

DATE 04/09/2019

Columbia County Building Permit

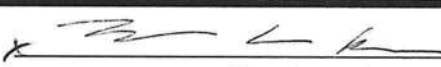
PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000037970

APPLICANT TERRYNCE BING PHONE 352-339-1385  
ADDRESS 1040 SW COUNTY RD 778 HIGH SPRINGS FL 32643  
OWNER TERRYNCE L. BING PHONE 352-339-1385  
ADDRESS 1040 SW COUNTY RD 778 HIGH SPRINGS FL 32643  
CONTRACTOR TERRYNCE BING PHONE 352-339-1385  
LOCATION OF PROPERTY 441 S. R CR-778, APPROX. 1 MILE ON LEFT  
TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 64500.00  
HEATED FLOOR AREA 1290.00 TOTAL AREA 1290.00 HEIGHT        STORIES 1  
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH        FLOOR SLAB  
LAND USE & ZONING AG-3 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.       

PARCEL ID 16-7S-17-10006-113 SUBDIVISION SUMMERS ACRES UNREC.  
LOT 13 BLOCK        PHASE        UNIT        TOTAL ACRES       

OWNER   
Culvert Permit No.        Culvert Waiver 19-0216 Contractor's License Number LH Applicant/Owner/Contractor TC  
EXISTING        19-0216 LH TC N  
Driveway Connection        Septic Tank Number        LU & Zoning checked by        Approved for Issuance        New Resident        Time/STUP No.       

COMMENTS: BUILDING OUT OF FLOOD ZONE, NOC ON FILE

FLOOR ONE FOOT ABOVE THE ROAD

Check # or Cash 1262

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power        Foundation        Monolithic         
date/app. by        date/app. by        date/app. by         
Under slab rough-in plumbing        Slab        Sheathing/Nailing         
date/app. by        date/app. by        date/app. by         
Framing        Insulation         
date/app. by        date/app. by         
Rough-in plumbing above slab and below wood floor        Electrical rough-in         
date/app. by        date/app. by         
Heat & Air Duct        Peri. beam (Lintel)        Pool         
date/app. by        date/app. by        date/app. by         
Permanent power        C.O. Final        Culvert         
date/app. by        date/app. by        date/app. by         
Pump pole        Utility Pole        M/H tie downs, blocking, electricity and plumbing         
date/app. by        date/app. by        date/app. by         
Reconnection        RV        Re-roof         
date/app. by        date/app. by        date/app. by       

BUILDING PERMIT FEE \$ 325.00 CERTIFICATION FEE \$ 6.45 SURCHARGE FEE \$ 6.45  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$         
PLAN REVIEW FEE \$ 81.00 DP & FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$        TOTAL FEE 493.90

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.**

**Columbia County Remodel Permit Application**

**For Office Use Only** Application # 1903-40 Date Received 3-12-19 By LH Permit # 37970  
 Zoning Official 1cr/LH Date 3-15-19 Flood Zone X Land Use AG Zoning A-3  
 FEMA Map # N/A Elevation N/A MFE 1' Above River N/A Plans Examiner TC Date 3-15-19  
 Comments Blkg. Area out of A zone 1' Above Rd. Front 30' Sides 25' Rear 25'  
☒ NOC ☒ Deed or PA ☐ 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  
☒ Site Plan ☒ Env. Health Approval 19-0216 ☒ Sub VF Form

Applicant (Who will sign/pickup the permit) TERRYNCE L. BING Phone 352-339-1385

Address 1040 SW COUNTY ROAD 778, HIGH SPRINGS FL 32643

Owners Name TERRYNCE L. BING Phone 352-339-1385

911 Address 1040 SW COUNTY ROAD 778, HIGH SPRINGS FL 32643

Contractors Name TERRYNCE L. BING Phone \_\_\_\_\_

Address 1040 SW COUNTY ROAD 778, HIGH SPRINGS FL 32643

Contractor Email BOETHEO260@GMAIL.COM \*\*\*Include to get updates on this job.

Fee Simple Owner Name & Address \_\_\_\_\_

Bonding Co. Name & Address \_\_\_\_\_

Architect/Engineer Name & Address Schafer Engineering - 462-1340

Mortgage Lenders Name & Address \_\_\_\_\_

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

Property ID Number 16-2-17-10006-113 Estimated Construction Cost 25000.00

Subdivision Name SUMMER ACRES unrecorded Lot 13 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions from a Major Road FROM 41 - SW ON COUNTY ROAD 778, APPROXIMATELY 1 MILE ON THE LEFT

Construction of Addition family room Commercial OR YES Residential

Type of Structure (House; Mobile Home; Garage; Exxon) ADDITION ON EXISTING HOUSE

Use/Occupancy of the building now TWO OCCUPANTS Is this changing NO

If Yes, Explain, Proposed Use/Occupancy \_\_\_\_\_

Is the building Fire Sprinkled? NO If Yes, blueprints included \_\_\_\_\_ Or Explain \_\_\_\_\_

Entrance Changes (Ingress/Egress) NO If Yes, Explain \_\_\_\_\_

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) 129098A



## Columbia County Building Permit Application

### **CODE: Florida Building Code 2017 6th Edition 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.

TERRYNCE L. BING  
Print Owners Name

Terrynce L. Bing  
Owners Signature

Digitally signed by Terrynce L. Bing  
Date: 2019.02.19 12:05:07 -0500

**\*\*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 \_\_\_\_\_  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

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

SEAL:

\_\_\_\_\_  
State of Florida Notary Signature (For the Contractor)

## NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

16-7S-17-10006-113

Clerk's Office Stamp

Inst: 201912005942 Date: 03/12/2019 Time: 1:35PM  
Page 1 of 1 B: 1380 P: 263, P.DeWitt Cason, Clerk of Court  
Columbia, County, By: BD  
Deputy Clerk

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

1. Description of property (legal description):
  - a) Street (job) Address: 1040 SW CR 778 - High Springs FL 32643
2. General description of improvements: \_\_\_\_\_
3. Owner information or Lessee information if the Lessee contracted for the improvements:
  - a) Name and address: Terryne Bing - 1040 SW CR 778 - High Springs FL 32643
  - b) Name and address of fee simple titleholder (if other than owner): \_\_\_\_\_
  - c) Interest in property: \_\_\_\_\_
4. Contractor Information:
  - a) Name and address: owner - Builder
  - b) Telephone No.: \_\_\_\_\_
5. Surety Information (if applicable, a copy of the payment bond is attached):
  - a) Name and address: \_\_\_\_\_
  - b) Amount of Bond: \_\_\_\_\_
  - c) Telephone No.: \_\_\_\_\_
6. Lender:
  - a) Name and address: \_\_\_\_\_
  - 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: \_\_\_\_\_
  - 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: \_\_\_\_\_ 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. \_\_\_\_\_

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Terryne L Bing / Owner  
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 12 day of March, 2019, by:

Terryne Bing as owner for Self  
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known ☒ OR Produced Identification \_\_\_\_\_ Type \_\_\_\_\_

Notary Signature

[Signature]

Notary Stamp







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

PERMIT NO. 19-0216  
DATE PAID: 3/18/19  
FEE PAID: 600.00  
RECEIPT #: 1403701

## APPLICATION FOR:

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

APPLICANT: Terryne BingAGENT: ROCKY FORD, A & B CONSTRUCTIONTELEPHONE: 386-497-2311MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038

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

## PROPERTY INFORMATION

LOT: 13 BLOCK: NA SUB: Summer's Acres UNREC PLATTED: NAPROPERTY ID #: 16-7S-17-10006-113 ZONING: \_\_\_\_\_ I/M OR EQUIVALENT: ☐ Y ☒ NPROPERTY SIZE: 10.45 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤2000GPD ☐ >2000GPDIS SEWER AVAILABLE AS PER 381.0065, FS? ☐ Y ☒ N DISTANCE TO SEWER: NA FTPROPERTY ADDRESS: 1040 CR 778 High Springs FLDIRECTIONS TO PROPERTY: 441 South Right on CR 778 to #1040 on Left

## BUILDING INFORMATION

☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SF Residential	0	1290	
2	Addition: Game room			
3				

☐ Floor/Equipment Drains ☐ Other (Specify) \_\_\_\_\_SIGNATURE: Rocky D. Ford DATE: 3/11/2019

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

Permit Application Number 19-0214

T. Bing

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

Scale: 1 inch = 40 feet.

See  
attached

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

Site Plan submitted by: Rocky D. 7-D

Plan Approved [Signature]

By [Signature]

Not Approved SI

Columbia

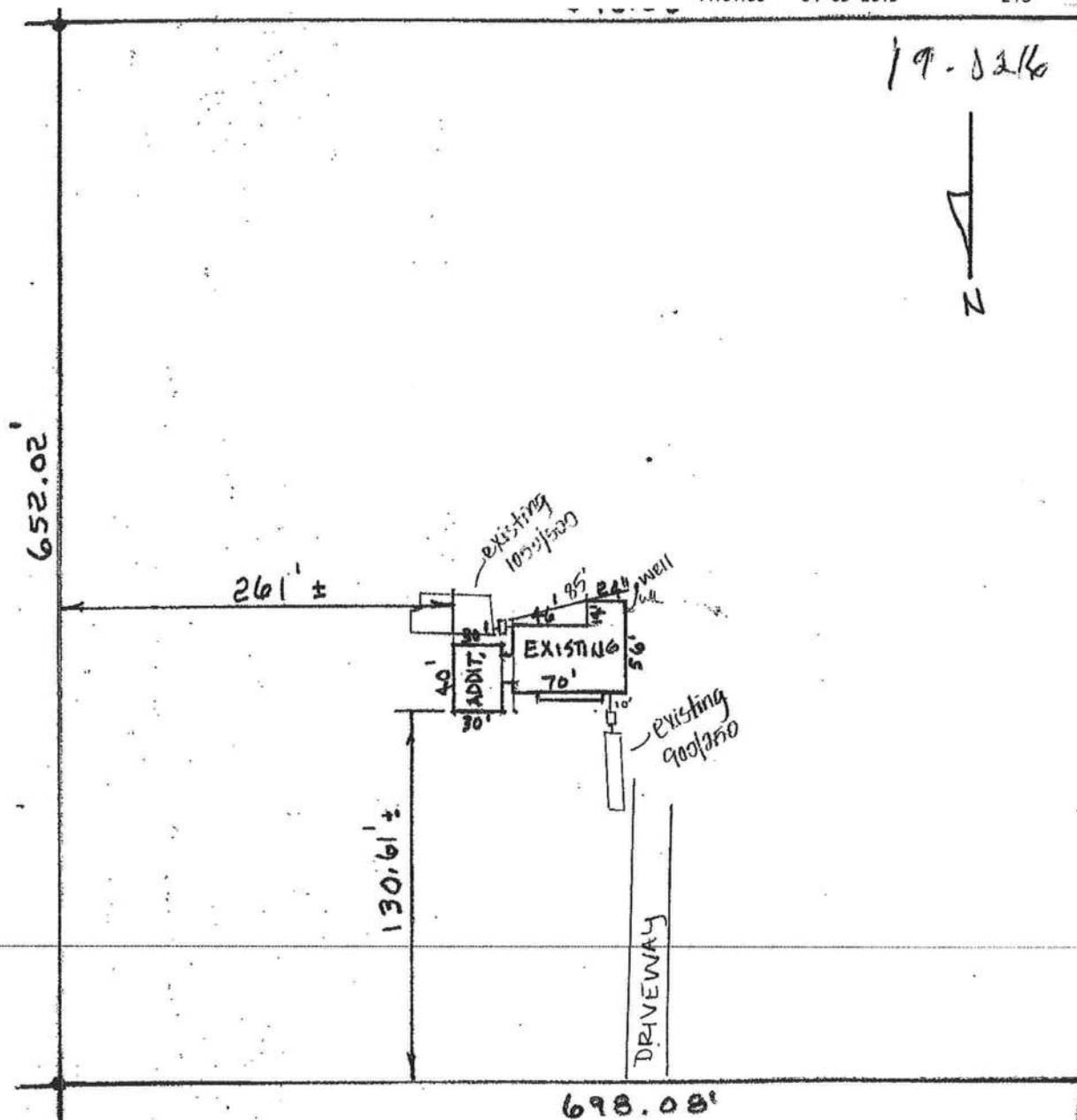
MASTER CONTRACTOR

Date 3/11/19

County Health Department

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT**

19-02/6



COUNTY ROAD NO. 778

SITE PLAN

SCALE: 1"=100'-0"

DESCRIPTION

AKA LOT 13 SUMMERS ACRES UNRI COMM NW CO  
S R/W CR-778 FOR POB, RUN EAST ALONG R/W 698.08 FT, N 652.02 FT TO POB, OR B 969.2159 PAR



## Legend

2016Aerials

Parcels

Subdivisions

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-1

PRD

PRRD

RMF-1

RMF-2

RO

RR

RSF-1

RSF-2

RSF-3

RSF/MH-1

RSF/MH-2

RSF/MH-3

DEFAULT

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

FutureLandUseMap

Mixed Use Development

Light Industrial

Industrial

Highway Interchange

Commercial

Residential High Density

(< 20 d.u. per acre)

Residential Medium/High Density

(< 14 d.u. per acre)

Residential Medium Density

(< 8 d.u. per acre)

Residential Moderate Density

(< 4 d.u. per acre)

Residential Low Density

(< 2 d.u. per acre)

# Columbia County, FLA - Building & Zoning Property Map

Printed: Fri Mar 15 2019 07:29:51 GMT-0400 (Eastern Daylight Time)



## Parcel Information

Parcel No: 16-7S-17-10006-113

Owner: BING TERRYNCE L & ALBERTA M

Subdivision: SUMMER'S ACRES UNR

Lot:

Acres: 10.437355

Deed Acres: 10.45 Ac

District: District 4 Toby Witt

Future Land Uses: Agriculture - 3

Flood Zones: A,

Official Zoning Atlas: A-3

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



**Columbia County Property Appraiser**

Jeff Hampton

**2018 Tax Roll Year**

updated: 3/5/2019

Parcel: (&lt;&lt; 16-7S-17-10006-113 &gt;&gt;)

Aerial Viewer Pictometry Google Maps

**Owner & Property Info**

Result: 3 of 10

Owner	BING TERRYNCE L & ALBERTA M P O BOX 2595 HIGH SPRINGS, FL 326552595		
Site	1040 COUNTY ROAD 778 ,		
Description*	AKA LOT 13 SUMMER'S ACRES UNR: COMM NW COR, RUN S 80.15 FT TO S R/W CR-778 FOR POB, RUN E ALONG R/W 698.08 FT, S 652.02 FT, W 698.08 FT, N 652.02 FT TO POB. ORB 969-2159.		
Area	10.45 AC	S/T/R	16-7S-17
Use Code**	SINGLE FAM (000100)	Tax District	3

\*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

\*\*The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

**Property & Assessment Values**

2018 Certified Values		2019 Working Values	
Mkt Land (1)	\$99,738	Mkt Land (1)	\$99,738
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (1)	\$200,484	Building (1)	\$201,824
XFOB (2)	\$4,708	XFOB (2)	\$4,708
Just	\$304,930	Just	\$306,270
Class	\$0	Class	\$0
Appraised	\$304,930	Appraised	\$306,270
SOH Cap [?]	\$39,241	SOH Cap [?]	\$42,442
Assessed	\$258,909	Assessed	\$263,828
Exempt	HX H3 \$50,000	Exempt	HX H3 \$50,000
Total Taxable	county:\$208,909 city:\$208,909 other:\$208,909 school:\$233,909	Total Taxable	county:\$213,828 city:\$213,828 other:\$213,828 school:\$238,828

**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
12/10/2002	\$45,000	969/2159	WD	V	Q	

**▼ Building Characteristics**

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SINGLE FAM (000100)	2003	2432	4133	\$201,824

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

**▼ Extra Features & Out Buildings (Codes)**

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	2003	\$3,308.00	1654.000	0 x 0 x 0	(000.00)
0297	SHED CONCR	2010	\$1,400.00	1.000	0 x 0 x 0	(000.00)



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

### **OWNER BUILDER DISCLOSURE STATEMENT**

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

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

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

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$7500. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

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

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

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

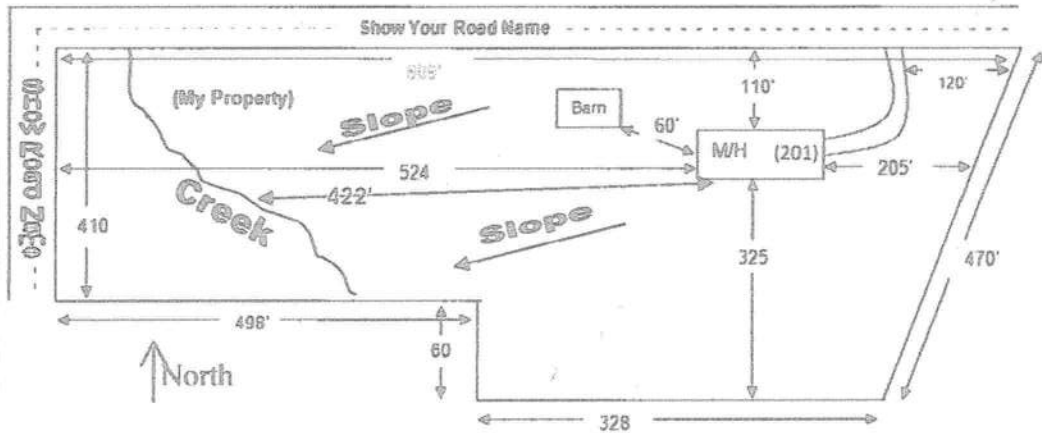


## SITE PLAN CHECKLIST

- \_\_\_ 1) Property Dimensions
- \_\_\_ 2) Footprint of proposed and existing structures (including decks), label these with existing addresses
- \_\_\_ 3) Distance from structures to all property lines
- \_\_\_ 4) Location and size of easements
- \_\_\_ 5) Driveway path and distance at the entrance to the nearest property line
- \_\_\_ 6) Location and distance from any waters; sink holes; wetlands; and etc.
- \_\_\_ 7) Show slopes and or drainage paths
- \_\_\_ 8) Arrow showing North direction

### SITE PLAN EXAMPLE

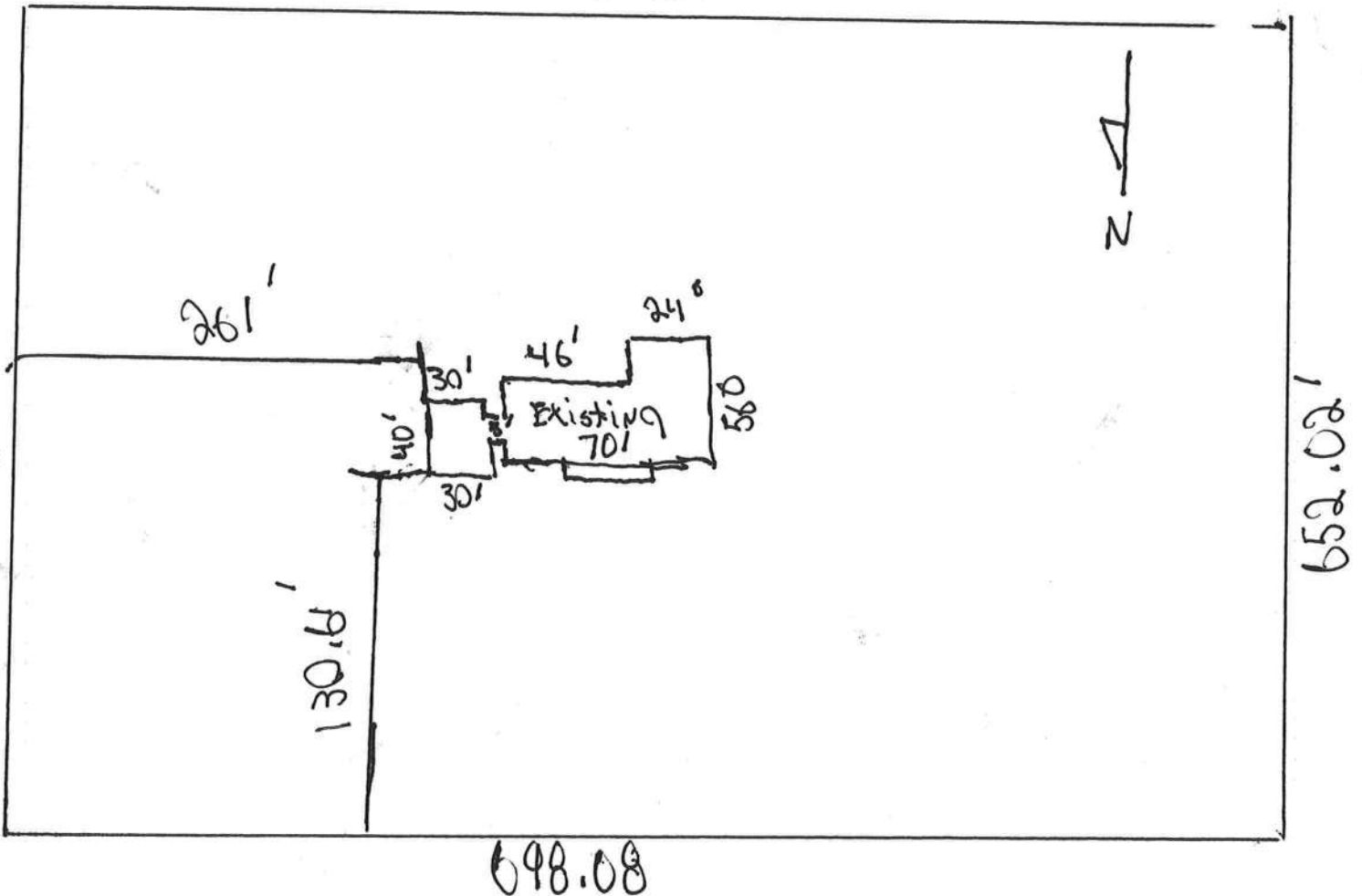
Revised 7/1/15



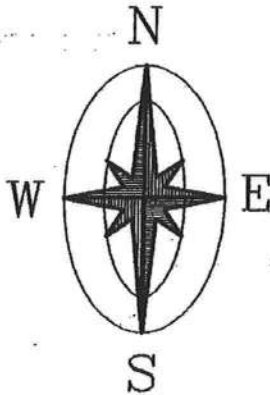
#### NOTE:

This site plan can be copied and used with the 911 Addressing Dept. application forms.

698.08'



# BOUNDARY SURVEY



## PARCEL 13

A PARCEL OF LAND IN SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA; BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND 4" x 4" CONCRETE MONUMENT 'SRD' AT THE NORTHWEST CORNER OF SAID SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST AND RUN THENCE SOUTH 00°15'48" EAST, ALONG THE WEST LINE OF SAID SECTION 16, 80.15 FEET TO A FOUND 4" x 4" CONCRETE MONUMENT 'SRD' ON THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 778 (80 FOOT RIGHT OF WAY) AND THE POINT OF BEGINNING; THENCE NORTH 89°55'25" EAST, ALONG SAID SOUTH RIGHT OF WAY LINE, 698.08 FEET TO A SET 1/2" REBAR & CAP 'PLS 4789'; THENCE SOUTH 00°15'48" EAST, 652.02 FEET TO A SET 1/2" REBAR & CAP 'PLS 4789'; THENCE SOUTH 89°55'25" WEST, 698.08 FEET TO A SET 1/2" REBAR & CAP 'PLS 4789' ON THE WEST LINE OF SAID SECTION 16; THENCE NORTH 00°15'48" WEST, ALONG SAID WEST LINE, 652.02 FEET TO THE POINT OF BEGINNING.

CONTAINING 10.45 ACRES, MORE OR LESS.

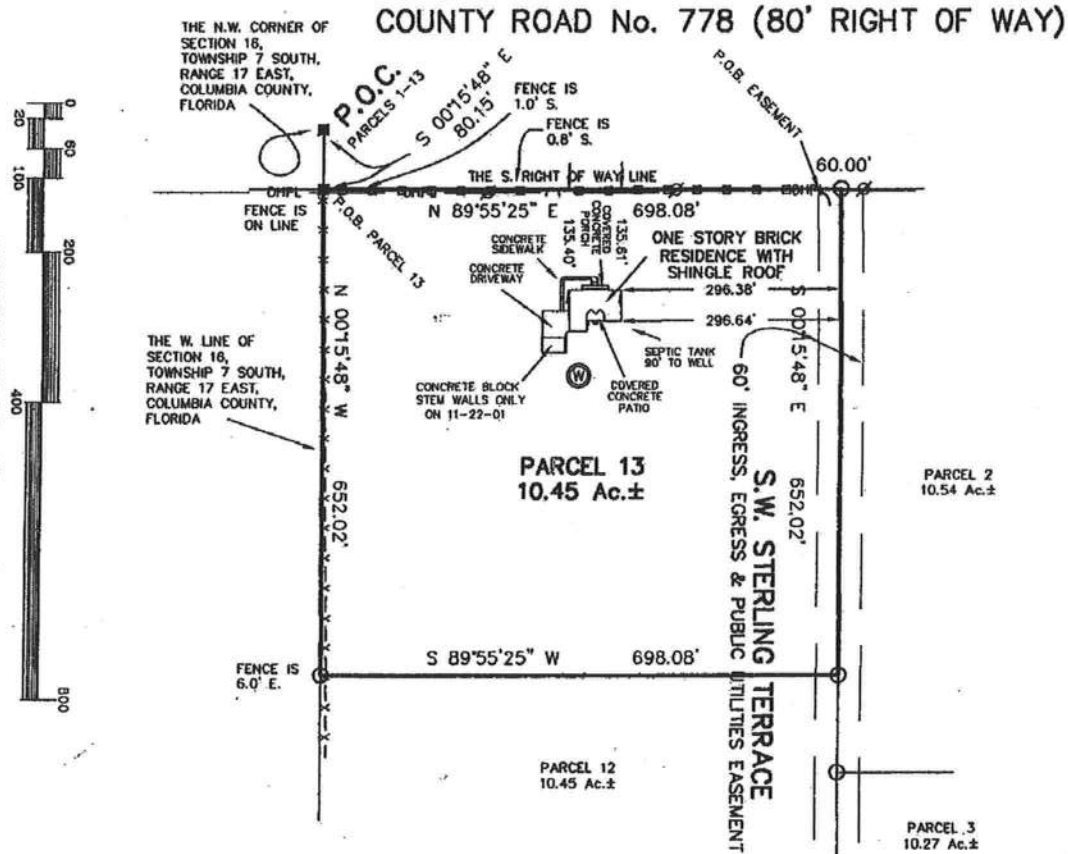
SUBJECT TO & TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND 4" x 4" CONCRETE MONUMENT 'SRD' AT THE NORTHWEST CORNER OF SAID SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST AND RUN THENCE SOUTH 00°15'48" EAST, ALONG THE WEST LINE OF SAID SECTION 16, 80.15 FEET TO A FOUND 4" x 4" CONCRETE MONUMENT 'SRD' ON THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 778 (80 FOOT RIGHT OF WAY); THENCE NORTH 89°55'25" EAST, ALONG SAID SOUTH RIGHT OF WAY LINE, 698.08 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00°15'48" EAST, 3910.47 FEET TO THE SOUTH LINE OF THE NORTH 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 16; THENCE NORTH 89°38'28" EAST, ALONG SAID SOUTH LINE, 80.00 FEET; THENCE NORTH 01°15'48" WEST, 3910.17 FEET TO THE SAID SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 778; THENCE SOUTH 89°55'25" WEST, ALONG SAID SOUTH RIGHT OF WAY LINE, 61.00 FEET TO THE POINT OF BEGINNING.

## LEGEND

- = FOUND 4" x 4" CONCRETE MONUMENT 'SRD.'
- = SET 1/2" REBAR AND CAP 'PLS 4789'
- P.O.C. = POINT OF COMMENCEMENT
- P.O.B. = POINT OF BEGINNING
- PS = POWER POLE
- OHPL = OVERHEAD POWER LINE
- X- = WIRE FENCE
- D- = WOOD FENCE
- ⊙ = 4" WATER WELL

GRAPHIC SCALE: 1" = 200'



## FLOOD CERTIFICATION

THE PARCEL SHOWN HEREON LIES WITHIN ZONE 'X' AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP PANEL 120070-0280 B OF 290 FOR COLUMBIA COUNTY FLORIDA SAID MAP DESCRIBES ZONE 'X' AS BEING AREAS OUTSIDE 500-YEAR FLOOD. EFFECTIVE DATE 01-06-1988

## CERTIFIED TO:

TERRYNCE BING, ALBERTA BING,

WELLS FARGO HOME MORTGAGE, INC.,

DARRYL J. TOMPKINS, P.A.,

FIRST AMERICAN TITLE INSURANCE COMPANY

I HEREBY CERTIFY THAT A SURVEY OF THE HEREON DESCRIBED LAND WAS MADE UNDER MY RESPONSIBLE DIRECTION AND THAT THIS IS A TRUE AND CORRECT REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF AND FURTHER THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS IN CHAPTER 81G17-8 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

## NOTES:

- BEARINGS BASED ON EXISTING DEED DATUM FOR CO. RD. 778.
- NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS NOTED.
- NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS OF WAY, AND OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.

TYPE SURVEY	FIELD WORK COMPLETED	DRAWING COMPLETED	PROJECT NO.	FIELD BOOK	PAGE
BOUNDARY SURVEY	12-02-02	12-04-02	02-408	62	43
FOUNDATION SURVEY	03-18-03	03-19-03	03-78	62	67
FINAL SURVEY	09-30-03	09-30-03	03-296	63	89

## DAVID D. PARRISH LAND SURVEYING, INC.

12806 N.W. 142nd TERRACE, ALACHUA FL 32615 (386)462-5427  
FAX (386)462-7789

DAVID D. PARRISH, P.L.S.

Registered Florida Land Surveyor No. 4789

09-30-03  
Date Signed

REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SIGNED BY THE SURVEYOR AND SEALED WITH HIS EMBOSSED SURVEYOR'S SEAL, NUMBER 4789.

# SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1903-40 JOB NAME Bing

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

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

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

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

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

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

<b>ELECTRICAL</b> <input checked="" type="checkbox"/>	Print Name <u>Lyndon Rainbolt</u> Signature <u>Lyndon Rainbolt</u> Company Name: <u>Rainbolt Tech Services</u> License #: <u>EG 13001835</u> Phone #: <u>386-867-7878</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>MECHANICAL/</b> <b>A/C</b> <u>A</u> <input checked="" type="checkbox"/>	Print Name <u>Lyndon Rainbolt</u> Signature <u>Lyndon Rainbolt</u> Company Name: <u>Rainbolt Tech Services</u> License #: <u>RA 006590</u> Phone #: <u>386-867-7878</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>PLUMBING/</b> <b>GAS</b> <input type="checkbox"/>	Print Name <u>N/A</u> Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>ROOFING</b> <input checked="" type="checkbox"/>	Print Name <u>TERRYNCE L. BING</u> Signature <u>Terrynce L. Bing</u> Company Name: <u>OWNER</u> License #: _____ Phone #: <u>352-339-1385</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>SHEET METAL</b> <input type="checkbox"/>	Print Name <u>N/A</u> Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>FIRE SYSTEM/</b> <b>SPRINKLER</b> <input type="checkbox"/>	Print Name <u>N/A</u> Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>SOLAR</b> <input type="checkbox"/>	Print Name <u>N/A</u> Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
<b>STATE</b> <b>SPECIALTY</b> <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE





## **COLUMBIA COUNTY BUILDING DEPARTMENT**

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

### **OWNER BUILDER DISCLOSURE STATEMENT**

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

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

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

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

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

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

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

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

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

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

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

---

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

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

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

#### TYPE OF CONSTRUCTION

- ☐ Single Family Dwelling    ☐ Two-Family Residence    ☐ Farm Outbuilding  
☐ Addition, Alteration, Modification or other Improvement  
☐ Commercial, Cost of Construction \_\_\_\_\_ for construction of \_\_\_\_\_  
☐ Other \_\_\_\_\_

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

 \_\_\_\_\_ Date 3-12-19  
Owner Builder Signature

#### NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification \_\_\_\_\_

Notary Signature \_\_\_\_\_ Date \_\_\_\_\_ (Seal)

#### FOR BUILDING DEPARTMENT USE ONLY

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

Building Official/Representative \_\_\_\_\_



E



Prepared for:

BING ADDITION  
1040 SW COUNTY ROAD 778  
HIGH SPRINGS, FLORIDA

By:

Schafer Engineering, LLC CA9312

386-462-1340



*NO COPIES ARE TO BE PERMITTED*

# SCHAFFER ENGINEERING, LLC ca9312

February 4, 2019

SUMMARY: Wind Load Analysis for Bing Residence

Wind Speed: 135 M.P.H. \ No Copies Permitted \ FBC-2017 \ Not Valid without raised seal

## Foundation:

24" wide x 12" deep stemwall footing with (3) #5 rebar continuous minimum. CMU walls must have #5 dowels at 48" o.c. maximum with a standard 90 degree ACI hook in footing and a 4" slab on grade. If monolithic slab is to be used: 12" wide x 20" deep minimum with (2) #5 rebar continuous with 12" minimum coverage on face of foundation. Fiber mesh or wwm may be used in concrete slab. All steel must be grade 40 minimum. Minimum 1500 psf soil bearing pressure.

## Walls:

8" CMU block with durawall at 24" o.c. Install vertical #5 reinforcing bar in grout filled cell at 48" o.c. maximum spacing. Wall heights are 10' maximum. Provide an 8" x 8" bond beam with 1-#5 rebar horizontal continuous at the top course. Install pre-cast, pre-engineered lintels spanning over all openings. One #5 vertical rebar each corner. One #5 vertical rebar each side of door and window openings. Two #5 vertical rebar in openings wider than 12'-0". One #5 vertical rebar cont. where any girders or girder trusses bear on masonry wall.

## Shearwalls:

Transverse: 27'-0" Longitudinal: 14'-0"


Allowable plf shear on shearwalls: 1250 \ Shear from diaphragm: Trs: 424 plf Long: 314 plf

## Trusses:

Pre-engineered Pre-fabricate trusses with the bracing system designed by the manufacturer. Trusses must be installed and anchored according to the truss engineering requirements. Trusses must bear on exterior walls and porch headers.

## Roof Sheathing:

7/16" osb minimum attached to the top chords of the trusses with 8d/113 gauge ring shank nails spaced at 4" o.c. edges and 6" interior.



2-13-19

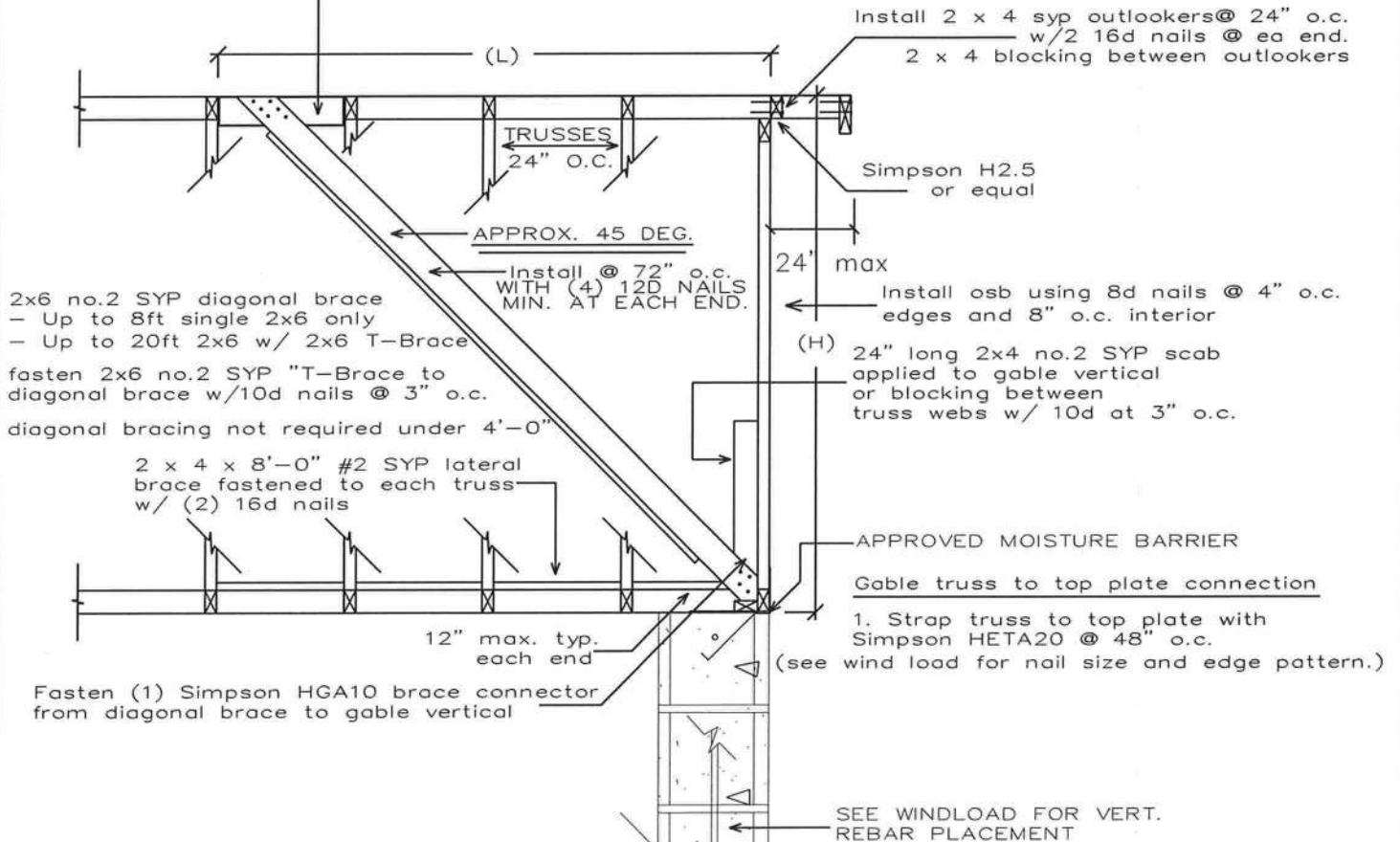
Bruce Schafer P. E. #48984

7104 N. W. 42<sup>nd</sup> Lane \ Gainesville, Florida 32606

# SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606  
PHONE: 386-462-1340

Toe-Nail min 2x6 No 2 SYP blocking  
between truss top chords with  
(3) 10d each end min.



2x6 #2 SYP diagonal brace  
@ 72" o.c.

Fasten (1) Simpson HGA10 brace  
connector from the diagonal  
brace to gable vertical

2 x 4 x 8'-0" #2 SYP lateral  
brace @ 48" o.c. fastened to  
each truss connection w/ (2) 16d nails

2x4 #2 SYP continuous blocking  
fasten to dbl top plate w/ 10d  
at 3" o.c.

## TYPICAL GABLE END BRACING

2-13-19

Bruce Schafer, P. E. #48984 CA #9312  
7104 NW 42ND LN  
GAINESVILLE, FL. 32606

# SCHAFFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606  
PHONE: 386-462-1340

---

## TIE-DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA9	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	2565
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	2565
to 3665	3-TS22	HD5A	3645
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	8160

Two 12d common toenails 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	2200

1. Simpson or equivalent 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)	40	Deg
Type of Roof	Gabled	
Eave Height (Eht)	10.00	ft
Ridge Height (RHt)	24.17	ft
Mean Roof Height (Ht)	17.09	ft
Width Perp. to Wind (B)	30.00	ft
Width Parallel to Wind (L)	40.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.57
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	$(1/(1+0.63*((B+Ht)/Lzm)^{0.63}))^{0.5}$	0.9159
Gust2	$0.925 * ((1+1.7 * lzm * 3.4 * Q)/(1+1.7 * 3.4 * lzm))$	0.8753
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	$4.6 * NatFreq * Ht / Vzm$	0.90
Nb	$4.6 * NatFreq * B / Vzm$	1.59
Nd	$15.4 * NatFreq * Depth / Vzm$	7.08
Rh	$1/Nh - (1/(2 * Nh^2) * (1 - Exp(-2 * Nh)))$	0.5948
Rb	$1/Nb - (1/(2 * Nb^2) * (1 - Exp(-2 * Nb)))$	0.4400
Rd	$1/Nd - (1/(2 * Nd^2) * (1 - Exp(-2 * Nd)))$	0.1313
RR	$((1/Beta) * Rn * Rh * Rb * (0.53 + 0.47 * Rd))^{0.5}$	0.9857
gg	$+(2 * LN(3600 * n1))^{0.5} + 0.577 / (2 * LN(3600 * n1))^{0.5}$	4.19
Gust3	$0.925 * ((1 + 1.7 * lzm * (3.4^2 * Q^2 + GG^2 * RR^2)^{0.5}) / (1 + 1.7 * 3.4 * lzm))$	1.23

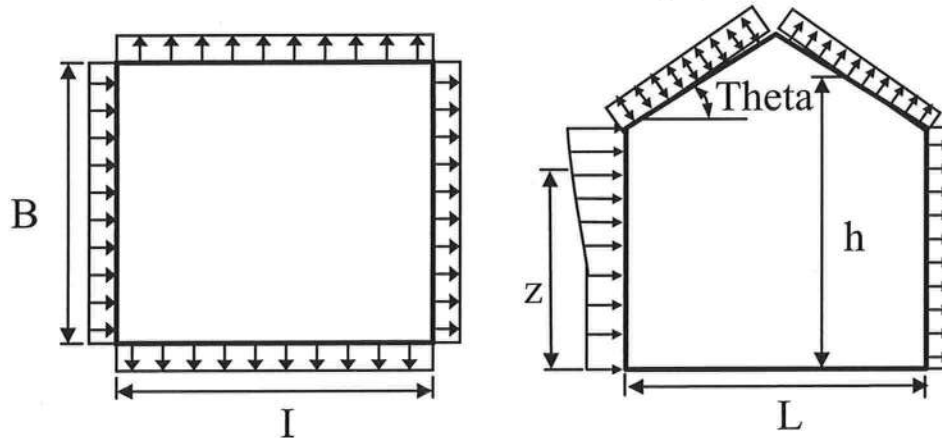
Gust Factor Summary			
Main Wind-force resisting system:		Components and Cladding:	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.88	Gust Factor (G)	0.88

### 6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev. ft	Kz	Kzt	Kd	qz lb/ft <sup>2</sup>	Pressure (lb/ft <sup>2</sup> )	
					Windward Wall*	
			1.00		+GCpi	-GCpi
24.17	0.70	1.00	1.00	32.69	17.88	27.90
20	0.70	1.00	1.00	32.69	17.88	27.90
17.09	0.70	1.00	1.00	32.69	17.88	27.90
15	0.70	1.00	1.00	32.69	17.88	27.90

**Figure 6-3 - External Pressure Coefficients, Cp**

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	$2.01 \cdot (H_t/z_g)^{2/\alpha}$	0.60	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	$.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot K_h \cdot K_{ht} \cdot K_d$	27.83	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 30 ft wall)	-0.43	-15.57	-5.55
Leeward Walls (Wind Dir Parallel to 40 ft wall)	-0.50	-17.19	-7.17
Side Walls	-0.70	-22.06	-12.04
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	-19.63	-9.61
Overhang Top	0.00	0.00	0.00
Overhang Bottom	0.80	0.70	0.70
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 8.545 ft	-0.90	-26.94	-16.92
Dist from Windward Edge: 8.545 ft to 17.09 ft	-0.90	-26.94	-16.92
Dist from Windward Edge: 17.09 ft to 34.18 ft	-0.50	-17.19	-7.17
Dist from Windward Edge: > 34.18 ft	-0.30	-12.32	-2.30

\* Horizontal distance from windward edge

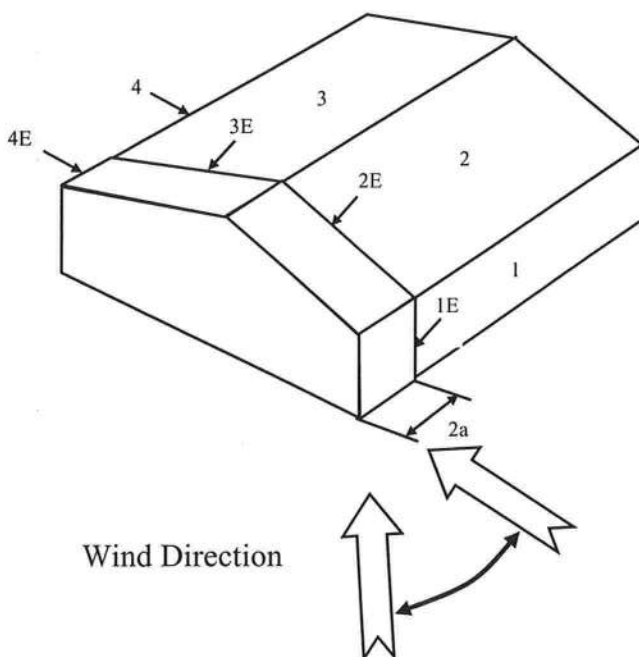
**Figure 6-4 - External Pressure Coefficients, GCpf**

Loads on Main Wind-Force Resisting Systems w/ Ht ≤ 60 ft

$$\begin{aligned}
 K_h &= 2.01 \cdot (H_t/z_g)^{2/\alpha} &= & 0.60 \\
 K_{ht} &= \text{Topographic factor (Fig 6-2)} &= & 1.00 \\
 Q_h &= 0.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot K_h \cdot K_{ht} \cdot K_d &= & 27.83
 \end{aligned}$$

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

$$* p = q_h \cdot (GC_{pf} - GC_{pi})$$

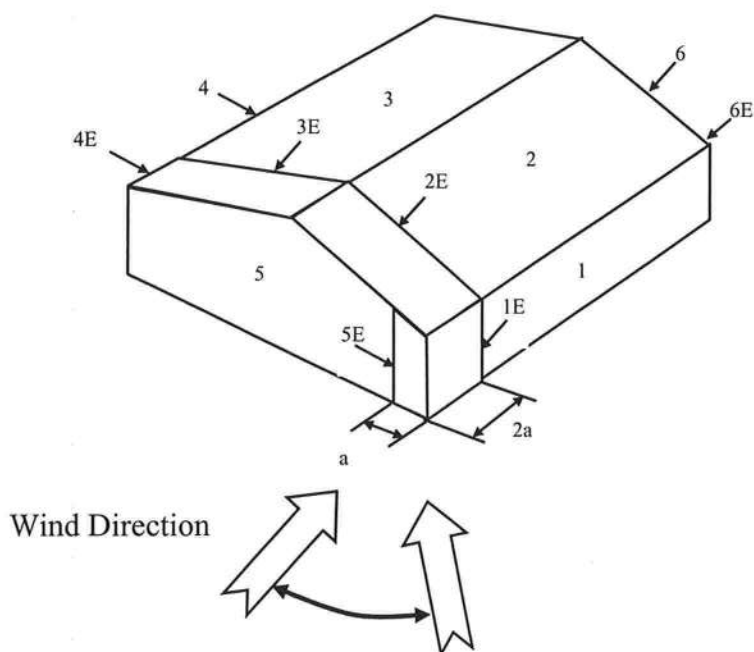
**Figure 6-4 - External Pressure Coefficients, GCpf**

Loads on Main Wind-Force Resisting Systems w/ Ht ≤ 60 ft

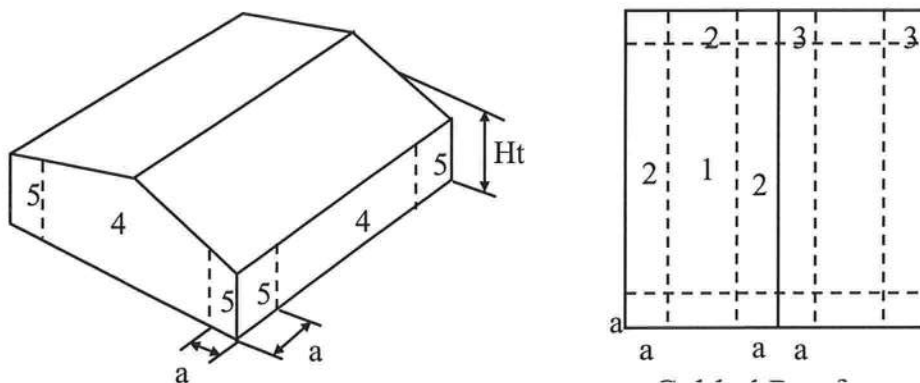
$$\begin{aligned}
 K_h &= 2.01 \cdot (H_t/z_g)^{2/\alpha} &= & 0.60 \\
 K_{ht} &= \text{Topographic factor (Fig 6-2)} &= & 1.00 \\
 Q_h &= 0.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot K_h \cdot K_{ht} \cdot K_d &= & 27.83
 \end{aligned}$$

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/  $H_t \leq 60$  ft





$\mathfrak{d}$ 

Gabled Roof  
 $10 < \text{Theta} \leq 45$

$a = 3 \implies \boxed{3.00 \text{ ft}}$

[illegible]

Note: \* Enter Zone 1 through 5, or 1H through 3H for overhangs.

**Table 6-7 Internal Pressure Coefficients for Buildings,  $G_{cpi}$**

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
<b>Enclosed Buildings</b>	<b>0.18</b>	<b>-0.18</b>

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE/DOUBLE HUNG	<i>Simetex</i>	<i>Single Hung Frame</i>	<i>FL:17676</i>
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES	<i>Cardmark</i>	<i>20 GA Hunter Green</i>	<i>FL5444-R14</i>
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
<b>6. NEW EXTERIOR</b>			
<b>ENVELOPE PRODUCTS</b>			



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

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor OR Agent Signature \_\_\_\_\_

Date \_\_\_\_\_

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

\_\_\_\_\_



Lumber design values are in accordance with ANSI/TPI 1 section 6.3  
These truss designs rely on lumber values established by others.

RE: Terrynce\_Bing - Terrynce Bing

**MiTek USA, Inc.**

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: Terrynce Bing Project Name: . Model: .  
Lot/Block: . Subdivision: .  
Address: ., .  
City: High Springs State: FL

**Name Address and License # of Structural Engineer of Record, If there is one, for the building.**

Name: License #:  
Address:  
City: State:

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2  
Wind Code: ASCE 7-10 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 11 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T16324065	A1GE	2/21/19
2	T16324066	A2	2/21/19
3	T16324067	A3	2/21/19
4	T16324068	A4GIR	2/21/19
5	T16324069	A5GIR	2/21/19
6	T16324070	A6GIR	2/21/19
7	T16324071	B2	2/21/19
8	T16324072	PB1GE	2/21/19
9	T16324073	PB2	2/21/19
10	T16324074	PB3	2/21/19
11	T16324075	PB4	2/21/19



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Albani, Thomas

My license renewal date for the state of Florida is February 28, 2021.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



February 21, 2019

Albani, Thomas

1 of 1

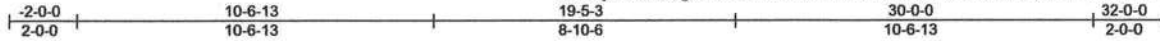


Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324065
Terrynce_Bing	A1GE	PIGGYBACK BASE SUPPO	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:01:59 2019 Page 1

ID:nRcy3UA5G8zg5GU3elt2w9znbcf-nMtUw079FY3LZGWSnxOVQ36NPB8HzHUsHY1wiqziy66



Scale = 1:66.0

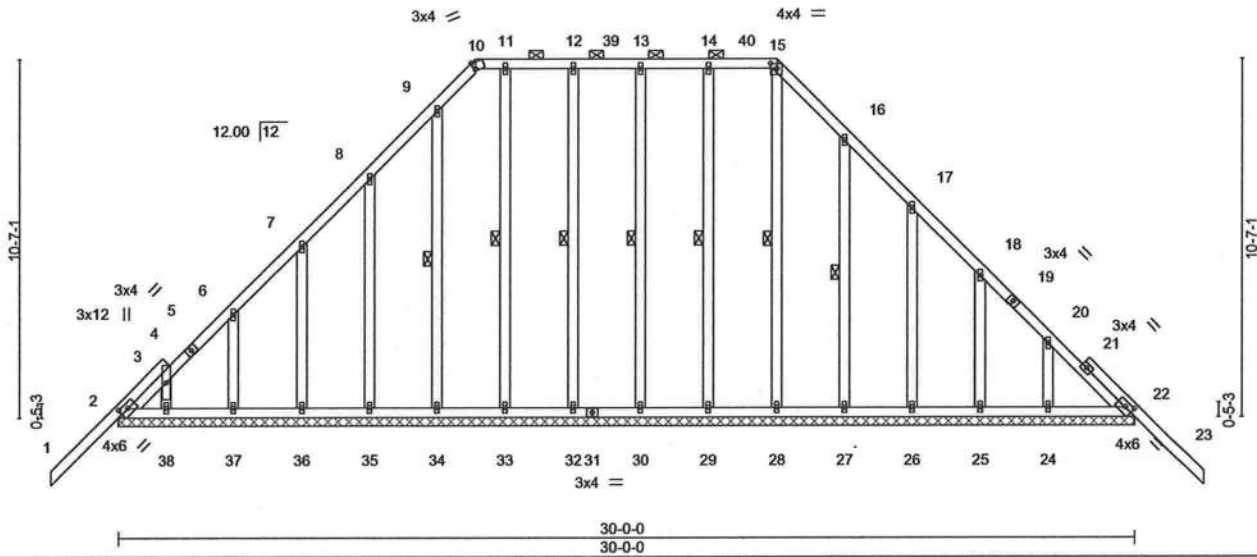


Plate Offsets (X,Y)- [2-0-2-12,0-1-13], [10-0-0-11,Edge], [15-0-2-4,0-1-12], [22-0-2-12,0-1-13]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.02	23	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.04	23	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 257 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-15.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 15-28, 14-29, 13-30, 12-32, 11-33, 9-34, 16-27

**REACTIONS.** All bearings 30-0-0.  
(lb) - Max Horz 2=-263(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 35, 36, 37, 27, 26, 25, 22  
Max Grav All reactions 250 lb or less at joint(s) 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 27, 26, 25, 24 except 2=-266(LC 1), 22=-278(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD 2-38=-191/286, 37-38=-199/287, 36-37=-199/287, 35-36=-199/287, 34-35=-199/287, 33-34=-199/287, 32-33=-199/287, 30-32=-199/287, 29-30=-199/287, 28-29=-199/287, 27-28=-199/287, 26-27=-199/287, 25-26=-199/287, 24-25=-199/287, 22-24=-199/287

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 35, 36, 37, 27, 26, 25, 22.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Thomas A. Albani PE No. 39380  
MiTek USA, Inc. FL Cert 6834  
6834 Parke East Blvd. Tampa, FL 33610  
Q880

February 21, 2019

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

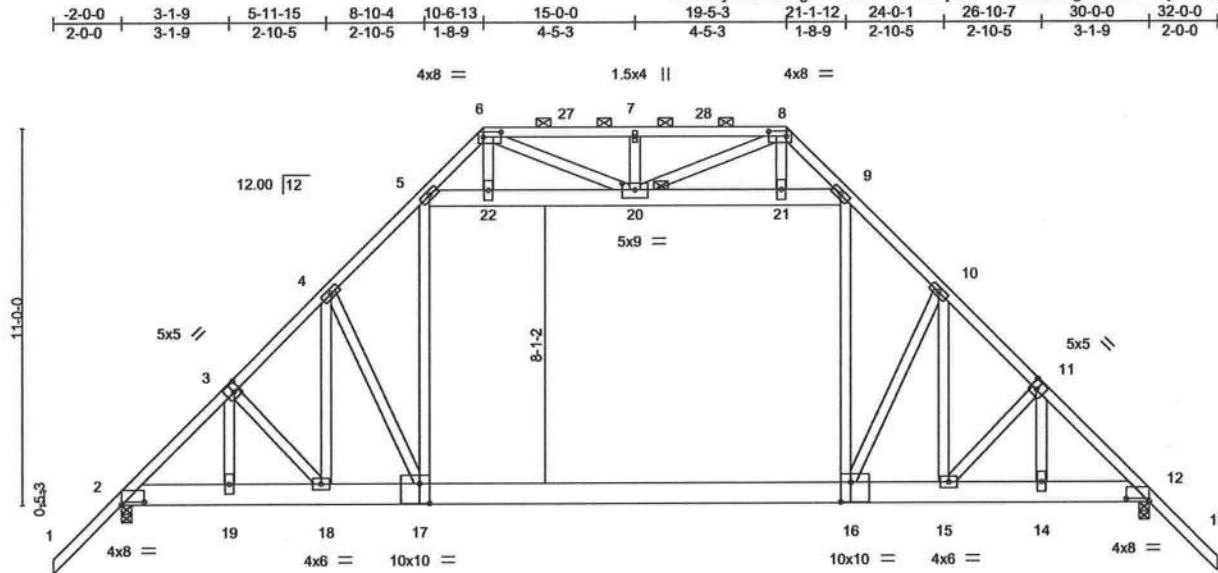


6904 Parke East Blvd.  
Tampa, FL 33610

Job Terryne Bing	Truss A2	Truss Type ATTIC	Qty 8	Ply 1	Terryne Bing	T16324066
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:01 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-jk?FLh1PnAK3oagFuMQzVUBju7isR9i9lsW1njziy64



Scale = 1:65.2

Plate Offsets (X,Y)-	2:0-8-0,0-0-15	3:0-2-4,0-3-0	6:0-6-4,0-1-12	8:0-6-4,0-1-12	11:0-2-4,0-3-0	12:0-8-0,0-0-15	16:0-3-8,0-7-0	17:0-3-8,0-7-0	20:0-4-8,0-2-4
----------------------	----------------	---------------	----------------	----------------	----------------	-----------------	----------------	----------------	----------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.19 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.29 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-AS	Attic	-0.15 16-17	989	360		
								Weight: 286 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
5-9: 2x6 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (6-0-0 max.): 6-8.  
BOT CHORD Rigid ceiling directly applied.  
JOINTS 1 Brace at Jt(s): 20

**REACTIONS.** (lb/size) 2=1532/0-3-8, 12=1532/0-3-8  
Max Horz 2=-272(LC 10)  
Max Grav 2=1801(LC 18), 12=1801(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2191/4, 3-4=-2083/72, 4-5=-2144/94, 5-6=-670/166, 6-7=-783/246, 7-8=-783/246,  
8-9=-670/166, 9-10=-2147/95, 10-11=-2080/73, 11-12=-2185/5  
BOT CHORD 2-19=0/1690, 18-19=0/1689, 17-18=0/1587, 16-17=0/1550, 15-16=0/1448, 14-15=0/1534,  
12-14=0/1535  
WEBS 4-18=-464/163, 4-17=-273/328, 5-17=0/1064, 5-22=-1061/36, 20-22=-1041/36,  
20-21=-1043/36, 9-21=-1063/36, 9-16=0/1064, 10-16=-273/328, 10-15=-464/161,  
7-20=-292/135, 6-20=-118/392, 8-20=-118/392

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 3x7 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 5-22, 20-22, 20-21, 9-21; Wall dead load (5.0psf) on member(s). 5-17, 9-16
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.



Thomas A. Albani PE No. 39380  
MiTek USA, Inc. FL Cert 5534  
6904 Parke East Blvd. Tampa, FL 33611  
Date:

February 21, 2019

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324067
Terrynce_Bing	A3	ATTIC	4	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:05 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-cVEmB34wrOqVHB\_07CVvfKMPfc6mNyljgUUFwUziy60

-2-0-0	3-1-9	5-11-15	8-10-4	10-6-13	15-0-0	19-5-3	21-1-12	24-0-1	26-10-7	30-0-0
2-0-0	3-1-9	2-10-5	2-10-5	1-8-9	4-5-3	4-5-3	1-8-9	2-10-5	2-10-5	3-1-9

Scale: 3/16"=1'

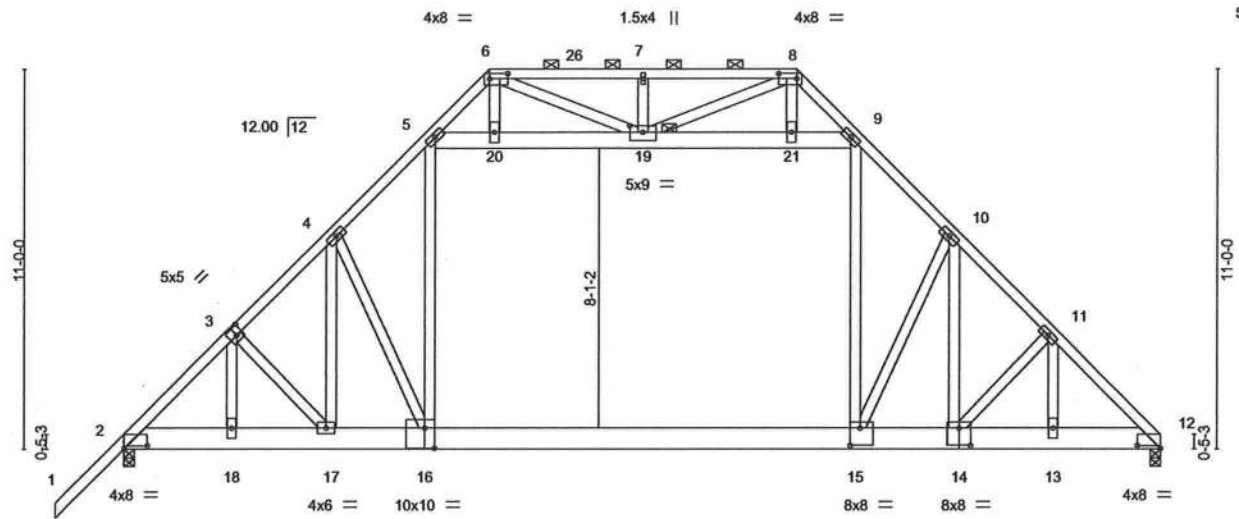


Plate Offsets (X,Y)--	[2-0-8-0,0-0-15], [3-0-2-4,0-3-0], [6-0-6-4,0-1-12], [8-0-6-4,0-1-12], [12-0-8-0,0-0-15], [14-0-4-0,0-0-6-0], [15-0-3-8,0-0-6-0], [16-0-3-8,0-7-0], [19-0-4-8,0-2-4]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	-0.19 15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.29 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.15 15-16	1013	360	Weight: 282 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
5-9: 2x6 SP No.2

**REACTIONS.** (lb/size) 12=1407/0-3-8, 2=1536/0-3-8  
Max Horz 2=255(LC 11)  
Max Grav 12=1676(LC 19), 2=1800(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2190/16, 3-4=-2082/82, 4-5=-2149/110, 5-6=-665/164, 6-7=-785/247,  
7-8=-785/247, 8-9=-667/165, 9-10=-2136/112, 10-11=-2096/101, 11-12=-2233/58  
BOT CHORD 2-18=0/1670, 17-18=0/1670, 16-17=0/1566, 15-16=0/1531, 14-15=0/1436, 13-14=0/1531,  
12-13=0/1531  
WEBS 4-17=-469/165, 4-16=-267/333, 5-16=0/1060, 5-20=-1072/50, 19-20=-1052/50,  
19-21=-1047/49, 9-21=-1067/49, 9-15=0/968, 10-15=-298/268, 10-14=-402/199,  
7-19=-301/139, 6-19=-123/401, 8-19=-120/398

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x7 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-20, 19-20, 19-21, 9-21; Wall dead load (5.0psf) on member(s).5-16, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



Thomas A. Albani PE No 39380  
MiTek USA, Inc. FL Cert 6881  
6904 Parke East Blvd. Tampa FL 33611  
Date:

February 21, 2019

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324068
Terrynce Bing	A4GIR	ATTIC GIRDER	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:08 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-04wup56o8JC48fiboK2cHy\_nQp07aGNBMSivWpziy5z

-2-0-0	3-6-12	6-2-8	8-10-4	10-6-13	15-0-0	19-5-3	21-1-12	23-9-8	26-5-4	30-0-0
2-0-0	3-6-12	2-7-12	2-7-12	1-8-9	4-5-3	4-5-3	1-8-9	2-7-12	2-7-12	3-6-12

Scale = 1:70.1

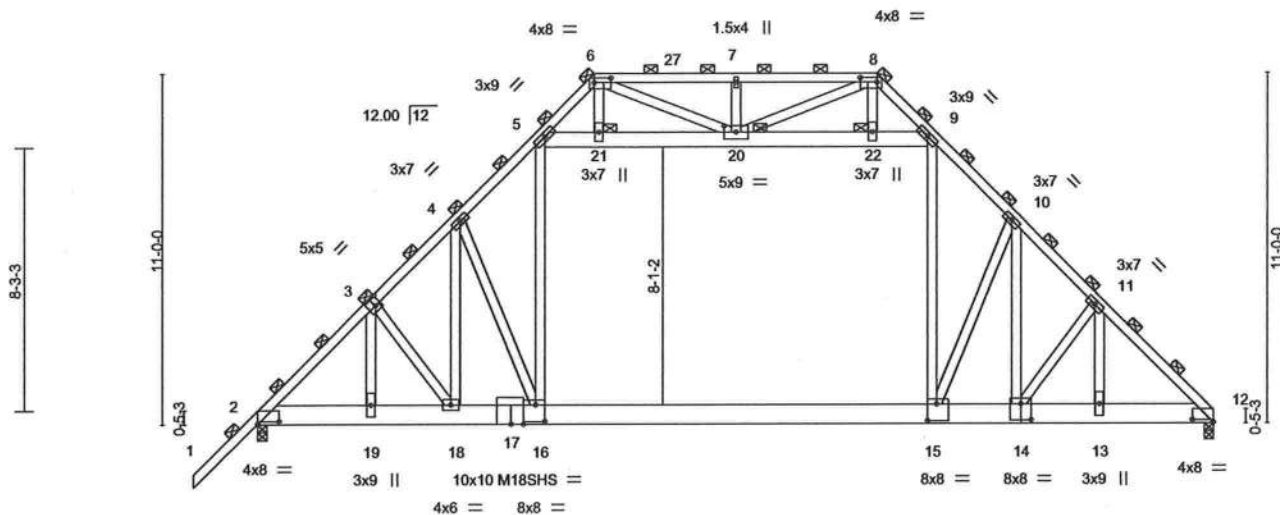


Plate Offsets (X,Y) - [2:0-8-0,0-0-15], [3:0-2-4,0-3-0], [6:0-6-4,0-1-12], [8:0-6-4,0-1-12], [12:0-8-0,0-0-15], [14:0-4-0,0-0-6-0], [15:0-3-8,0-6-4], [16:0-3-8,0-6-4], [17:0-4-12,0-0-0], [20:0-4-8,0-2-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.88	Vert(LL)	-0.42 15-16	>865	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.93	Vert(CT)	-0.56 15-16	>647	180	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.50	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPJ2014	Matrix-MS	Attic	-0.34 15-16	433	360		
							Weight: 569 lb	FT = 0%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
5-9: 2x6 SP No.2

#### BRACING-

TOP CHORD 2-0-0 oc purlins (3-4-15 max.)  
(Switched from sheeted: Spacing > 2-8-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 6, 8, 20, 21, 22

#### REACTIONS.

(lb/size) 12=3089/0-3-8, 2=4792/0-3-8  
Max Horz 2=510(LC 7)  
Max Grav 12=3986(LC 15), 2=7504(LC 14)

#### FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-8992/0, 3-4=-7666/0, 4-5=-6269/0, 5-6=-1461/68, 6-7=-1590/139, 7-8=-1590/139,  
8-9=-1359/70, 9-10=-5647/0, 10-11=-4973/0, 11-12=-5364/0  
BOT CHORD 2-19=0/6272, 18-19=0/6264, 16-18=0/5383, 15-16=0/4157, 14-15=0/3436, 13-14=0/3694,  
12-13=0/3694  
WEBS 3-19=0/818, 3-18=-1484/53, 4-18=-332/2550, 4-16=-3095/372, 5-16=0/2949,  
5-21=-3017/0, 20-21=-2966/0, 20-22=-3284/0, 9-22=-3340/0, 9-15=0/2717,  
10-15=-135/1846, 10-14=-2292/134, 11-14=-631/120, 11-13=0/430, 7-20=-604/122,  
6-21=0/443, 8-22=0/488, 8-20=-73/863, 6-20=-78/719

#### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 5-21, 20-21, 20-22, 9-22; Wall dead load (5.0psf) on member(s). 5-16, 9-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

Continued on page 2

LOAD CASE(S) Standard

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Thomas A. Albani PE No. 38380  
MiTek USA, Inc. FL Cert 6534  
6804 Parke East Blvd. Tampa FL 33610  
DOB:

February 21, 2019



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing
Terrynce_Bing	A4GIR	ATTIC GIRDER	1	<b>2</b>	T16324068

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:08 2019 Page 2  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-04wup56o8JC48fiboK2cHy\_nQp07aGNBMSivWpziy5z

# **LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

## Uniform Loads (plf)

Vert: 1-2=-120, 5-6=-120, 6-8=-120, 8-12=-120, 2-16=-60(F=-20), 15-16=-60, 12-15=-40, 5-9=-20

Drag: 5-16=-20, 9-15=-20

## Trapezoidal Loads (plf)

Vert: 2=-370-to-5=-281



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSS-89 and ECSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324069
Terrynce_Bing	A5GIR	Attic Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:10 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcFzT1fEm83gxSnNys\_wl44MN372dhZ2A8UpmB0aiziy5x



4x8 = 1.5x4 || 4x8 =

Scale = 1:65.2

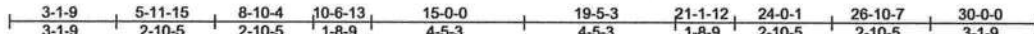
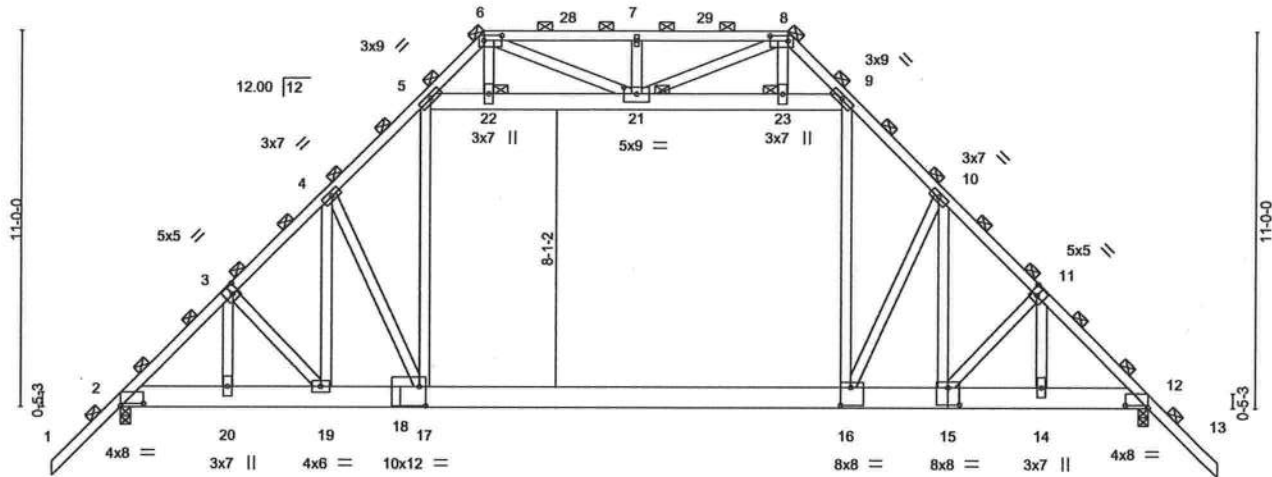


Plate Offsets (X,Y)~ [2:0-8-0,0-0-15], [3:0-2-4,0-3-0], [6:0-6-4,0-1-12], [8:0-6-4,0-1-12], [11:0-2-4,0-3-0], [12:0-8-0,0-0-15], [15:0-4-0,0-6-0], [16:0-3-8,0-6-4], [18:0-2-4,0-6-12], [18:0-0-0,0-3-10], [21:0-4-8,0-2-4]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 4-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.93	Vert(LL) -0.42 16-17 >856 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.48	Vert(CT) -0.56 16-17 >639 180		
BCDL 10.0	Code FBC2017/TP12014	Matrix-MS	Horz(CT) 0.04 12 n/a n/a		
			Attic -0.34 16-17 428 360	Weight: 572 lb	FT = 0%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
5-9: 2x6 SP No.2

#### BRACING-

TOP CHORD 2-0-0 oc purlins (3-8-0 max.)  
(Switched from sheeted: Spacing > 2-8-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 6, 8, 21, 22, 23

#### REACTIONS.

(lb/size) 2=4784/0-3-8, 12=3337/0-3-8  
Max Horz 2=544(LC 7)  
Max Grav 2=7500(LC 14), 12=4220(LC 15)

#### FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-9021/0, 3-4=-7830/0, 4-5=-6286/0, 5-6=-1454/66, 6-7=-1585/136, 7-8=-1585/136,  
8-9=-1355/66, 9-10=-5667/0, 10-11=-4914/0, 11-12=-5264/0  
BOT CHORD 2-20=0/6401, 19-20=0/6395, 17-19=0/5535, 16-17=0/4188, 15-16=0/3446, 14-15=0/3709,  
12-14=0/3715  
WEBS 3-20=0/646, 3-19=-1278/34, 4-19=-315/2465, 4-17=-3095/363, 5-17=0/2904,  
5-22=-3012/0, 21-22=-2960/0, 21-23=-3273/0, 9-23=-3330/0, 9-16=0/2734,  
10-16=-153/1728, 10-15=-2232/162, 11-15=-520/34, 11-14=0/397, 7-21=-605/122,  
6-22=0/443, 8-23=0/487, 6-21=-76/720, 8-21=-76/858

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-8-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-22, 21-22, 21-23, 9-23; Wall dead load (5.0psf) on member(s). 5-17, 9-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17
- Load case(s) 2, 12, 13, 14, 15, 16, 17, 20, 21, 30, 31, 32, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

2) Attic truss checked for L/360 deflection.



Thomas A. Albany PE No 38380  
MiTek USA, Inc. FL Cert 6984  
6904 Parke East Blvd. Tampa FL 33618  
GEO.

February 21, 2019



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, DSB-89 and BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324069
Terrynce_Bing	A5GIR	Attic Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:11 2019 Page 2  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-Rfb1R69hREae?6RAUScJvbclo11ondOdQxZ68ziy5w

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-120, 5-6=-120, 6-8=-120, 8-13=-120, 2-17=-60(F=-20), 16-17=-60, 12-16=-40, 5-9=-20  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-370(F=-250)-to-5=-281(F=-161)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-100, 5-6=-100, 6-8=-100, 8-13=-100, 2-17=-192(F=-152), 16-17=-180, 12-16=-40, 5-9=-20  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-506(F=-406)-to-5=-362(F=-262)
- 12) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-40, 5-6=-40, 6-8=-40, 8-13=-40, 2-17=-230(F=-190), 16-17=-220, 12-16=-40, 5-9=-20  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-415(F=-375)-to-5=-282(F=-242)
- 13) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-40, 5-6=-40, 6-8=-40, 8-13=-40, 2-17=-230(F=-190), 16-17=-220, 12-16=-40, 5-9=-20  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-415(F=-375)-to-5=-282(F=-242)
- 14) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-113, 5-6=-120, 6-8=-101, 8-12=-87, 12-13=-81, 2-17=-195(F=-155), 16-17=-180, 12-16=-40, 5-9=-20  
Horz: 1-2=13, 2-6=20, 8-12=13, 12-13=19  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-557(F=-437)-to-5=-402(F=-282)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-81, 5-6=-87, 6-8=-101, 8-12=-120, 12-13=-113, 2-17=-195(F=-155), 16-17=-180, 12-16=-40, 5-9=-20  
Horz: 1-2=-19, 2-6=-13, 8-12=-20, 12-13=-13  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-525(F=-437)-to-5=-370(F=-282)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-94, 5-6=-101, 6-8=-101, 8-12=-101, 12-13=-94, 2-17=-193(F=-153), 16-17=-180, 12-16=-40, 5-9=-20  
Horz: 1-2=-6, 2-6=1, 8-12=-1, 12-13=6  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-518(F=-417)-to-5=-370(F=-269)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-94, 5-6=-101, 6-8=-101, 8-12=-101, 12-13=-94, 2-17=-193(F=-153), 16-17=-180, 12-16=-40, 5-9=-20  
Horz: 1-2=-6, 2-6=1, 8-12=-1, 12-13=6  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-518(F=-417)-to-5=-370(F=-269)
- 20) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-100, 5-6=-100, 6-8=-100, 8-13=-40, 2-17=-192(F=-152), 16-17=-180, 12-16=-40, 5-9=-20  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-506(F=-406)-to-5=-362(F=-262)
- 21) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-40, 5-6=-40, 6-8=-100, 8-13=-100, 2-17=-192(F=-152), 16-17=-180, 12-16=-40, 5-9=-20  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-446(F=-406)-to-5=-302(F=-262)
- 30) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-113, 5-6=-120, 6-8=-101, 8-12=-87, 12-13=-81, 2-17=-195(F=-155), 16-17=-180, 12-16=-40, 5-9=-20  
Horz: 1-2=13, 2-6=20, 8-12=13, 12-13=19  
Drag: 5-17=-20, 9-16=-20  
Trapezoidal Loads (plf)  
Vert: 2=-557(F=-437)-to-5=-402(F=-282)
- 31) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	Terrynce Bing
Terrynce_Bing	A5GIR	Attic Girder	1	2	T16324069
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:11 2019 Page 3  
ID:nRcy3UA5G8zg5GU3ell2w9znbCf-Rfb1R69hREae76RAUSCjvbclo11ondOdQxZ68ziy5w

#### LOAD CASE(S) Standard

##### Uniform Loads (plf)

Vert: 1-2=-81, 5-6=-87, 6-8=-101, 8-12=-120, 12-13=-113, 2-17=-195(F=-155), 16-17=-180, 12-16=-40, 5-9=-20

Horz: 1-2=-19, 2-6=-13, 8-12=-20, 12-13=-13

Drag: 5-17=-20, 9-16=-20

##### Trapezoidal Loads (plf)

Vert: 2=-525(F=437)-to-5=-370(F=-282)

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

##### Uniform Loads (plf)

Vert: 1-2=-94, 5-6=-101, 6-8=-101, 8-12=-101, 12-13=-94, 2-17=-193(F=-153), 16-17=-180, 12-16=-40, 5-9=-20

Horz: 1-2=-6, 2-6=1, 8-12=-1, 12-13=6

Drag: 5-17=-20, 9-16=-20

##### Trapezoidal Loads (plf)

Vert: 2=-518(F=417)-to-5=-370(F=-269)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

##### Uniform Loads (plf)

Vert: 1-2=-94, 5-6=-101, 6-8=-101, 8-12=-101, 12-13=-94, 2-17=-193(F=-153), 16-17=-180, 12-16=-40, 5-9=-20

Horz: 1-2=-6, 2-6=1, 8-12=-1, 12-13=6

Drag: 5-17=-20, 9-16=-20

##### Trapezoidal Loads (plf)

Vert: 2=-518(F=417)-to-5=-370(F=-269)



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

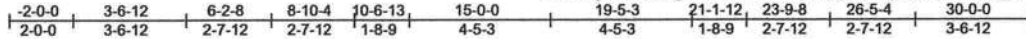


6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324070
Terrynce_Bing	A6GIR	ATTIC GIRDER	2	3	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:13 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcf-N2jns0AxyrqMEQbZbten\_0hemqkFFYFwVjQgB0ziy5u



Scale = 1:70.1

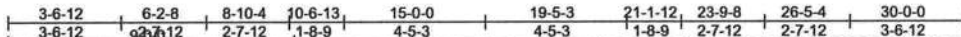
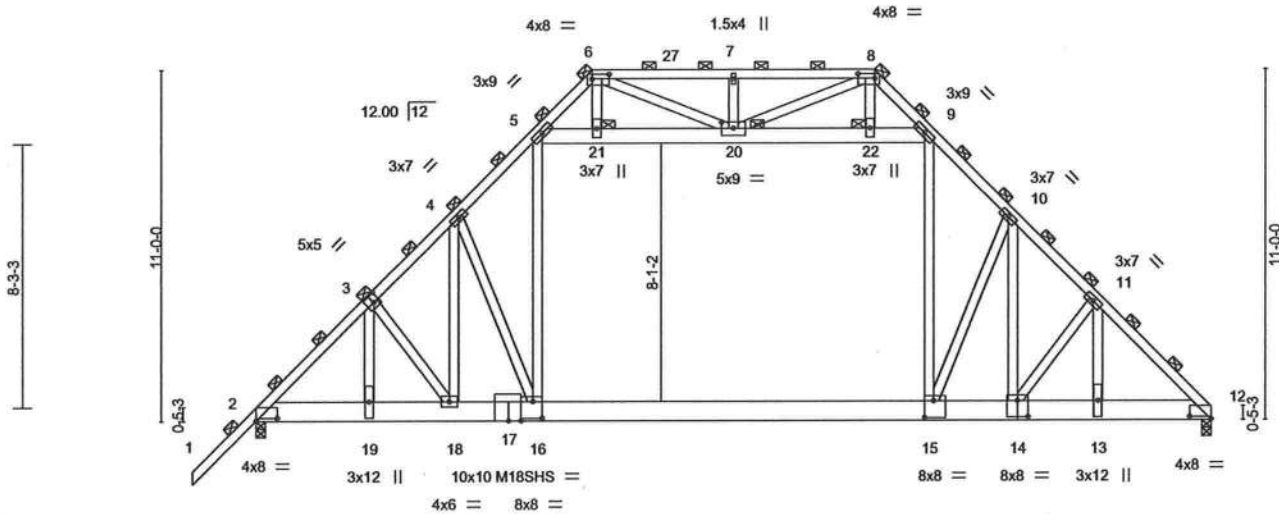


Plate Offsets (X,Y)- [2:0-8-0,0-0-15], [3:0-2-4,0-3-0], [6:0-6-4,0-1-12], [8:0-6-4,0-1-12], [12:0-8-0,0-0-15], [14:0-4-0,0-6-0], [15:0-3-8,0-6-4], [16:0-3-8,0-6-4], [17:0-4-12,0-0-0], [20:0-4-8,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	5-3-0	<b>CSL</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.84	Vert(LL)	-0.38 15-16	>937	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.49 15-16	>730	180	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.31 15-16	470	360	Weight: 854 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
5-9: 2x6 SP No.2

**BRACING-**  
TOP CHORD 2-0-0 oc purlins (5-10-8 max.)  
(Switched from sheeted: Spacing > 2-8-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 6, 8, 20, 21, 22

**REACTIONS.** (lb/size) 12=3981/0-3-8, 2=5827/0-3-8  
Max Horz 2=669(LC 7)  
Max Grav 12=5055(LC 15), 2=9018(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-10870/0, 3-4=-9201/0, 4-5=-7659/0, 5-6=-1870/90, 6-7=-2082/183, 7-8=-2082/183,  
8-9=-1776/92, 9-10=-7025/0, 10-11=-6305/0, 11-12=-6788/0  
BOT CHORD 2-19=0/7410, 18-19=0/7401, 16-18=0/6432, 15-16=0/5152, 14-15=0/4351, 13-14=0/4668,  
12-13=0/4668  
WEBS 3-19=0/1525, 3-18=-1796/70, 4-18=-435/3385, 4-16=-3508/488, 5-16=0/4183,  
5-21=-3901/0, 20-21=-3839/0, 20-22=-4328/0, 9-22=-4398/0, 9-15=0/3688,  
10-15=-279/2580, 10-14=-3167/176, 11-14=-774/157, 11-13=0/573, 7-20=-792/160,  
6-21=0/556, 8-22=0/602, 8-20=-95/1116, 6-20=-102/965

#### NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 5-21, 20-21, 20-22, 9-22; Wall dead load (5.0psf) on member(s). 5-16, 9-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
- 11) Load case(s) 12, 13 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

2) This is a schematic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 21, 2019

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing
Terrynce_Bing	A6GIR	ATTIC GIRDER	2	3	T16324070
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:13 2019 Page 2  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-N2jnsoAxyrqMEQbZbten\_0hemqkFFYFwVjQgB0ziy5u

#### NOTES-

13) Attic room checked for L/360 deflection.

#### LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-158, 5-6=-158, 6-8=-158, 8-12=-157, 2-16=-82(F=30), 15-16=-79, 12-15=-53, 5-9=-26

Drag: 5-16=-26, 9-15=-26

Trapezoidal Loads (plf)

Vert: 2=-408-to-5=-319

12) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-2=-53, 5-6=-53, 6-8=-53, 8-12=-52, 2-16=-468(F=415), 15-16=-289, 12-15=-53, 5-9=-26

Drag: 5-16=-26, 9-15=-26

Trapezoidal Loads (plf)

Vert: 2=-428-to-5=-295

13) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-2=-53, 5-6=-53, 6-8=-53, 8-12=-52, 2-16=-468(F=415), 15-16=-289, 12-15=-53, 5-9=-26

Drag: 5-16=-26, 9-15=-26

Trapezoidal Loads (plf)

Vert: 2=-428-to-5=-295



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6904 Parke East Blvd.  
Tampa, FL 38610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324071
Terrynce Bing	B2	Common	3	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:15 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-JRrXHUCBUT44TjlxlgF3Rm66eabjVMDz1vnGvziy5s



Scale = 1:58.9

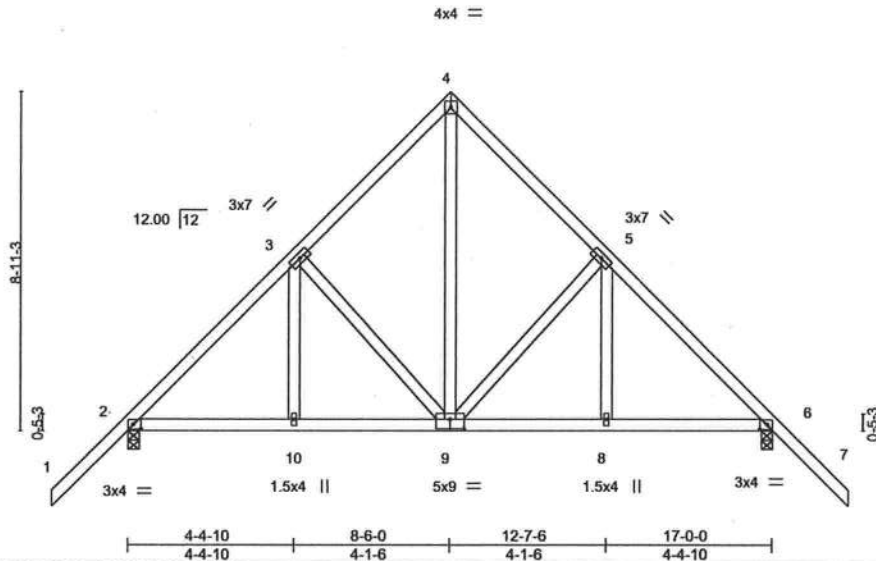


Plate Offsets (X,Y)-		[2:0-2-6,0-1-8], [6:0-2-6,0-1-8], [9:0-4-8,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	-0.02	8-16	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.03	8-9	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	6	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 112 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=800/0-3-8, 6=800/0-3-8  
Max Horz 2=-221(LC 10)  
Max Uplift 2=-49(LC 12), 6=-49(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-782/120, 3-4=-565/198, 4-5=-565/198, 5-6=-782/120  
BOT CHORD 2-10=0/564, 9-10=0/564, 8-9=0/493, 6-8=0/493  
WEBS 4-9=-164/566, 5-9=-360/152, 3-9=-360/152

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



Thomas A. Albani PE No. 38380  
MiTek USA, Inc. FL Cert 6534  
6904 Parke East Blvd. Tampa FL 33610  
DWA

February 21, 2019

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and these systems, see the MiTek® Quality Criteria, QSC-89 and BCS Building Component Safety Manual, available from: Truss-A-Me Industries, 2150 N. Lake Shore Blvd., Suite 112, Lakeview, VA 22041.



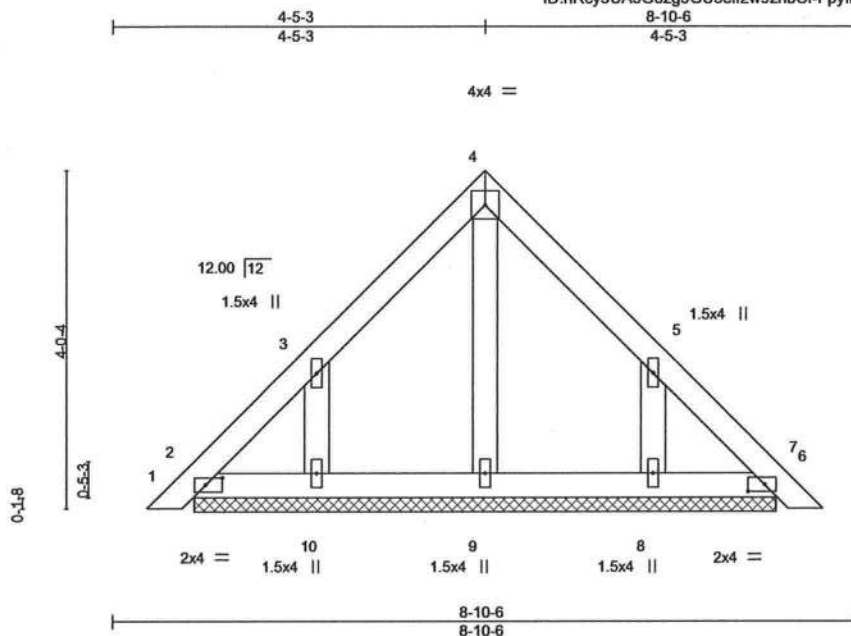
6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324072
Terrynce_Bing	PB1GE	GABLE	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:17 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcF-Fpyli9DS04Loj1uKqjij8srX7RIKBSzWQLOtKoziy5q



Scale = 1:26.6

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [6:0-2-6,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	0.00	6	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	6	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						
								Weight: 36 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

**REACTIONS.** All bearings 6-11-2.  
(lb) - Max Horz 2=-80(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 8  
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Thomas A. Albani PE No. 38380  
MiTek USA, Inc. FL Cert 6591  
6904 Parke Lane Blvd. Tampa FL 33610  
Dated:

February 21, 2019

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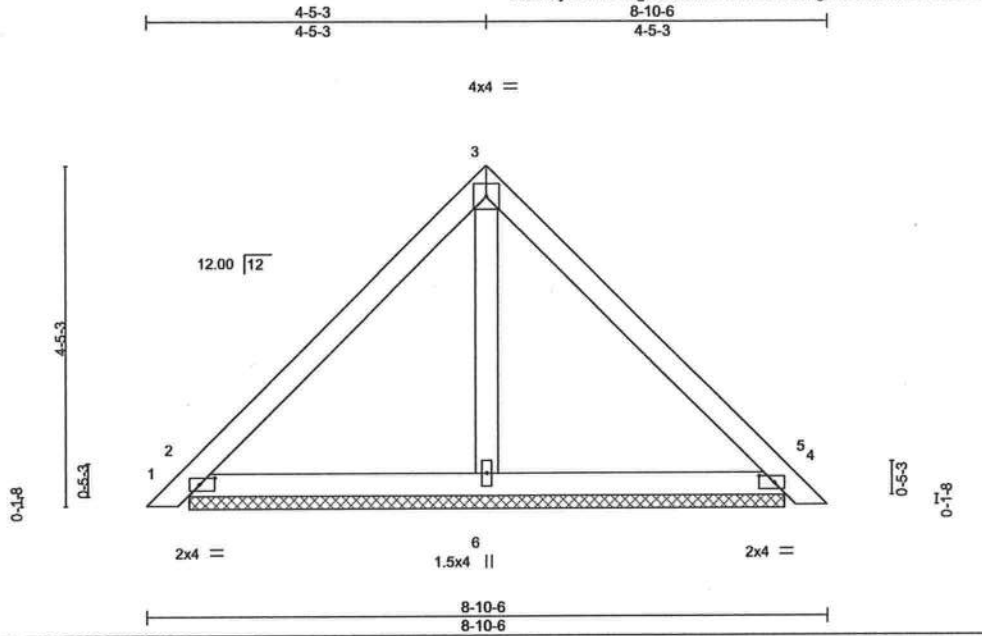


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing
Terrynce_Bing	PB2	Piggyback	12	1	T16324073

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:18 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcf-k?WgvVE4nOTfKBTWORIEyh3Oerocwv0ff77RsEziy5p



Scale = 1:29.2

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	0.01	5	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	0.01	5	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-P						
								Weight: 36 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=208/7-9-0, 4=208/7-9-0, 6=247/7-9-0  
Max Horz 2=-89(LC 10)  
Max Uplift 2=-33(LC 12), 4=-33(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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MiTek USA, Inc. FL Cert 6631  
6904 Parke East Blvd. Tampa FL 33610  
0210

February 21, 2019

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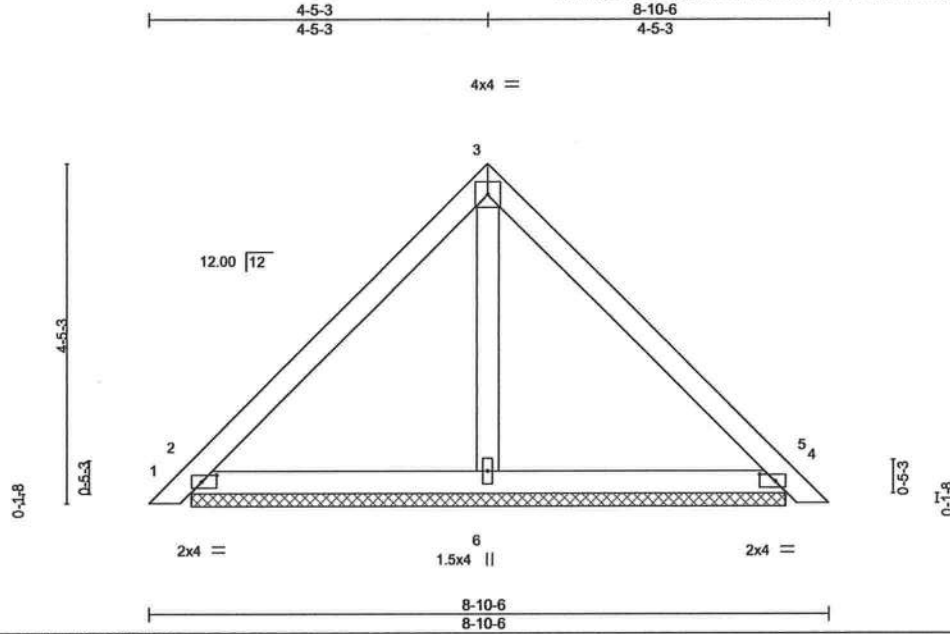


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Terrynce Bing	T16324074
Terrynce_Bing	PB3	Piggyback	2	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Feb 21 10:02:19 2019 Page 1  
ID:nRcy3UA5G8zg5GU3ell2w9znbcf-CC427rFtyhbWyl2y8lBEHxr\_Fz3fMipuft\_Pgzy5o



Scale = 1:29.2

Plate Offsets (X,Y)--- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00 5 n/r 120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.01 5 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00 4 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P				Weight: 71 lb	FT = 0%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=208/7-9-0, 4=208/7-9-0, 6=247/7-9-0  
Max Horz 2=-89(LC 10)  
Max Uplift 2=-33(LC 12), 4=-33(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Thomas A. Albani PE No. 39380  
MiTek USA, Inc. FL Cert 6534  
6804 Parke East Blvd. Tampa FL 33610  
2018

February 21, 2019

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

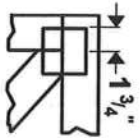


6904 Parke East Blvd.  
Tampa, FL 33610

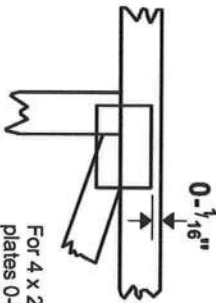




## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MITek 20/20 software or upon request.

## PLATE SIZE

4 X 4

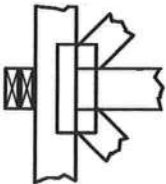
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or L bracing if indicated.

## BEARING

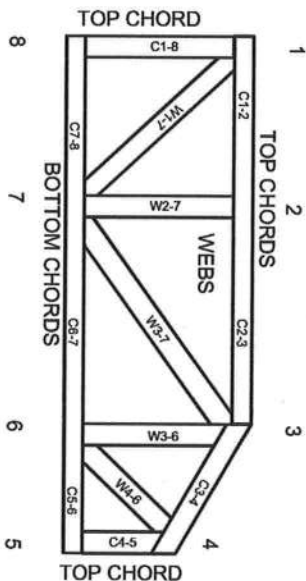


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

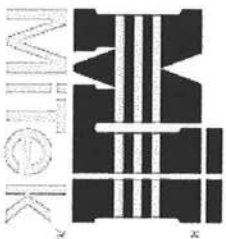
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

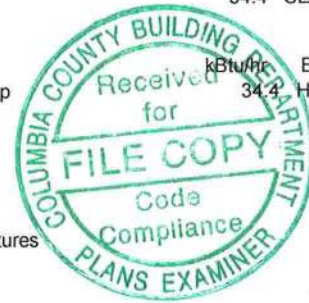
# ENERGY PERFORMANCE LEVEL (EPL) ALTERNATIVE DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 84

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

1040 S.W. County Road 778, High Springs, FL, 32643

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Concrete Block - Int Insul, Exterior	R=5.0	2014.80 ft <sup>2</sup>
3. Number of units, if multiple family	1		b. N/A	R=	ft <sup>2</sup>
4. Number of Bedrooms	0		c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No		d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area (ft <sup>2</sup> )	1315		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	1315.00 ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.47	378.00 ft <sup>2</sup>	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.31		c. N/A	R=	ft <sup>2</sup>
b. U-Factor:	N/A	ft <sup>2</sup>	11. Ducts		R ft <sup>2</sup>
SHGC:			a. Sup: Attic, Ret: Attic, AH: Family Room		6 141
c. U-Factor:	N/A	ft <sup>2</sup>	12. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	34.4	SEER:14.00
d. U-Factor:	N/A	ft <sup>2</sup>	13. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	34.4	HSPF:8.50
Area Weighted Average Overhang Depth:	2.000 ft.		14. Hot water systems		EF:
Area Weighted Average SHGC:	0.310		a.		
8. Floor Types	Insulation	Area	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	1315.30 ft <sup>2</sup>	15. Credits		CF, Pstat
b. N/A	R=	ft <sup>2</sup>			
c. N/A	R=	ft <sup>2</sup>			



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

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Email EnergyGauge tech support at techsupport@energygauge.com or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Bing Addition Street: 1040 S.W. County Road 778 City, State, Zip: High Springs, FL, 32643 Owner: Bing Design Location: FL, Gainesville	Builder Name: Bing Permit Office: Alachua Permit Number: Jurisdiction: 111000 County: Alachua (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      0 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      1315 Conditioned floor area below grade (ft²)      0 7. Windows(378.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.47      378.00 ft² SHGC:      SHGC=0.31 b. U-Factor:      N/A      ft² SHGC: c. U-Factor:      N/A      ft² SHGC: d. U-Factor:      N/A      ft² SHGC: Area Weighted Average Overhang Depth:      2.000 ft. Area Weighted Average SHGC:      0.310 8. Floor Types (1315.3 sqft.)      Insulation      Area a. Slab-On-Grade Edge Insulation      R=0.0      1315.30 ft² b. N/A      R=      ft² c. N/A      R=      ft²	9. Wall Types (2014.8 sqft.)      Insulation      Area a. Concrete Block - Int Insul, Exterior      R=5.0      2014.80 ft² b. N/A      R=      ft² c. N/A      R=      ft² d. N/A      R=      ft² 10. Ceiling Types (1315.0 sqft.)      Insulation      Area a. Under Attic (Vented)      R=30.0      1315.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² 11. Ducts      R      ft² a. Sup: Attic, Ret: Attic, AH: Family Room      6      141 12. Cooling systems      kBtu/hr      Efficiency a. Central Unit      34.4      SEER:14.00 13. Heating systems      kBtu/hr      Efficiency a. Electric Heat Pump      34.4      HSPF:8.50 14. Hot water systems a. b. Conservation features      EF: 0.000 15. Credits      CF, Pstat
---	--

Glass/Floor Area: 0.287	Total Proposed Modified Loads: 43.26	PASS
	Total Baseline Loads: 51.55	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY: John PirkI DATE: 03/10/2019  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.  OWNER/AGENT: DATE:	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 5.00 ACH50 (R402.4.1.2).

## INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Bing Addition	Bedrooms:	0	Address Type:	Street Address							
Building Type:	User	Conditioned Area:	1315	Lot #								
Owner Name:	Bing	Total Stories:	1	Block/Subdivision:								
# of Units:	1	Worst Case:	No	PlatBook:								
Builder Name:	Bing	Rotate Angle:	0	Street:	1040 S.W. County Roa							
Permit Office:	Alachua	Cross Ventilation:	No	County:	Alachua							
Jurisdiction:	111000	Whole House Fan:	No	City, State, Zip:	High Springs ,							
Family Type:	Single-family				FL , 32643							
New/Existing:	New (From Plans)											
Comment:												
CLIMATE												
✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range			
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium			
BLOCKS												
	Number	Name	Area	Volume								
	1	Entire House	1315	19462								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	Family Room	1315	19462	No	0		1	Yes	Yes	Yes	
FLOORS												
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet		
_____	1	Slab-On-Grade Edge Insulatio	Family Room	136 ft	0	1315.3 ft²	_____	0	1	0		
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or Shed	Composition shingles	1471 ft²	330 ft²	Medium	0.9	No	0.9	No	0	26.6
ATTIC												
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC					
_____	1	Full attic	Vented	300	1315 ft²	N	N					
CEILING												
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type				
_____	1	Under Attic (Vented)	Family Room	30	Blown	1315 ft²	0.1	Wood				



## INPUT SUMMARY CHECKLIST REPORT

## WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Concrete Block - Int Ins	Family Room	5	35	6	14	10	526.6 ft²	0	0	0.23	0
2	E	Exterior	Concrete Block - Int Ins	Family Room	5	40	6	14	10	599.4 ft²	0	0.25	0.23	0
3	S	Exterior	Concrete Block - Int Ins	Family Room	5	35	6	14	10	525.4 ft²	0	0.25	0.23	0
4	W	Exterior	Concrete Block - Int Ins	Family Room	5	24	6	14	10	363.4 ft²	0	0.25	0.23	0

## WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.47	0.31	N	18.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
2	N	1	Vinyl	Low-E Double	Yes	0.47	0.31	N	36.0 ft²	2 ft 0 in	4 ft 0 in	Drapes/blinds	Exterior 5
3	N	1	Vinyl	Low-E Double	Yes	0.47	0.31	N	36.0 ft²	2 ft 0 in	8 ft 0 in	Drapes/blinds	Exterior 5
4	E	2	Vinyl	Low-E Double	Yes	0.47	0.31	N	144.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
5	S	3	Vinyl	Low-E Double	Yes	0.47	0.31	N	18.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
6	S	3	Vinyl	Low-E Double	Yes	0.47	0.31	N	36.0 ft²	2 ft 0 in	4 ft 0 in	Drapes/blinds	Exterior 5
7	S	3	Vinyl	Low-E Double	Yes	0.47	0.31	N	36.0 ft²	2 ft 0 in	8 ft 0 in	Drapes/blinds	Exterior 5
8	W	4	Vinyl	Low-E Double	Yes	0.47	0.31	N	54.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.00047	1621.8	89.04	167.45	.4322	5

## HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	Split	HSPF:8.5	34.4 kBtu/hr	1	sys#1

## COOLING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit/	Split	SEER: 14	34.4 kBtu/hr	1200 cfm	0.7	1	sys#1

## SOLAR HOT WATER SYSTEM

✓ FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
				ft²		

## INPUT SUMMARY CHECKLIST REPORT

DUCTS																								
✓	#	---- Supply ----			---- Return ----		Leakage Type		Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #										
		Location	R-Value	Area	Location	Area								Heat	Cool									
	1	Attic	6	141 ft²	Attic	54 ft²	Default	Leakage	Family Roo	(Default)	(Default)			1	1									
TEMPERATURES																								
Programable Thermostat: Y					Ceiling Fans:																			
Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
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	68	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	68	66											
MASS																								
Mass Type		Area		Thickness		Furniture Fraction		Space																
Default(8 lbs/sq.ft.		0 ft²		0 ft		0.3		Family Room																

Name: New Age Dimensions, LLC

Signature: \_\_\_\_\_ John PirkI \_\_\_\_\_

Rating Compant: New Age Dimensi

Date: \_\_\_\_\_

# 2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

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

Project Name: Bing Addition Street: 1040 S.W. County Road 778 City, State, Zip: High Springs , FL , 32643 Owner: Bing Design Location: FL, Gainesville			Builder Name: Bing Permit Office: Alachua Permit Number: Jurisdiction: 111000	CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.		
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.		
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.			
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.		
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.		
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.		
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.

# Certificate of Product Ratings

AHRI Certified Reference Number : 9088648

Date : 03-10-2019

Model Status : Active

AHRI Type : HRCU-A-CB

Series : LX SERIES

Outdoor Unit Brand Name : YORK

Outdoor Unit Model Number (Condenser or Single Package) : YHE35B21

Indoor Unit Model Number (Evaporator and/or Air Handler) : AHV36C3X(H,T)21+TXV

The manufacturer of this YORK product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of ANSI/AHRI 210/240 with Addenda 1 and 2, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 34400

SEER : 14.00

EER (A2) - Single or High Stage (95F) : 11.75

Heating Capacity (H12) - Single or High Stage (47F) : 34000

HSPF (Region IV) : 8.50

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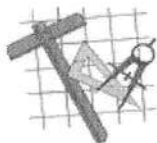
**AHRI**  
AIR-CONDITIONING, HEATING,  
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**CERTIFICATE NO.:**

131966962455990265





**Load Short Form**  
**Entire House**  
**New Age Dimensions, LLC.**

Job: Bing Addition  
 Date: 03/09/2019  
 By: John Pirkel  
 Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

### Project Information

For: Touchstone Heating & Air, Inc.  
 490 S.E. 3rd Avenue, Lake Butler, FL 32054  
 Phone: (386) 496 - 3467 Fax: (386) 496 - 3147

### Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	35	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	47		

#### HEATING EQUIPMENT

Make York  
 Trade YORK  
 Model YHE35B21  
 AHRI ref 9088648  
 Efficiency 8.5 HSPF  
 Heating input  
 Heating output 34000 Btuh @ 47°F  
 Temperature rise 26 °F  
 Actual air flow 1200 cfm  
 Air flow factor 0.040 cfm/Btuh  
 Static pressure 0.51 in H2O  
 Space thermostat  
 Capacity balance point = 31 °F

Backup:  
 Input = 10 kW, Output = 34121 Btuh, 100 AFUE

#### COOLING EQUIPMENT

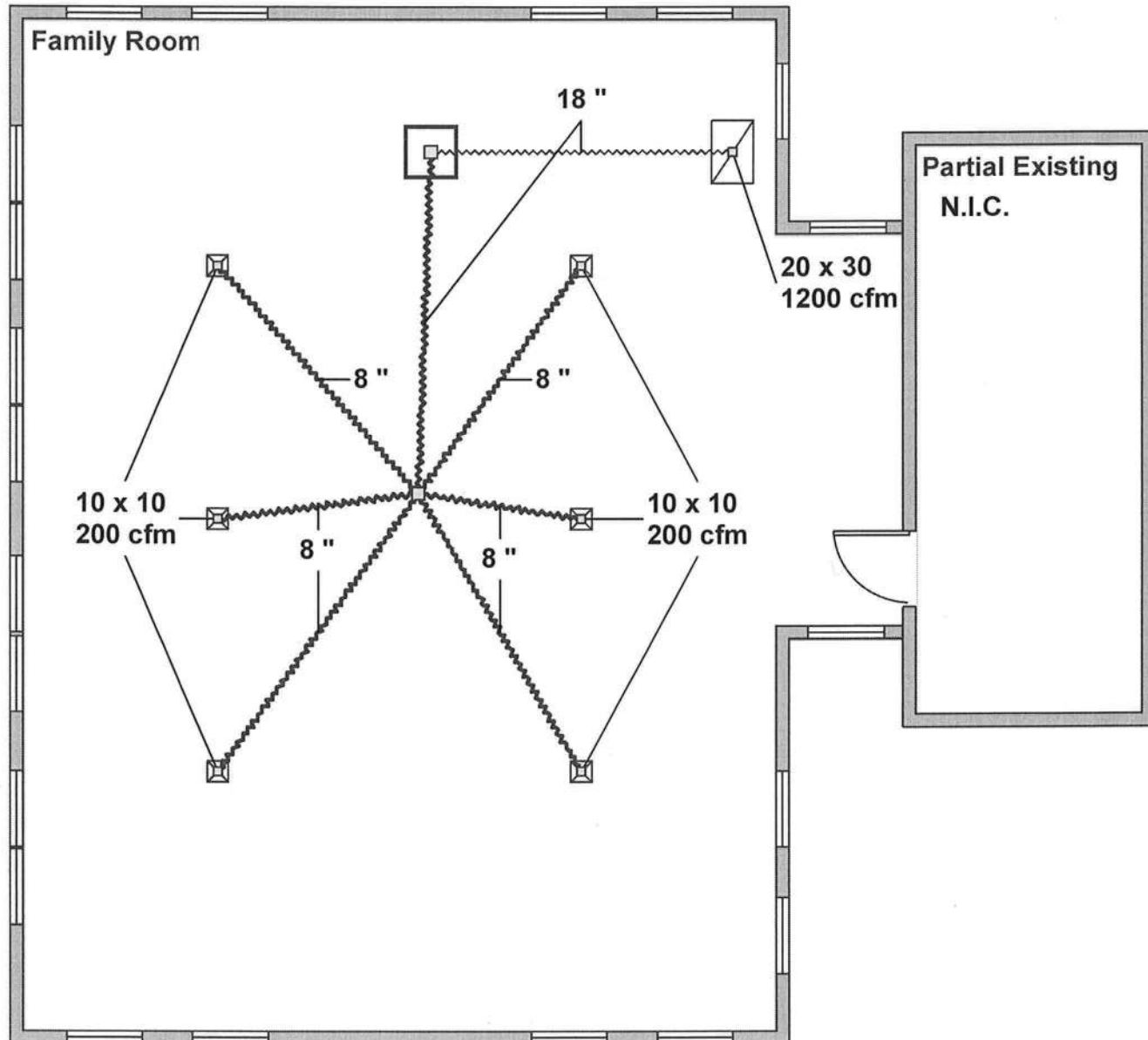
Make York  
 Trade YORK  
 Cond YHE35B21  
 Coil AHV36C3X(H,T)21++TXV  
 AHRI ref 9088648  
 Efficiency 11.8 EER, 14 SEER  
 Sensible cooling 24080 Btuh  
 Latent cooling 10320 Btuh  
 Total cooling 34400 Btuh  
 Actual air flow 1200 cfm  
 Air flow factor 0.046 cfm/Btuh  
 Static pressure 0.51 in H2O  
 Load sensible heat ratio 0.82

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Family Room	1315	30205	25821	1200	1200
Entire House	1315	30205	25821	1200	1200
Other equip loads		0	1707		
Equip. @ 0.97 RSM			26702		
Latent cooling			6142		
TOTALS	1315	30205	32845	1200	1200

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



Sheet 1



**Job #: Bing Addition**  
**Performed by John Pirkel for:**

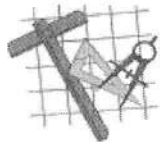
Touchstone Heating & Air, Inc.  
490 S.E. 3rd Avenue  
Lake Butler, FL 32054  
Phone: (386) 496 - 3467 Fax: (386) 496 - 3147

**New Age Dimensions, LLC.**

14080 S.E. 122nd Lane Road  
Ocklawaha, FL 32179  
Phone: (352) 288 - 0686 Fax: (352) 288 - 0684  
john.newage@gmail.com

Scale: 1 : 75

Page 1  
Right-Suite® Universal 2018  
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# Duct System Summary

## Entire House

New Age Dimensions, LLC.

Job: Bing Addition  
 Date: 03/09/2019  
 By: John Pirkel  
 Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

### Project Information

For: Touchstone Heating & Air, Inc.  
 490 S.E. 3rd Avenue, Lake Butler, FL 32054  
 Phone: (386) 496 - 3467 Fax: (386) 496 - 3147

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.219 / 0.111 in H2O	0.219 / 0.111 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1200 cfm	1200 cfm
Total effective length (TEL)	214 ft	

### Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Family Room	c 4304	200	200	0.880	8.0	0x0	VIFx	25.6	115.0	st1
Family Room-A	c 4304	200	200	0.880	8.0	0x0	VIFx	21.6	115.0	st1
Family Room-B	c 4304	200	200	0.880	8.0	0x0	VIFx	27.1	115.0	st1
Family Room-C	c 4304	200	200	0.880	8.0	0x0	VIFx	26.3	115.0	st1
Family Room-D	c 4304	200	200	0.880	8.0	0x0	VIFx	20.1	115.0	st1
Family Room-E	c 4304	200	200	0.880	8.0	0x0	VIFx	24.6	115.0	st1

### Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	1200	1200	0.880	679	18.0	0 x 0	VinIFlx	

### Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	20x28	1200	1200	72.0	0.880	679	18.0	0x 0		VIFx	



wrightsoft®  
 A MARS® / Touchstone Heating & Air Company

Right-Suite® Universal 2018 18.0.32 RSU02050

...ts\Wrightsoft HVAC\Touchstone\Bing Addition.rup Calc = MJ8 Front Door faces: N

2019-Mar-10 08:51:34

Page 1

# FLORIDA BUILDING CODE, ENERGY CONSERVATION

## Residential Building Thermal Envelope Approach

FORM R402-2017

Climate Zone ☐

Scope: Compliance with Section R401.2(1) of the *Florida Building Code, Energy Conservation*, shall be demonstrated by the use of Form R402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, alterations, renovations and building systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements on Table R402A and all applicable mandatory requirements summarized in Table R402B of this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 of the *Florida Building Code, Energy Conservation*.

PROJECT NAME AND ADDRESS: HOUSE ADDITION  
1040 SW COUNTY ROAD 778  
HIGH SPRINGS, FL

OWNER: TERRYNGER & ALBERTA BING

BUILDER:

PERMITTING OFFICE:

JURISDICTION NUMBER:

PERMIT NUMBER:

## General Instructions:

1. Fill in all the applicable spaces of the "To Be Installed" column on Table R402A with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
2. Complete page 1 based on the "To Be Installed" column information.
3. Read the requirements of Table R402B and check each box to indicate your intent to comply with all applicable items.
4. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

1. New construction, addition, or existing building	1. <u>ADDITION</u>	<input checked="" type="checkbox"/>
2. Single-family detached or multiple-family attached	2. <u>SINGLE FAMILY</u>	<input checked="" type="checkbox"/>
3. If multiple-family, number of units covered by this submission	3. _____	<input type="checkbox"/>
4. Is this a worst case? (yes/no)	4. _____	<input type="checkbox"/>
5. Conditioned floor area (sq. ft.)	5. <u>1200 SQ. FT.</u>	<input checked="" type="checkbox"/>
6. Windows, type and area		
a) U-factor:	6a. <u>0.40<sup>2</sup></u>	<input checked="" type="checkbox"/>
b) Solar Heat Gain Coefficient (SHGC)	6b. <u>0.25</u>	<input checked="" type="checkbox"/>
c) Area	6c. <u>435.41</u>	<input checked="" type="checkbox"/>
7. Skylights		
a) U-factor:	7a. _____	<input type="checkbox"/>
b) Solar Heat Gain Coefficient (SHGC)	7b. _____	<input type="checkbox"/>
8. Floor type, area or perimeter, and insulation:		
a) Slab-on-grade (R-value)	8a. <u>R-0</u>	<input checked="" type="checkbox"/>
b) Wood, raised (R-value)	8b. _____	<input type="checkbox"/>
c) Wood, common (R-value)	8c. _____	<input type="checkbox"/>
d) Concrete, raised (R-value)	8d. _____	<input type="checkbox"/>
e) Concrete, common (R-value)	8e. _____	<input type="checkbox"/>
9. Wall type and insulation:		
a) Exterior:		
1. Wood frame (Insulation R-value)	9a1. _____	<input type="checkbox"/>
2. Masonry (Insulation R-value)	9a2. <u>R-6</u>	<input checked="" type="checkbox"/>
b) Adjacent:		
1. Wood frame (Insulation R-value)	9b1. _____	<input type="checkbox"/>
2. Masonry (Insulation R-value)	9b2. _____	<input type="checkbox"/>
10. Ceiling type and insulation		
a) Attic (Insulation R-value)	10a. <u>R-38</u>	<input checked="" type="checkbox"/>
b) Single assembly (Insulation R-value)	10b. _____	<input type="checkbox"/>
11. Air distribution system:		
a) Duct location, insulation	11a. <u>ATTIC R-8</u>	<input checked="" type="checkbox"/>
b) AHU location	11b. <u>CONDITIONED</u>	<input checked="" type="checkbox"/>
c) Total duct leakage. Test report attached.	11c. <u>4</u> cfm/100 s.f. Yes <input type="checkbox"/> No <input type="checkbox"/>	
12. Cooling system:		
a) type	12a. <u>CENTRAL</u>	<input checked="" type="checkbox"/>
b) efficiency	12b. <u>SEER 14.0</u>	<input checked="" type="checkbox"/>
13. Heating system:		
a) type	13a. <u>HEAT PUMP</u>	<input checked="" type="checkbox"/>
b) efficiency	13b. <u>HSPF 8.2</u>	<input checked="" type="checkbox"/>
14. HVAC sizing calculation: attached	14. _____ Yes <input type="checkbox"/> No <input type="checkbox"/>	
15. Water heating system:		
a) type	15a. <u>NO NEW SYSTEM</u>	<input checked="" type="checkbox"/>
b) efficiency	15b. _____	<input type="checkbox"/>



I hereby certify that the plans and specifications covered by this form are in compliance with the *Florida Building Code, Energy Conservation*.

PREPARED BY: \_\_\_\_\_ Date: 12-27-18

I hereby certify that this building is in compliance with the *Florida Building Code, Energy Conservation*.

OWNER/AGENT: \_\_\_\_\_ Date: 12-27-18

Review of plans and specifications covered by this form indicate compliance with the *Florida Building Code, Energy Conservation*. Before construction is complete, this building will be inspected for compliance in accordance with Section 553.908, F.S.

CODE OFFICIAL: \_\_\_\_\_

Date: \_\_\_\_\_



TABLE R402A

BUILDING COMPONENT	PRESCRIPTIVE REQUIREMENTS <sup>1</sup>		INSTALLED VALUES
	Climate Zone 1	Climate Zone 2	
Windows	U-Factor = NR SHGC = 0.25	U-Factor = 0.40 <sup>2</sup> SHGC = 0.25	U-Factor = 0.40 SHGC = 0.25
Stylights	U-Factor = 0.75 SHGC = 0.30	U-Factor = 0.65 SHGC = 0.30	U-Factor = SHGC =
Doors: Exterior door	U-Factor = NR	U-Factor = 0.40 <sup>3</sup>	U-Factor = 0.40
Floors: Slab-on-Grade Over unconditioned spaces <sup>4</sup>	NR R-13	NR R-13	R-Value = NR
Walls: Ext. and Adj. Frame Mass	R-13	R-13	R-Value =
Insulation on wall interior	R-4	R-6	R-Value = 6
Insulation on wall exterior	R-3	R-4	R-Value =
Ceilings <sup>5</sup>	R-30	R-38	R-Value = 38
Air Infiltration	Blower door test is required on the building envelope to verify leakage ≤ 1 ACH; test report provided to code official.		Total leakage = ACH Test report attached? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Air distribution system <sup>6</sup> : Air handling unit Duct R-value	Not allowed in attic R-value ≥ R-8 (supply in attics) or ≥ R-6 (all other duct locations)		Location: COND. R-Value = 8
Air leakage <sup>7</sup> : Duct test	Postconstruction test Total leakage ≤ 4 cfm/100 s.f. Rough-in test Total leakage ≤ 4 cfm/100 s.f. (air handler installed) Total leakage ≤ 3 cfm/100 s.f. (air handler not installed)		Total leakage = 4 cfm/100 s.f. Test report Attached? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ducts in conditioned space	Test not required if all ducts and AHU are in conditioned space		Location:
Air conditioning system: Central system ≤ 65,000 Btu/h Room unit or PTAC Other:	Minimum federal standard required by NAECA <sup>8</sup> : SEER 14.0 EER [from Table C403.2.3(3)] See Tables C403.2.3(1)-(11)		SEER = 14.0 EER =
Heating system: Heat pump ≤ 65,000 Btu/h Gas furnace, non-weatherized Oil furnace, non-weatherized Other:	Minimum federal standard required by NAECA <sup>8</sup> : HSPF 8.2 AFUE 80% AFUE 83%		HSPF = 8.2 AFUE = AFUE =
Water heating system (storage type): Electric <sup>9</sup>	Minimum federal standard required by NAECA <sup>8</sup> : 40 gal: EF = 0.92 50 gal: EF = 0.90		Gallons = EF =
Gas fired <sup>9</sup>	40 gal: EF = 0.59 50 gal: EF = 0.58		Gallons = EF = NA
Other (describe):			EF =

NR = No requirement.

- (1) Each component present in the As Proposed home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method.
- (2) For impact rated fenestration complying with Section R301.2.1.2 of the *Florida Building Code, Residential* or Section 1609.1.2 of the *Florida Building Code, Building*, the maximum U-factor shall be 0.65 in Climate Zone 2. An area-weighted average of U-factor and SHGC shall be accepted to meet the requirements, or up to 15 square feet of glazed fenestration area are exempted from the U-factor and SHGC requirement based on Sections R402.3.1, R402.3.2 and R402.3.3.
- (3) One side-hinged opaque door assembly up to 24 square feet is exempted from this U-factor requirement.
- (4) R-values are for insulation material only as applied in accordance with manufacturer's installation instructions. For mass walls, the "interior of wall" requirement must be met except if at least 50 percent of the insulation required for the "exterior of wall" is installed exterior of, or integral to, the wall.
- (5) Ducts & AHU installed "substantially leak free" per Section R403.3.2. Test required 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*. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.
- (6) Minimum efficiencies are those set by the *National Appliance Energy Conservation Act* of 1987 for typical residential equipment and are subject to NAECA rules and regulations. For other types of equipment, see Tables C403.2.3(1-11) of the *Commercial Provisions of the Florida Building Code, Energy Conservation*.
- (7) For other electric storage volumes, minimum EF = 0.97 - (0.00132 × volume).
- (8) For other natural gas storage volumes, minimum EF = 0.67 - (0.0019 × volume).

TABLE R402B MANDATORY REQUIREMENTS			
Component	Section	Summary of Requirement(s)	Check
Air leakage	R402.4	To be caulked, gasketed, weatherstripped or otherwise sealed per Table R402.4.1.1. Recessed lighting: IC-rated as having $\leq 2.0$ cfm tested to ASTM E 283. Windows and doors: 0.3 cfm/sq. ft. (swinging doors: 0.5 cfm/sf) when tested to NFRC 400 or AAMA/WDMA/CSA 101/I.S. 2/A440. Fireplaces: Tight-fitting flue dampers & outdoor combustion air.	✓
Programmable thermostat	R403.1.2	A programmable thermostat is required for the primary heating or cooling system.	✓
Air distribution system	R403.3.2 R403.3.4	Ducts shall be tested as per Section R403.3.2 by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statutes</i> , or individuals licensed as set forth in Section 489.105(3) (f), (g) or (i), <i>Florida Statutes</i> . Air handling units are not allowed in attics.	✓
Water heaters	R403.5	Comply with efficiencies in Table C404.2. Hot water pipes insulated to $\geq R-3$ to kitchen outlets, other cases. Circulating systems to have an automatic or accessible manual OFF switch. Heat trap required for vertical pipe risers.	
Swimming pools & spas	R403.10	Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency is 82%. Heat pump pool heaters minimum COP is 4.0.	
Cooling/heating equipment	R403.7	Sizing calculation performed & attached. Special occasion cooling or heating capacity requires separate system or variable capacity system.	✓
Lighting equipment	R404.1	At least 75% of permanently installed lighting fixtures shall be high-efficacy lamps.	✓



Lumber design values are in accordance with ANSI/TPI 1 section 6.3  
These truss designs rely on lumber values established by others.

RE: 1670705 - HOME TOWN HOMES - CARPORT

**MiTek USA, Inc.**

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: Home Town Homes Project Name: Carport Model: Custom  
Lot/Block: n/a Subdivision: n/a  
Address: 3359 East Hwy 240, n/a  
City: Columbia City State: FL

**Name Address and License # of Structural Engineer of Record, if there is one, for the building.**

Name: License #:  
Address:  
City: State:

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2  
Wind Code: ASCE 7-10 Wind Speed: 130 mph  
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 2 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T16145240	T04	1/30/19
2	T16145241	T04G	1/30/19



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin  
My license renewal date for the state of Florida is February 28, 2021.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

January 30, 2019

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	HOME TOWN HOMES - CARPORT	T16145240
1670705	T04	FINK	14	1		

Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 16:31:04 2019 Page 1  
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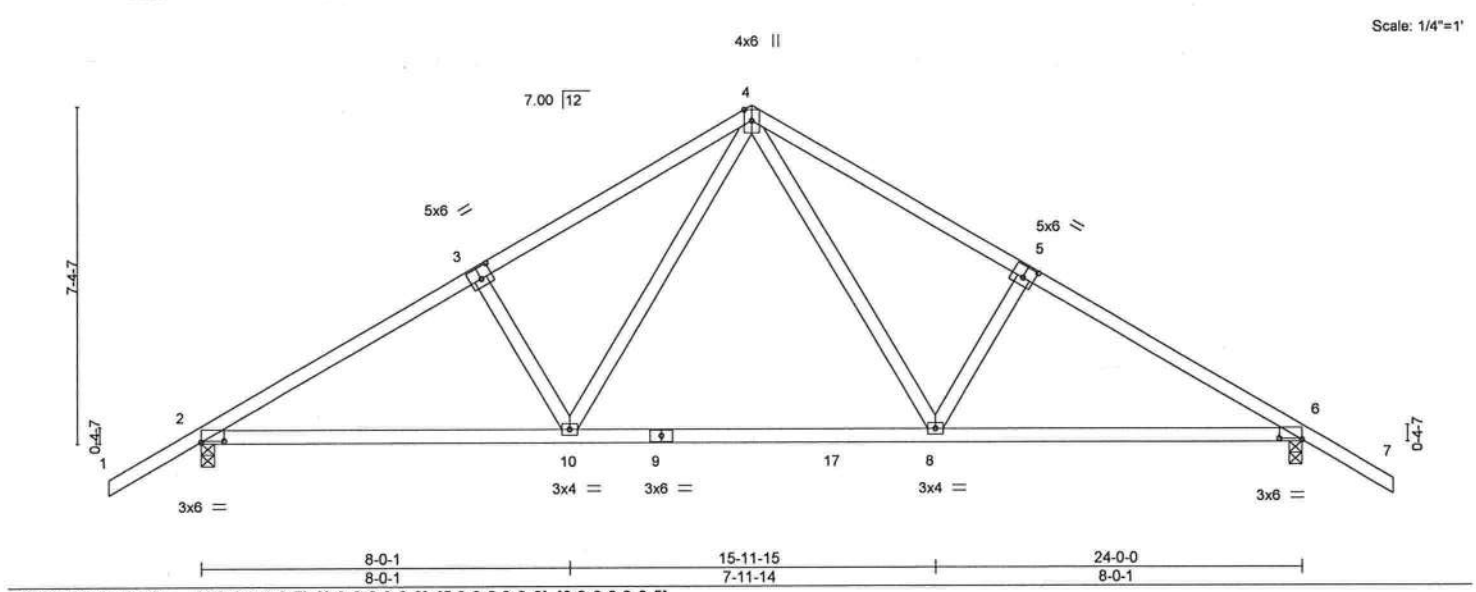


Plate Offsets (X,Y)--		[2-0-6-0,0-0-5], [3-0-3-0,0-3-0], [5-0-3-0,0-3-0], [6-0-6-0,0-0-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56
TCDL 7.0	Lumber DOL	1.25	BC 0.62
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00
BCDL 10.0	Code	FBC2017/TP12014	Matrix-MS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.20 8-16	>999	240
Vert(CT)	-0.27 8-10	>999	180
Horz(CT)	0.04 6	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 119 lb		FT = 20%	

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 4-10-4 oc bracing.

**REACTIONS.** (lb/size) 2=996/0-3-8, 6=996/0-3-8  
 Max Horz 2=-254(LC 10)  
 Max Uplift 2=-395(LC 12), 6=-395(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1380/1524, 3-4=-1235/1557, 4-5=-1235/1557, 5-6=-1380/1524  
 BOT CHORD 2-10=-1180/1137, 8-10=-649/745, 6-8=-1194/1137  
 WEBS 3-10=-384/322, 4-10=-789/523, 4-8=-789/523, 5-8=-384/322

**NOTES-**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=395, 6=395.



Joaquin Velez PE No.68182  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: January 30, 2019



Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 16:31:05 2019 Page 1

Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 16:31:05 2019 Page 1

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 16:31:05 2019 Page 1

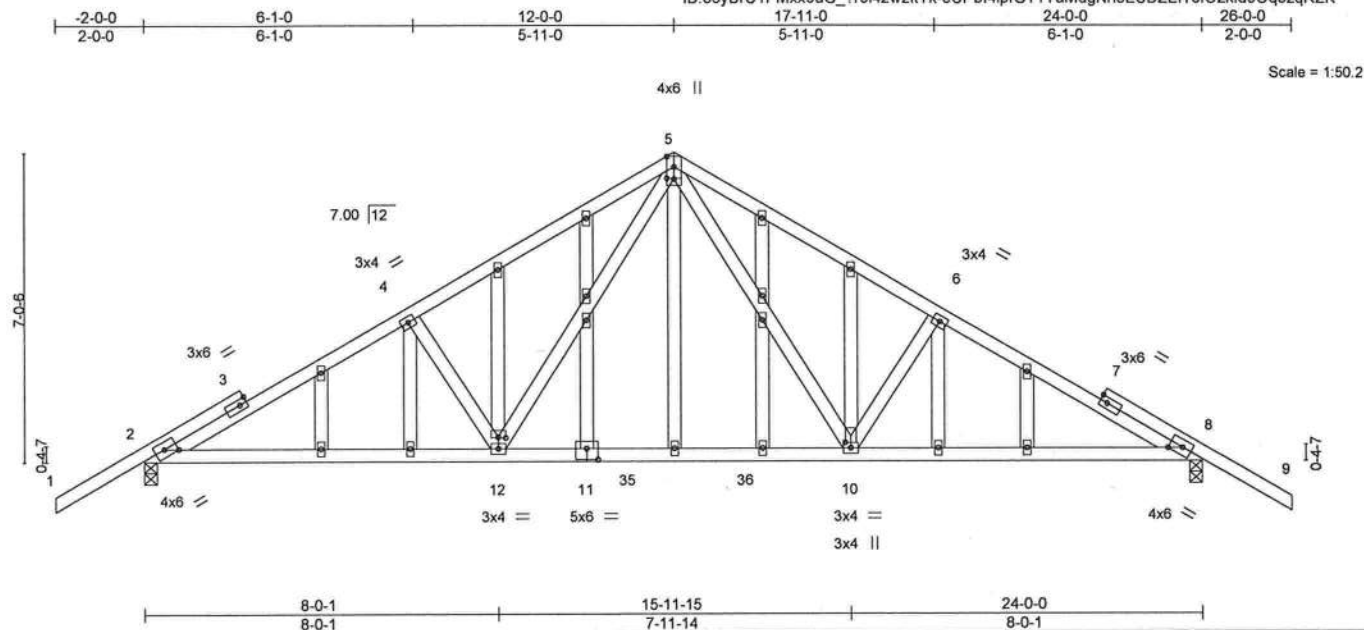


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-2-0,0-0-3], [8:0-3-8,Edge], [10:0-1-8,0-1-8], [11:0-3-0,0-0-3], [12:0-2-0,0-0-3]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.89		Vert(LL) 0.21 10-12	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.60		Vert(CT) -0.28 10-12	>999	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.99		Horz(CT) 0.04 8	n/a	n/a		
BCDL 10.0		Code FBC2017/TP12014		Matrix-MS					Weight: 173 lb	FT = 20%

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-8-14 oc bracing.

**REACTIONS.** (lb/size) 2=993/0-3-8, 8=993/0-3-8  
Max Horz 2=-244(LC 10)  
Max Uplift 2=-398(LC 12), 8=-398(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-4=-1400/1602, 4-5=-1292/1616, 5-6=-1292/1616, 6-8=-1400/1601
BOT CHORD	2-12=-1286/1222, 10-12=-673/759, 8-10=-1304/1222
WEBS	4-12=-429/382, 5-12=-840/566, 5-10=-839/566, 6-10=-429/382

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDF=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDF = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)  
2=398, 8=398.



Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

January 30, 2019

**▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

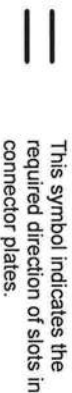
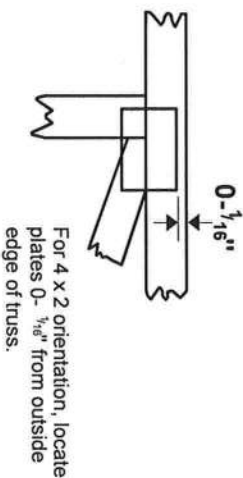
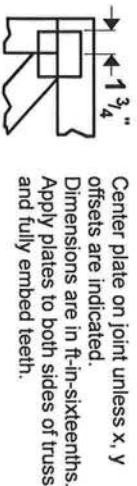
**WARNING - verify design parameters and READ NOTES on this and INCLUDED MATERIAL CERTIFICATE before use.** Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI-1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Tampa, FL 36610

# Symbols

## PLATE LOCATION AND ORIENTATION



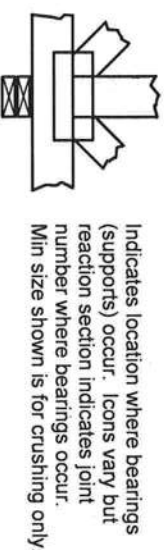
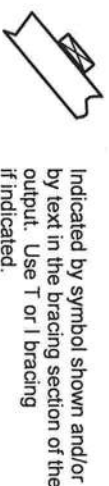
\* Plate location details available in **MITek 20/20** software or upon request.

## PLATE SIZE

**4 X 4**

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

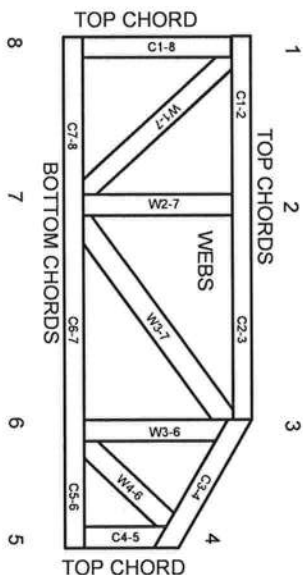
## LATERAL BRACING LOCATION



**Industry Standards:**  
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:  
ESR-1311, ESR-1352, ESR1988  
ESR-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# General Safety Notes

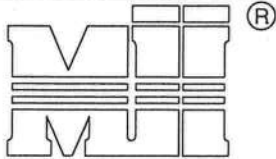
**Failure to Follow Could Cause Property Damage or Personal Injury**

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

AUGUST 1, 2016

# T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2



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Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

## Nailing Pattern

T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

## Brace Size for One-Ply Truss

### Specified Continuous Rows of Lateral Bracing

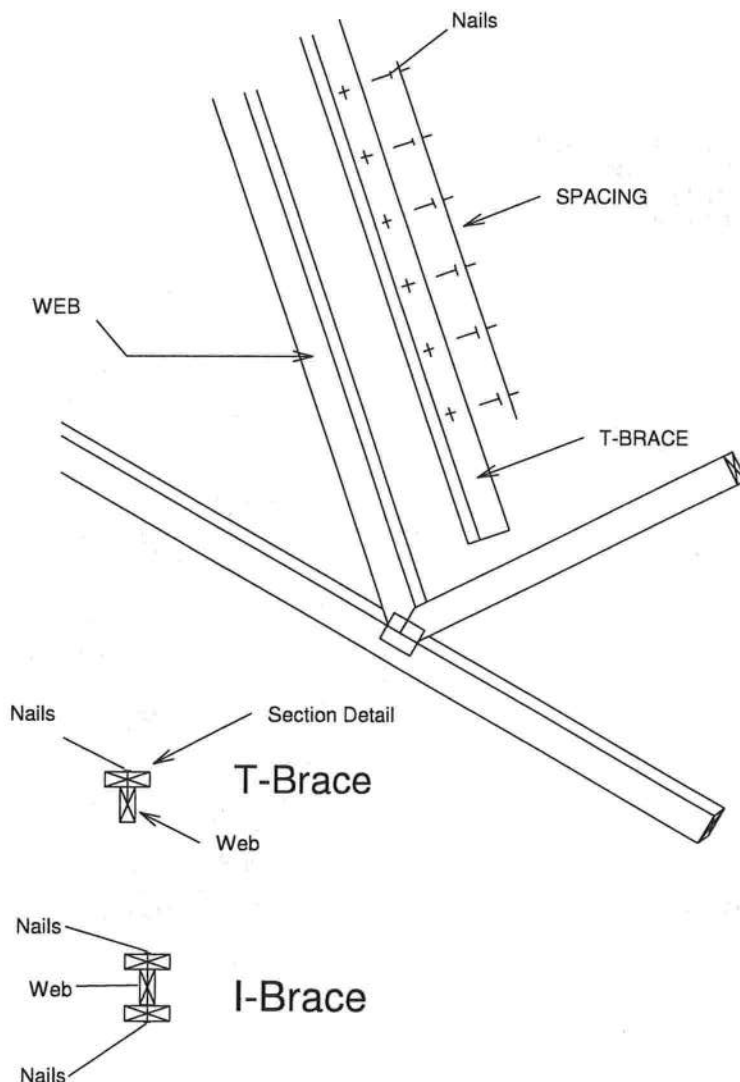
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

## Brace Size for Two-Ply Truss

### Specified Continuous Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.



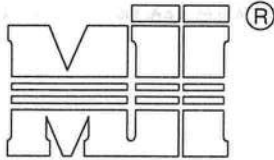
Thomas A. Albani PE No.39380  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 12, 2018

AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE



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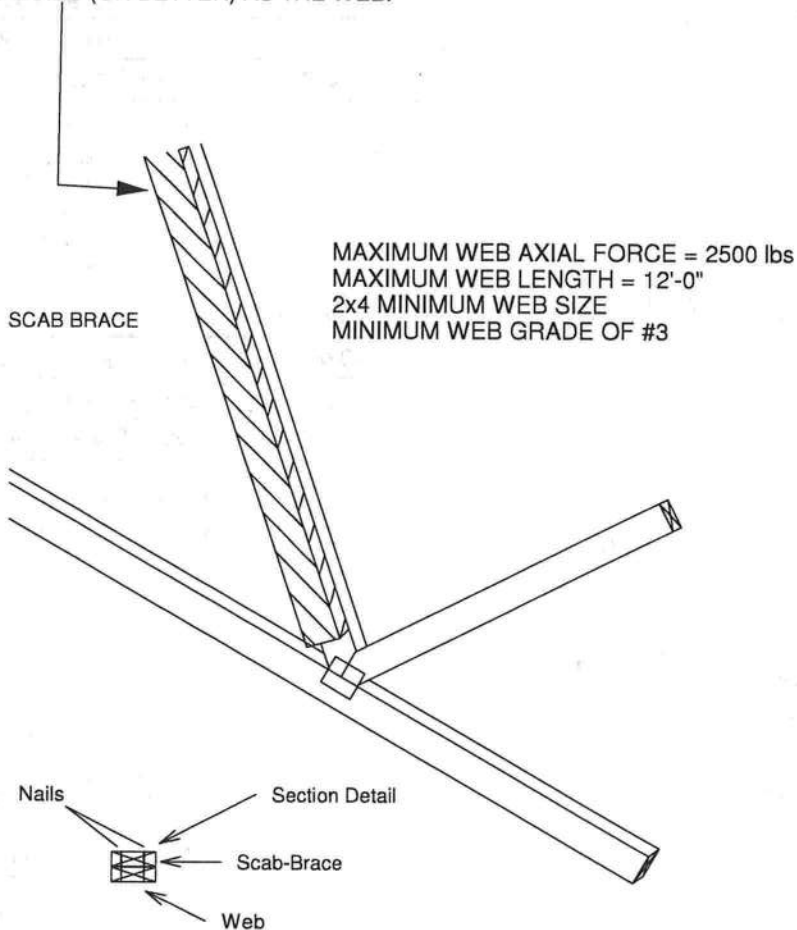
MiTek USA, Inc.

Page 1 of 1

Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.  
Scab must cover full length of web +/- 6".

\*\*\* THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



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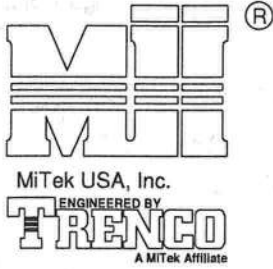


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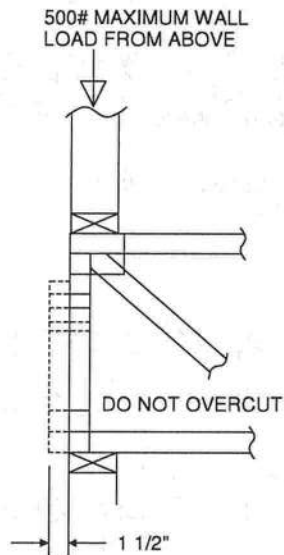
STANDARD REPAIR TO REMOVE END  
VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

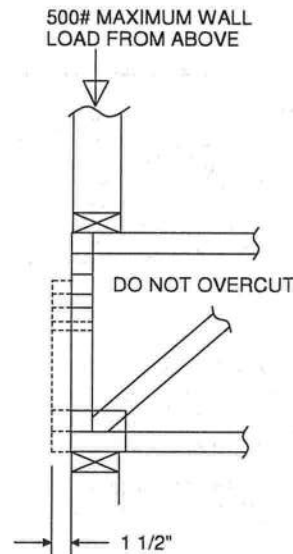
MiTek USA, Inc. Page 1 of 1



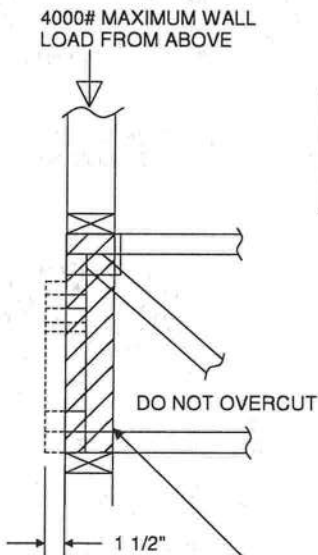
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



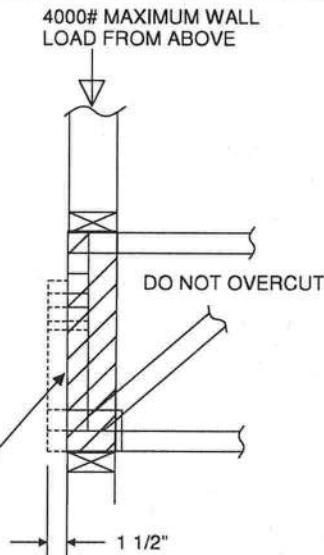
REFER TO INDIVIDUAL  
TRUSS DESIGN FOR  
PLATE SIZES AND  
LUMBER GRADES



TRUSSES BUILT  
WITH 4x2 MEMBERS



REFER TO INDIVIDUAL  
TRUSS DESIGN FOR  
PLATE SIZES AND  
LUMBER GRADES



TRUSSES BUILT  
WITH 4x2 MEMBERS

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY)  
TO BOTH SIDES OF THE TRUSS AS SHOWN WITH  
10d (0.131" X 3") NAILS SPACED 3" O.C.



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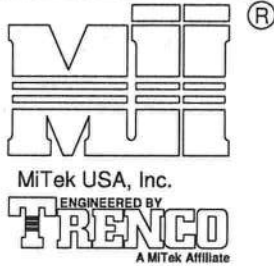
February 12, 2018

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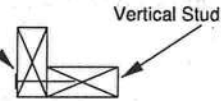
## Standard Gable End Detail

MII-GE130-D-SP

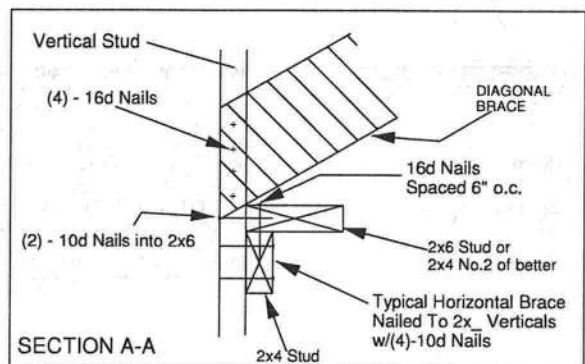
MiTek USA, Inc. Page 1 of 2



Typical  $\frac{1}{4}$ " L-Brace Nailed To  
2x Verticals W/10d Nails spaced 6" o.c.



SECTION B-B

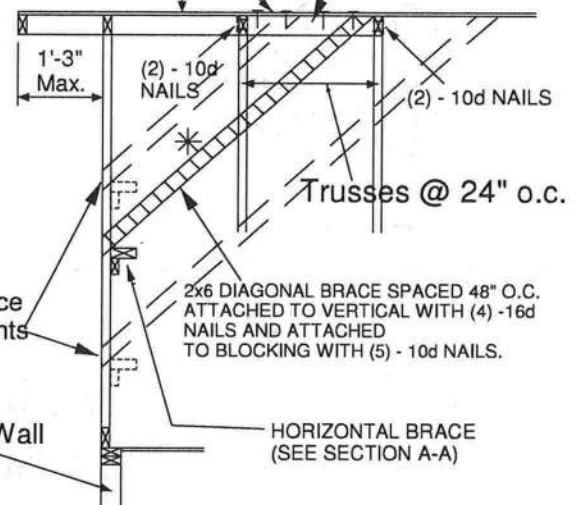


SECTION A-A

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

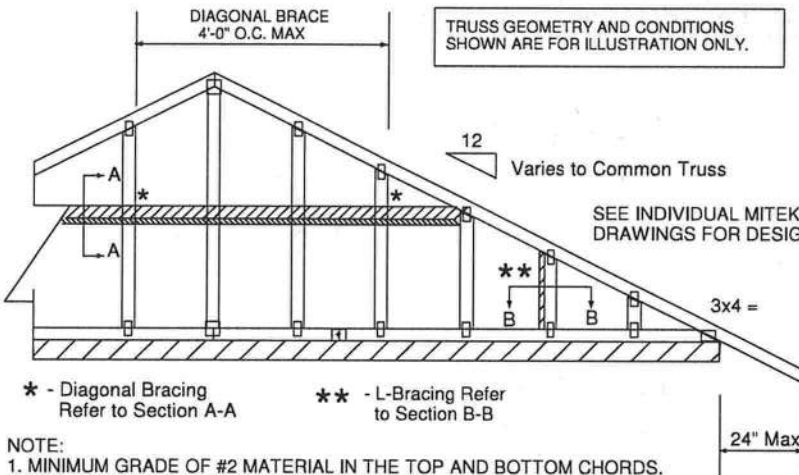
(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing



Diag. Brace  
at 1/3 points  
if needed

End Wall

HORIZONTAL BRACE  
(SEE SECTION A-A)

\* - Diagonal Bracing Refer to Section A-A  
\*\* - L-Bracing Refer to Section B-B

## NOTE:

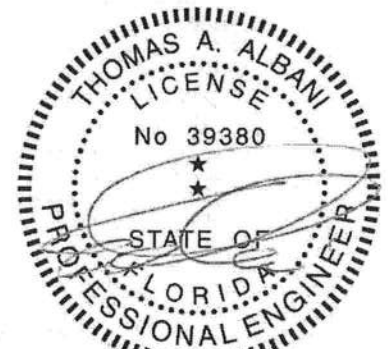
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET  
CATEGORY II BUILDING  
EXPOSURE D  
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH  
ASCE 7-10 160 MPH  
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
CONNECTION OF BRACING IS BASED ON MWFRS.



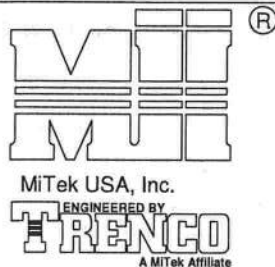
Thomas A. Albani PE No.39380  
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February 12, 2018

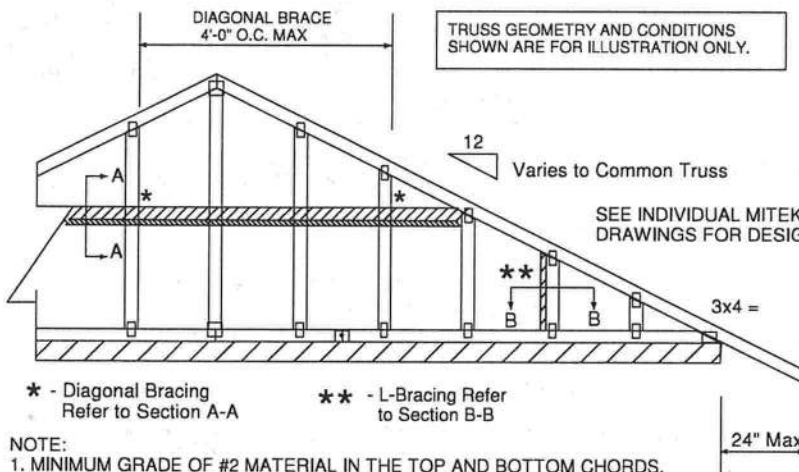
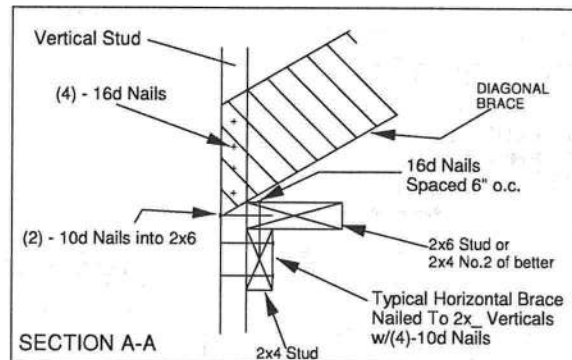
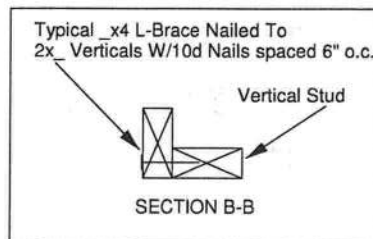
AUGUST 1, 2016

## Standard Gable End Detail

MII-GE130-SP



MiTek USA, Inc. Page 1 of 2

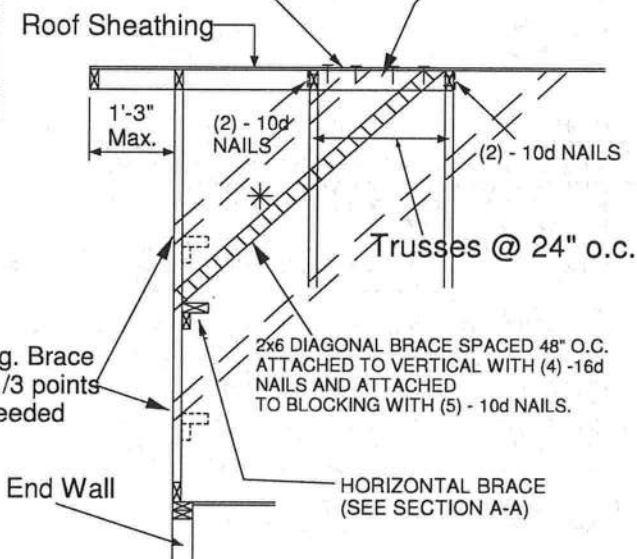


## NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
			Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

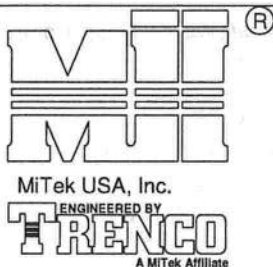
MAX MEAN ROOF HEIGHT = 30 FEET  
CATEGORY II BUILDING  
EXPOSURE B or C  
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH  
ASCE 7-10 160 MPH  
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
CONNECTION OF BRACING IS BASED ON MWFRS.

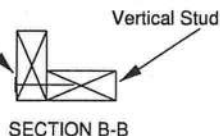


Thomas A. Albani PE No.39380  
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Date:

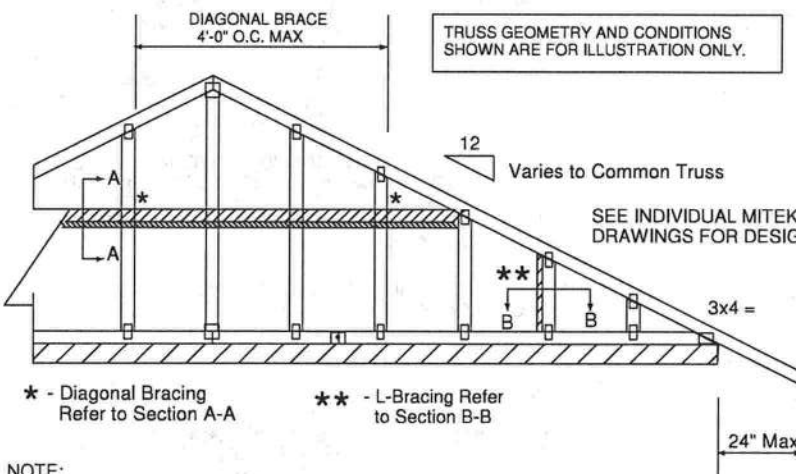
February 12, 2018



Typical 4x L-Brace Nailed To  
2x Verticals W/10d Nails spaced 6" o.c.

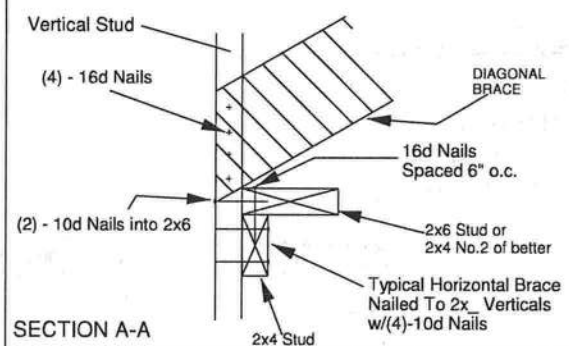


TRUSS GEOMETRY AND CONDITIONS  
SHOWN ARE FOR ILLUSTRATION ONLY.



## NOTE:

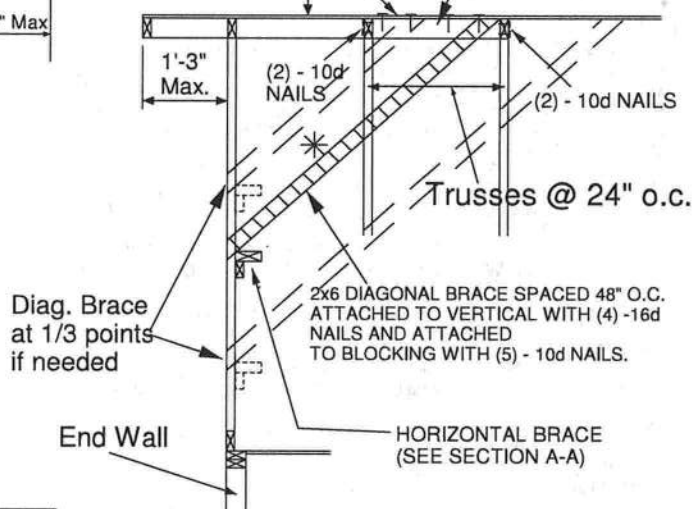
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

Roof Sheathing



Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
			Maximum Stud Length			
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
CATEGORY II BUILDING  
EXPOSURE B or C  
ASCE 7-98, ASCE 7-02, ASCE 7-05  
DURATION OF LOAD INCREASE : 1.60

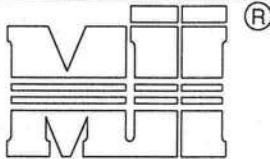
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
CONNECTION OF BRACING IS BASED ON MWFRS.



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Date:

January 19, 2018





MiTek USA, Inc.

**ENGINEERED BY**  
**TRENCO**  
 A MiTek Affiliate

 Typical 2x4 L-Brace Nailed To  
 2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

 TRUSS GEOMETRY AND CONDITIONS  
 SHOWN ARE FOR ILLUSTRATION ONLY.

 12  
 Varies to Common Truss

 SEE INDIVIDUAL MITTEK ENGINEERING  
 DRAWINGS FOR DESIGN CRITERIA

3x4 =

24" Max

 \* - Diagonal Bracing  
 Refer to Section A-A

 \*\* - L-Bracing Refer  
 to Section B-B

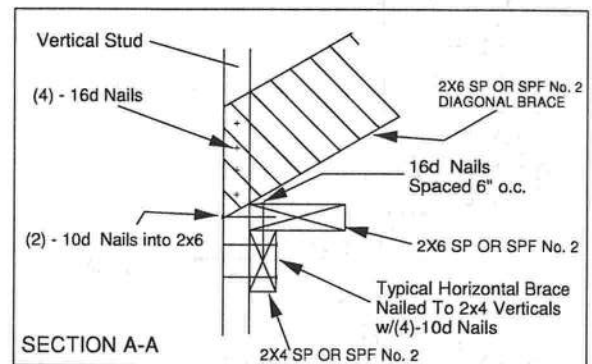
## NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

 MAX MEAN ROOF HEIGHT = 30 FEET  
 EXPOSURE D  
 ASCE 7-10 170 MPH  
 DURATION OF LOAD INCREASE : 1.60

 STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
 CONNECTION OF BRACING IS BASED ON MWFRS.


PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-0" Max.

(2) - 10d NAILS

(2) - 10d NAILS

Trusses @ 24" o.c.

 Diag. Brace  
 at 1/3 points  
 if needed

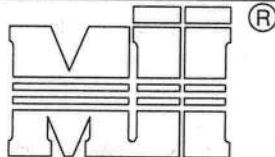
 2x6 DIAGONAL BRACE SPACED  
 48" O.C. ATTACHED TO VERTICAL WITH  
 (4) - 16d NAILS, AND ATTACHED TO  
 BLOCKING WITH (5) - 10d NAILS.

End Wall

 HORIZONTAL BRACE  
 (SEE SECTION A-A)

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February 12, 2018



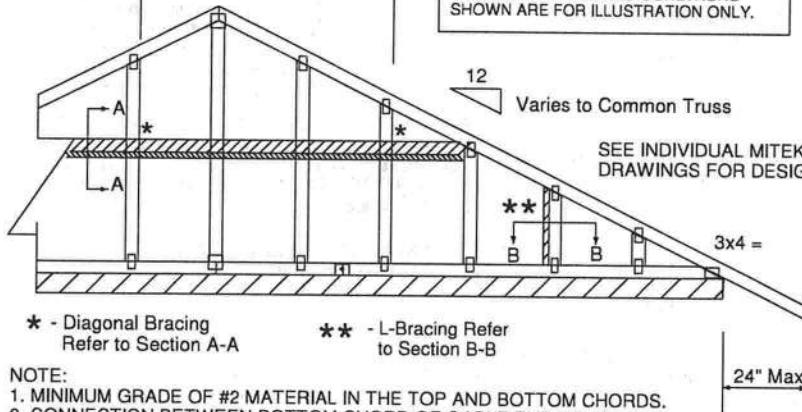
MiTek USA, Inc.

ENGINEERED BY  
**TRENCO**

A MiTek Affiliate

DIAGONAL BRACE

4'-0" O.C. MAX



## NOTE:

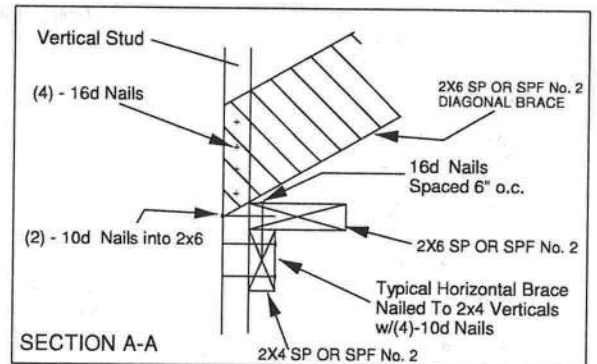
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

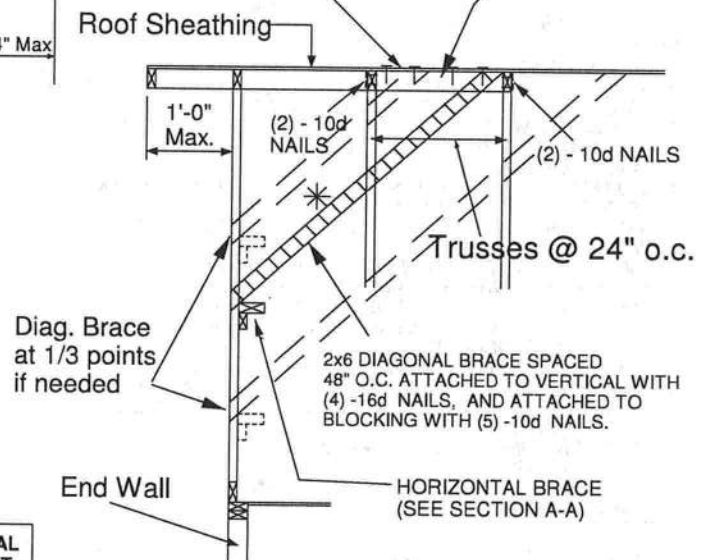
MAX MEAN ROOF HEIGHT = 30 FEET  
EXPOSURE D  
ASCE 7-10 180 MPH  
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
CONNECTION OF BRACING IS BASED ON MWFRS.



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



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Date:

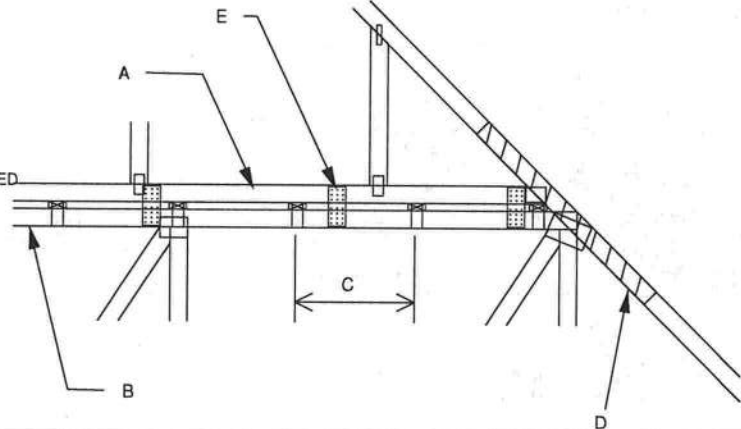
February 12, 2018



MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E  
MAX MEAN ROOF HEIGHT = 30 FEET  
MAX TRUSS SPACING = 24" O.C.  
CATEGORY II BUILDING  
EXPOSURE B or C  
ASCE 7-10  
DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES  
TRANSFERING DRAG LOADS (SHEAR TRUSSES).  
ADDITIONAL CONSIDERATIONS BY BUILDING  
ENGINEER/DESIGNER ARE REQUIRED.

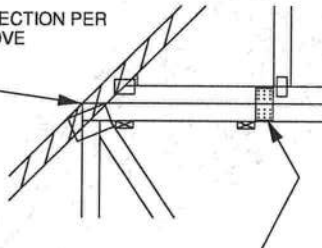
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
  2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



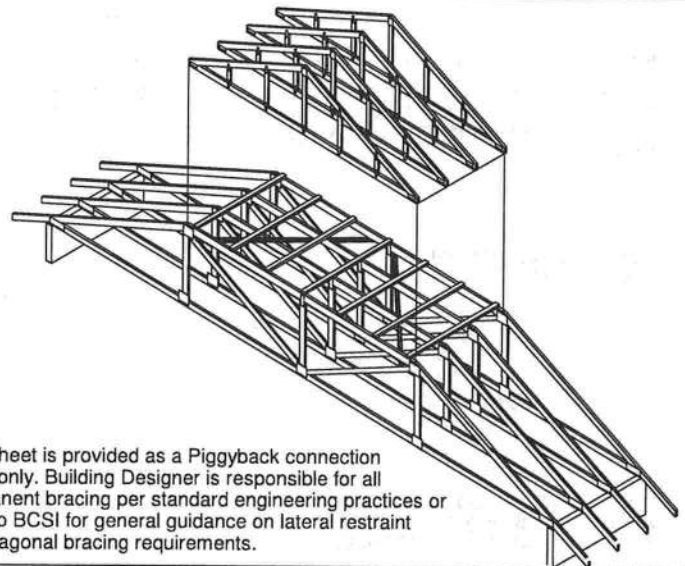
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER  
NOTE D ABOVE

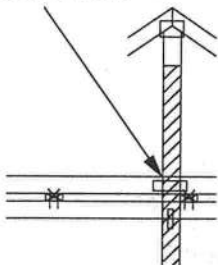


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO  
EXTEND THROUGH  
BOTTOM CHORD  
OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED  
TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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Date:

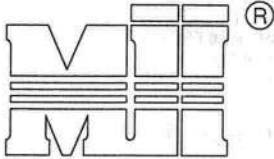
February 12, 2018

AUGUST 1, 2016

# STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT  
7-10

MiTek USA, Inc. Page 1 of 1



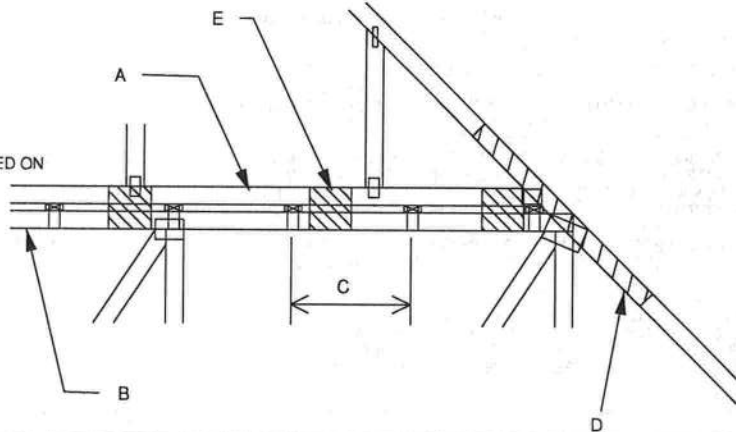
MiTek USA, Inc.



MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E  
MAX MEAN ROOF HEIGHT = 30 FEET  
MAX TRUSS SPACING = 24" O.C.  
CATEGORY II BUILDING  
EXPOSURE B or C  
ASCE 7-10  
DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES  
TRANSFERING DRAG LOADS (SHEAR TRUSSES).  
ADDITIONAL CONSIDERATIONS BY BUILDING  
ENGINEER/DESIGNER ARE REQUIRED.

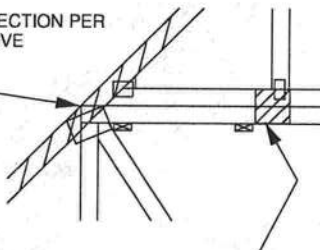
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
  2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 8" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



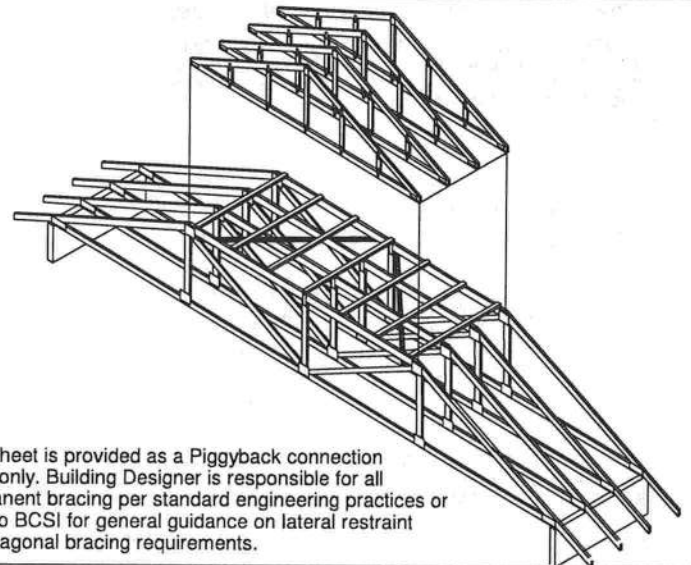
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER NOTE D ABOVE

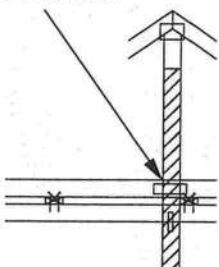


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



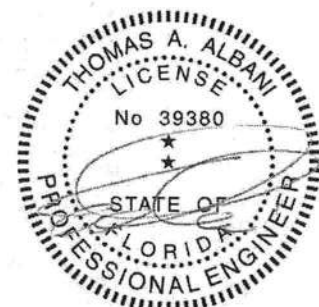
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

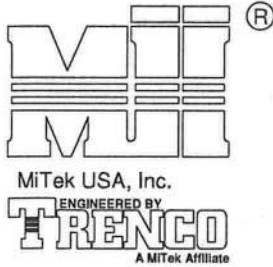
- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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6904 Parke East Blvd, Tampa FL 33610  
Date:

January 19, 2018



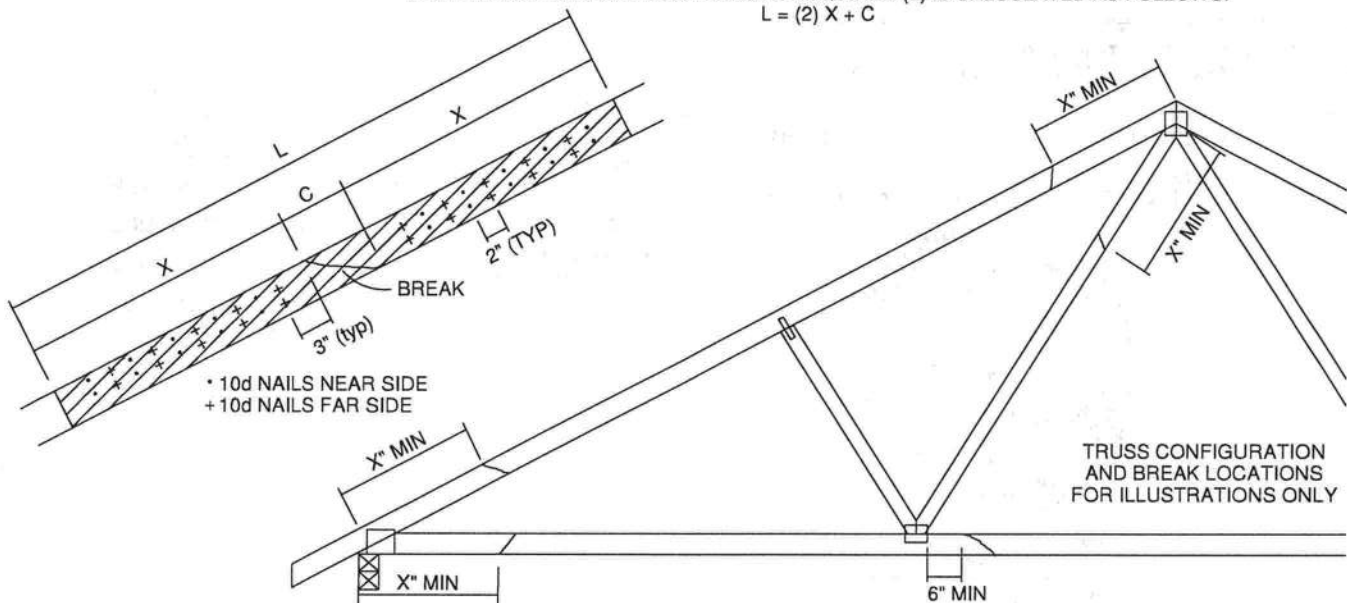


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

\* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)  
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:  
 $L = (2) X + C$

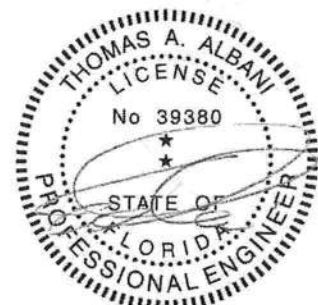


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

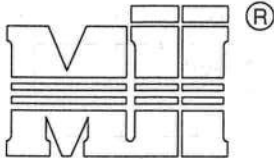
#### NOTES:

1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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January 19, 2018



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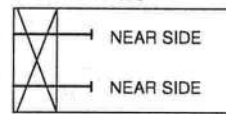
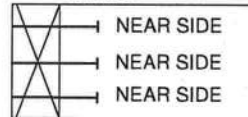
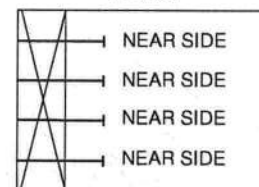
**ENGINEERED BY**  
**TRENCO**  
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## NOTES:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.)
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

 THIS DETAIL APPLICABLE TO THE  
 THREE END DETAILS SHOWN BELOW

 VIEWS SHOWN ARE FOR  
 ILLUSTRATION PURPOSES ONLY

 SIDE VIEW  
 (2x3)  
 2 NAILS

 SIDE VIEW  
 (2x4)  
 3 NAILS

 SIDE VIEW  
 (2x6)  
 4 NAILS


TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

 VALUES SHOWN ARE CAPACITY PER TOE-NAIL.  
 APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

## EXAMPLE:

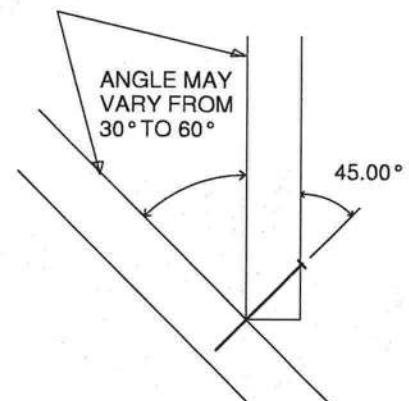
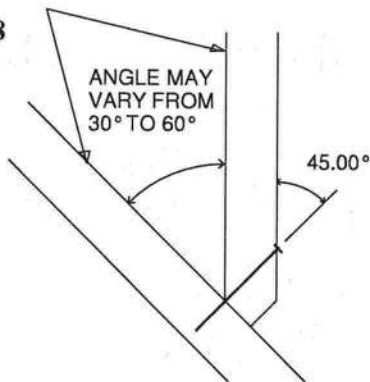
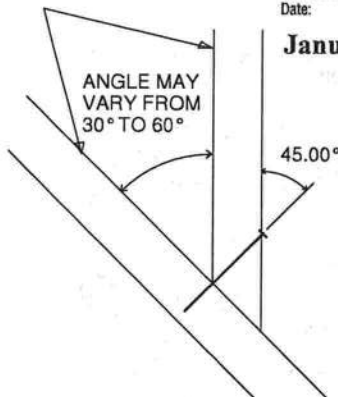
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity


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January 19, 2018



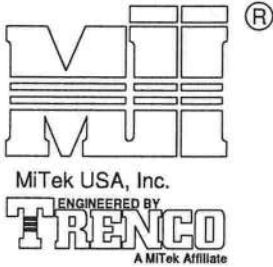
AUGUST 1, 2016

# TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

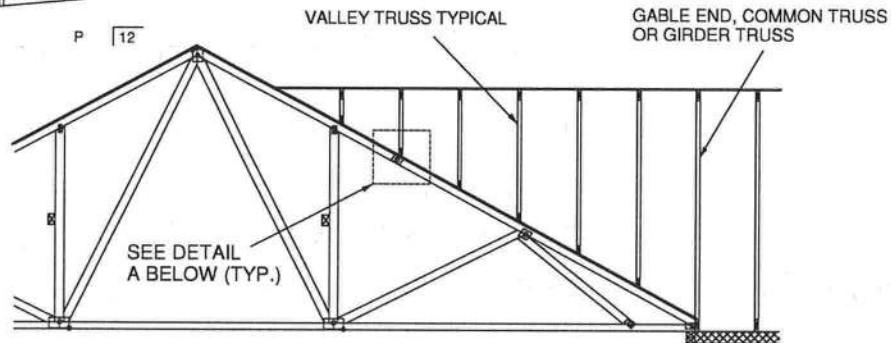
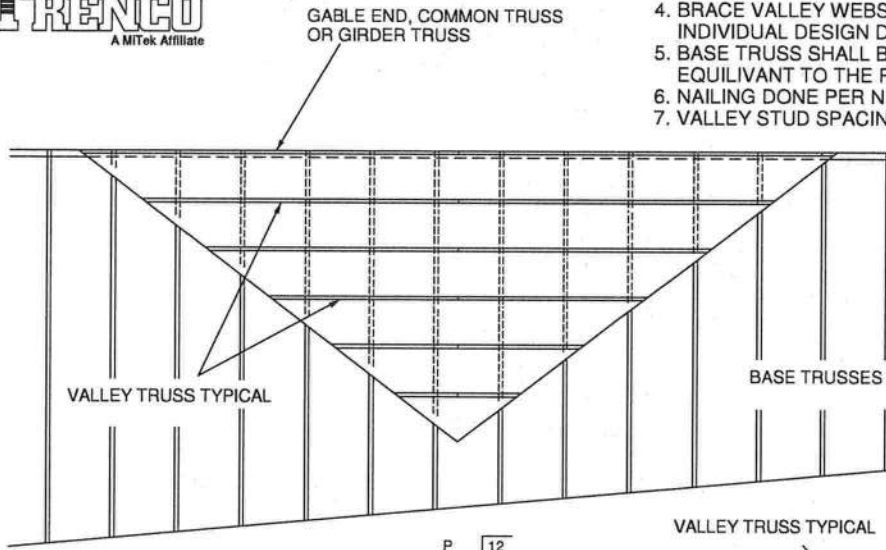
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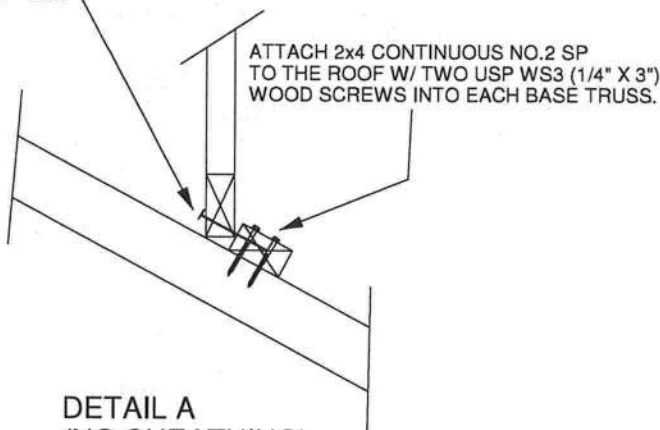


## GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT  
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS  
W/ ONE ROW OF 10d  
NAILS 6" O.C.



DETAIL A  
(NO SHEATHING)  
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH  
WIND DESIGN PER ASCE 7-10 160 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12  
CATEGORY II BUILDING  
EXPOSURE C  
WIND DURATION OF LOAD INCREASE : 1.60  
MAX TOP CHORD TOTAL LOAD = 50 PSF  
MAX SPACING = 24" O.C. (BASE AND VALLEY)  
MINIMUM REDUCED DEAD LOAD OF 6 PSF  
ON THE TRUSSES



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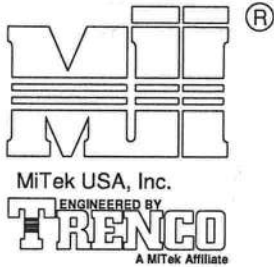
AUGUST 1, 2016

# TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

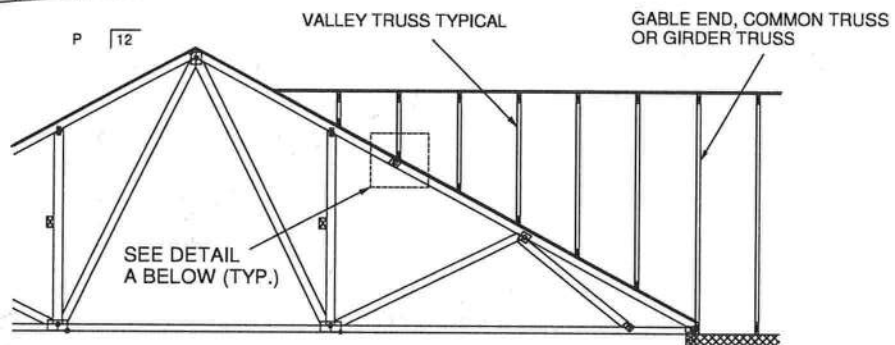
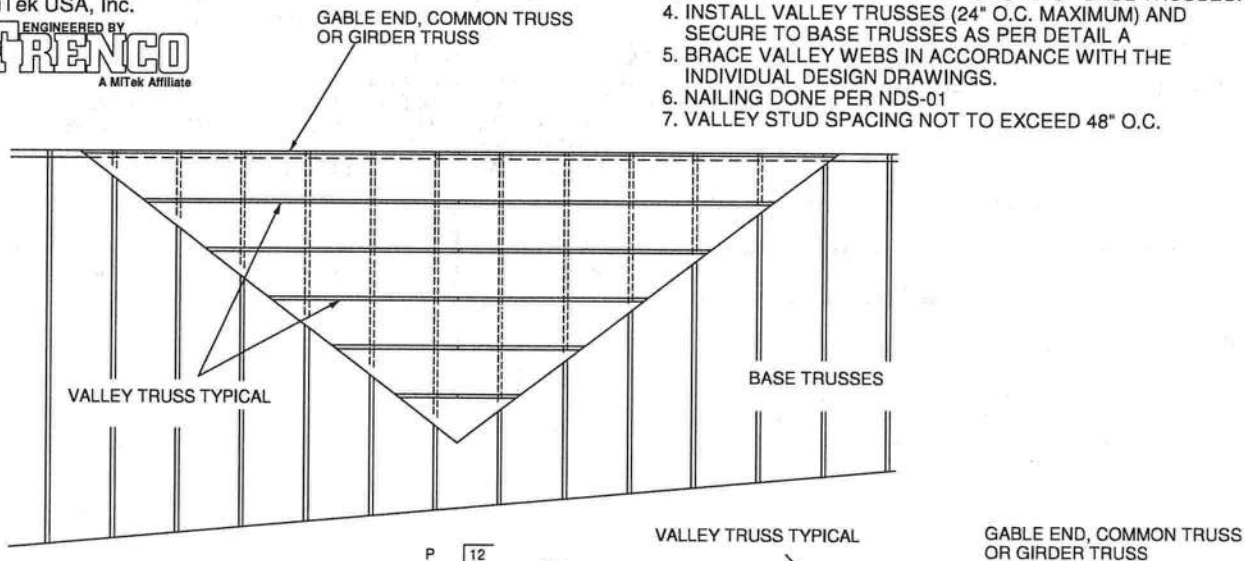
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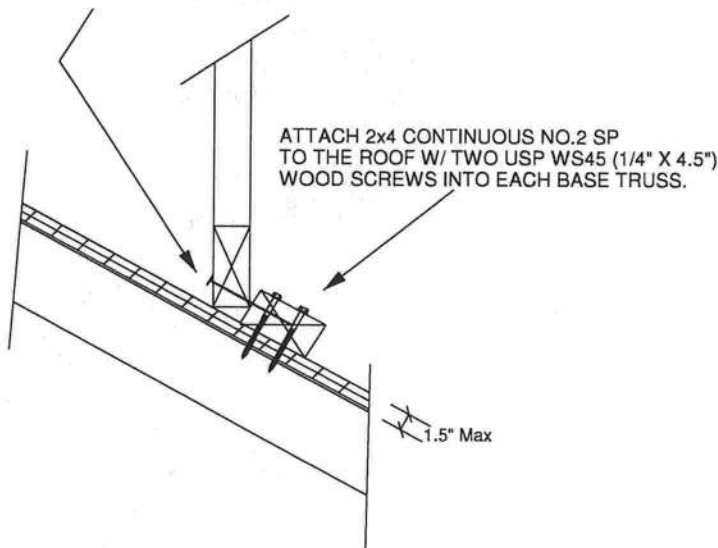


## GENERAL SPECIFICATIONS

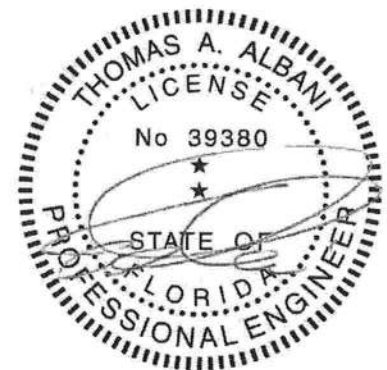
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS  
W/ ONE ROW OF 10d  
NAILS 6" O.C.



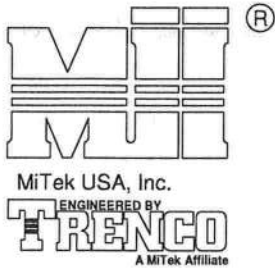
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH  
WIND DESIGN PER ASCE 7-10 160 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12  
CATEGORY II BUILDING  
EXPOSURE C  
WIND DURATION OF LOAD INCREASE : 1.60  
MAX TOP CHORD TOTAL LOAD = 50 PSF  
MAX SPACING = 24" O.C. (BASE AND VALLEY)  
MINIMUM REDUCED DEAD LOAD OF 6 PSF  
ON THE TRUSSES



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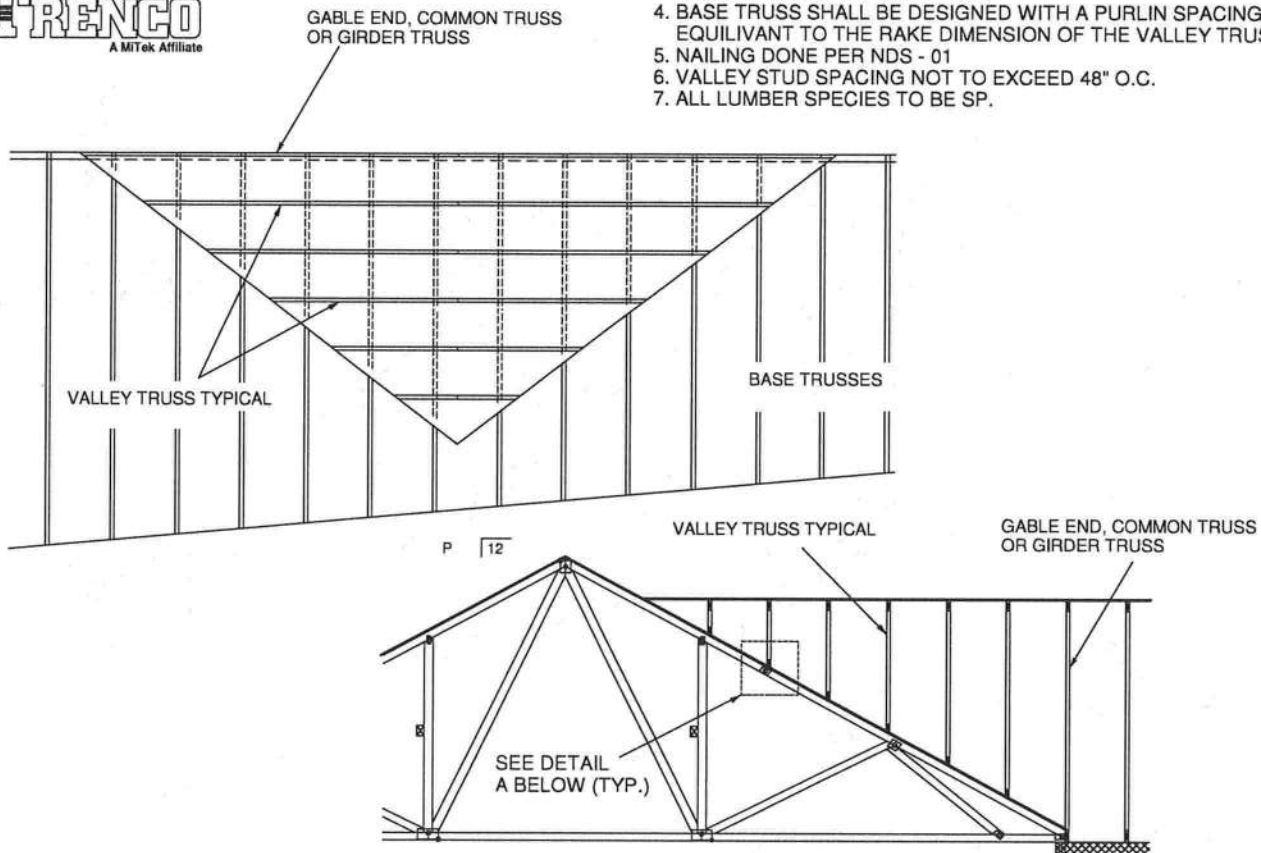
February 12, 2018



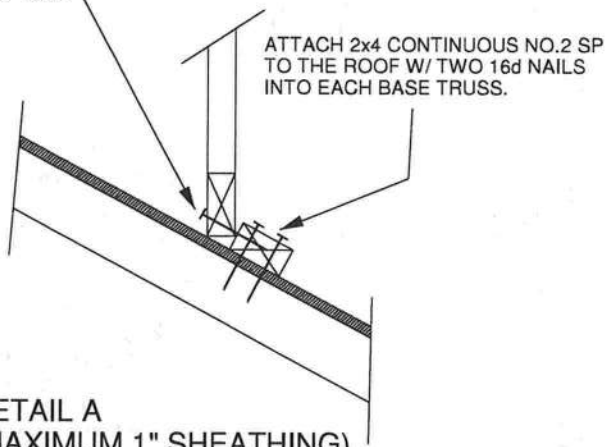


## GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVARIANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.



SECURE VALLEY TRUSS  
W/ ONE ROW OF 16d  
NAILS 6" O.C.



DETAIL A  
(MAXIMUM 1" SHEATHING)  
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH  
WIND DESIGN PER ASCE 7-10 150 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12  
CATEGORY II BUILDING  
EXPOSURE C OR B  
WIND DURATION OF LOAD INCREASE : 1.60  
MAX TOP CHORD TOTAL LOAD = 60 PSF  
MAX SPACING = 24" O.C. (BASE AND VALLEY)  
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF  
ON THE TRUSSES



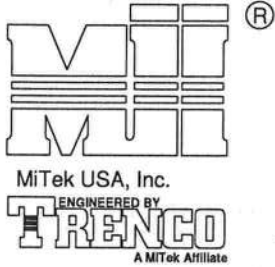
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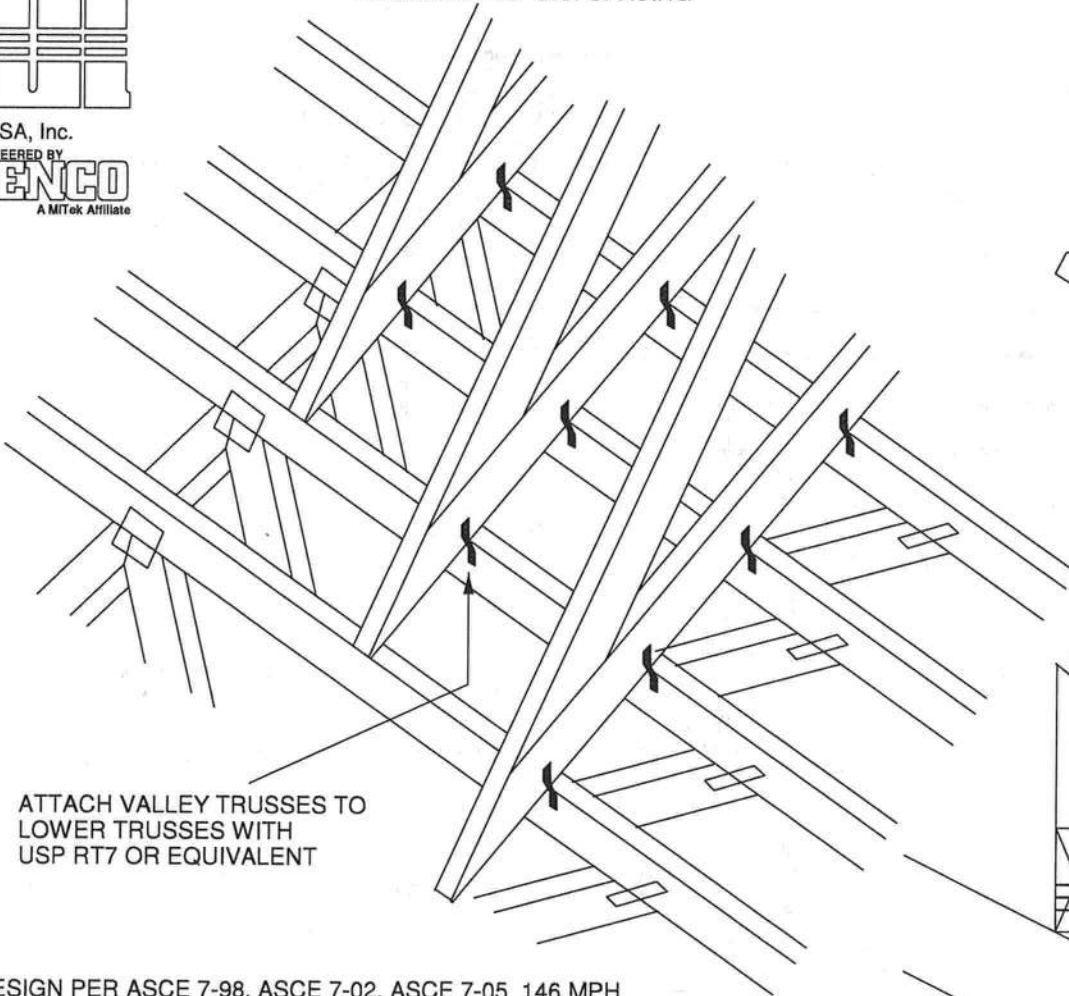
TRUSSED VALLEY SET DETAIL  
(HIGH WIND VELOCITY)

MII-VALLEY

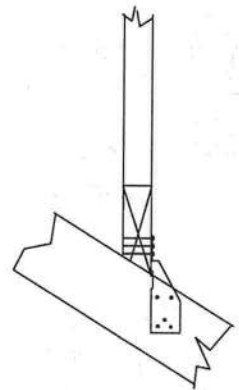


NOTE: VALLEY STUD SPACING NOT  
TO EXCEED 48" O.C. SPACING

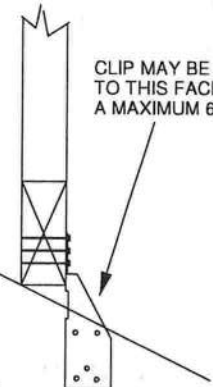
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ATTACH VALLEY TRUSSES TO  
LOWER TRUSSES WITH  
USP RT7 OR EQUIVALENT



FOR BEVELED BOTTOM  
CHORD, CLIP MAY BE  
APPLIED TO EITHER FACE



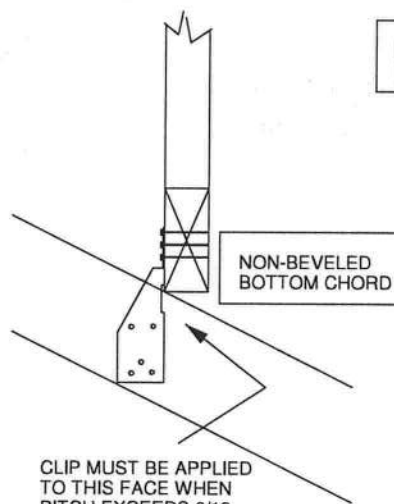
CLIP MAY BE APPLIED  
TO THIS FACE UP TO  
A MAXIMUM 6/12 PITCH

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH  
WIND DESIGN PER ASCE 7-10 160 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
CATEGORY II BUILDING  
EXPOSURE B or C  
WIND DURATION OF LOAD INCREASE : 1.6  
MAX TOP CHORD TOTAL LOAD = 50 PSF  
MAX SPACING = 24" O.C. (BASE AND VALLEY)

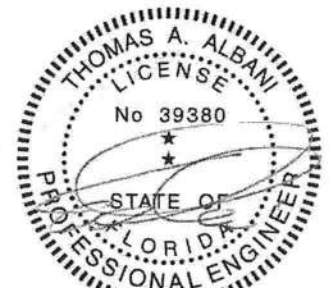
SUPPORTING TRUSSES DIRECTLY UNDER  
VALLEY TRUSSES MUST BE DESIGNED  
WITH A MAXIMUM UNBRACED LENGTH OF  
2'-10" ON AFFECTED TOP CHORDS.

NOTES:

- SHEATHING APPLIED AFTER  
INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR  
SPF-S SPECIES LUMBER.



CLIP MUST BE APPLIED  
TO THIS FACE WHEN  
PITCH EXCEEDS 6/12.  
(MAXIMUM 12/12 PITCH)



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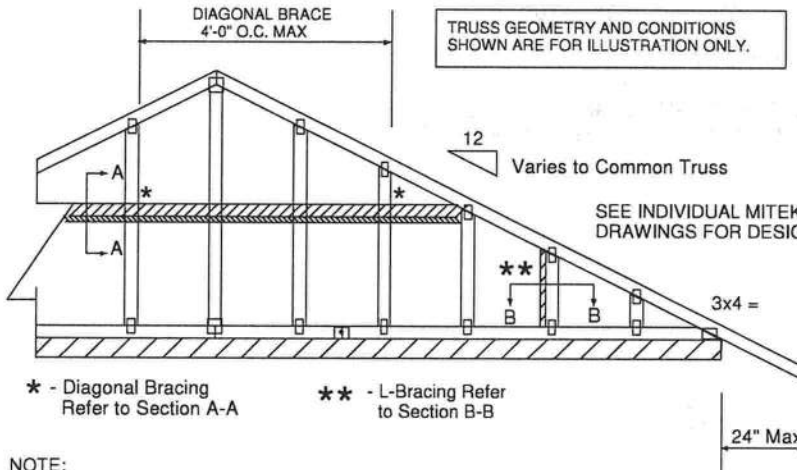
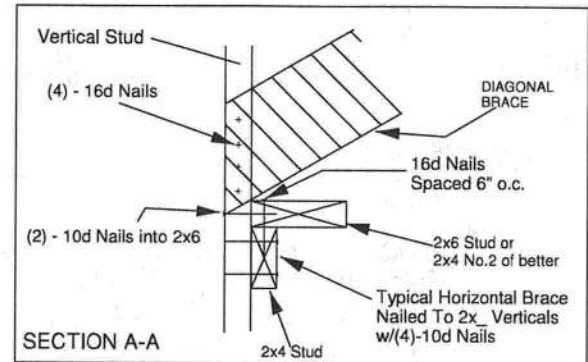
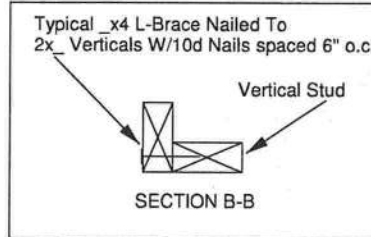
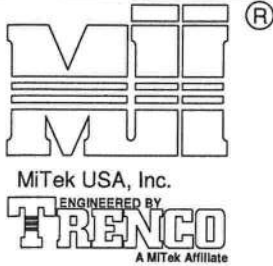
January 19, 2018

AUGUST 1, 2016

## Standard Gable End Detail

MII-GE146-001

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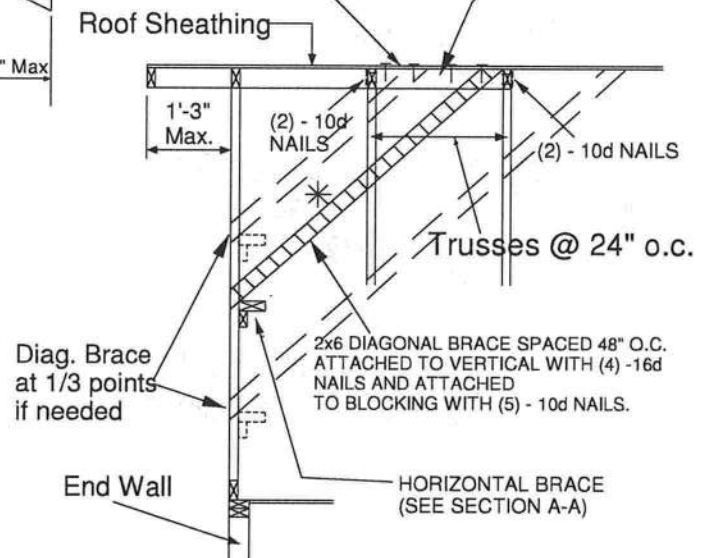


## NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

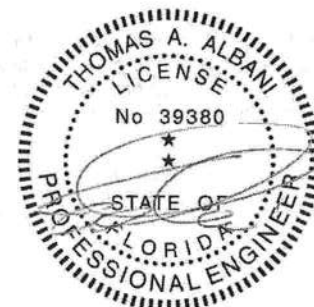


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
CATEGORY II BUILDING  
EXPOSURE B or C  
ASCE 7-98, ASCE 7-02, ASCE 7-05  
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
CONNECTION OF BRACING IS BASED ON MWFRS.



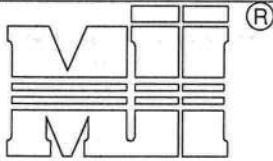
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Date:

January 19, 2018

OCTOBER 5, 2016

# REPLACE BROKEN OVERHANG

MII-REP13B



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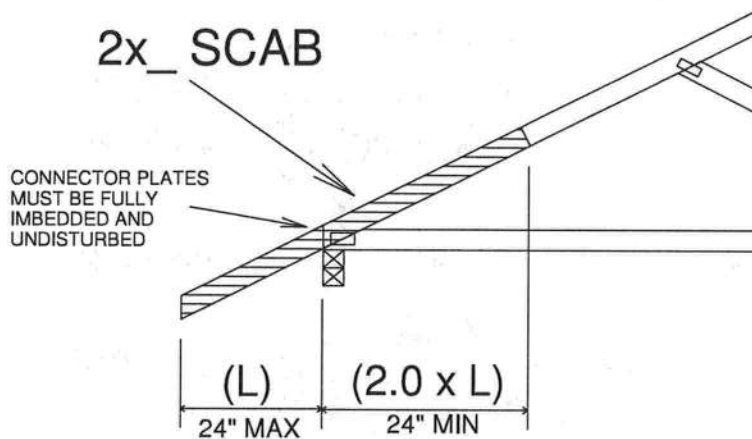
MiTek USA, Inc. Page 1 of 1

## TRUSS CRITERIA:

LOADING: 40-10-0-10  
DURATION FACTOR: 1.15  
SPACING: 24" O.C.  
TOP CHORD: 2x4 OR 2x6  
PITCH: 4/12 - 12/12  
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL  
END BEARING CONDITION

## NOTES:

1. ATTACH 2x SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



## IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf. Trusses not fitting these criteria should be examined individually.

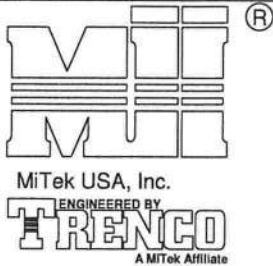
REFER TO INDIVIDUAL TRUSS DESIGN  
FOR PLATE SIZES AND LUMBER GRADES



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Date:

February 12, 2018

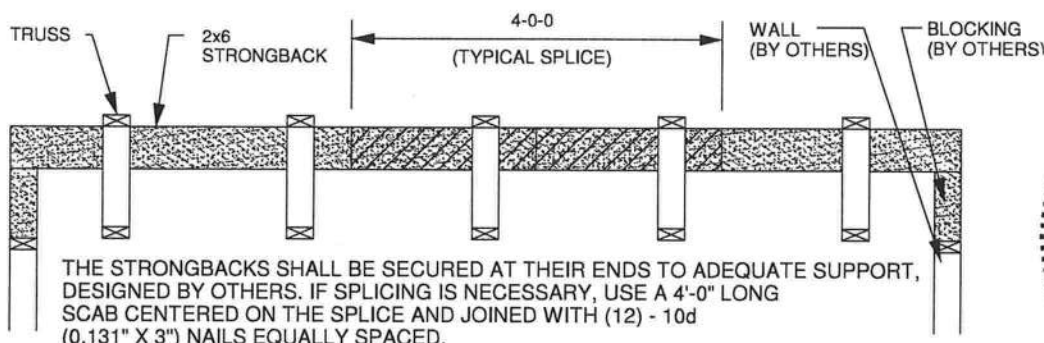
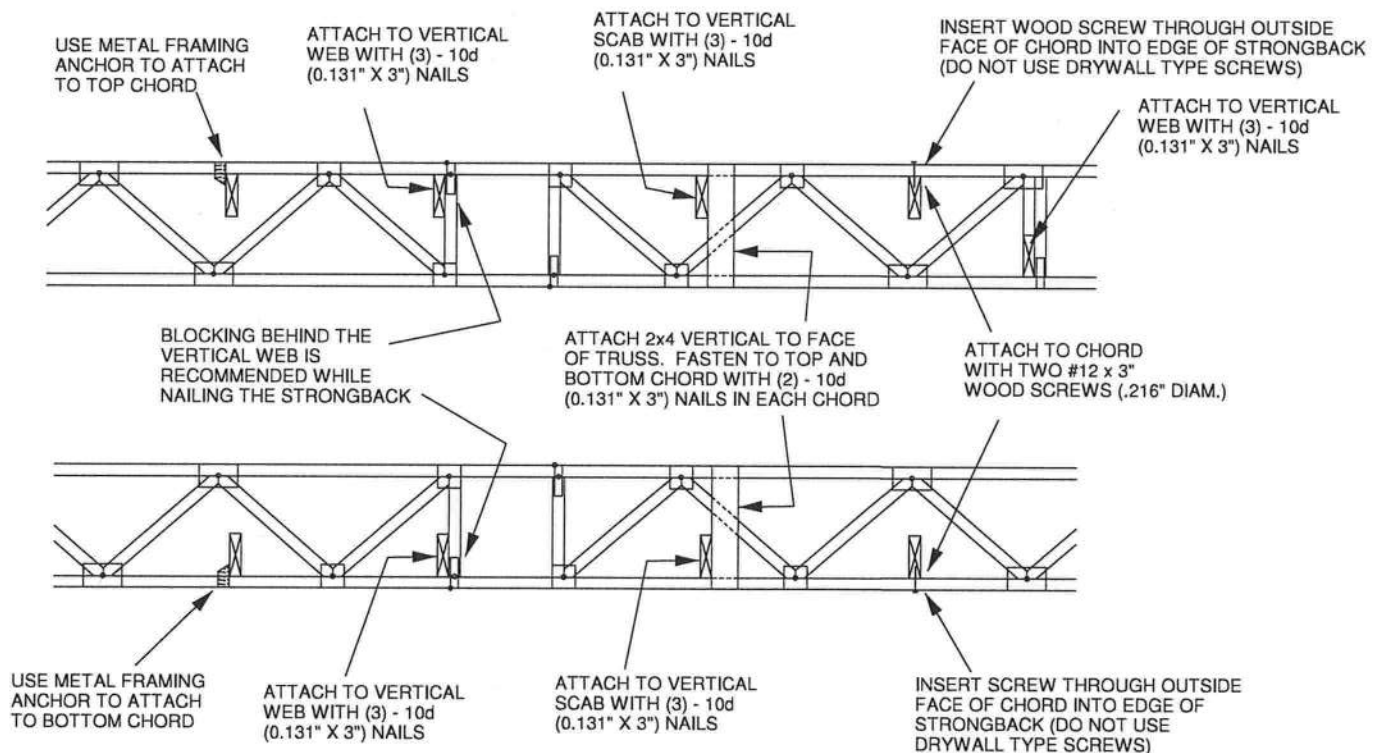




TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.








ALTERNATE METHOD OF SPLICING:  
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.  
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



Thomas A. Albani PE No.39380  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 12, 2018

BEARING HEIGHT SCHEDULE

	8' 1-1/8"
	9' 1-1/8"
	10' 1-1/8"
	11' 1-1/8"
	12' 1-1/8"

NOTES:

- 1) REFER TO MD 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL VWS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2 D.C. MAXIMUM SPACING UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING UNLESS OTHERWISE NOTED.
- 6) 5/162 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) BEARING JOISTS, ANTE, ROOF TO BE DIMENSIONED BY BUILDER.



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BUILDER:  
HOME TOWN HOMES  
ADDITION

DATE:	1-29-19	BY:	KLH	DATE:	1670705
DATE:	1-29-19	BY:	KLH	DATE:	1670705
DATE:	1-29-19	BY:	KLH	DATE:	1670705

7/12 PITCH  
24" O/H

