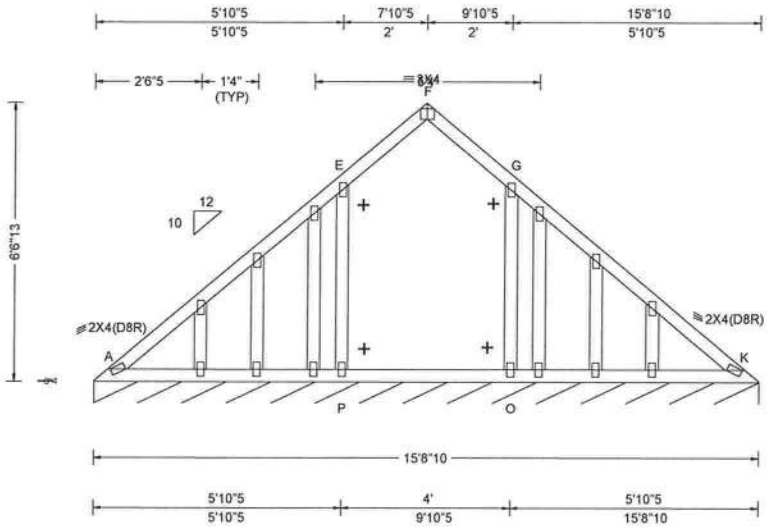
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 609859 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 18-2701B /CONNER RESIDENCE /COLUMBIA CONST. **Truss Label:** V01	Cust: R 215 JRef: 1Wlc2150001 T5 DrwNo: 035.19.1043.50210 KD / FV 02/04/2019



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.55 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: 1.25

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	F	999	240
VERT(CL): 0.005	F	999	180
HORZ(LL): -0.003	E	-	-
HORZ(TL): 0.005	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.059
Max BC CSI: 0.117
Max Web CSI: 0.051

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K*	85	/-	/-	/47	/11	/12

Wind reactions based on MWFRS
K Brg Width = 188 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

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 A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 6-6-13.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.

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No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

02/04/2019

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ALPINE
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Suite 305
Orlando FL, 32821

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

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

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

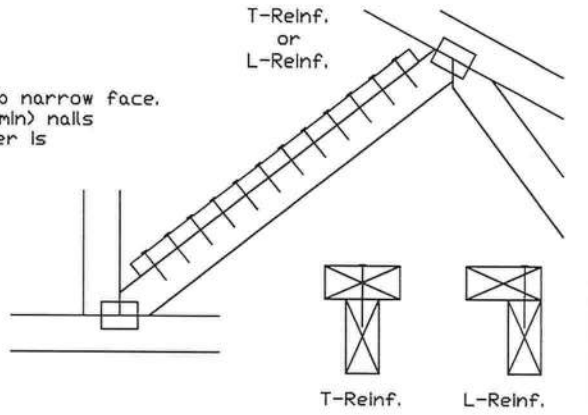
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4 (⊕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6 (⊕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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

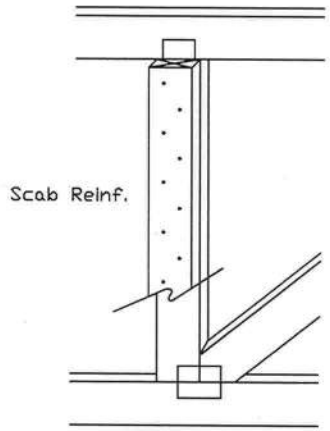
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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13723 Riverport Drive
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Maryland Heights, MO 63043

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FERNANDO M. VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/04/2019

TC	LL	PSF	REF CLR Subst.
TC	DL	PSF	DATE 01/02/19
BC	DL	PSF	DRWG BRCLBSUB0119
BC	LL	PSF	
TOT.	L.D.	PSF	
DUR. FAC.			
SPACING			

Gable Stud Reinforcement Detail

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

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

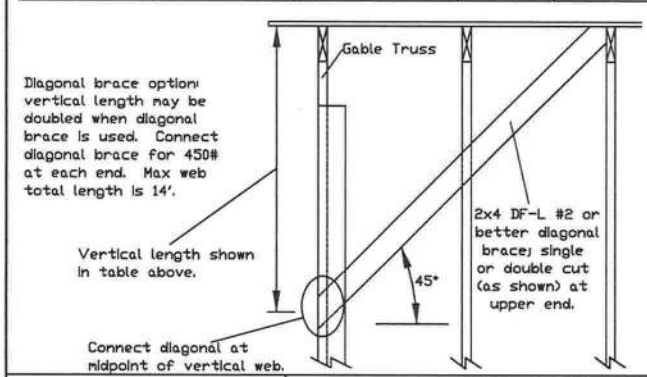
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

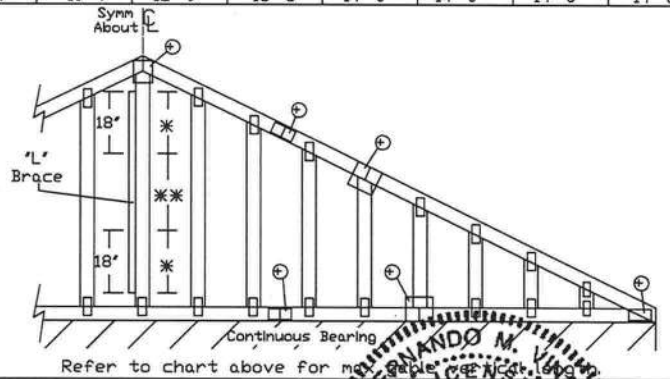
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

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

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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





Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

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

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

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Suite 200
Maryland Heights, MO 63043

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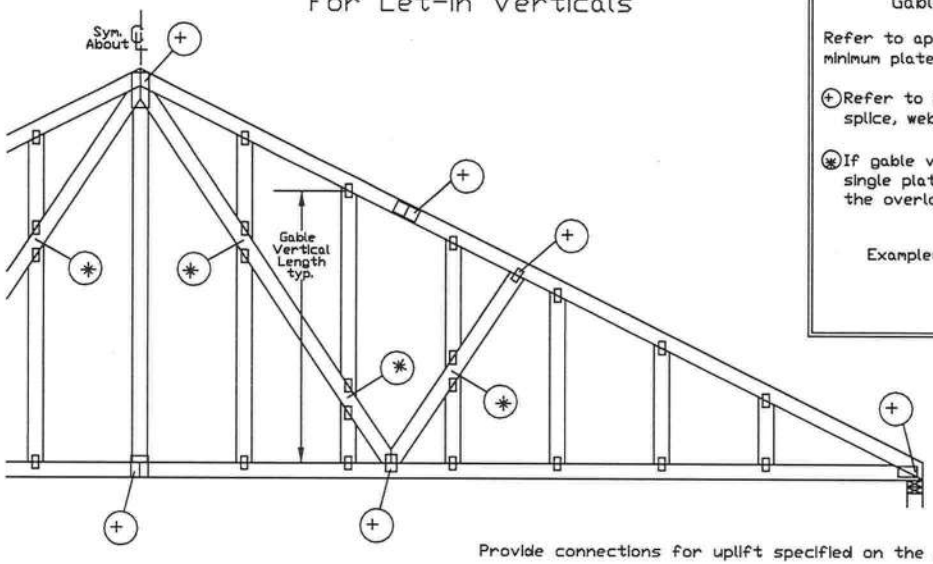
FERNANDO M. VIGIL LICENSE TEXAS No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/04/2019

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB14015
DATE	10/01/14
DRWG	A14015ENC101014

Gable Detail
For Let-in Verticals



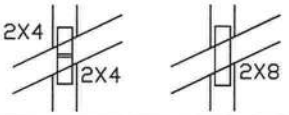
Gable Truss Plate Sizes

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

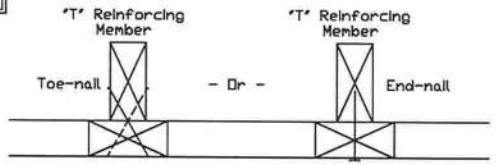
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

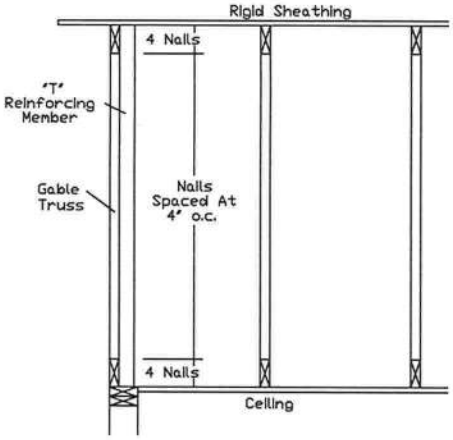
⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



'T' Reinforcement Attachment Detail





Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:
10d Common (0.148"x 3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

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

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

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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

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

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

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

Web Length Increase w/ "T" Brace

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

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, 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"

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FERNANDO M. VINAS
LICENSE
No 70773
STATE OF FLORIDA
PROFESSIONAL ENGINEER
02/04/2019

#0-278

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

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

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

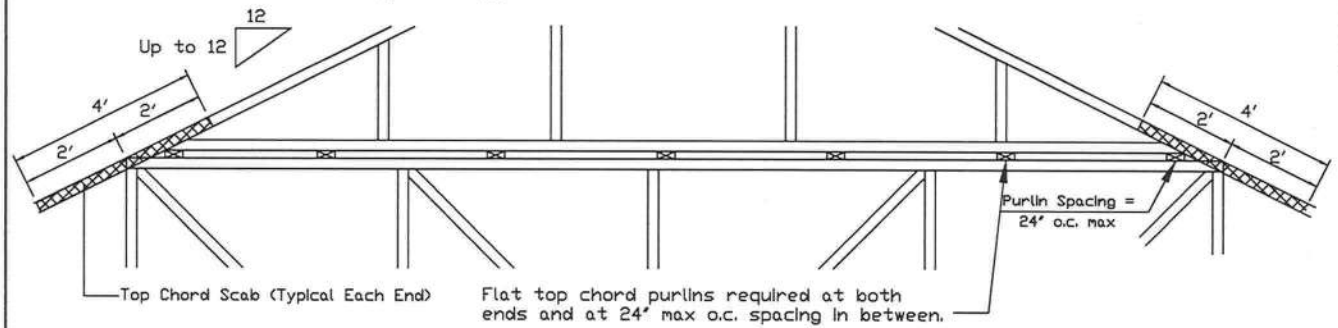
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

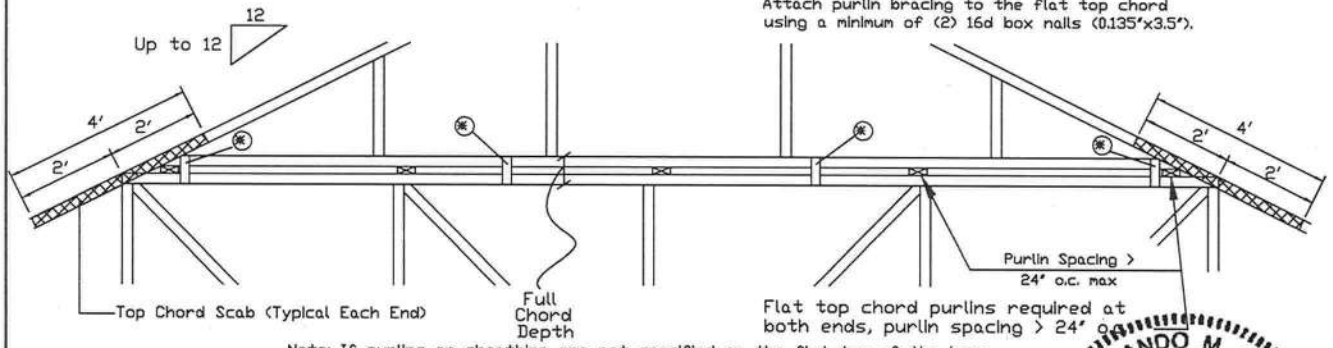
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC 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").



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

* 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 Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"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.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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FERNANDO M. VINAS
LICENSE
No 70773
STATE OF FLORIDA
PROFESSIONAL ENGINEER

02/04/2019

REF	PIGGYBACK
DATE	10/01/14
DRWG	PB160101014
SPACING	24.0"

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

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace * Group A	Group B	(1) 2x4 'L' Brace * Group A	Group B	(2) 2x4 'L' Brace ** Group A	Group B	(1) 2x6 'L' Brace * Group A	Group B	(2) 2x6 'L' Brace ** Group A	Group B
24" 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"
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

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

Douglas Fir-Larch	Southern Pine***
#3	#3
Stud	Stud
Standard	Standard

Group B:

Hem-Fir: #1 & Btr, #1

Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

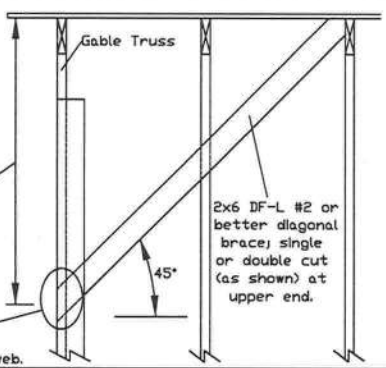
Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

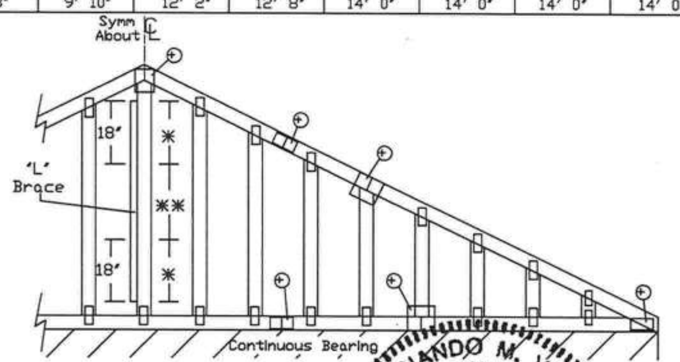
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.





Refer to chart above for max gable vertical length.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

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

**For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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

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02/04/2019

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB14030
DATE	10/01/14
DRWG	A14030ENC101014

#0-278