DATE 06/04/2019

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000038186

APPLICANT BLAKE LUNDE,II. PHONE 386.754.5810

ADDRESS 618 SW FL GATEWAY DR LAKE CITY FL 32024

OWNER JOSEPH & EVA MARTINO PHONE 386.984.6526

ADDRESS 331 SW KICKLIGHTER TER LAKE CITY FL 32024

CONTRACTOR BLAKE LUNDE, II. PHONE 386.754.5810

LOCATION OF PROPERTY 90-W TO C-341,TL TO KICKLIGHTER,TL PROPERTY ENTRANCE ON L PAST CITY TREATMENT PLANT.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 180300.00

HEATED FLOOR AREA 2597.00 TOTAL AREA 3606.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING RR MAX. HEIGHT

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 13-4S-16-02953-001 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 18.86

000002818 CBC1253408

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

WAIVER 19-0383 LH TC N

Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident Time/STUP No.

COMMENTS: 1 FOOT ABOVE ROAD. NOC ON FILE.

Check # or Cash 1019

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power date/app. by Foundation (footer/Slab) date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Insulation date/app. by

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

Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by Pool date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by

Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE $ 905.00 CERTIFICATION FEE $ 18.03 SURCHARGE FEE $ 18.03

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

PLAN REVIEW FEE $ 226.00 DP & FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1242.06

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.

ck # 1019

Columbia County New Building Permit Application

For Office Use Only Application # 1905-52 Date Received 5/16 By JW Permit # 38186 / 2918

Zoning Official JH Date 5-31-19 Flood Zone X Land Use Res. Zoning RR

FEMA Map # N/A Elevation _____ MFE 1' Above River N/A Plans Examiner T.C. Date 5-31-19

Comments Floor 1' Above Rd. Front 25' Sides 10' Rear 15' Existing

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

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

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

Septic Permit No. 19-0383 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Hayden Lunde Phone 386-867-1213

Address 618 SW Florida Gateway Dr Lake City, FL 32024

Owners Name Joe & Eva Martino * Phone 386.984.6526

* 911 Address 331 SW Kicklighter TER, LAKE City, FL 32024

Contractors Name Blake N Lunde II Phone 386-754-5810

Address 618 SW Florida Gateway Dr LC, FL 32024

Contractor Email blake@blakeconstruction.com haydenlunde@hotmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Disosway Eng 163 SW Midtown Pl LC, FL 32024 ste #103

Mortgage Lenders Name & Address FFSB

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

Property ID Number 13-4S-16-02953-001 Estimated Construction Cost 350,000

Subdivision Name N/A Lot ____ Block ____ Unit ____ Phase ____

Driving Directions from a Major Road 90 west to sisters welcome rd T-L to Kicklighter Rd T-R property Entrance on left just past city treatment plant.

Construction of VFD _____ Commercial OR X Residential

Proposed Use/Occupancy SFR Number of Existing Dwellings on Property ____

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

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

Actual Distance of Structure from Property Lines - Front 210' Side 100' Side 680' Rear 900'

Number of Stories 1 Heated Floor Area 2597 Total Floor Area 3606 Acreage 18.86

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

Sent email 5.20.19 to Hayden - 5.30.19 Sent email to Blake + 6.3.19

Columbia County Building Permit Application

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

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

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

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

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

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

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

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

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

Joe & Eva Martino — Print Owners Name

Joseph and Eva Martino — Owners Signature

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

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

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

Contractor's Signature

Contractor's License Number CBC1253408
Columbia County
Competency Card Number 48

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 30 day of April 20 19.

Personally known ✔ or Produced Identification

State of Florida Notary Signature (For the Contractor)

Linda L. Carter
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF954932
Expires 2/16/2020

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1905-52 JOB NAME Martino Residence

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

		Need
ELECTRICAL ☑ CC# 309	Print Name Matt Burns Signature Matt Burns Company Name: Matt Burns Electric License #: EC13006531 Phone #: 386-935-0444	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☑ CC# 1896	Print Name Rodney Cribbs Signature Rodney Cribbs Company Name: Quality Air Care License #: RA13067616 Phone #: 386-288-8034	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☑ CC# 298	Print Name Don Bills Signature Don Bills Company Name: Hometown Plumbing Service License #: CFC1428890 Phone #: 386-754-6140	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☑ CC#	Print Name Blake N Lunde II Signature Company Name: Blake Roofing Inc. (LPER BLAKE) License #: CBC1253408 Phone #: 386-754-5810	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

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

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

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:	**6/3/2019 1:26:36 PM**
Address:	**331 SW KICKLIGHTER Ter**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32024**
Parcel ID	**02953-001**

REMARKS: Address Verification.

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

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

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

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

Columbia County Property Appraiser

Jeff Hampton

2018 Tax Roll Year
updated: 3/29/2019

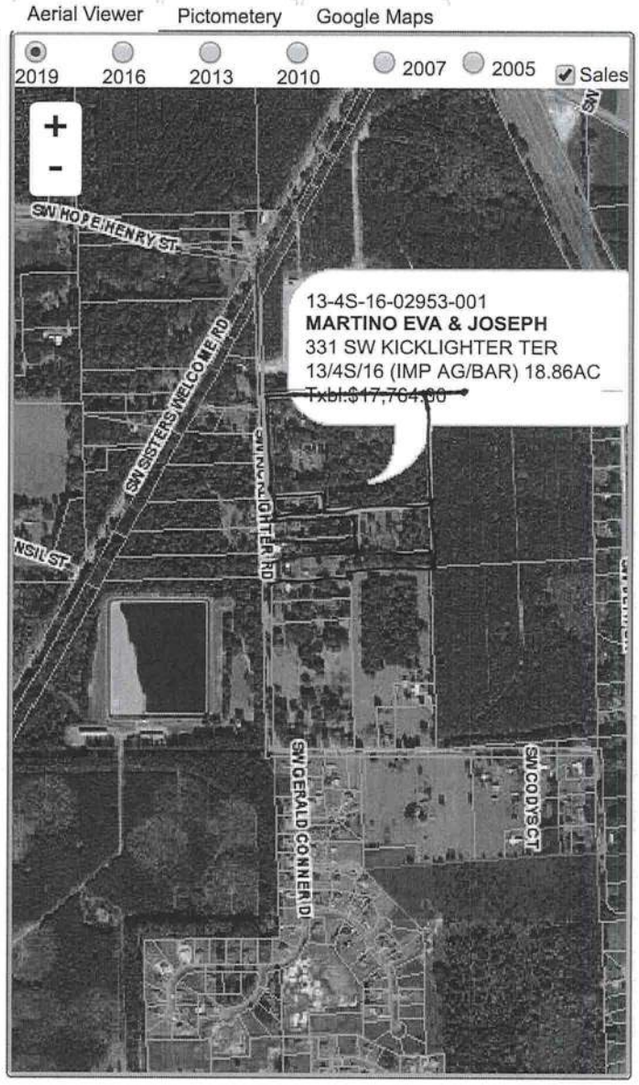
Parcel: << **13-4S-16-02953-001** >>

Owner & Property Info

Owner	**MARTINO EVA & JOSEPH** 144 SW HANCOCK CT LAKE CITY, FL 32024		
Site	331 KICKLIGHTER TER,		
Description*	N1/2 OF SW1/4 OF SW1/4 & THE N 208.01FT OF THE S 674.01FT OF SW1/4 OF SW1/4 EX 1.24 AC DESC 893-177 & EX 4.53 AC DESC IN ORB 1379-2555. 470-191, 443-177, 459-300, 533-605, 649-254, 840-409, PR 1378-1181, WD 1379-2554, WD 1379-2556,		
Area	18.86 AC	S/T/R	13-4S-16
Use Code**	IMP AG/BAR (005020)	Tax District	2

*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.

Aerial Viewer | Pictometery | Google Maps



Property & Assessment Values

2018 Certified Values		2019 Working Values	
Mkt Land (3)	$9,492	Mkt Land (3)	$11,242
Ag Land (1)	$5,236	Ag Land (1)	$4,250
Building (0)	$0	Building (0)	$0
XFOB (4)	$7,093	XFOB (1)	$2,793
Just	$113,531	Just	$92,737
Class	$21,821	Class	$18,285
Appraised	$21,821	Appraised	$18,285
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$21,821	Assessed	$18,285
Exempt	$0	Exempt	$0
Total Taxable	county:$21,821 city:$21,821 other:$21,821 school:$21,821	Total Taxable	county:$17,764 city:$17,764 other:$17,764 school:$18,285

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
3/8/2019	$100	1379/2556	WD	V	U	11
3/8/2019	$100	1379/2554	WD	V	U	11
2/14/2019	$0	1378/1181	PR	V	U	11
12/7/2018	$100	1376/1057	PR	V	U	19

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
NONE						

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	0	$2,793.00	1596.000	42 x 38 x 0	(000.00)

Land Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value

This Instrument Prepared by & return to:
Name: ***JOSEPH MARTINO***
Address: ***144 SW HANCOCK CT***
LAKE CITY, FL 32024

Inst: 201912005675 Date: 03/11/2019 Time: 8:25AM
Page 1 of 1 B: 1379 P: 2556, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy ClerkDoc Stamp-Deed: 0.70

Parcel I.D. #: ***PART OF R02953-001***

SPACE ABOVE THIS LINE FOR PROCESSING DATA | *SPACE ABOVE THIS LINE FOR RECORDING DATA*

THIS WARRANTY DEED *Made the* 8th *day of* ***March****, A.D.* ***2019****, by* ***JOSEPH MARTINO*** *and* ***EVA MARTINO, HIS WIFE****, hereinafter called the grantors, to* ***JOSEPH MARTINO and EVA MARTINO, HIS WIFE,*** *whose post office address is* ***144 SW HANCOCK CT, LAKE CITY, FL 32024,*** *hereinafter called the grantees:*

(Wherever used herein the terms "grantors" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: *That the grantors, for and in consideration of the sum of $10.00 and other valuable consideration, receipt whereof is hereby acknowledged, do hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantees all that certain land situate in* ***Columbia County, State of Florida****, viz:*

BEGIN AT THE NE CORNER OF THE N ½ OF THE SW ¼ OF THE SW ¼ OF SECTION 13, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN S 87°40'18" W, 632.77 FEET; THENCE S 02°28'11" E, 368.58 FEET; THENCE S 87°11'45" W, 122.76 FEET; THENCE S 02°23'05" E, 538.81 FEET; THENCE N 87°09'50" E, 744.65 FEET; THENCE N 01°43'37" W, 901.87 FEET TO THE POINT OF BEGINNING.

LEGAL PROVIDED BY GRANTOR

THIS DEED WAS PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH OR SURVEY AND MAKES NO WARRANTIES AGAINST SAME.

Together *with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.*

To Have and to Hold *the same in fee simple forever.*

And *the grantors hereby covenant with said grantees that they are lawfully seized of said land in fee simple; that they have good right and lawful authority to sell and convey said land, and hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2019.*

In Witness Whereof, *the said grantors have signed and sealed these presents, the day and year first above written.*

Signed, sealed and delivered in the presence of:

Witness Signature
Printed Name

Witness Signature
Marla M. Landin
Printed Name

L.S.
JOSEPH MARTINO
Address: ***144 SW HANCOCK CT, LAKE CITY, FL 32024***

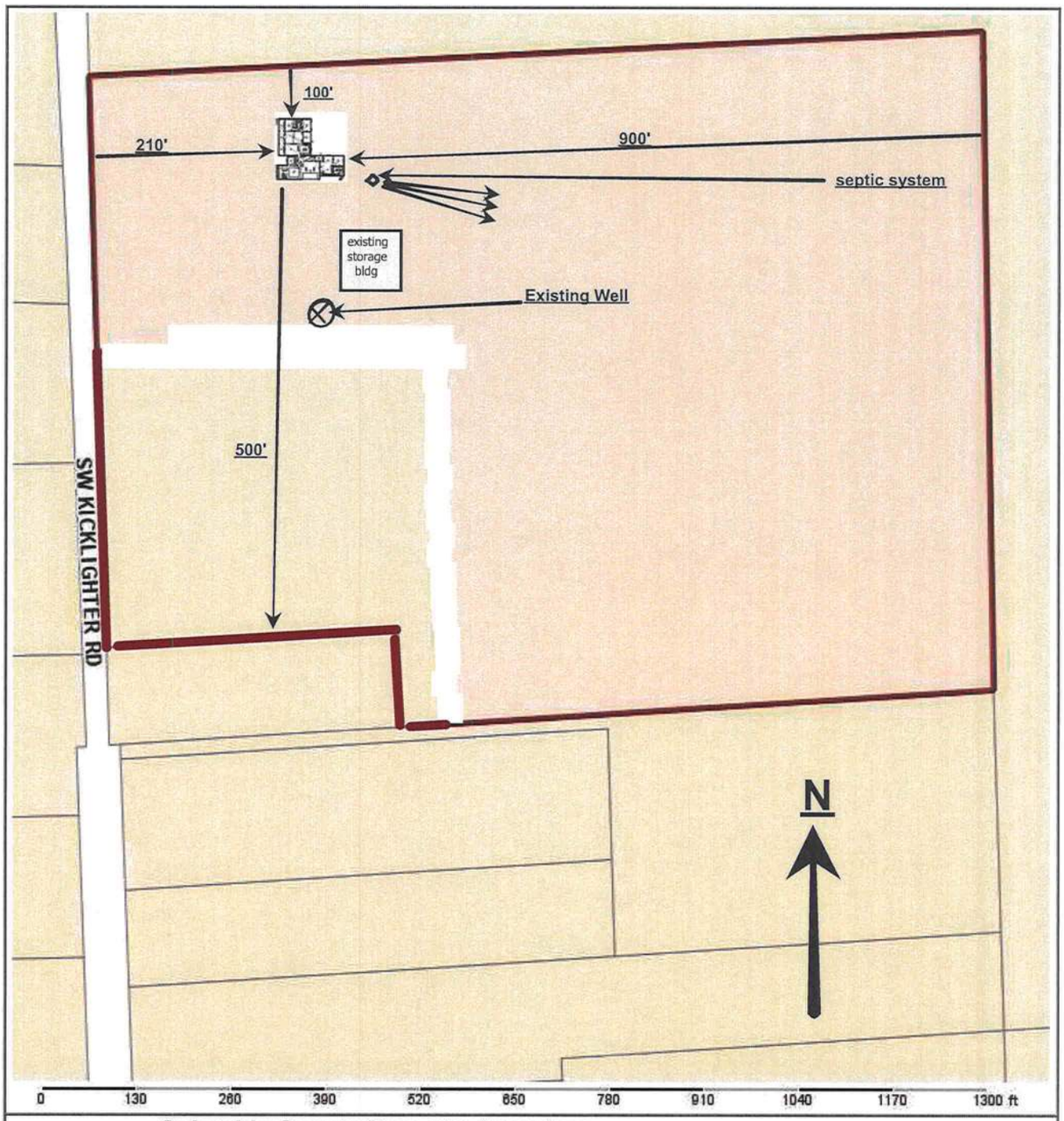
L.S.
EVA MARTINO
Address: ***144 SW HANCOCK CT, LAKE CITY, FL 32024***

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 8th *day of* ***March****,* ***2019****, by* ***JOSEPH MARTINO and EVA MARTINO****, who are known to me or who have produced* **Driver's License** *as identification.*

Notary Public State of Florida
Marla M Landin
My Commission GG 238853
Expires 09/16/2022

Notary Public
My commission expires 9/16/22



Columbia County Property Appraiser

Jeff Hampton | Lake City, Florida | 386-758-1083

PARCEL: 13-4S-16-02953-001 | IMP AG/BAR (005020) | 18.86 AC

COMM NE COR OF N1/2 OF SW1/4 OF SW1/4, W 632.77 FT FOR POB, CONT W 588.20 FT, S 373.47 FT, E 588.76 FT, N 368.58 FT TO POB & BEG NE COR OF N1/2 OF SW1

Owner: MARTINO EVA & JOSEPH
144 SW HANCOCK CT
LAKE CITY, FL 32024

Site: 331 KICKLIGHTER TER,

Sales Info

3/8/2019	$100	V (U)
3/8/2019	$100	V (U)
2/14/2019	$0	V (U)

2018 Certified Values

Mkt Lnd	$11,242	Appraised	$18,285
Ag Lnd	$4,250	Assessed	$18,285
Bldg	$0	Exempt	$0
XFOB	$2,793		county:$17,764
Just	$92,737	Total Taxable	city:$17,764
			other:$17,764
			school:$18,285

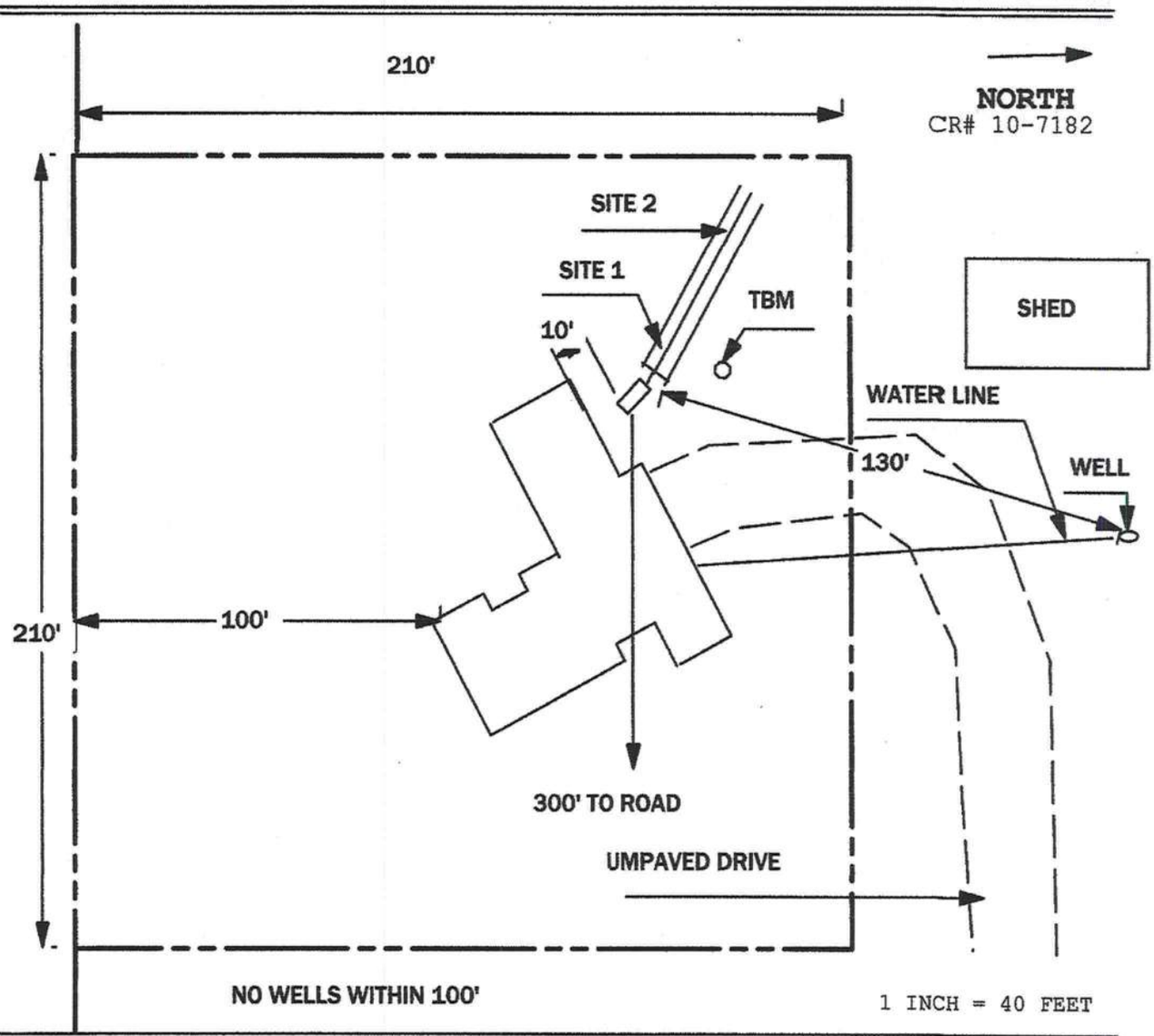
NOTES:

Columbia County, FL

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

Permit Application Number: 19-0383

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd Date 5/2/19

Plan Approved X Not Approved ___ Date 5/9/19

By ESH Columbia CPHU

Notes: ___

CR # 10-7182

PERMIT NO. 19-3383
DATE PAID: 5/8/19
FEE PAID: 310.00
RECEIPT #: 1472945

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

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

APPLICANT: JOSEPH & EVA MARTINO

AGENT: BLAKE CONSTRUCTION COMPANY TELEPHONE: (386) 754-5810

MAILING ADDRESS: 618 SW FLORIDA GATEWAY DRIVE LAKE CITY FL 32024

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

PROPERTY INFORMATION

LOT: N/A BLOCK: N/A SUBDIVISION: METES AND BOUNDS PLATTED: _____

PROPERTY ID #: 13-4S-16-02953-001 ZONING: RES I/M OR EQUIVALENT: [NO]

PROPERTY SIZE: 18.860 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

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

PROPERTY ADDRESS: 331 KICKLIGHTER TERRACE

DIRECTIONS TO PROPERTY: TAKE 90 WEST, TURN LEFT ONTO SISTER'S WELCOME ROAD, TURN LEFT ON KICKLIGHTER TERRACE, SITE IS ON THE LEFT JUST PAST THE WATER PLANT.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	HOUSE	4	2,597	
2				
3				
4				

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

SIGNATURE: _____ DATE: 5-6-19

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

Legend

2018Aerials

Parcels

Subdivisions

default{WFS: http://geo.columbiacountyfla.com:8080/geoserver/ows 1.0.0 Addressing:Subdivisions}

DEFAULT

[1.00 - 100.55[

[100.55 - 200.09[

[200.09 - 299.64[

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[797.36 - 896.91[

[896.91 - 996.45[

[996.45 - 1096.00]

missing data

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

Contours

default{Contours.shp}

DEFAULT

DevZones1

others

A-1

A-2

A-3

CG

CHI

CI

CN

CSV

ESA-2

I

ILW

MUD-I

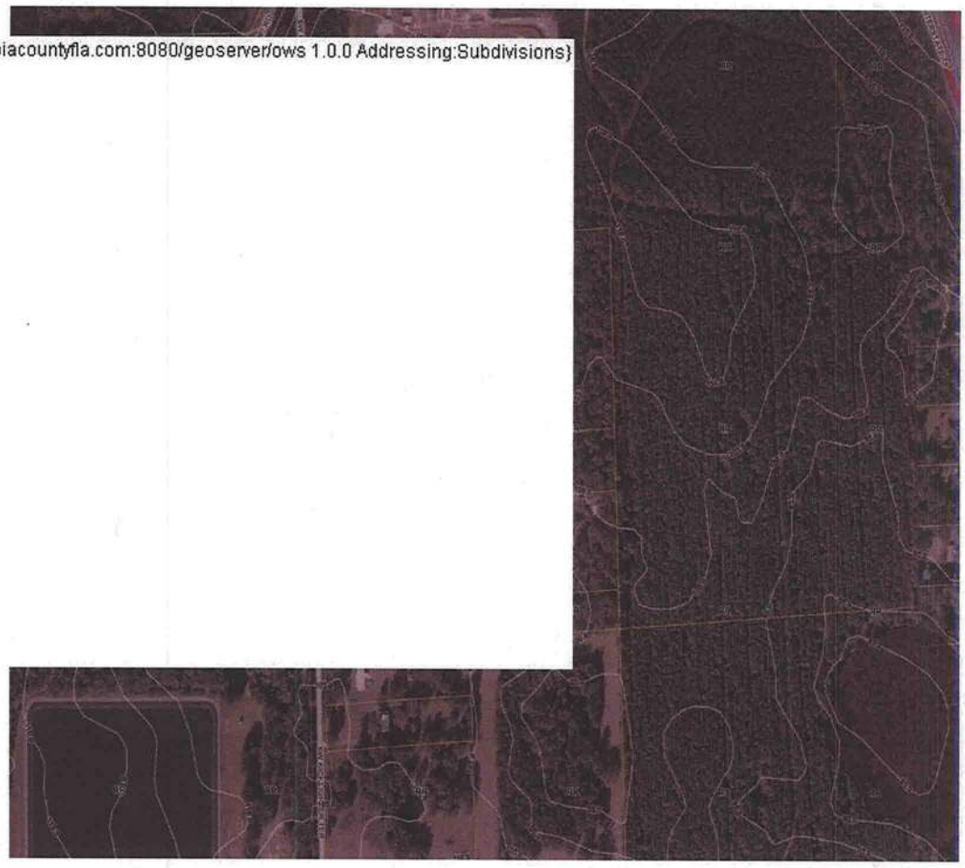
PRD

PRRD

RMF-1

Columbia County, FLA - Building & Zoning Property Map

Printed: Fri May 31 2019 07:15:08 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 13-4S-16-02953-001

Owner: BRYANT J W

Subdivision:

Lot:

Acres: 18.72025

Deed Acres: 18.46 Ac

District: District 3 Bucky Nash

Future Land Uses: Residential - Very Low

Flood Zones:

Official Zoning Atlas: RR

This Document Prepared By:
Name: Amy Ratliff
Title: Closer
First Federal Bank
4705 US Hwy 90 West
Lake City, FL 32055

Inst: 201912012114 Date: 05/29/2019 Time: 10:33AM
Page 1 of 3 B: 1385 P: 1053, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF **COLUMBIA**

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

1. Description of Property: **See Exhibit A**

2. General Description of Improvement: **Construction of Residential Single Family Home**

3. Owner Information:
   Name and Address: **Joseph L Martino, Eva M Martino**
   144 SW Hancock Ct, Lake City, FL 32024
   Interest in property: [X] Fee Simple
   Name and address of fee simple title holder (if other than Owner): [ ]

4. Contractor (name and address): **Blake Construction Company of North Florida, Inc.**
   618 SW Florida Gateway Dr, Lake City, Fl 32055

5. Surety:

6. Lender **First Federal Bank**
   4705 US Hwy 90 West
   Lake City, FL 32055
   (877) 499-0572

7. Persons 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: [ ]

8. In addition to himself, Owner designates **First Federal Bank**, 4705 West Hwy 90/P.O. Box 2029, Lake City Florida 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statues.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY, A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OF RECORDING YOUR NOTICE OF COMMENCEMENT.

Borrower - **Joseph L Martino** (Seal)

Borrower - **Eva M Martino** (Seal)

State of Florida

County of Columbia

The foregoing instrument was acknowledged before me this 28 day of May, 2019 by Joseph L. Martino and Eva M. Martino,

who is personally known to me or who has produced DL as identification.

Brandi Lynn Lee
NOTARY PUBLIC
STATE OF FLORIDA
Comm# GG052483
Expires 12/5/2020

(Signature of person taking acknowledgment)

(Name typed printed or stamped)

(Title or Rank)

(Serial Number if any)

My Commission expires : _____

Verification Pursuant to Section 92.525, Florida Statutes

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

Borrower - **Joseph L Martino** 5/28/19 Date

Borrower - **Eva M Martino** 5/28/19 Date

ATT: 8926

Exhibit "A"

COMMENCE AT THE NE CORNER OF THE N 1/2 OF THE SW 1/4 OF THE SW 1/4 OF SECTION 13, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN S 87°40'18" W, 632.77 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S 87°40'18" W, 588.20 FEET; THENCE S 02°23'05" E., 373.47 FEET; THENCE N 87°11'45" E, 588.76 FEET; THENCE N 02°28'11" W, 368.58 FEET TO THE POINT OF BEGINNING.

ALSO LESS AND EXCEPT ANY PORTION LYING WITHIN A ROAD RIGHT OF WAY.

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By: Bonnie Dow
Deputy Clerk
Date: May 29, 2019

Residential System Sizing Calculation

Summary

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title:
190343 Martino

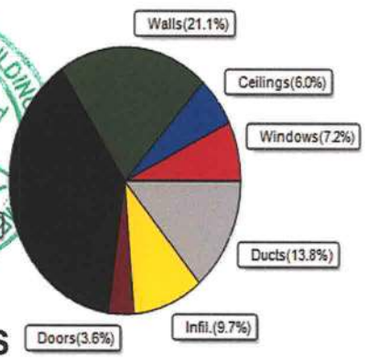
2019-05-15

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	**44601**	**Btuh**	**Total cooling load calculation**	**33968**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.8	53000	Sensible (SHR = 0.75)	140.3	39750
Heat Pump + Auxiliary(0.0kW)	118.8	53000	Latent	234.7	13250
			Total (Electric Heat Pump)	156.0	53000

WINTER CALCULATIONS

Winter Heating Load (for 2597 sqft)

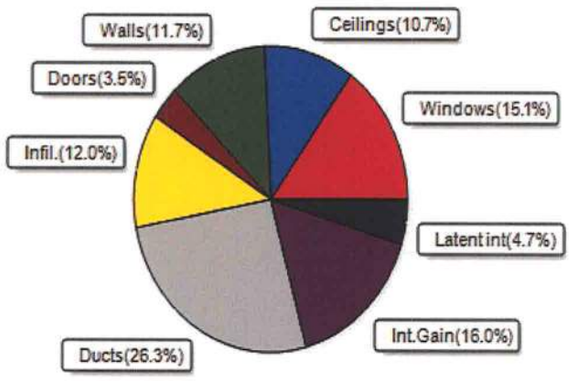
Load component			Load	
Window total	268	sqft	3220	Btuh
Wall total	2896	sqft	9424	Btuh
Door total	100	sqft	1600	Btuh
Ceiling total	2655	sqft	2695	Btuh
Floor total	See detail report		17181	Btuh
Infiltration	98	cfm	4309	Btuh
Duct loss			6171	Btuh
Subtotal			**44601**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**44601**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2597 sqft)

Load component			Load	
Window total	268	sqft	5126	Btuh
Wall total	2896	sqft	3958	Btuh
Door total	100	sqft	1200	Btuh
Ceiling total	2655	sqft	3639	Btuh
Floor total			0	Btuh
Infiltration	74	cfm	1535	Btuh
Internal gain			5440	Btuh
Duct gain			7425	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**28322**	**Btuh**
Latent gain(ducts)			1499	Btuh
Latent gain(infiltration)			2547	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**5646**	**Btuh**
TOTAL HEAT GAIN			**33968**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: Evan Beamsley
DATE: 2019-05-15

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title:
190343 Martino
Building Type: User

2019-05-15

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)
This calculation is for Worst Case. The house has been rotated 225 degrees.

Component Loads for Room #1: Main

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Metal	0.30	SW	30.0	12.0	360 Btuh
2	2, NFRC 0.20	Metal	0.30	SW	26.7	12.0	320 Btuh
3	2, NFRC 0.20	Metal	0.30	SW	9.0	12.0	108 Btuh
4	2, NFRC 0.20	Metal	0.30	NW	30.0	12.0	360 Btuh
5	2, NFRC 0.20	Metal	0.30	NW	10.0	12.0	120 Btuh
6	2, NFRC 0.20	Metal	0.30	SE	10.0	12.0	120 Btuh
7	2, NFRC 0.20	Metal	0.30	NE	15.0	12.0	180 Btuh
8	2, NFRC 0.20	Metal	0.30	NE	60.0	12.0	720 Btuh
9	2, NFRC 0.20	Metal	0.30	NE	13.3	12.0	160 Btuh
10	2, NFRC 0.20	Metal	0.30	SE	3.0	12.0	36 Btuh
	Window Total				207.0(sqft)		2484 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Face Br - Wood	- Ext	(0.080)	13.0/0.0	101	3.19	321 Btuh
2	Face Br - Wood	- Ext	(0.080)	13.0/0.0	90	3.19	287 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	86	3.55	305 Btuh
4	Face Br - Wood	- Ext	(0.080)	13.0/0.0	90	3.19	287 Btuh
5	Face Br - Wood	- Ext	(0.080)	13.0/0.0	117	3.19	373 Btuh
6	Face Br - Wood	- Ext	(0.080)	13.0/0.0	41	3.19	129 Btuh
7	Face Br - Wood	- Ext	(0.080)	13.0/0.0	40	3.19	128 Btuh
8	Frame - Wood	- Adj	(0.089)	13.0/0.0	127	3.55	451 Btuh
9	Frame - Wood	- Adj	(0.089)	13.0/0.0	189	3.55	671 Btuh
10	Face Br - Wood	- Ext	(0.080)	13.0/0.0	218	3.19	695 Btuh
11	Face Br - Wood	- Ext	(0.080)	13.0/0.0	144	3.19	459 Btuh
12	Face Br - Wood	- Ext	(0.080)	13.0/0.0	103	3.19	327 Btuh
13	Face Br - Wood	- Ext	(0.080)	13.0/0.0	90	3.19	287 Btuh
14	Face Br - Wood	- Ext	(0.080)	13.0/0.0	32	3.19	100 Btuh
15	Face Br - Wood	- Ext	(0.080)	13.0/0.0	292	3.19	932 Btuh
16	Face Br - Wood	- Ext	(0.080)	13.0/0.0	281	3.19	895 Btuh
	Wall Total				2039(sqft)		6648 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)	13	16.0	213 Btuh
2	Insulated - Exterior,	n	(0.400)	20	16.0	320 Btuh
3	Insulated - Garage,	n	(0.400)	20	16.0	320 Btuh
4	Insulated - Exterior,	n	(0.400)	20	16.0	320 Btuh
	Door Total			73(sqft)		1173Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Metal	(0.025)	38.0/0.0	2013	1.0	2044 Btuh
	Ceiling Total			2013(sqft)		2044Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	258.0 ft(perim.)	47.2	12178 Btuh
	Floor Total			1955 sqft		12178 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title:
190343 Martino
Building Type: User

2019-05-15

	Room Envelope Subtotal:	24527 Btuh
Infiltration	Type Wholehouse ACH Room Volume Wall Ratio CFM= Natural 0.25 17595 0.70 69.3	3034 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) DIM OF 0.161	4426 Btuh
Room #1	**Sensible Room Subtotal**	**31986 Btuh**

Component Loads for Room #2: InLaw Suite

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
11	2, NFRC 0.20	Metal	0.30	SW	15.0	12.0	180 Btuh
12	2, NFRC 0.20	Metal	0.30	SW	3.0	12.0	36 Btuh
13	2, NFRC 0.20	Metal	0.30	NW	6.0	12.0	72 Btuh
14	2, NFRC 0.20	Metal	0.30	NW	9.0	12.0	108 Btuh
15	2, NFRC 0.20	Metal	0.30	SE	6.7	12.0	80 Btuh
16	2, NFRC 0.20	Metal	0.30	SE	6.7	12.0	80 Btuh
17	2, NFRC 0.20	Metal	0.30	SE	15.0	12.0	180 Btuh
	Window Total				61.3(sqft)		736 Btuh
Walls	Type	Ornt	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
17	Face Br - Wood – Ext		(0.080)	13.0/0.0	198	3.19	632 Btuh
18	Face Br - Wood – Ext		(0.080)	13.0/0.0	204	3.19	651 Btuh
19	Face Br - Wood - Ext		(0.080)	13.0/0.0	36	3.19	115 Btuh
20	Face Br - Wood – Ext		(0.080)	13.0/0.0	19	3.19	61 Btuh
21	Frame - Wood - Adj		(0.089)	13.0/0.0	117	3.55	415 Btuh
22	Face Br - Wood - Ext		(0.080)	13.0/0.0	19	3.19	61 Btuh
23	Face Br - Wood – Ext		(0.080)	13.0/0.0	60	3.19	191 Btuh
24	Face Br - Wood - Ext		(0.080)	13.0/0.0	204	3.19	651 Btuh
	Wall Total				857(sqft)		2776 Btuh
Doors	Te	Storm	Ueff.		Area X	HTM=	Load
5	Insulated - Exterior, n		(0.400)		13	16.0	213 Btuh
6	Insulated - Exterior, n		(0.400)		13	16.0	213 Btuh
	Door Total				27(sqft)		427Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
2	Vented Attic/D/Metal		(0.025)	38.0/0.0	642	1.0	652 Btuh
	Ceiling Total				642(sqft)		652Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
2	Slab On Grade		(1.180)	0.0	106.0 ft(perim.)	47.2	5003 Btuh
	Floor Total				642 sqft		5003 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title:
190343 Martino
Building Type: User

2019-05-15

				Room Envelope Subtotal:			9594 Btuh
Infiltration	Type Natural	Wholehouse	ACH 0.25	Room Volume 5778	Wall Ratio 0.30	CFM= 29.1	1275 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DLM of 0.161)		1745 Btuh
Room #2	**Sensible Room Subtotal**						**12614 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	44601 Btuh 0 Btuh 44601 Btuh

EQUIPMENT

1. Electric Heat Pump	#	53000 Btuh

Key: Window types - NFRC (requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)

or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)

Version 8

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title:
190343 Martino

2019-05-15

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.
This calculation is for Worst Case. The house has been rotated 225 degrees.

Component Loads for Room #1: Main

Window	Type* Panes	SHGC	U	InSh	IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2 NFRC	0.20, 0.30	No	No	SW		1.5ft.	1.5ft.	30.0	5.8	24.2	10	20	542 Btuh
2	2 NFRC	0.20, 0.30	No	No	SW		11.5f	1.0ft.	26.7	26.7	0.0	10	20	264 Btuh
3	2 NFRC	0.20, 0.30	No	No	SW		1.5ft.	1.5ft.	9.0	2.9	6.1	10	20	151 Btuh
4	2 NFRC	0.20, 0.30	No	No	NW		1.5ft.	1.5ft.	30.0	0.0	30.0	10	19	574 Btuh
5	2 NFRC	0.20, 0.30	No	No	NW		1.5ft.	1.5ft.	10.0	0.0	10.0	10	19	191 Btuh
6	2 NFRC	0.20, 0.30	No	No	SE		1.5ft.	1.5ft.	10.0	1.9	8.1	10	20	181 Btuh
7	2 NFRC	0.20, 0.30	No	No	NE		1.5ft.	1.5ft.	15.0	0.0	15.0	10	19	287 Btuh
8	2 NFRC	0.20, 0.30	No	No	NE		8.5ft.	1.0ft.	60.0	0.0	60.0	10	19	1148 Btuh
9	2 NFRC	0.20, 0.30	No	No	NE		8.5ft.	1.0ft.	13.3	0.0	13.3	10	19	255 Btuh
10	2 NFRC	0.20, 0.30	No	No	SE		1.5ft.	6.0ft.	3.0	0.0	3.0	10	20	60 Btuh
	Window Total								207 (sqft)					3654 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Face Brick - Wood - Ext	0.08	13.0/0.0	100.5	1.3	128 Btuh
2	Face Brick - Wood - Ext	0.08	13.0/0.0	90.0	1.3	115 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	86.0	2.3	195 Btuh
4	Face Brick - Wood - Ext	0.08	13.0/0.0	90.0	1.3	115 Btuh
5	Face Brick - Wood - Ext	0.08	13.0/0.0	117.0	1.3	149 Btuh
6	Face Brick - Wood - Ext	0.08	13.0/0.0	40.5	1.3	52 Btuh
7	Face Brick - Wood - Ext	0.08	13.0/0.0	40.0	1.3	51 Btuh
8	Frame - Wood - Adj	0.09	13.0/0.0	127.0	1.7	214 Btuh
9	Frame - Wood - Adj	0.09	13.0/0.0	189.0	1.7	319 Btuh
10	Face Brick - Wood - Ext	0.08	13.0/0.0	218.0	1.3	278 Btuh
11	Face Brick - Wood - Ext	0.08	13.0/0.0	144.0	1.3	184 Btuh
12	Face Brick - Wood - Ext	0.08	13.0/0.0	102.5	1.3	131 Btuh
13	Face Brick - Wood - Ext	0.08	13.0/0.0	90.0	1.3	115 Btuh
14	Face Brick - Wood - Ext	0.08	13.0/0.0	31.5	1.3	40 Btuh
15	Face Brick - Wood - Ext	0.08	13.0/0.0	292.2	1.3	373 Btuh
16	Face Brick - Wood - Ext	0.08	13.0/0.0	280.5	1.3	358 Btuh
	Wall Total			2039 (sqft)		2816 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	13.3	12.0	160 Btuh
2	Insulated - Exterior	20.0	12.0	240 Btuh
3	Insulated - Garage	20.0	12.0	240 Btuh
4	Insulated - Exterior	20.0	12.0	240 Btuh
	Door Total	73 (sqft)		880 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkMetal	0.025	38.0/0.0	2013.0	1.37	2759 Btuh
	Ceiling Total			2013 (sqft)		2759 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	1955 (ft-perimeter)	0.0	0 Btuh
	Floor Total		1955.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	10109 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title: 190343 Martino

Climate:FL_GAINESVILLE_REGIONAL_A

2019-05-15

Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.19	17595	0.70	52.0	1081 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	2400	3780 Btuh
				Sensible Envelope Load:		14970 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.355)	5319 Btuh
					Sensible Zone Load	**20289 Btuh**

Component Loads for Room #2: InLaw Suite

Window	Type*					Overhang		Window Area(sqft)			HTM		Load
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
11	2 NFRC	0.20, 0.30		No	No	SW	1.5ft.	1.5ft.	15.0	2.9	12.1	10	20	271 Btuh
12	2 NFRC	0.20, 0.30		No	No	SW	1.5ft.	1.5ft.		2.9	0.1	10	20	31 Btuh
13	2 NFRC	0.20, 0.30		No	No	NW	1.5ft.	1.5ft.	6.0	0.0	6.0	10	19	115 Btuh
14	2 NFRC	0.20, 0.30		No	No	NW	1.5ft.	1.5ft.	9.0	0.0	9.0	10	19	172 Btuh
15	2 NFRC	0.20, 0.30		No	No	SE	5.8ft.	1.0ft.	6.7	6.7	0.0	10	20	66 Btuh
16	2 NFRC	0.20, 0.30		No	No	SE	8.2ft.	1.0ft.	6.7	6.7	0.0	10	20	66 Btuh
17	2 NFRC	0.20, 0.30		No	No	SE	1.5ft.	1.5ft.	15.0	2.9	12.1	10	20	271 Btuh
	Window Total								61 (sqft)					992 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
17	Face Brick - Wood - Ext	0.08	13.0/0.0	198.0	1.3	253 Btuh
18	Face Brick - Wood - Ext	0.08	13.0/0.0	204.0	1.3	260 Btuh
19	Face Brick - Wood - Ext	0.08	13.0/0.0	36.0	1.3	46 Btuh
20	Face Brick - Wood - Ext	0.08	13.0/0.0	19.0	1.3	24 Btuh
21	Frame - Wood - Adj Face	0.09	13.0/0.0	117.0	1.7	197 Btuh
22	Brick - Wood - Ext Face	0.08	13.0/0.0	19.0	1.3	24 Btuh
23	Brick - Wood - Ext Face	0.08	13.0/0.0	60.0	1.3	77 Btuh
24	Brick - Wood - Ext Face	0.08	13.0/0.0	204.0	1.3	260 Btuh
	Wall Total			857 (sqft)		1142 Btuh

Doors	Type	Area (sqft)	HTM	Load
5	Insulated - Exterior	13.3	12.0	160 Btuh
6	Insulated - Exterior	13.3	12.0	160 Btuh
	Door Total	27 (sqft)		320 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
2	Vented Attic/DarkMetal	0.025	38.0/0.0	642.0	1.37	880 Btuh
	Ceiling Total			642 (sqft)		880 Btuh

Floors	Type	R-Value	Size	HTM	Load
2	Slab On Grade	0.0	642 (ft-perimeter)	0.0	0 Btuh
	Floor Total		642.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		3333 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title:
190343 Martino

Climate:FL_GAINESVILLE_REGIONAL_A

2019-05-15

Infiltration	Type Natural	Wholehouse ACH 0.19	Volume(cuft) 5778	Wall Ratio 0.30		CFM= 21.8	Load 454	Btuh
Internal gain		Occupants 2	Btuh/occupant X 230		+	Appliance 1200	Load 1660	Btuh
					Sensible Envelope Load:		5448	Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.355)		1936	Btuh
					Sensible Zone Load		**7383**	**Btuh**

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

Windows	July excursion for System 1		480 Btuh
		Excursion Subtotal:	480 Btuh
Duct load			170 Btuh
		Sensible Excursion Load	**650 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Joe & Eva Martino
331 Kicklighter Terr
Lake City, FL

Project Title: 190343 Martino

Climate:FL_GAINESVILLE_REGIONAL_A

2019-05-15

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**20897 Btuh**
	Sensible Duct Load	7425 Btuh
	Total Sensible Zone Loads	**28322 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total Sensible gain	**28322 Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	2547 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1499 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5646 Btuh**
	TOTAL GAIN	**33968 Btuh**

EQUIPMENT

1. Central Unit	#	53000 Btuh

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

Version 8

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

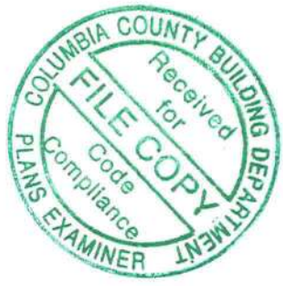
Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method

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

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

Required prior to CO for the Performance Method:

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



FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	190343 Martino	Builder Name:	
Street:	331 Kicklighter Terr	Permit Office:	
City, State, Zip:	Lake City , FL ,	Permit Number:	
Owner:	Joe & Eva Martino	Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft²)	2597
Conditioned floor area below grade (ft²)	0

7. Windows(268.3 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.30	268.33 ft²
SHGC:	SHGC=0.20	
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:		4.680 ft.
Area Weighted Average SHGC:		0.200

8. Floor Types (2597.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2597.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (3264.0 sqft.)	Insulation	Area
a. Face Brick - Wood, Exterior	R=13.0	2685.00 ft²
b. Frame - Wood, Adjacent	R=13.0	453.00 ft²
c. Frame - Wood, Exterior	R=13.0	126.00 ft²
d. N/A	R=	ft²

10. Ceiling Types (2655.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	2655.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	519.4

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	53.0	SEER:15.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	53.0	HSPF:8.50

14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.950
b. Conservation features	
None	
15. Credits	Pstat

Glass/Floor Area: 0.103

Total Proposed Modified Loads: 69.41

Total Baseline Loads: 72.44

PASS

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

PREPARED BY: Evan Beamsley
DATE: 2019-05-15

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

OWNER/AGENT:
DATE: 5-16-19

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

BUILDING OFFICIAL:
DATE:

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

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	190343 Martino	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2597	Lot #	
Owner Name:	Joe & Eva Martino	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:		Rotate Angle:	135	Street:	331 Kicklighter Terr
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Block1	2597	23373

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1955	17595	Yes	6	3	1	Yes	Yes	Yes
2	InLaw Suite	642	5778	Yes	2	1	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	258 ft	0	1955 ft²	-----	0.3	0.3	0.4
_____	2	Slab-On-Grade Edge Insulatio	InLaw Suite	106 ft	0	642 ft²	-----	0.3	0.3	0.4

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Metal	2904 ft²	0 ft²	Dark	N	0.9	No	0.9	No	0	26.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2597 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	2013 ft²	0	Wood
_____	2	Under Attic (Vented)	InLaw Suite	38	Blown	642 ft²	0	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
____	1	N=>SE	Exterior	Face Brick - Wood	Main	13	14	6	9		130.5 ft²		0.23	0.75	0
____	2	E=>SW	Exterior	Face Brick - Wood	Main	13	10		9		90.0 ft²		0.23	0.75	0
____	3	N=>SE	Exterior	Frame - Wood	Main	13	14	0	9		126.0 ft²		0.23	0.75	0
____	4	W=>NE	Exterior	Face Brick - Wood	Main	13	10		9		90.0 ft²		0.23	0.75	0
____	5	N=>SE	Exterior	Face Brick - Wood	Main	13	14	0	9		126.0 ft²		0.23	0.75	0
____	6	W=>NE	Exterior	Face Brick - Wood	Main	13	4	6	9		40.5 ft²		0.23	0.75	0
____	7	N=>SE	Exterior	Face Brick - Wood	Main	13	6	8	9		60.0 ft²		0.23	0.75	0
____	8	E=>SW	Garage	Frame - Wood	Main	13	16	4	9		147.0 ft²		0.23	0.75	0
____	9	N=>SE	Garage	Frame - Wood	Main	13	21	0	9		189.0 ft²		0.23	0.75	0
____	10	E=>SW	Exterior	Face Brick - Wood	Main	13	28	8	9		258.0 ft²		0.23	0.75	0
____	11	S=>NW	Exterior	Face Brick - Wood	Main	13	16	0	9		144.0 ft²		0.23	0.75	0
____	12	W=>NE	Exterior	Face Brick - Wood	Main	13	12	6	9		112.5 ft²		0.23	0.75	0
____	13	S=>NW	Exterior	Face Brick - Wood	Main	13	11	8	9		105.0 ft²		0.23	0.75	0
____	14	E=>SW	Exterior	Face Brick - Wood	Main	13	3	6	9		31.5 ft²		0.23	0.75	0
____	15	S=>NW	Exterior	Face Brick - Wood	Main	13	42	10	9		385.5 ft²		0.23	0.75	0
____	16	W=>NE	Exterior	Face Brick - Wood	Main	13	31	6	9		283.5 ft²		0.23	0.75	0
____	17	N=>SE	Exterior	Face Brick - Wood	InLaw Suite	13	24	0	9	0	216.0 ft²		0.23	0.75	0
____	18	E=>SW	Exterior	Face Brick - Wood	InLaw Suite	13	24	4	9		219.0 ft²		0.23	0.75	0
____	19	S=>NW	Exterior	Face Brick - Wood	InLaw Suite	13	4	0	9		36.0 ft²		0.23	0.75	0
____	20	W=>NE	Exterior	Face Brick - Wood	InLaw Suite	13	4	4	9		39.0 ft²	0	0.23	0.75	0
____	21	S=>NW	Garage	Frame - Wood	InLaw Suite	13	13		9		117.0 ft²		0.23	0.75	0
____	22	W=>NE	Exterior	Face Brick - Wood	InLaw Suite	13	4	4	9		39.0 ft²		0.23	0.75	0
____	23	S=>NW	Exterior	Face Brick - Wood	InLaw Suite	13	6	8	9		60.0 ft²		0.23	0.75	0
____	24	W=>NE	Exterior	Face Brick - Wood	InLaw Suite	13	24	4	9		219.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	N=>SE	Insulated	Main	None	.4	2		6	8	13.3 ft²
_____	2	N=>SE	Insulated	Main	None	.4	3		6	8	20 ft²
_____	3	E=>SW	Insulated	Main	None	.4	3		6	8	20 ft²
_____	4	S=>NW	Insulated	Main	None	.4	3		6	8	20 ft²
_____	5	W=>NE	Insulated	InLaw Suite	None	.4	2		6	8	13.3 ft²
_____	6	W=>NE	Insulated	InLaw Suite	None	.4	2		6	8	13.3 ft²

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N=>SE	1	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	2	N=>SE	3	Metal	Low-E Double	Yes	0.3	0.2	N	26.7 ft²	11 ft 6 in	1 ft 0 in	None	None
_____	3	N=>SE	5	Metal	Low-E Double	Yes	0.3	0.2	N	9.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	4	E=>SW	10	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	5	E=>SW	10	Metal	Low-E Double	Yes	0.3	0.2	N	10.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	6	W=>NE	12	Metal	Low-E Double	Yes	0.3	0.2	N	10.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	7	S=>NW	13	Metal	Low-E Double	Yes	0.3	0.2	N	15.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	8	S=>NW	15	Metal	Low-E Double	Yes	0.3	0.2	N	60.0 ft²	8 ft 6 in	1 ft 0 in	None	None
_____	9	S=>NW	15	Metal	Low-E Double	Yes	0.3	0.2	N	13.3 ft²	8 ft 6 in	1 ft 0 in	None	None
_____	10	W=>NE	16	Metal	Low-E Double	Yes	0.3	0.2	N	3.0 ft²	1 ft 6 in	6 ft 0 in	None	None
_____	11	N=>SE	17	Metal	Low-E Double	Yes	0.3	0.2	N	15.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	12	N=>SE	17	Metal	Low-E Double	Yes	0.3	0.2	N	3.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	13	E=>SW	18	Metal	Low-E Double	Yes	0.3	0.2	N	6.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	14	E=>SW	18	Metal	Low-E Double	Yes	0.3	0.2	N	9.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	15	W=>NE	20	Metal	Low-E Double	Yes	0.3	0.2	N	6.7 ft²	5 ft 10 in	1 ft 0 in	None	None
_____	16	W=>NE	22	Metal	Low-E Double	Yes	0.3	0.2	N	6.7 ft²	7 ft 14 in	1 ft 0 in	None	None
_____	17	W=>NE	24	Metal	Low-E Double	Yes	0.3	0.2	N	15.0 ft²	1 ft 6 in	1 ft 6 in	None	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	483.018 ft²	483.018 ft²	30.3 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.0004	2726.9	149.7	281.53	.1579	7

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	HSPF:8.5	53 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	SEER: 15	53 kBtu/hr	1590 cfm	0.75	1	sys#1

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Garage	0.95	50 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Attic	6	519.4 ft	Attic	129.85	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

Thermostat Schedule: HERS 2006 Reference

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

MASS

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

1. New home or, addition	1. New (From Plans)
2. Single-family or multiple-family	2. Single-family
3. No. of units (if multiple-family)	3. 1
4. Number of bedrooms	4. 4
5. Is this a worst case? (yes/no)	5. Yes
6. Conditioned floor area (sq. ft.)	6. 2597
7. Windows, type and area	
a) U-factor:(weighted average)	7a. 0.300
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.200
c) Area	7c. 268.3
8. Skylights	
a) U-factor:(weighted average)	8a. NA
b) Solar Heat Gain Coefficient (SHGC)	8b. NA
9. Floor type, insulation level:	
a) Slab-on-grade (R-value)	9a. 0.0
b) Wood, raised (R-value)	9b.
c) Concrete, raised (R-value)	9c.
10. Wall type and insulation:	
A. Exterior:	
1. Wood frame (Insulation R-value)	10A1. 13.0
2. Masonry (Insulation R-value)	10A2.
B. Adjacent:	
1. Wood frame (Insulation R-value)	10B1. 13.0
2. Masonry (Insulation R-value)	10B2.
11. Ceiling type and insulation level	
a) Under attic	11a. 38.0
b) Single assembly	11b.
c) Knee walls/skylight walls	11c.
d) Radiant barrier installed	11d. No

12. Ducts, location & insulation level	
a) Supply ducts	R 6.0
b) Return ducts	R 6.0
c) AHU location	Main
13. Cooling system:	Capacity 53.0
a) Split system	SEER
b) Single package	SEER
c) Ground/water source	SEER/COP
d) Room unit/PTAC	EER
e) Other	15.0
14. Heating system:	Capacity 53.0
a) Split system heat pump	HSPF
b) Single package heat pump	HSPF
c) Electric resistance	COP
d) Gas furnace, natural gas	AFUE
e) Gas furnace, LPG	AFUE
f) Other	8.50
15. Water heating system	
a) Electric resistance	EF 0.95
b) Gas fired, natural gas	EF
c) Gas fired, LPG	EF
d) Solar system with tank	EF
e) Dedicated heat pump with tank	EF
f) Heat recovery unit	HeatRec%
g) Other	
16. HVAC credits claimed (Performance Method)	
a) Ceiling fans	
b) Cross ventilation	No
c) Whole house fan	No
d) Multizone cooling credit	
e) Multizone heating credit	
f) Programmable thermostat	Yes

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

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

Builder Signature: _____ Date: 5-16-19

Address of New Home: 331 Kicklighter Terr City/FL Zip: Lake City, FL

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

ADDRESS:	331 Kicklighter Terr Lake City , FL ,	Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.

√

SECTION R401 GENERAL

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

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

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

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

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

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

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

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

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

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

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

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

Exceptions:

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

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

SECTION R403 SYSTEMS

R403.1 Controls.

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

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

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

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

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

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

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

Exceptions:

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

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

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

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

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

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

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

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

MANDATORY REQUIREMENTS - (Continued)

☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.

R403.5.6 Water heater efficiencies (Mandatory).

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

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

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

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

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

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

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

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

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

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

R403.7 Heating and cooling equipment (Mandatory).

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

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

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

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

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

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

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

Exceptions:

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

R403.7.1.2 Heating equipment capacity.

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

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

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

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

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

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

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

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

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

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

Exceptions:

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

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

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

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

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

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

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

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

Exception: Low-voltage lighting.

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

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

				CHECK
Project Name:	190343 Martino	Builder Name:		
Street:	331 Kicklighter Terr	Permit Office:		
City, State, Zip:	Lake City , FL ,	Permit Number:		
Owner:	Joe & Eva Martino	Jurisdiction:		
Design Location:	FL, Gainesville			

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

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

Envelope Leakage Test Report (Blower Door Test)

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

Jurisdiction:	Permit #:

Job Information

Builder: Community: Lot: NA

Address: 331 Kicklighter Terr

City: Lake City State: FL Zip:

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

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

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

ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 7.000

_____ x 60 ÷ 23373 = _____
CFM(50) Building Volume ACH(50)

☐ **PASS**

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

Method for calculating building volume:

○ Retrieved from architectural plans

● Code software calculated

○ Field measured and calculated

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

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

Testing Company

Company Name: _____ Phone: _____

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

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

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

RE: 1755797 - BLAKE CONST. - MARTINO RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Blake Const. Project Name: Martino Res. Model: Custom
Lot/Block: n/a Subdivision: n.a
Address: 331 Kicklighter Terrace, n/a
City: Columbia Cty 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 37 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	No.	Seal#	Truss Name	Date
1	T17005224	CJ01	5/8/19	18	T17005241	T11	5/8/19
2	T17005225	CJ03	5/8/19	19	T17005242	T12	5/8/19
3	T17005226	CJ05	5/8/19	20	T17005243	T13	5/8/19
4	T17005227	EJ01	5/8/19	21	T17005244	T13G	5/8/19
5	T17005228	EJ02	5/8/19	22	T17005245	T14	5/8/19
6	T17005229	HJ06	5/8/19	23	T17005246	T14G	5/8/19
7	T17005230	HJ10	5/8/19	24	T17005247	T15	5/8/19
8	T17005231	T01	5/8/19	25	T17005248	T16	5/8/19
9	T17005232	T02	5/8/19	26	T17005249	T17	5/8/19
10	T17005233	T03	5/8/19	27	T17005250	T18	5/8/19
11	T17005234	T04	5/8/19	28	T17005251	T19	5/8/19
12	T17005235	T05	5/8/19	29	T17005252	T19G	5/8/19
13	T17005236	T06	5/8/19	30	T17005253	T20	5/8/19
14	T17005237	T07	5/8/19	31	T17005254	T21	5/8/19
15	T17005238	T08	5/8/19	32	T17005255	T22	5/8/19
16	T17005239	T09	5/8/19	33	T17005256	T23	5/8/19
17	T17005240	T10	5/8/19	34	T17005257	T24	5/8/19

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: Finn, Walter
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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	CJ01	Jack-Open	6	1		T17005224
					Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:17 2019 Page 1
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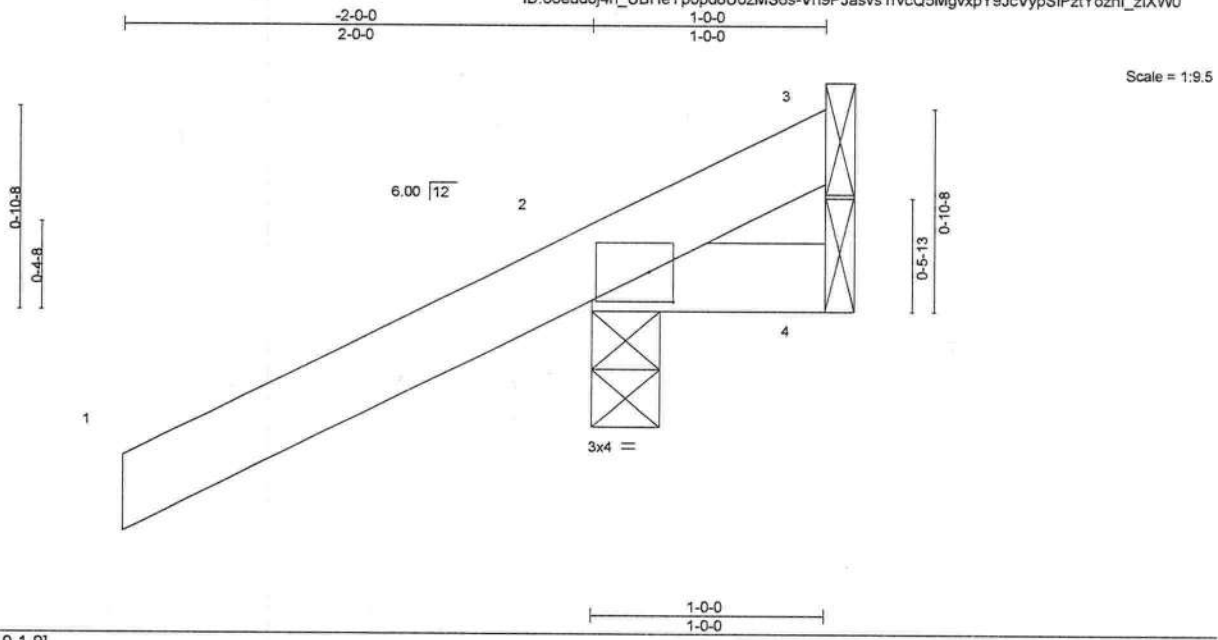

Plate Offsets (X,Y)-- [2:0-1-4,0-1-9]

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)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=-27/Mechanical, 2=254/0-3-8, 4=-46/Mechanical
Max Horz 2=66(LC 12)
Max Uplift 3=-27(LC 1), 2=-162(LC 12), 4=-46(LC 1)
Max Grav 3=25(LC 16), 2=254(LC 1), 4=44(LC 16)

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

NOTES-
1) 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 162 lb uplift at joint 2 and 46 lb uplift at joint 4.

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May 8,2019

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	CJ05	Jack-Open	4	1		T17005226
					Job Reference (optional)	

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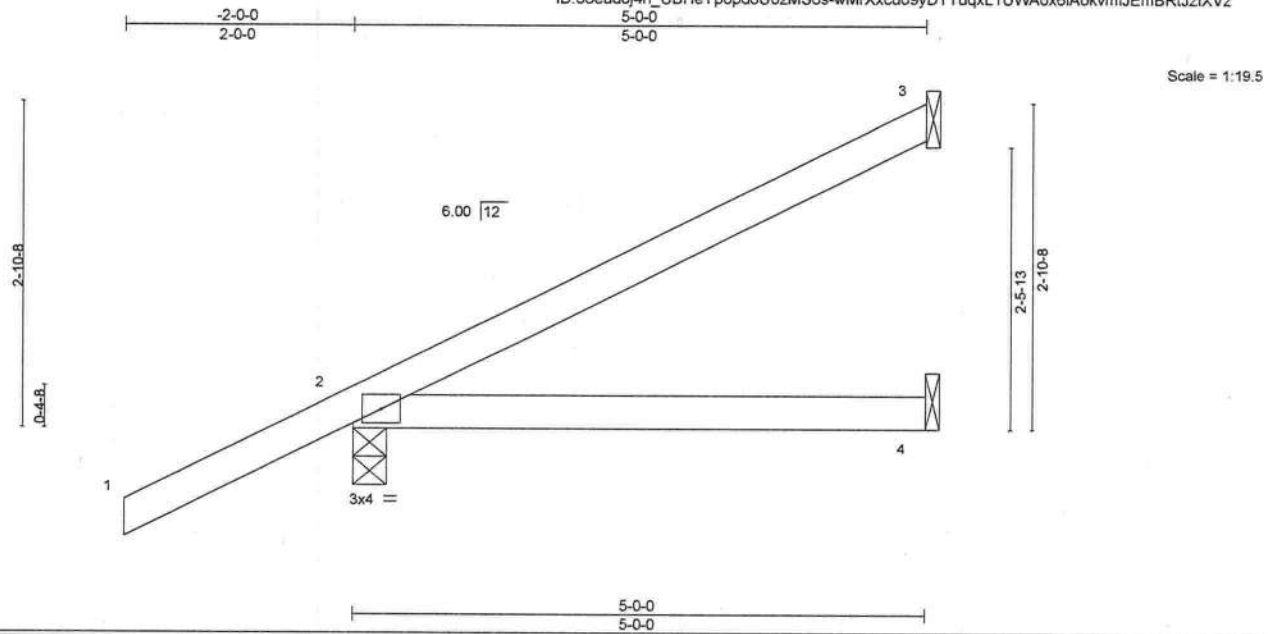

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=108/Mechanical, 2=313/0-3-8, 4=53/Mechanical
Max Horz 2=162(LC 12)
Max Uplift 3=-98(LC 12), 2=-137(LC 12), 4=-1(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES-
1) 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3, 137 lb uplift at joint 2 and 1 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.
1755797	EJ02	Half Hip Girder	1	1	T17005228
					Job Reference (optional)

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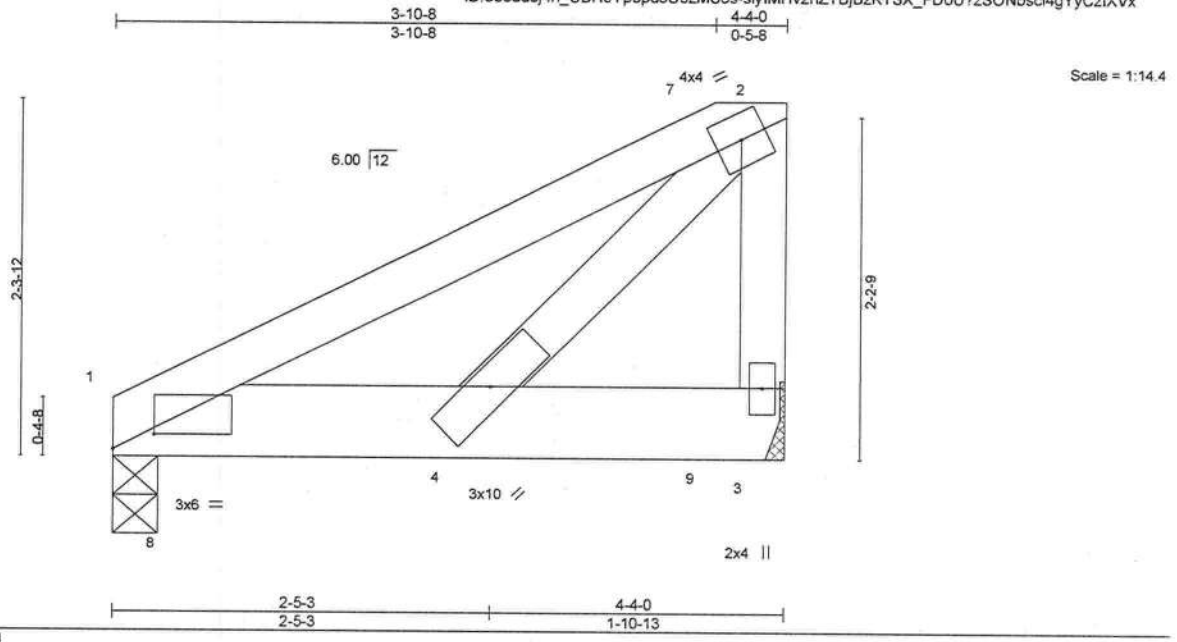

Plate Offsets (X,Y)— [1:0-3-3,0-1-2]

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	0.21	Vert(LL)	-0.01	4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.02	4-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=885/0-3-8, 3=537/Mechanical
Max Horz 1=71(LC 8)
Max Uplift 1=-210(LC 8), 3=-190(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-736/171, 2-3=-472/190
BOT CHORD 1-4=-172/618
WEBS 2-4=-250/899

NOTES-
1) 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); Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 1 and 190 lb uplift at joint 3.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 85 lb up at 3-10-8 on top chord, and 531 lb down and 143 lb up at 0-4-12, and 525 lb down and 149 lb up at 2-4-12, and 93 lb down and 18 lb up at 3-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 4=-525(F) 7=-46(B) 8=-531(F) 9=-10(B)

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)	T17005230

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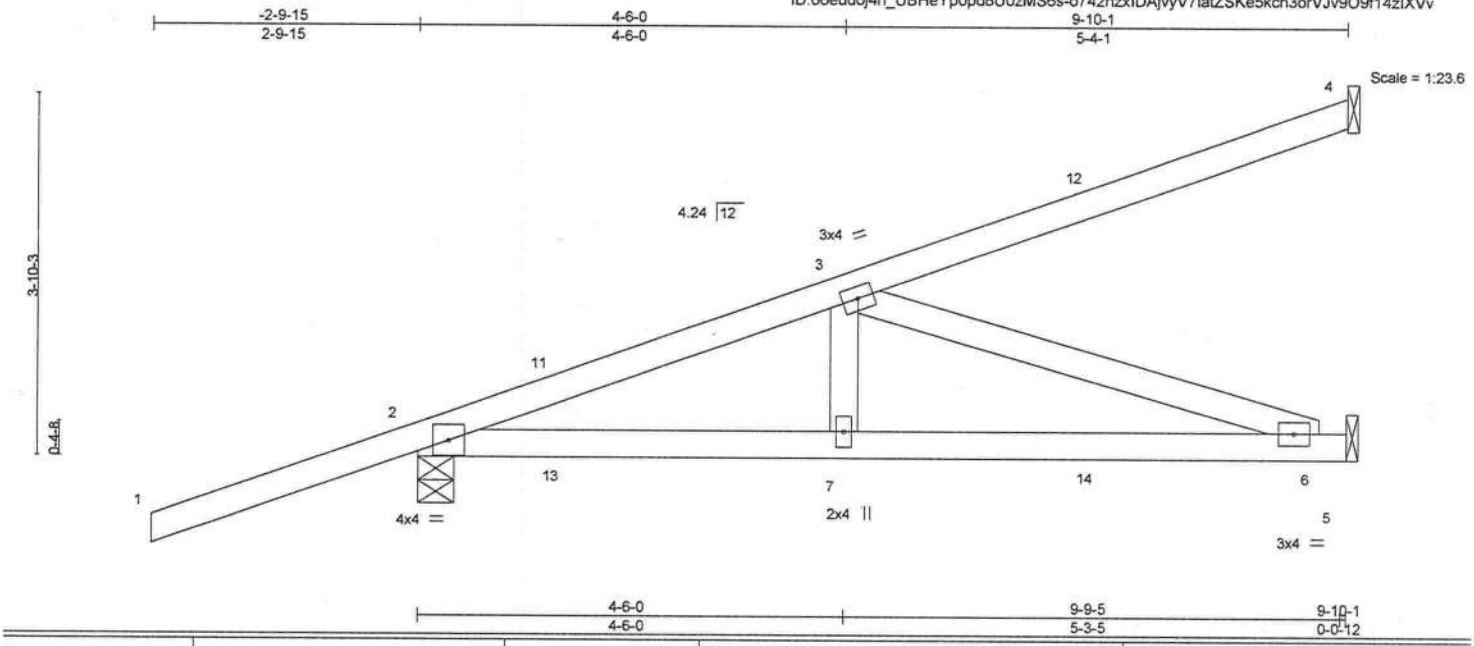

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.59	Vert(LL) 0.06 6-7 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.61	Vert(CT) -0.12 6-7 >967 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.35	Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 44 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

REACTIONS. (lb/size) 4=150/Mechanical, 2=463/0-4-9, 5=251/Mechanical
Max Horz 2=233(LC 22)
Max Uplift 4=-141(LC 4), 2=-264(LC 4), 5=-103(LC 8)
Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-628/252
BOT CHORD 2-7=-327/573, 6-7=-327/573
WEBS 3-6=-603/345

NOTES-
1) 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; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 4, 264 lb uplift at joint 2 and 103 lb uplift at joint 5.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 103 lb up at 1-6-1, 86 lb down and 103 lb up at 1-6-1, 26 lb down and 38 lb up at 4-4-0, 26 lb down and 38 lb up at 4-4-0, and 50 lb down and 97 lb up at 7-1-15, and 50 lb down and 97 lb up at 7-1-15 on top chord, and 36 lb down and 74 lb up at 1-6-1, 36 lb down and 74 lb up at 1-6-1, 28 lb down and 2 lb up at 4-4-0, 28 lb down and 2 lb up at 4-4-0, and 44 lb down and 15 lb up at 7-1-15, and 44 lb down and 15 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 13=70(F=35, B=35) 14=-49(F=-24, B=-24)

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.
1755797	T02	Hip	1	1	T17005232
					Job Reference (optional)

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-2-0-0	4-9-8	9-0-0	15-0-0	19-2-8	24-0-0	26-0-0
2-0-0	4-9-8	4-2-8	6-0-0	4-2-8	4-9-8	2-0-0

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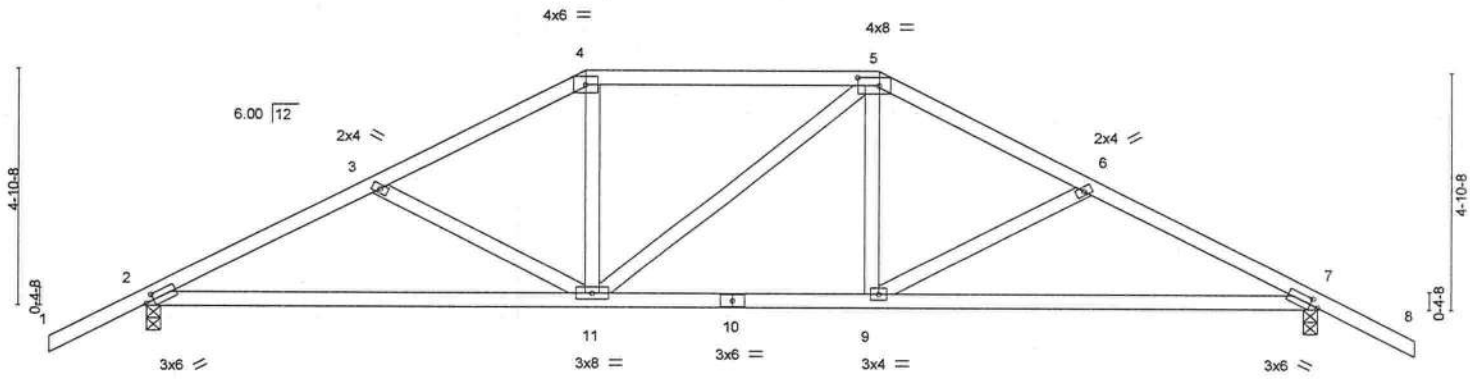

9-0-0	15-0-0	24-0-0
9-0-0	6-0-0	9-0-0

Plate Offsets (X,Y)— [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-1-15,0-1-8]

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	0.48	Vert(LL)	-0.16	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.32	9-17	>890	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							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 4-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-11 oc bracing.

REACTIONS. (lb/size) 2=996/0-3-8, 7=996/0-3-8
Max Horz 2=-75(LC 10)
Max Uplift 2=-208(LC 12), 7=-208(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1535/817, 3-4=-1283/677, 4-5=-1107/659, 5-6=-1282/677, 6-7=-1535/817
BOT CHORD 2-11=-578/1345, 9-11=-370/1106, 7-9=-605/1345
WEBS 3-11=-281/269, 4-11=-79/356, 5-9=-84/356, 6-9=-282/269

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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 208 lb uplift at joint 2 and 208 lb uplift at joint 7.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.
1755797	T04	Common	6	1	T17005234
					Job Reference (optional)

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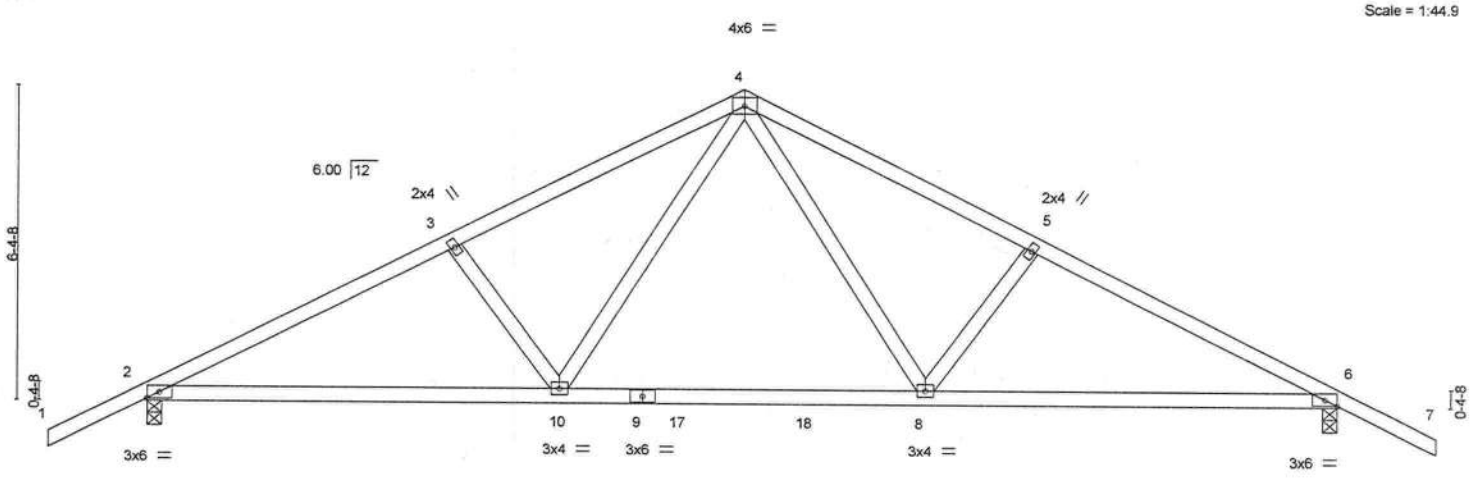
-2-0-0 / 2-0-0 | 6-2-5 / 6-2-5 | 12-0-0 / 5-9-11 | 17-9-11 / 5-9-11 | 24-0-0 / 6-2-5 | 26-0-0 / 2-0-0

Scale = 1:44.9



8-3-13 / 8-3-13 | 15-8-3 / 7-4-5 | 24-0-0 / 8-3-13

Plate Offsets (X,Y)— [6:0-2-15,Edge]

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	0.40	Vert(LL)	-0.13	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.23	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 114 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 4-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.

REACTIONS. (lb/size) 2=996/0-3-8, 6=996/0-3-8
Max Horz 2=95(LC 11)
Max Uplift 2=-225(LC 12), 6=-225(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1518/809, 3-4=-1334/780, 4-5=-1334/780, 5-6=-1518/809
BOT CHORD 2-10=-565/1307, 8-10=-254/869, 6-8=-583/1307
WEBS 4-8=-267/506, 5-8=-328/330, 4-10=-267/506, 3-10=-328/330

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) and C-C Exterior(2) zone;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 225 lb uplift at joint 2 and 225 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	T06	Common	2	1	Job Reference (optional)	T17005236

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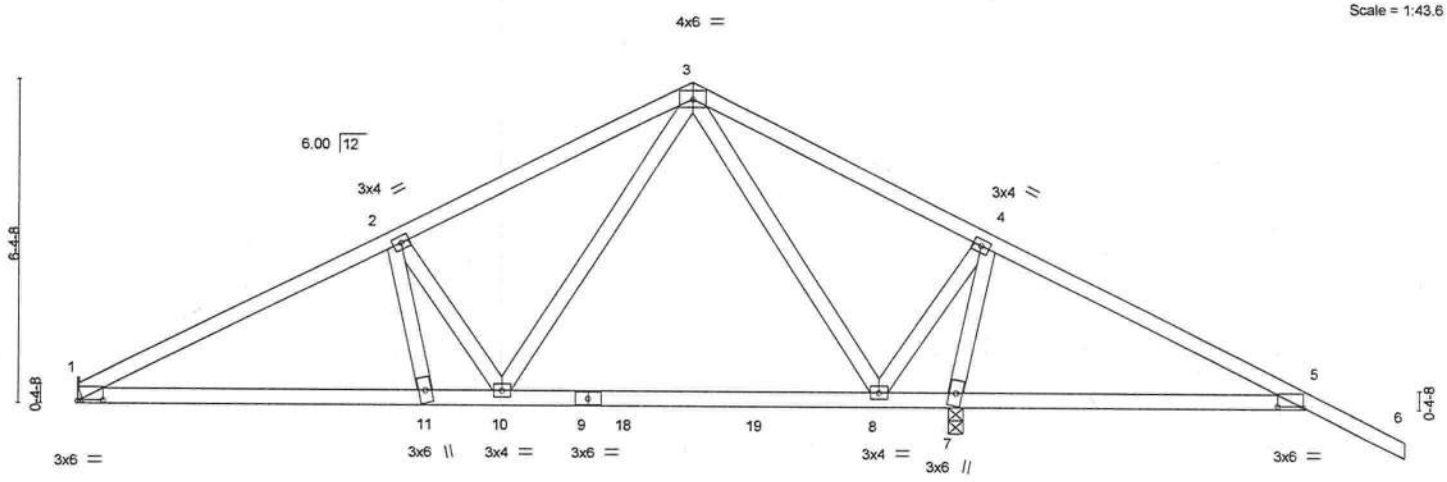
6-2-5	12-0-0	17-9-11	24-0-0	26-0-0
6-2-5	5-9-11	5-9-11	6-2-5	2-0-0

Scale = 1:43.6



6-9-12	8-3-13	15-8-3	17-4-0	24-0-0
6-9-12	1-6-1	7-4-6	1-7-13	6-8-0

Plate Offsets (X,Y)— [1:0-6-0,0-0-3], [5:0-6-0,0-0-3]

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	0.58	Vert(LL)	-0.07	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.14	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							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 5-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-0 oc bracing.

REACTIONS. (lb/size) 1=484/Mechanical, 7=1400/0-3-8
Max Horz 1=-102(LC 13)
Max Uplift 1=-129(LC 12), 7=-316(LC 13)
Max Grav 1=545(LC 23), 7=1400(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-819/205, 2-3=-606/198, 3-4=-588/519, 4-5=-931/756
BOT CHORD 1-11=-184/697, 10-11=-184/721, 8-10=-66/428, 7-8=-874/1190, 5-7=-602/982
WEBS 3-8=-837/828, 4-8=-589/921, 4-7=-1281/981, 3-10=-304/532, 2-10=-448/375

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) and C-C Exterior(2) zone; cantilever 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 1 and 316 lb uplift at joint 7.

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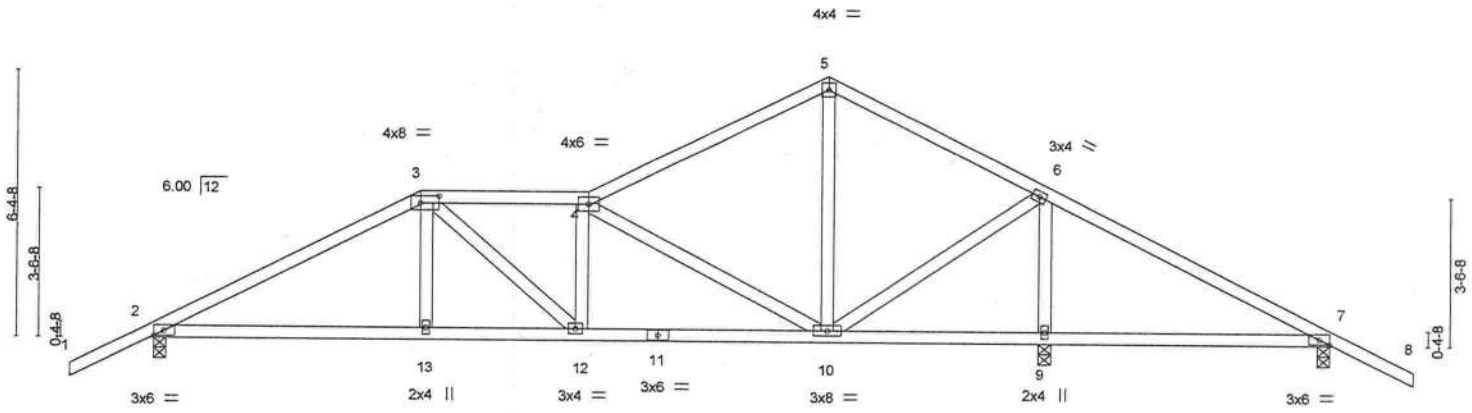
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	T08	Roof Special	1	1		T17005238
					Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:34 2019 Page 1
ID:66eudoj4n_UBHeYp0pd8U0zMS6s-V3hqtO3asF_U91udAzkoklWUcpXwBxBNSxaBNVzlXVl

-2-0-0	6-4-0	10-4-0	16-0-0	21-2-4	28-0-0	30-0-0
2-0-0	6-4-0	4-0-0	5-8-0	5-2-4	6-9-12	2-0-0

Scale = 1:53.0



6-4-0	10-4-0	16-0-0	21-2-4	28-0-0
6-4-0	4-0-0	5-8-0	5-2-4	6-9-12

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [7:0-2-15,Edge]

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	0.49	Vert(LL)	-0.05	13-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.12	13-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 142 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 4-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 2=836/0-3-8, 9=1264/0-3-8, 7=188/0-3-8
Max Horz 2=-95(LC 10)
Max Uplift 2=-214(LC 12), 9=-231(LC 12), 7=-100(LC 13)
Max Grav 2=836(LC 1), 9=1264(LC 1), 7=280(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1161/597, 3-4=-1095/666, 4-5=-471/339, 5-6=-478/355, 6-7=-108/398
BOT CHORD 2-13=-350/972, 12-13=-349/978, 10-12=-436/1096, 9-10=-313/266, 7-9=-313/266
WEBS 4-10=-847/520, 6-10=-275/770, 6-9=-1107/630

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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 214 lb uplift at joint 2, 231 lb uplift at joint 9 and 100 lb uplift at joint 7.

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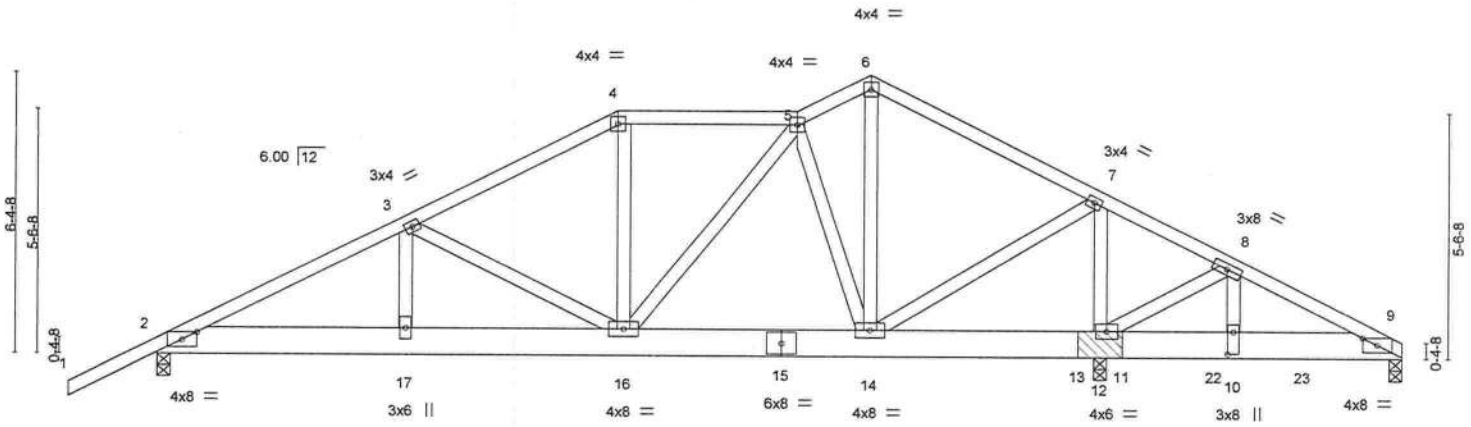
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005240
1755797	T10	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:37 2019 Page 1
ID:66eudoj4n_UBHeYp0pd8U0zMS6s-weMyVQ5S9AM30VdCr6IVMN8_80bTOJDq8vpr_qzIXVi

-2-0-0	5-6-15	10-4-0	14-4-0	16-0-0	21-2-4	24-2-4	28-0-0
2-0-0	5-6-15	4-9-1	4-0-0	1-8-0	5-2-4	3-0-0	3-9-12

Scale = 1:50.0



5-6-15	10-4-0	16-0-0	21-2-4	24-2-4	28-0-0
5-6-15	4-9-1	5-8-0	5-2-4	3-0-0	3-9-12

Plate Offsets (X,Y)— [2:0-4-0,0-1-15], [9:0-4-0,0-1-15], [10:0-6-0,0-1-8]

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	0.47	Vert(LL)	-0.02	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.04	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 12-14.

REACTIONS. (lb/size) 9=961/0-3-8, 2=758/0-3-8, 12=3483/(0-3-8 + bearing block) (req. 0-4-2)
Max Horz 2=103(LC 8)
Max Uplift 9=-223(LC 9), 2=-256(LC 27), 12=-732(LC 8)
Max Grav 9=1031(LC 20), 2=758(LC 1), 12=3483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1029/372, 3-4=-688/311, 4-5=-574/307, 5-6=-373/275, 6-7=-415/272, 7-8=-179/832, 8-9=-1166/345
BOT CHORD 2-17=-347/941, 16-17=-347/941, 14-16=-198/496, 12-14=-697/205, 10-12=-288/1026, 9-10=-288/1026
WEBS 3-16=-397/160, 5-16=-109/415, 5-14=-547/205, 7-14=-198/967, 7-12=-1200/282, 8-10=-347/1633, 8-12=-1867/449

NOTES-
1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) 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); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 9, 256 lb uplift at joint 2 and 732 lb uplift at joint 12.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1012 lb down and 237 lb up at 21-9-4, and 1012 lb down and 237 lb up at 23-9-4, and 1012 lb down and 237 lb up at 25-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 5-6=-54, 6-9=-54, 2-9=-20

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005241
1755797	T11	Hip	1	1	Job Reference (optional)	

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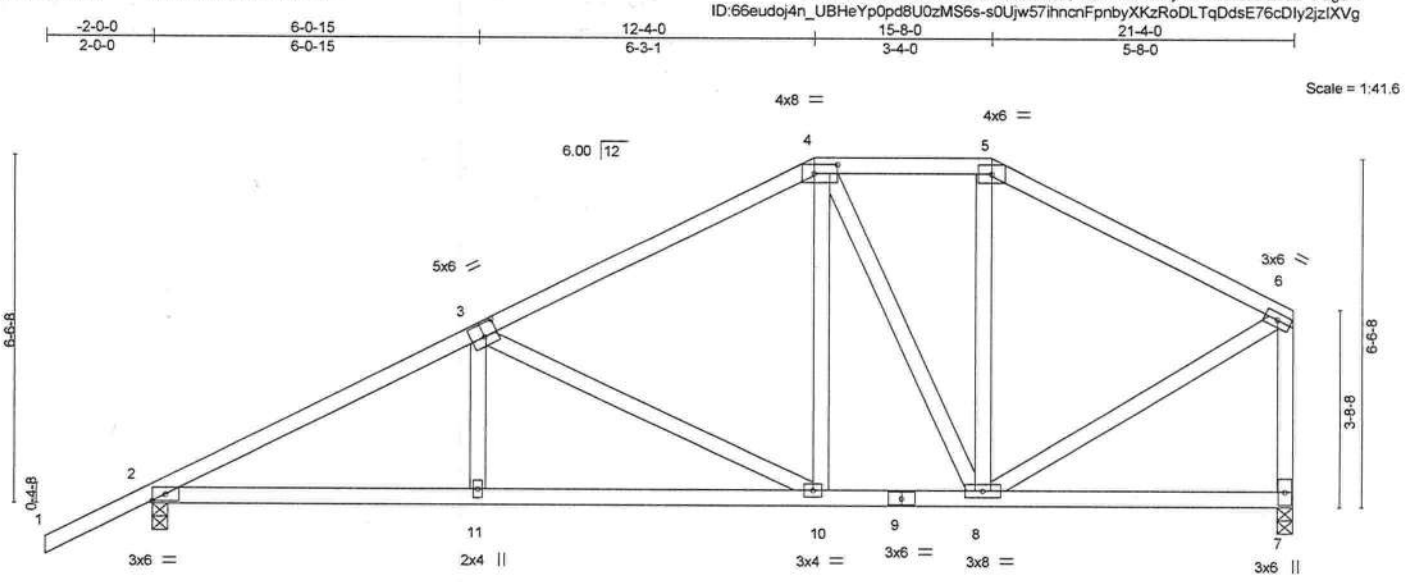

Plate Offsets (X,Y)— [3:0-3-0,0-3-0], [4:0-5-4,0-2-0]

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	0.42	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.12	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 126 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 4-9-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-9 oc bracing.

REACTIONS. (lb/size) 2=897/0-3-8, 7=779/0-3-8
Max Horz 2=177(LC 12)
Max Uplift 2=-205(LC 12), 7=-134(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1343/658, 3-4=-812/456, 4-5=-532/402, 5-6=-662/377, 6-7=-724/432
BOT CHORD 2-11=-681/1148, 10-11=-682/1146, 8-10=-326/658
WEBS 3-11=0/267, 3-10=-553/401, 4-10=-151/362, 4-8=-326/160, 6-8=-273/591

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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 205 lb uplift at joint 2 and 134 lb uplift at joint 7.

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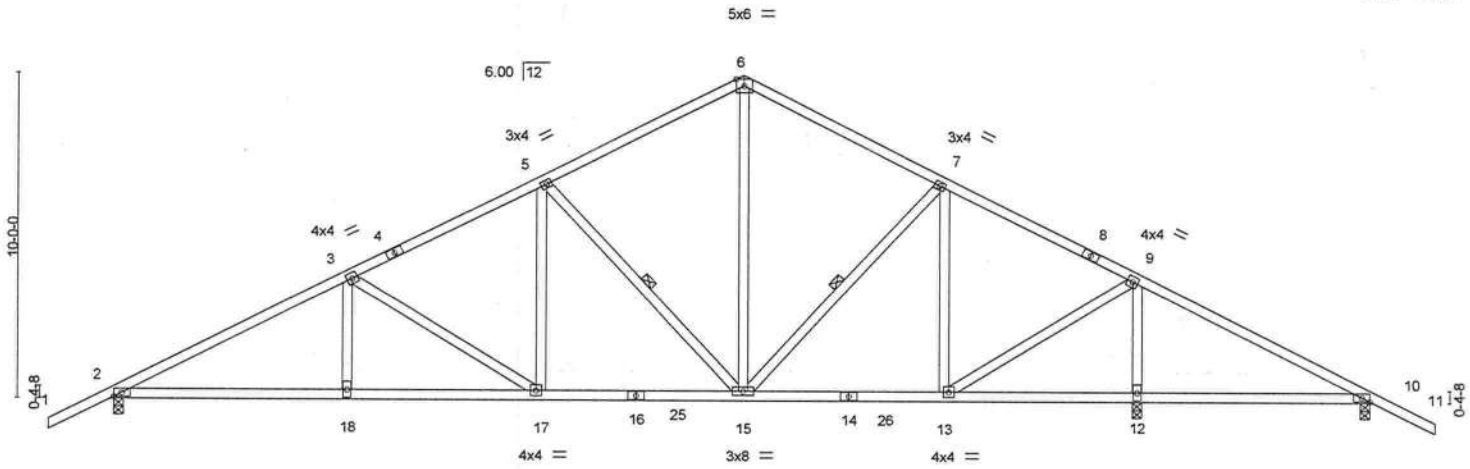
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005243
1755797	T13	Common	13	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:41 2019 Page 1
ID:66eudoj4n_UBHeYp0pd8U0zMS6s-oPcTLn8zDPsVU6w_4xMRXDJfvet7K6gP3Xn27bzIXVe

-2-0-0	7-1-12	13-1-0	19-3-0	25-5-1	31-4-4	38-6-0	40-6-0
2-0-0	7-1-12	5-11-4	6-2-1	6-2-0	5-11-3	7-1-12	2-0-0

Scale = 1:68.1



7-1-12	13-1-0	19-3-0	25-5-1	31-4-4	38-6-0
7-1-12	5-11-4	6-2-1	6-2-0	5-11-3	7-1-12

Plate Offsets (X,Y)-- [10:0-2-15,Edge]

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	0.55	Vert(LL)	0.16	12-24	>551	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.17	18-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 217 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 3-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-15, 5-15

REACTIONS. (lb/size) 2=1221/0-3-8, 12=1676/0-3-8, 10=167/0-3-8
Max Horz 2=223(LC 12)
Max Uplift 2=-507(LC 12), 12=-538(LC 13), 10=-179(LC 8)
Max Grav 2=1221(LC 1), 12=1676(LC 1), 10=257(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1988/1059, 3-5=-1485/892, 5-6=-978/709, 6-7=-977/708, 7-9=-835/561, 9-10=-160/483
BOT CHORD 2-18=-760/1710, 17-18=-760/1710, 15-17=-463/1263, 13-15=-162/679, 12-13=-336/244, 10-12=-336/244
WEBS 6-15=-363/515, 7-15=-76/277, 7-13=-521/305, 9-13=-439/1188, 9-12=-1502/829, 5-15=-682/485, 5-17=-153/438, 3-17=-526/376, 3-18=0/272

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 right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 3x6 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 507 lb uplift at joint 2, 538 lb uplift at joint 12 and 179 lb uplift at joint 10.

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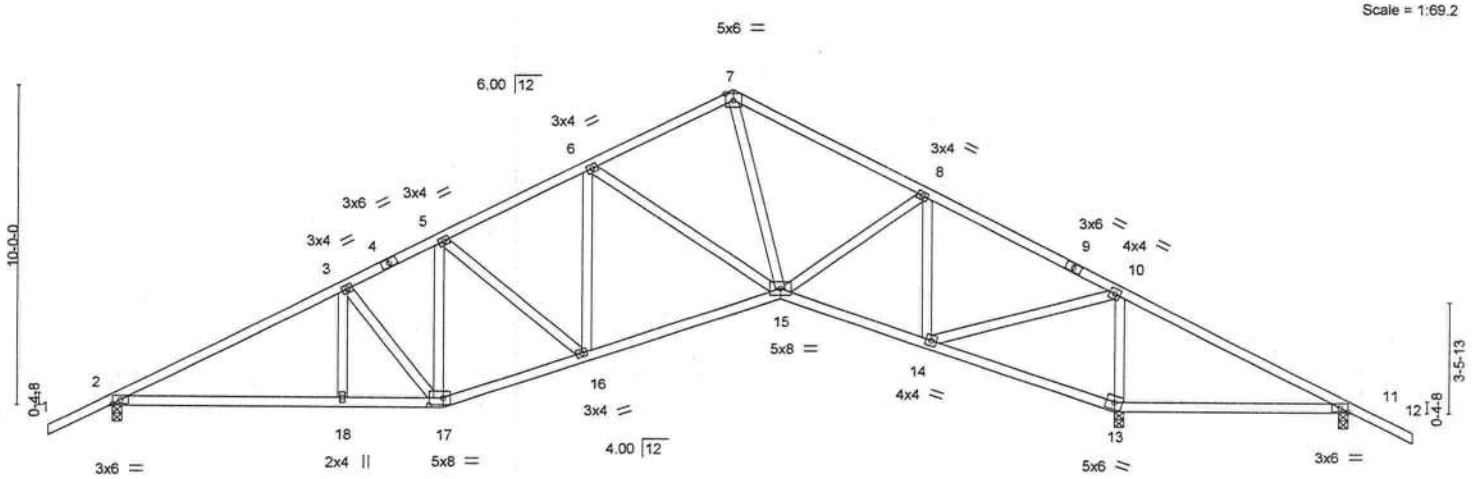
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	T14	Roof Special	1	1		T17005245
					Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:47 2019 Page 1
ID:66eudoj4n_UBHeYp0pd8U0zMS6s-dZzkcqDjoFdeD1O7QCTrmUYfJ2xlkqDISTENLFzIXVY

-2-0-0	7-1-12	10-3-8	14-9-0	19-3-0	25-4-0	31-2-8	38-6-0	40-6-0
2-0-0	7-1-12	3-1-12	4-5-8	4-6-0	6-1-0	5-10-8	7-3-8	2-0-0

Scale = 1:69.2



7-1-12	10-3-8	14-9-0	20-9-0	25-4-0	31-2-8	31-4-4	38-6-0
7-1-12	3-1-12	4-5-8	6-0-0	4-7-0	5-10-8	0-1-12	7-1-12

Plate Offsets (X,Y)-- [11:0-2-15,Edge], [17:0-5-4,0-2-8]

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	0.68	Vert(LL)	0.20	13-24	>443	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	0.16	13-24	>542	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 213 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 3-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-11-1 oc bracing.

REACTIONS. (lb/size) 2=1165/0-3-8, 13=1943/0-3-8, 11=-42/0-3-8
Max Horz 2=-144(LC 10)
Max Uplift 2=-276(LC 12), 13=-323(LC 12), 11=-228(LC 10)
Max Grav 2=1165(LC 1), 13=1943(LC 1), 11=112(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1859/1012, 3-5=-1535/956, 5-6=-1476/881, 6-7=-1058/633, 7-8=-1274/716, 8-10=-822/514, 10-11=-265/944
BOT CHORD 2-18=-713/1593, 17-18=-713/1593, 16-17=-572/1412, 15-16=-430/1362, 14-15=-137/713, 13-14=-886/458, 11-13=-760/391
WEBS 3-17=-417/292, 6-16=-131/280, 6-15=-512/435, 7-15=-383/736, 8-15=-56/499, 8-14=-806/377, 10-14=-536/1541, 10-13=-1513/817

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) and C-C Exterior(2) zone; porch 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) except (jt=lb) 2=276, 13=323, 11=228.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005247
1755797	T15	Roof Special	7	1	Job Reference (optional)	

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ID:66eudoj4n_UBHeYp0pd8U0zMS6s-_WmdfYHsdnFxJpG5DI30TYGYk3g7P8f1blx80TzIXVT

-2-0-0	7-1-12	10-3-8	14-9-0	19-3-0	25-4-0	31-2-8	38-6-0	40-6-0
2-0-0	7-1-12	3-1-12	4-5-8	4-6-0	6-1-0	5-10-8	7-3-8	2-0-0

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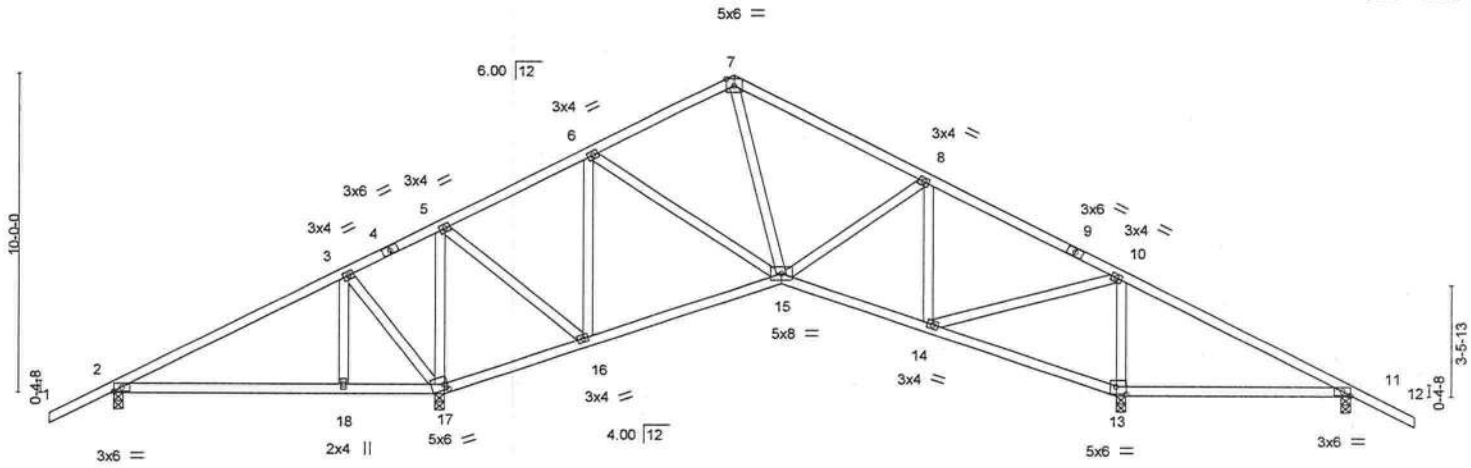

7-1-12	10-1-12	10-3-8	14-9-0	20-9-0	25-4-0	31-2-8	31-4-4	38-6-0
7-1-12	3-0-0	0-1-12	4-5-8	6-0-0	4-7-0	5-10-8	0-1-12	7-1-12

Plate Offsets (X,Y)– [11:0-2-15,Edge], [13:0-3-12,0-2-12], [17:0-1-4,0-2-0]

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	0.51	Vert(LL)	0.19	13-24	>453	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.18	13-24	>486	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 213 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 15-16,14-15.

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-144(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-171(LC 8), 17=-297(LC 12), 13=-225(LC 13), 11=-169(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=385(LC 23), 17=1339(LC 1), 13=1098(LC 1), 11=310(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-162/281, 3-5=-31/345, 5-6=-324/278, 6-7=-570/370, 7-8=-653/382, 8-10=-666/423
BOT CHORD 16-17=-346/367, 15-16=0/317, 14-15=-53/568
WEBS 3-18=-281/264, 3-17=-455/606, 5-17=-859/388, 5-16=-240/723, 6-16=-514/249, 6-15=0/264, 7-15=-110/289, 8-15=-80/252, 8-14=-315/119, 10-14=-101/712, 10-13=-895/493

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) 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2, 297 lb uplift at joint 17, 225 lb uplift at joint 13 and 169 lb uplift at joint 11.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005249
1755797	T17	Common	2	1	Job Reference (optional)	

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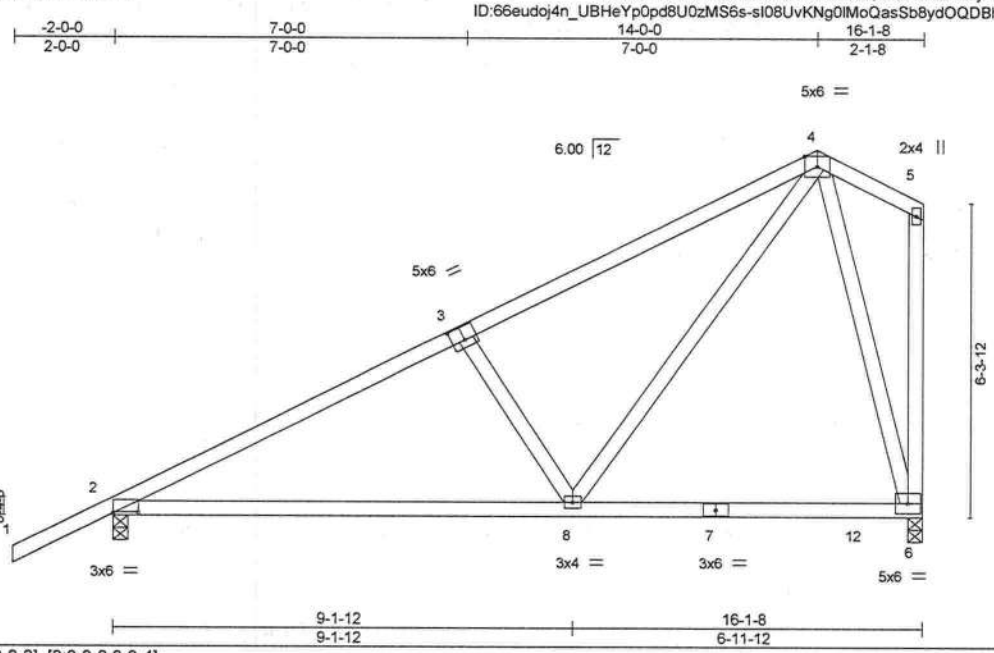

Plate Offsets (X,Y)– [2:0-6-0,0-0-3], [3:0-3-0,0-3-4]

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	0.54	Vert(LL)	-0.14	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.30	8-11	>643	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 92 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 5-9-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-9 oc bracing.

REACTIONS. (lb/size) 2=706/0-3-8, 6=584/0-3-8
Max Horz 2=243(LC 12)
Max Uplift 2=-150(LC 12), 6=-174(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-839/348, 3-4=-660/332
BOT CHORD 2-8=-539/711
WEBS 3-8=-388/412, 4-8=-369/625, 4-6=-544/410

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) and C-C Exterior(2) zone;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 150 lb uplift at joint 2 and 174 lb uplift at joint 6.

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-565(F) 13=-560(F) 14=-560(F) 15=-560(F) 16=-560(F) 17=-560(F) 18=-558(F) 19=-566(F)

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	T19G	Common Supported Gable	1	1	Job Reference (optional)	T17005252

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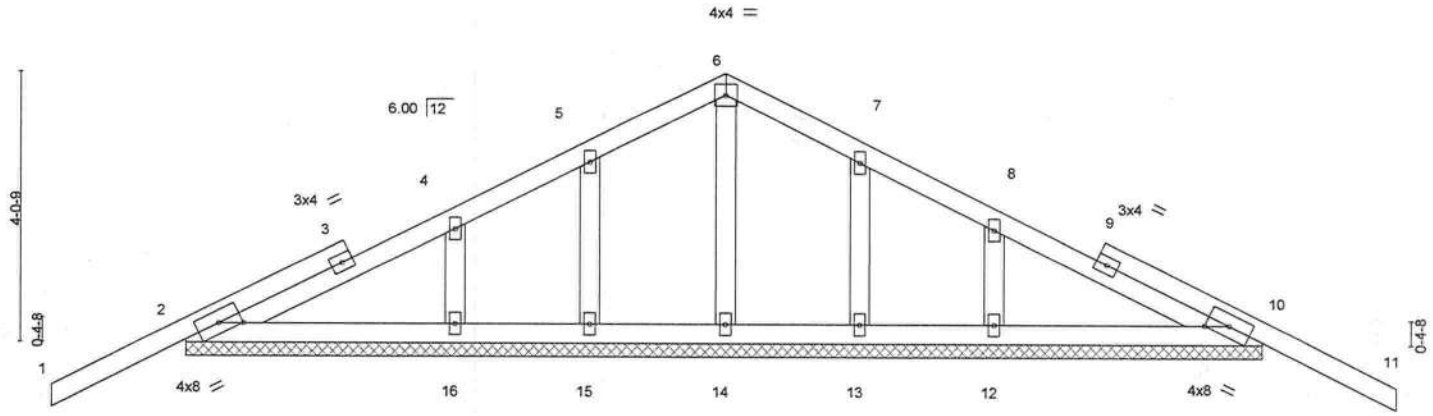
Scale = 1:33.1



16-0-0
16-0-0

Plate Offsets (X,Y)— [2:0-4-0,0-1-15], [10:0-4-0,0-1-15]

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)	-0.02	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 81 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 2=98(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 15, 13 except 2=-123(LC 12), 10=-140(LC 13), 16=-124(LC 12), 12=-128(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 13, 12 except 2=264(LC 23), 10=264(LC 24)

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; 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;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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 13 except (jt=lb) 2=123, 10=140, 16=124, 12=128.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005254
1755797	T21	Roof Special	1	1	Job Reference (optional)	

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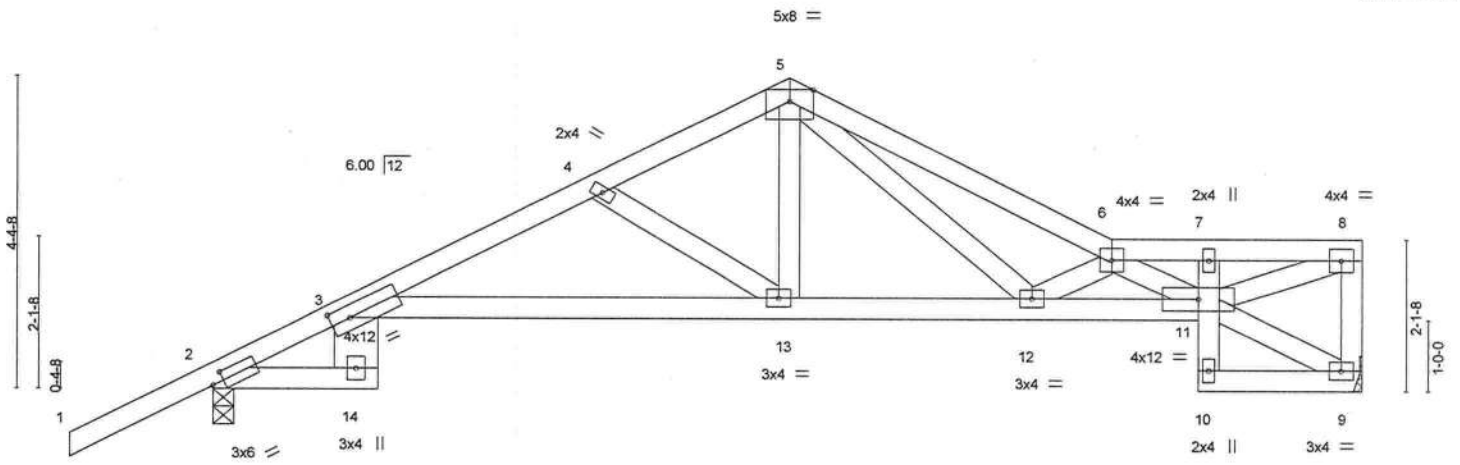
ID:66eudoj4n_UBHeYp0pd8U0zMS6s-503YN_R0Znu5NombU_o3VHIk3J_Fx01xaGbKzCzIXVG

-2-0-0	2-3-8	5-5-0	8-0-0	12-6-0	13-8-8	16-0-0
2-0-0	2-3-8	3-1-8	2-7-0	4-6-0	1-2-8	2-3-8

Scale = 1:31.0



2-3-8	8-0-0	11-4-11	13-8-8	16-0-0
2-3-8	5-8-8	3-4-11	2-3-13	2-3-8

Plate Offsets (X,Y)— [2:0-1-15,0-1-8], [3:0-3-4,0-2-0]

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	0.66	Vert(LL)	0.25	3-13	>752	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.49	3-13	>385	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.28	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except* 3-14: 2x8 SP 2400F 2.0E, 7-10: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (lb/size) 9=580/Mechanical, 2=703/0-3-8
Max Horz 2=115(LC 12)
Max Uplift 9=-125(LC 13), 2=-161(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-16=-418/162, 3-4=-1292/733, 4-5=-959/559, 5-6=-1438/800, 6-7=-1195/639, 7-8=-1074/585, 8-9=-524/299
BOT CHORD 3-13=-699/1214, 12-13=-399/806, 11-12=-1028/1808
WEBS 4-13=-479/353, 5-13=-225/483, 5-12=-337/586, 6-12=-708/474, 6-11=-719/457, 8-11=-624/1145

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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=125, 2=161.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	T23	Half Hip	1	1		T17005256
					Job Reference (optional)	

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ID:66eudoj4n_UBHeYp0pd8U0zMS6s-Wbkg00TusiGgEGUA96Lm7wwEIW518MrOHEp_aXzIXVD

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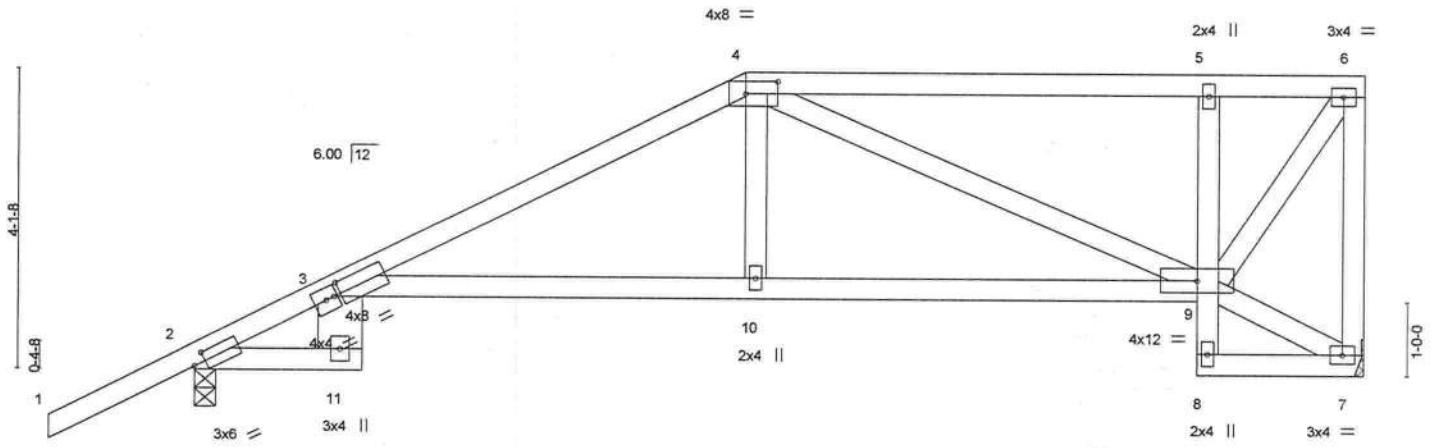
Scale = 1:30.5



2-3-8 2-3-8 | 7-6-0 5-2-8 | 13-8-8 6-2-8 | 16-0-0 2-3-8

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [3:0-1-3,0-2-0], [4:0-5-4,0-2-0]

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	0.66	Vert(LL)	0.33	3-10	>573	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.55	3-10	>344	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.28	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 87 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*
4-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-11: 2x8 SP 2400F 2.0E, 3-9: 2x4 SP M 31, 5-8: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 7=580/Mechanical, 2=703/0-3-8
Max Horz 2=154(LC 12)
Max Uplift 7=-147(LC 9), 2=-151(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-13=-418/69, 3-4=-1040/520, 4-5=-415/235, 5-6=-385/218, 6-7=-540/303
BOT CHORD 3-10=-552/915, 9-10=-556/929, 5-9=-287/233
WEBS 4-10=-66/376, 4-9=-564/351, 6-9=-378/666

NOTES-

1) 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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=147, 2=151.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005258
1755797	T25	Half Hip	1	1	Job Reference (optional)	

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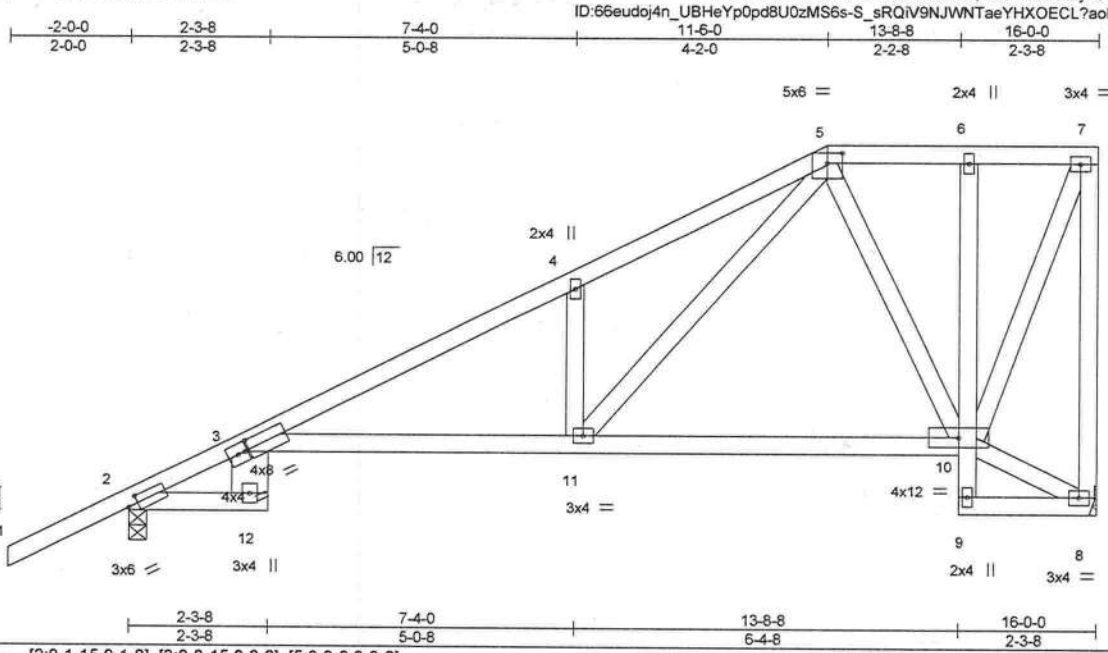

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [3:0-0-15,0-2-0], [5:0-3-0,0-2-0]

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	0.66	Vert(LL)	0.33	3-11	>585	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.51	3-11	>371	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.26	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 103 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31 *Except*
5-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-12: 2x8 SP 2400F 2.0E, 3-10: 2x4 SP M 31, 6-9: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 8=580/Mechanical, 2=703/0-3-8
Max Horz 2=222(LC 12)
Max Uplift 8=-141(LC 12), 2=-150(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-14=-418/0, 3-4=-1103/527, 4-5=-1177/733, 7-8=-552/349
BOT CHORD 3-11=-685/984, 10-11=-262/373
WEBS 4-11=-431/424, 5-11=-647/934, 5-10=-361/299, 7-10=-338/545

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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=141, 2=150.

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	
1755797	T27	Common	2	1	Job Reference (optional)	T17005260

Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:34:12 2019 Page 1
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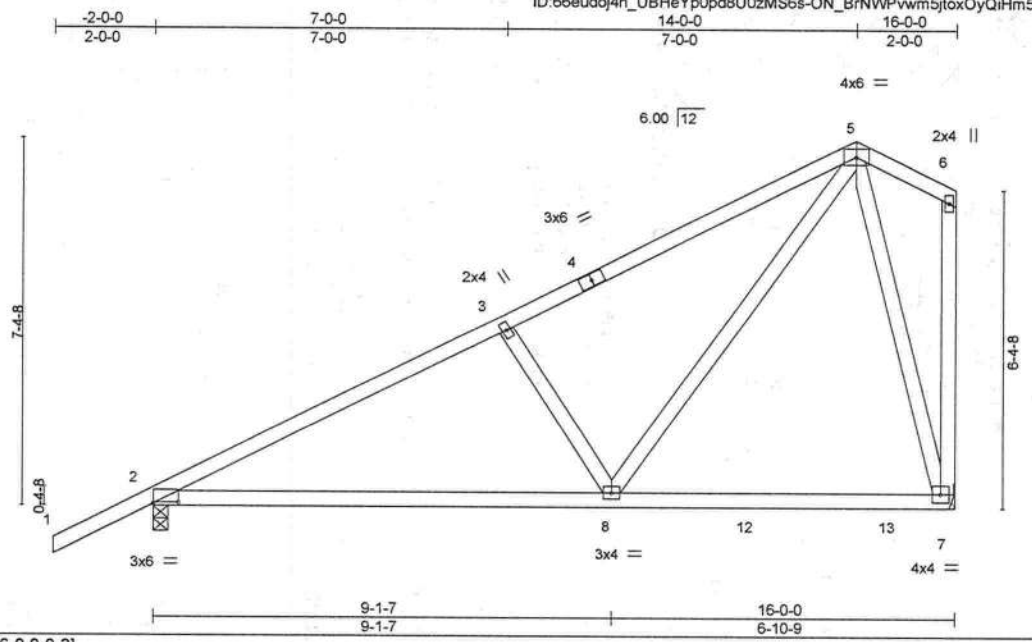

Scale = 1:44.3

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3]

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	0.54	Vert(LL)	-0.14	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.30	8-11	>641	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 91 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 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-14 oc bracing.

REACTIONS. (lb/size) 2=701/0-3-8, 7=580/Mechanical
Max Horz 2=244(LC 12)
Max Uplift 2=-148(LC 12), 7=-175(LC 12)
Max Grav 2=701(LC 1), 7=581(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-829/339, 3-5=-652/327
BOT CHORD 2-8=-535/701
WEBS 3-8=-387/413, 5-8=-373/626, 5-7=-544/416

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) and C-C Exterior(2) zone;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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=148, 7=175.

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May 8,2019

AUGUST 1, 2016	T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY	MII-T-BRACE 2

MiTek USA, Inc.

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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.

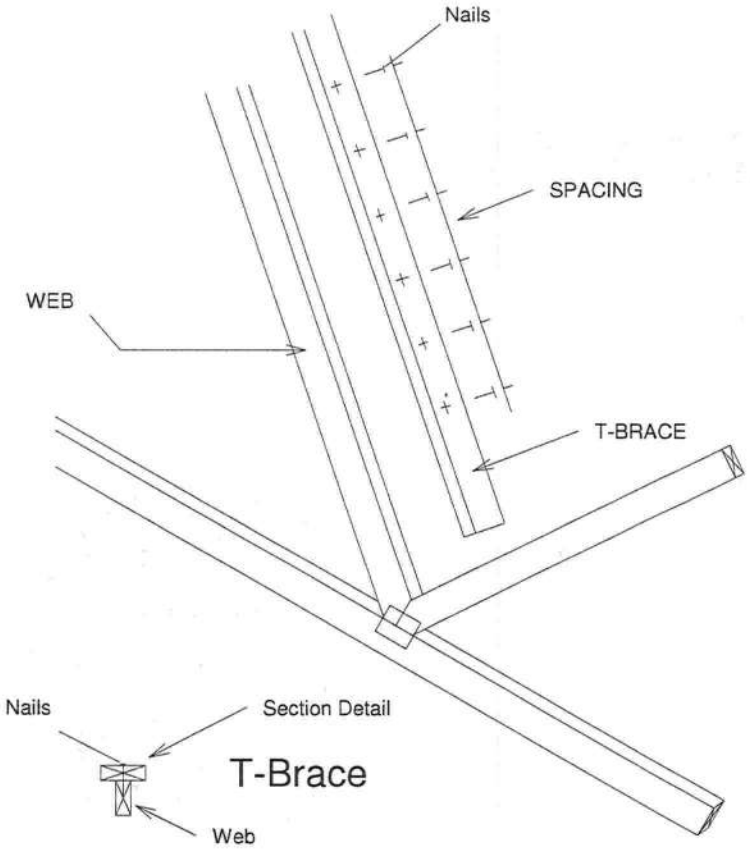
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

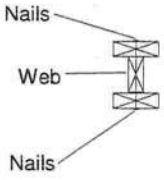
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	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.





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February 12, 2018

AUGUST 1, 2016	STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)	MII-REP05

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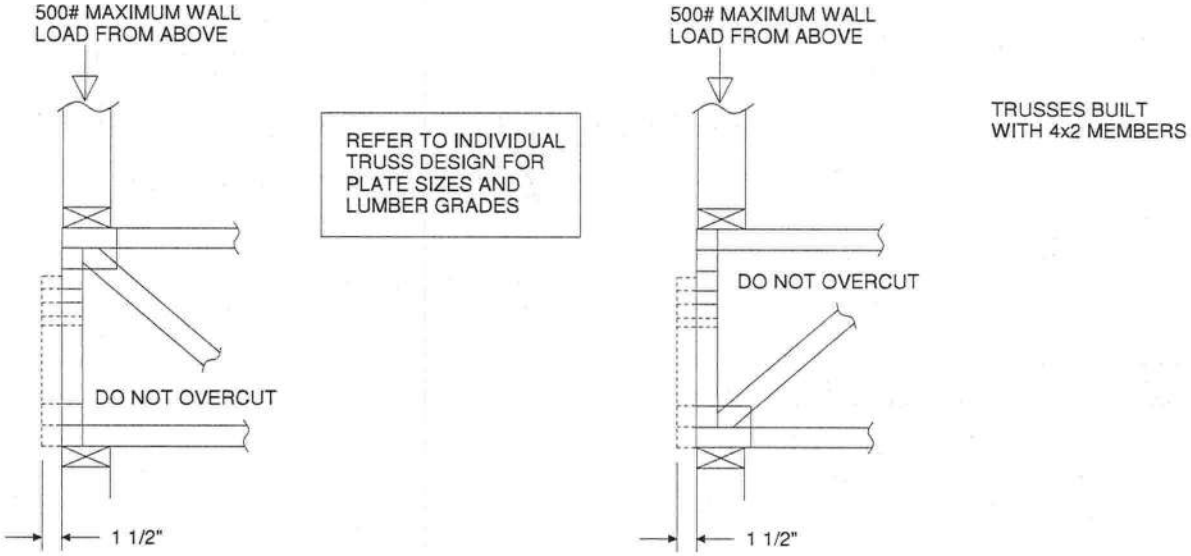
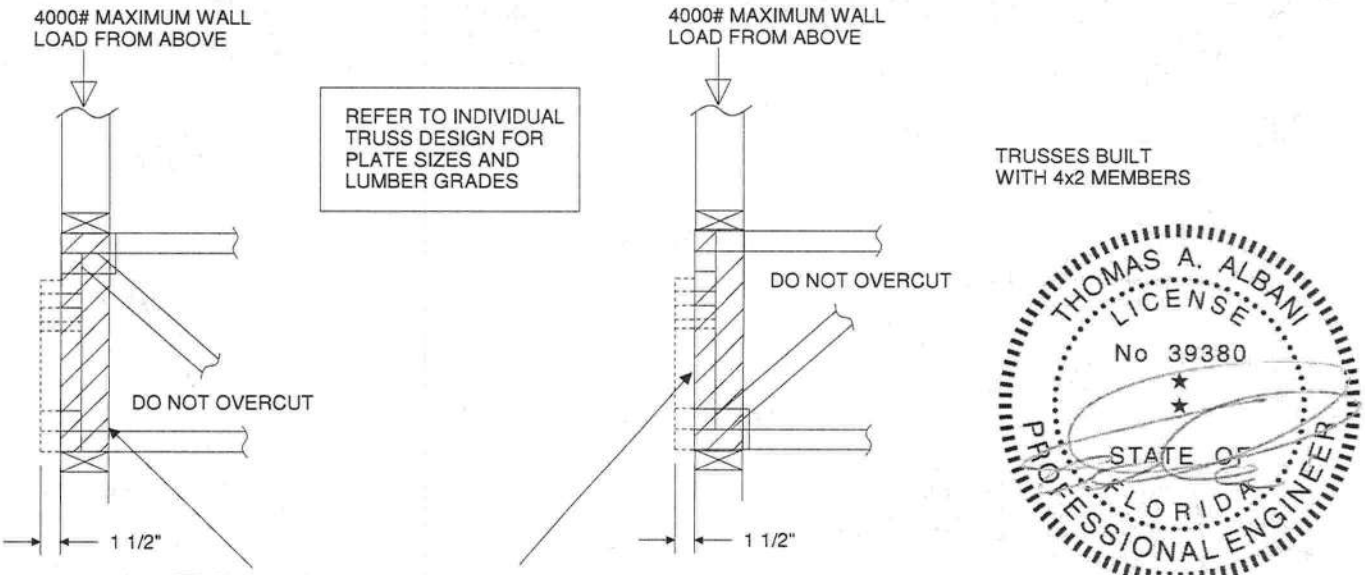
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS 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.





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AUGUST 1, 2016	Standard Gable End Detail	MII-GE130-SP

MiTek USA, Inc. Page 1 of 2

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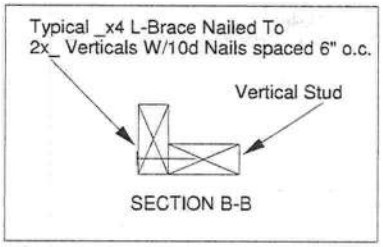
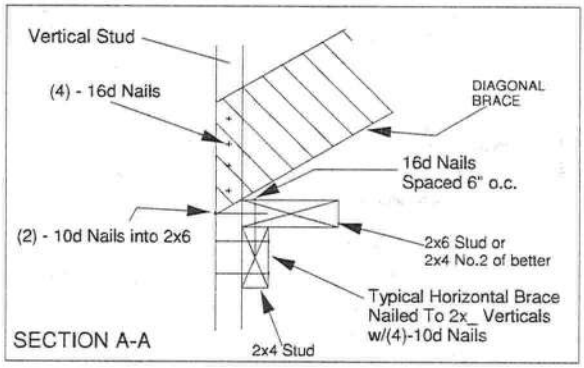
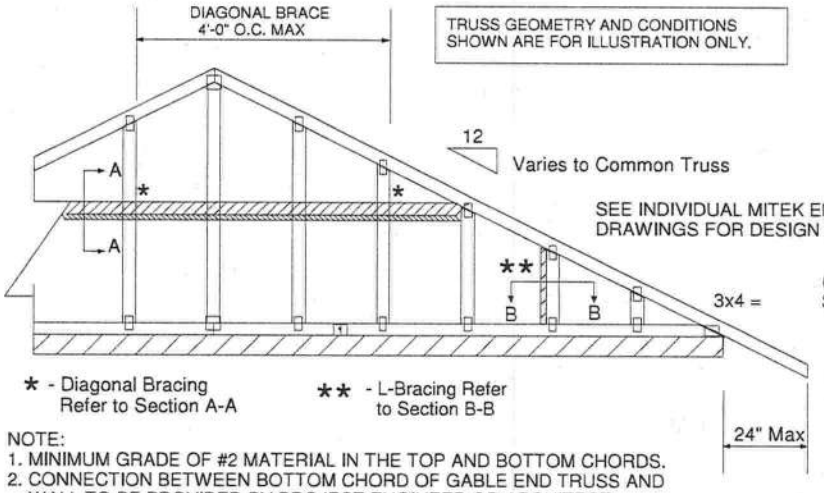






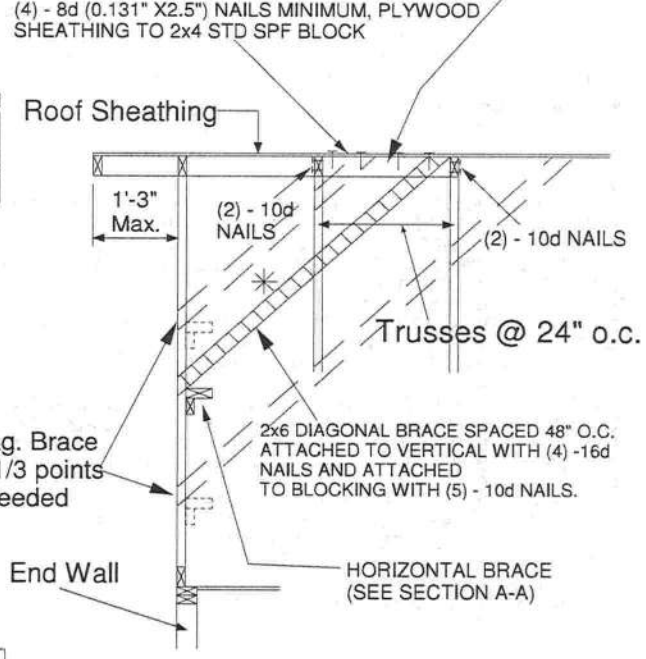
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

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

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.



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.	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.

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AUGUST 1, 2016	Standard Gable End Detail	MII-GE170-D-SP

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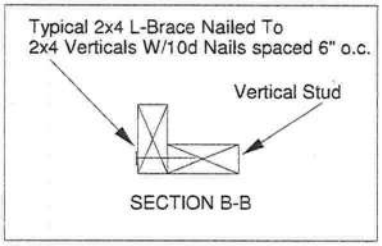
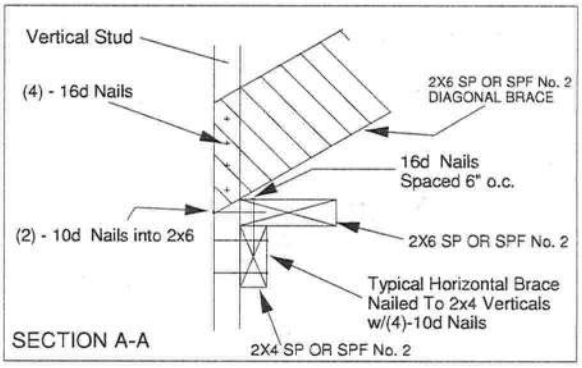
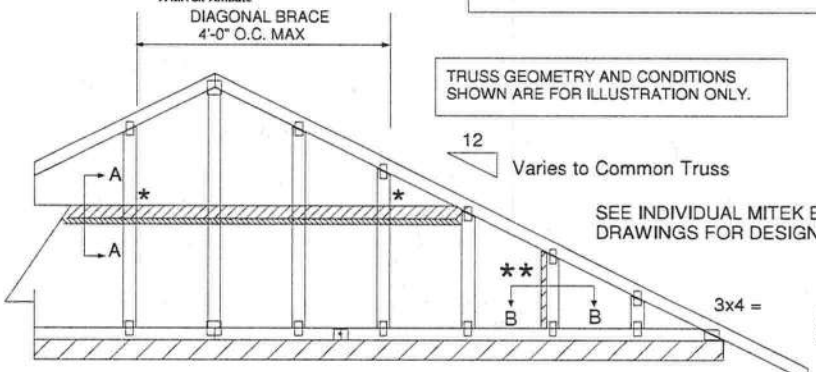






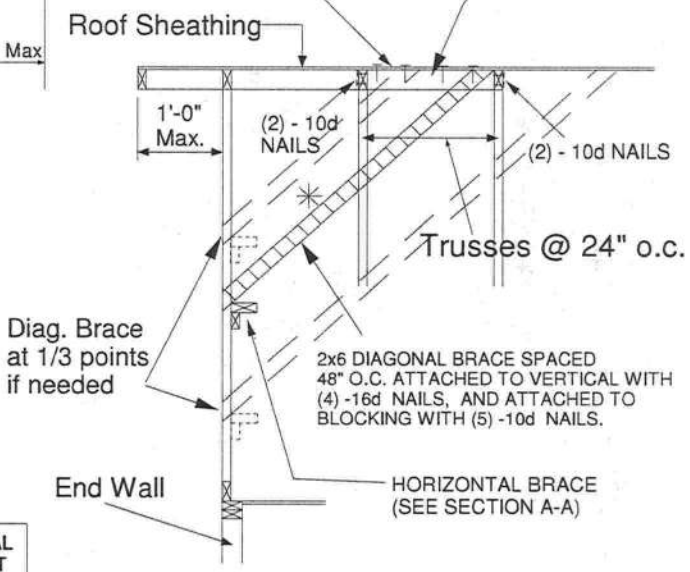
* - Diagonal Bracing Refer to Section A-A

** - 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")

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	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.

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February 12, 2018

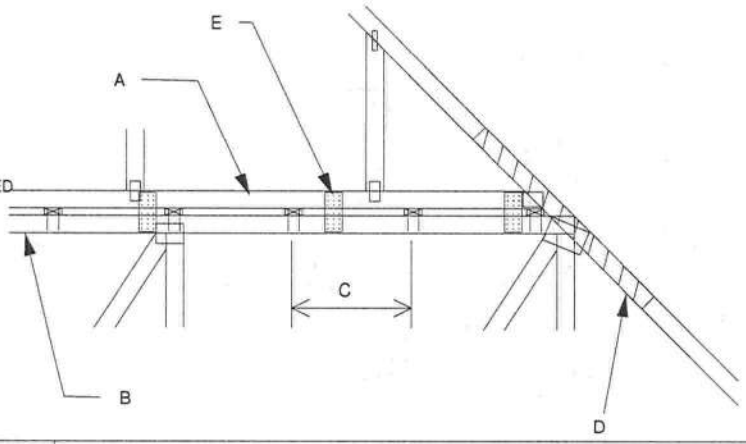
AUGUST 1, 2016	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	MII-PIGGY-7-10

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

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 - PIGGBACK 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 ___ 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.

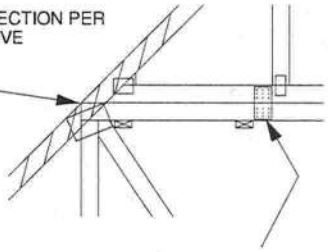
E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



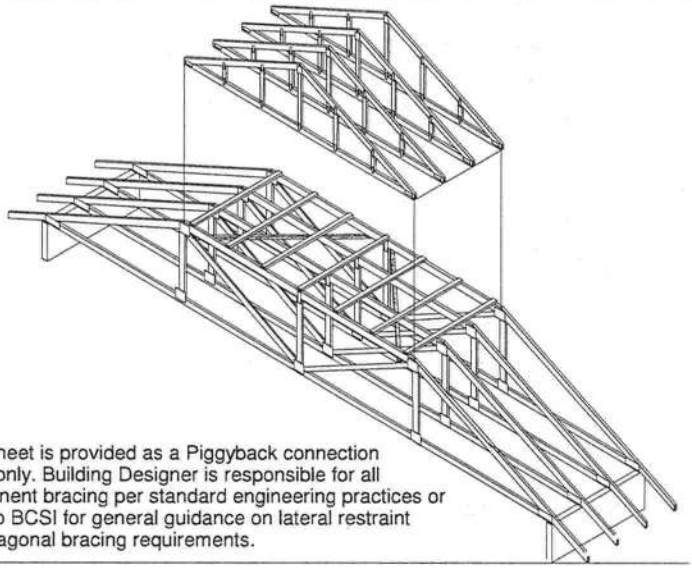
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

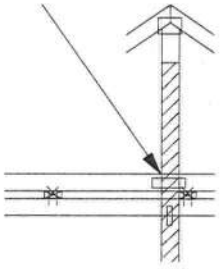


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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 ___ 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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February 12, 2018

AUGUST 1, 2016	STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES	MII-REP01A1

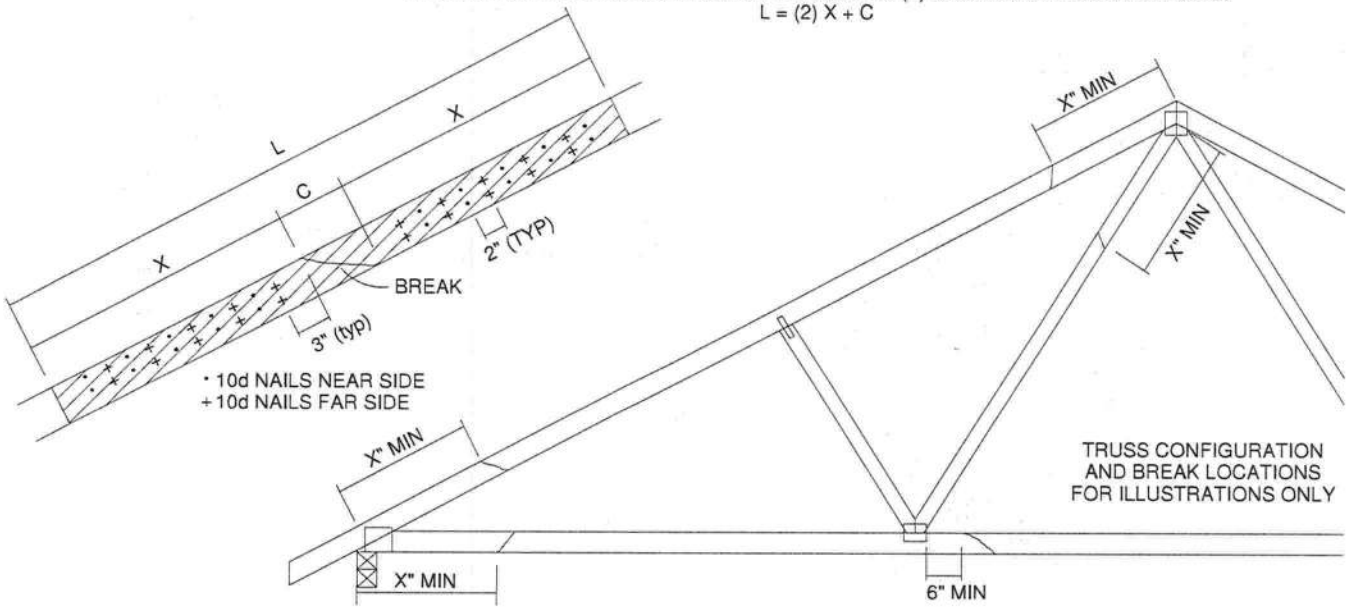
MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

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 APPLING 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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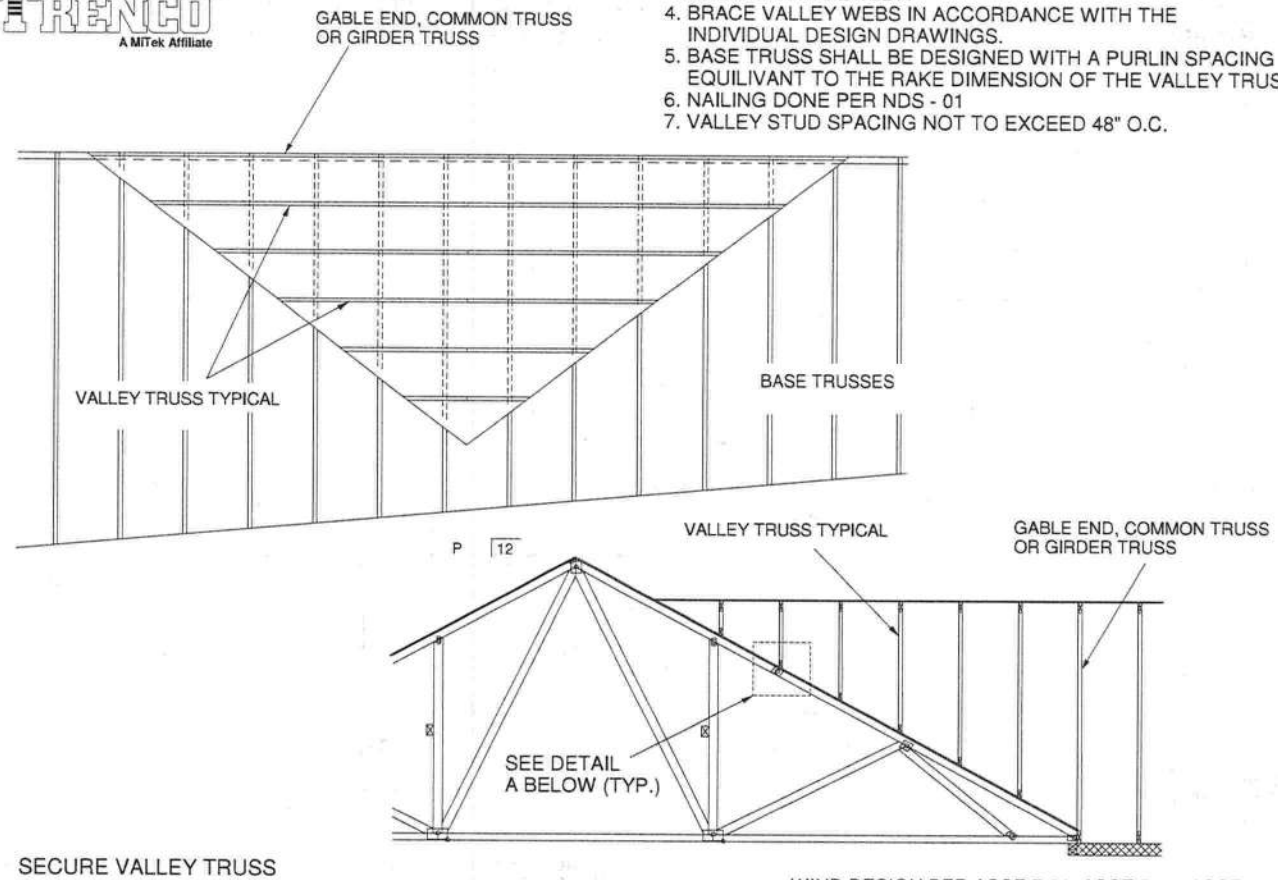
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 19, 2018

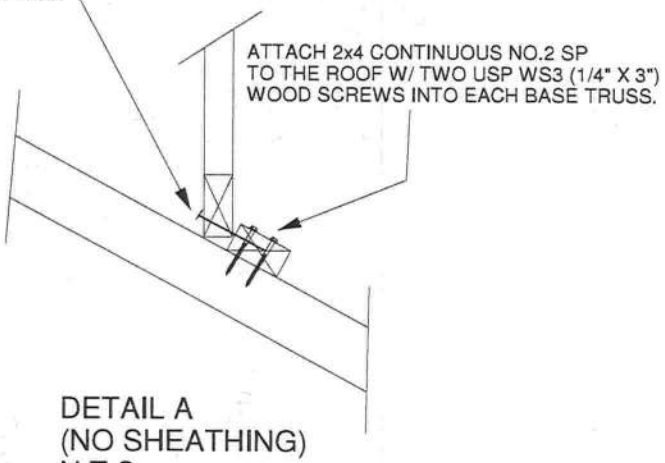
AUGUST 1, 2016	TRUSSED VALLEY SET DETAIL	MII-VALLEY HIGH WIND1

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

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 EQUILIVANT 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.





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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January 19, 2018

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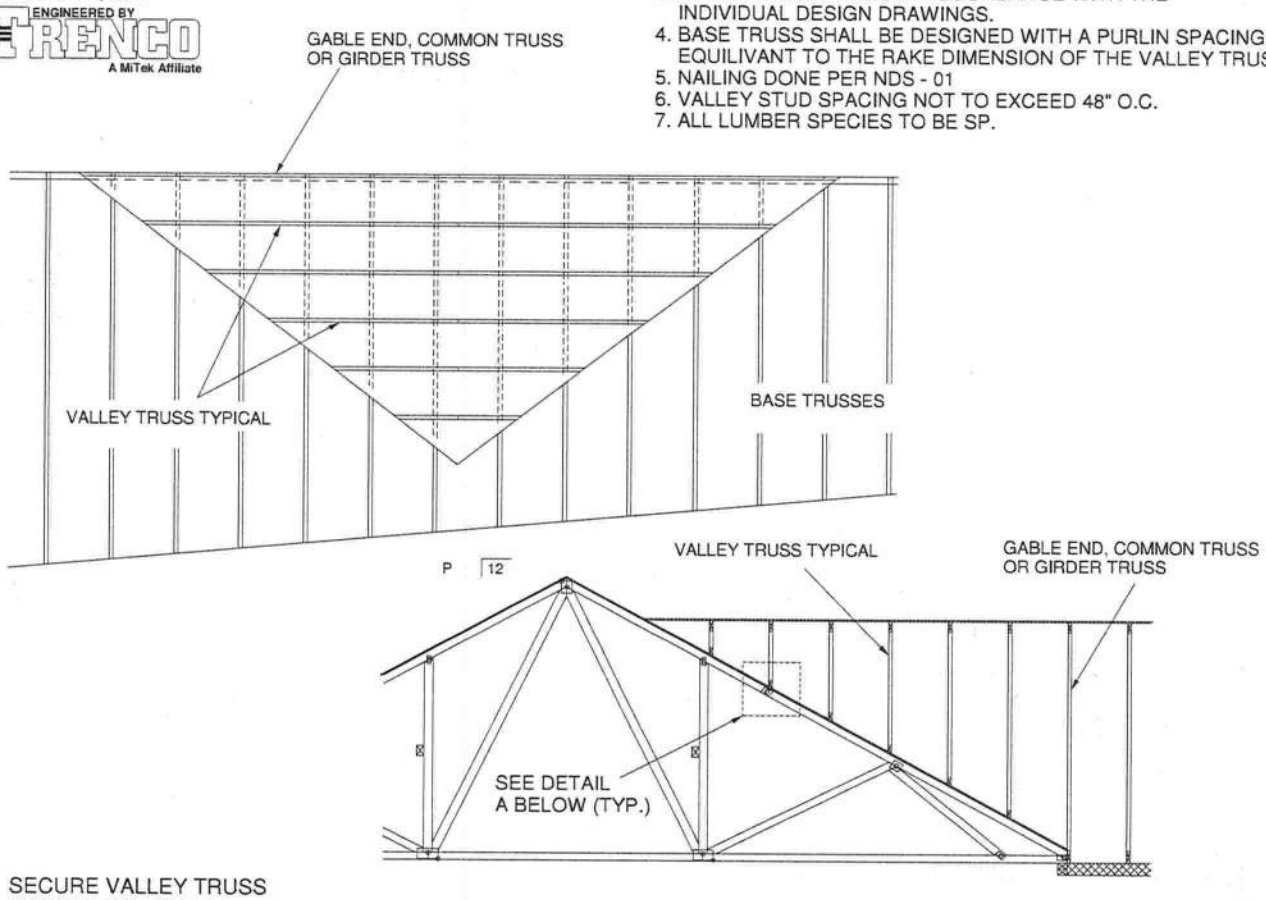
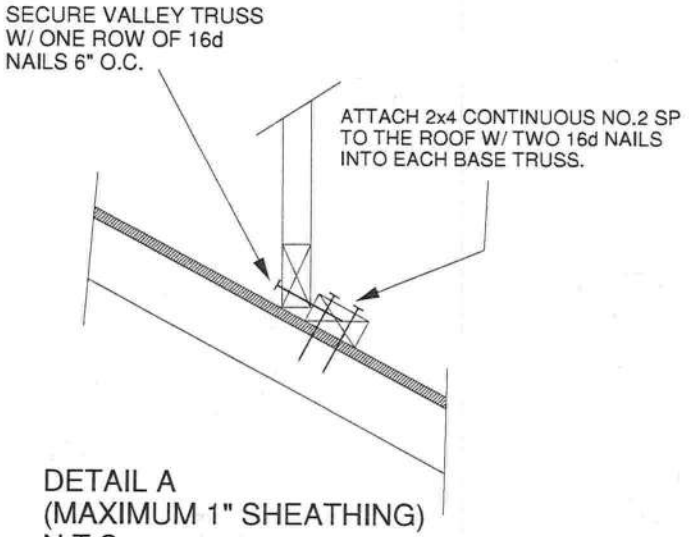
A MiTek Affiliate

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 EQUILIVANT 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.





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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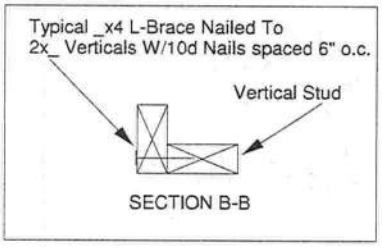
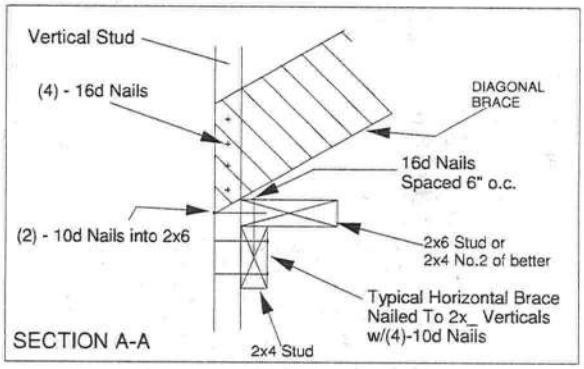
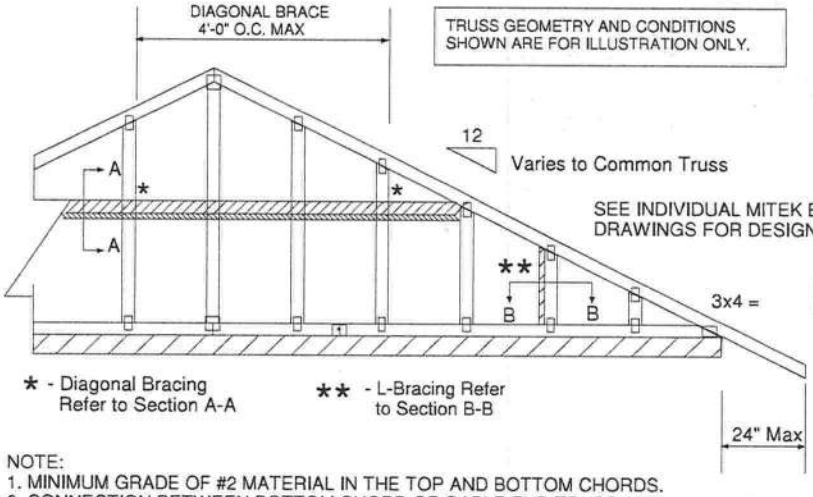
Date:
February 12, 2018

AUGUST 1, 2016	Standard Gable End Detail	MII-GE146-001

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate







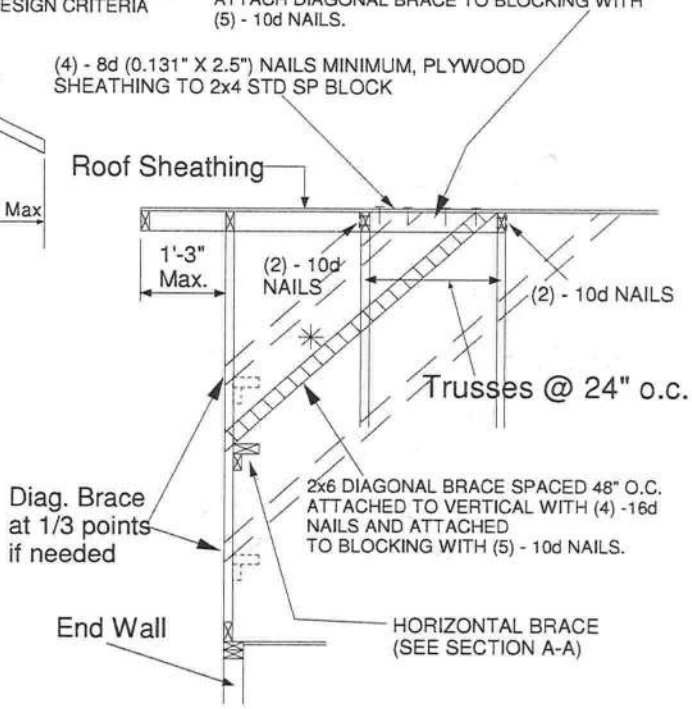
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

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

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.



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")

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

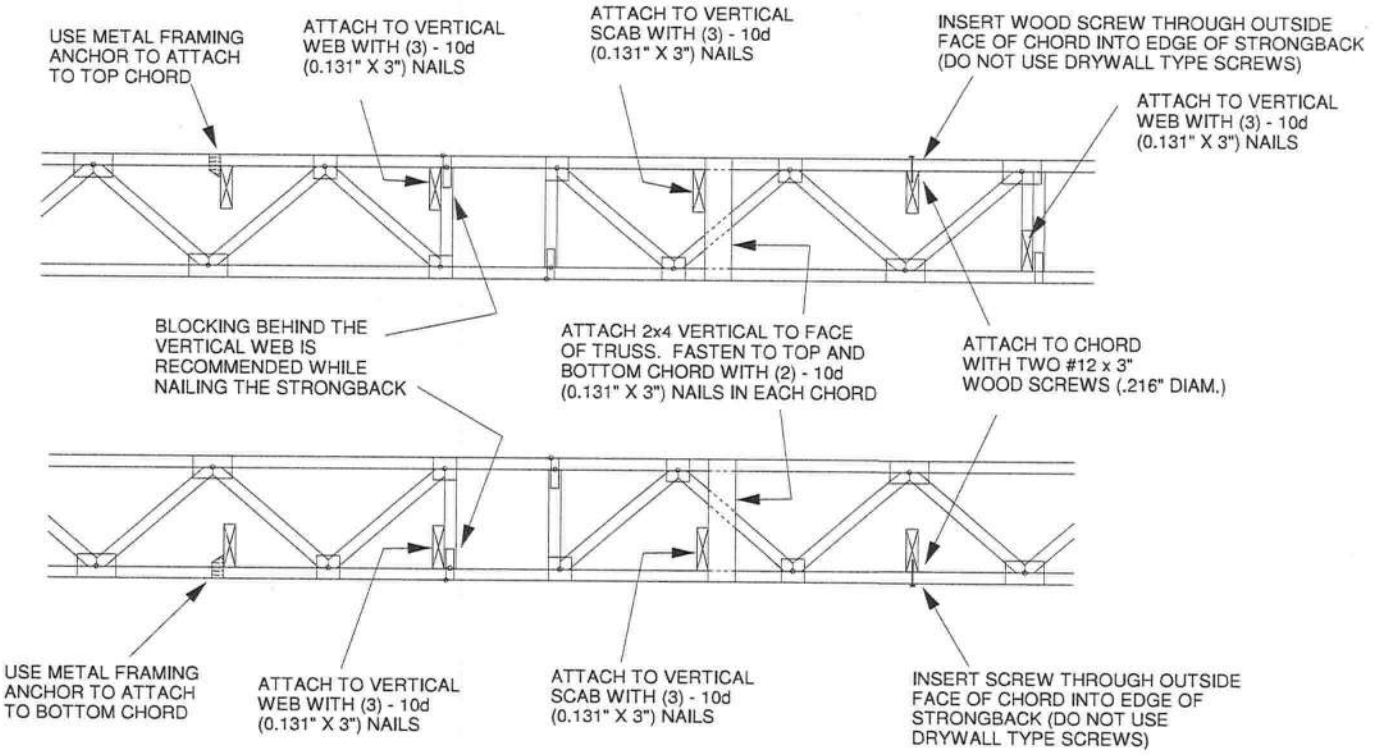
AUGUST 1, 2016	LATERAL BRACING RECOMMENDATIONS	MII-STRGBCK

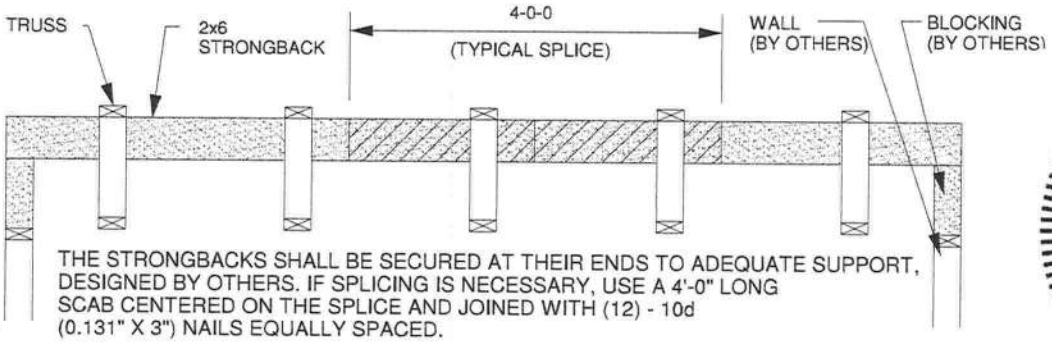
MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

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.





THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT, DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d (0.131" X 3") NAILS EQUALLY SPACED.

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)

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 12, 2018

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

Revised 7/1/18

Website: http://www.columbiacountyfla.com/BuildingandZoning.asp **GENERAL REQUIREMENTS:** **APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**				Items to Include- Each Box shall be Circled as Applicable		
				Select From Drop down		
1	Two (2) complete sets of plans containing the following:			✔		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✔		
3	**Condition space (Sq. Ft.)**	2597	**Total (Sq. Ft.) under roof** 3606	Yes	No	NA

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

Site Plan information including:

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

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

GENERAL REQUIREMENTS: **APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**		Items to Include- Each Box shall be Circled as Applicable		
8	**Plans or specifications must show compliance with FBCR Chapter 3**	Yes	No	NA
		Select From Drop down		
9	Basic wind speed (3-second gust), miles per hour	Yes		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	Yes		
11	Wind importance factor and nature of occupancy	Yes		
12	The applicable internal pressure coefficient, Components and Cladding	Yes		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	Yes		

Elevations Drawing including:

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

Floor Plan Including:

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

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

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

FBCR 403: Foundation Plans

Select From Drop down

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

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

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

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

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

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

Floor Framing System: First and/or second story

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

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

Select from Drop down

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

FBCR :ROOF SYSTEMS:

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

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Chapter 11 Energy Efficiency Code for Residential Building

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable *Select from Drop Down*		
74	Show the insulation R value for the following areas of the structure	Yes		
75	Attic space	Yes		
76	Exterior wall cavity	Yes		
77	Crawl space	NA		

HVAC information

78	Submit two copies of a Manual J sizing equipment or equivalent computation study	Yes		
79	Exhaust fans shown in bathrooms **Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required**	Yes		
80	Show clothes dryer route and total run of exhaust duct	No		

Plumbing Fixture layout shown

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

Private Potable Water

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

Electrical layout shown including

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

Notice Of Commencement:

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

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

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

Select from Drop down

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

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

Disclosure Statement for Owner Builders:

If you as the Applicant will be acting as your own contractor or owner/builder under section 489.103(7) Florida Statutes, you must submit the required notarized Owner Builder Disclosure Statement form.

****This form can be printed from the Columbia County Website on the Building and Zoning page under Documents. Web address is - http://www.columbiacountyfla.com/BuildingandZoning.asp**

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

Notification:

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Therma-Tru Corporation		FL5891-R6
B. SLIDING			
C. SECTIONAL/ROLL UP	C.H.I.	2250 model	FL15012-R6
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	Eagle View	8500 Series SH	FL16625-R3
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Certainteed	30 yr Architectural	FL5444-R14
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

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

Verified by PDFfiller 05/13/2019

Blake N Lunde II 5/13/19

Contractor OR Agent Signature Date

NOTES: _____

Columbia County Property Appraiser
Jeff Hampton

2023 Working Values
updated: 6/22/2023

Parcel: << **23-4S-16-03099-117 (14877)** >>

Owner & Property Info

Result: 1 of 1

Owner	**ADAMS ALFONSO** **ADAMS KATHRYN M** 157 SW STONEHENGE LANE LAKE CITY, FL 32024		
Site	157 SW STONEHENGE LN, LAKE CITY		
Description*	LOT 17 STONEHENGE S/D WD 1072-1603.WD 1074-422, WD 1182-2346		
Area	0.54 AC	S/T/R	23-4S-16
Use Code**	SINGLE FAMILY (0100)	Tax District	2

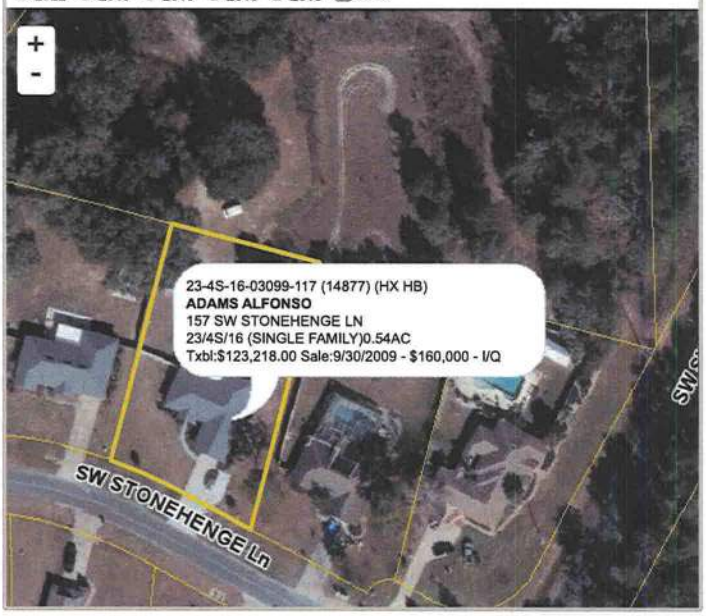
*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2022 Certified Values		2023 Working Values	
Mkt Land	$22,000	Mkt Land	$28,000
Ag Land	$0	Ag Land	$0
Building	$212,175	Building	$242,353
XFOB	$3,793	XFOB	$3,793
Just	$237,968	Just	$274,146
Class	$0	Class	$0
Appraised	$237,968	Appraised	$274,146
SOH Cap [?]	$69,795	SOH Cap [?]	$100,928
Assessed	$168,173	Assessed	$173,218
Exempt	HX HB $50,000	Exempt	HX HB $50,000
Total Taxable	county:$118,173 city:$0 other:$0 school:$143,173	Total Taxable	county:$123,218 city:$0 other:$0 school:$148,218

Aerial Viewer Pictometery Google Maps

2022 2019 2016 2013 2010 Sales



Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Qualification (Codes)	RCode
9/30/2009	$160,000	1182/2346	WD	I	Q	01
2/10/2006	$217,000	1074/0422	WD	I	Q	
1/26/2006	$179,900	1072/1603	WD	I	U	08

Building Characteristics

Bldg Sketch	Description*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	SINGLE FAM (0100)	2006	2450	3116	$242,353

*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
0166	CONC,PAVMT	2006	$2,693.00	1077.00	0 x 0
0070	CARPORT UF	2014	$700.00	1.00	0 x 0
0296	SHED METAL	2014	$200.00	1.00	0 x 0
0169	FENCE/WOOD	2014	$200.00	1.00	0 x 0

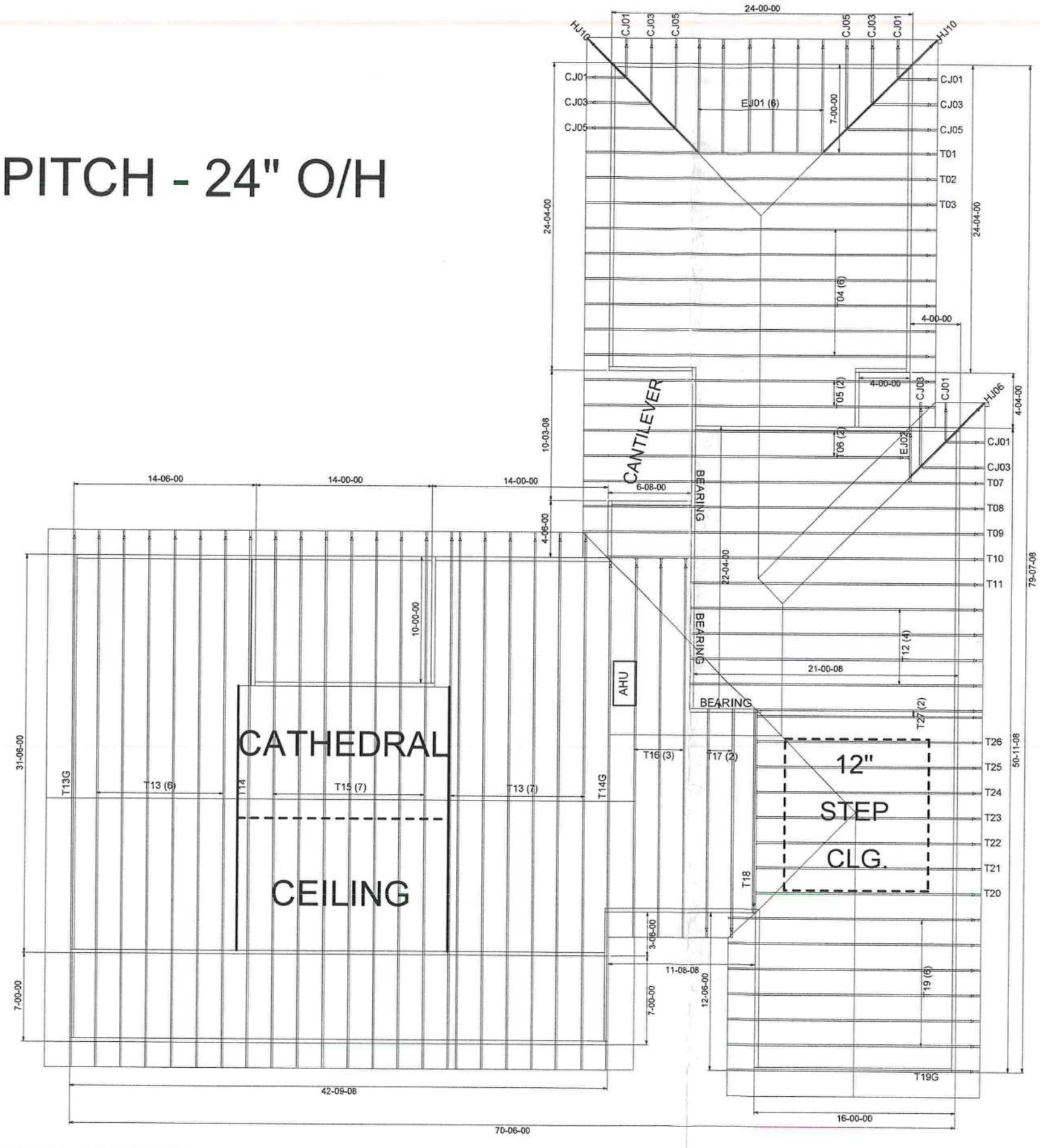
Land Breakdown

Code	Desc	Units	Adjustments	Eff Rate	Land Value
0100	SFR (MKT)	1.000 LT (0.540 AC)	1.0000/1.0000 1.0000/ /	$28,000 /LT	$28,000

Search Result: 1 of 1

by: GrizzlyLogic.com

6/12 PITCH - 24" O/H



BEARING HEIGHT SCHEDULE

	9' 1-1/8"

NOTES:

1.) REFER TO HIB 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 V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Tampa
PHONE: 813-621-9831 FAX: 813-628-8956

Freeport
PHONE: 850-835-4541 FAX: 850-835-6835

BUILDER: BLAKE CONST.		
LEGAL ADDRESS: MARTINO RES.		
MODEL:		Revision: Rev. By:
DATE: 4-27-19	DRAWN BY: KLH	Original Reference #: 1755797
1st Level roof #:	2nd Level roof #:	Roof roof #: 1755797

FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4