DATE 03/15/2018

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000036451

APPLICANT CLINTON CLARK PHONE 352-316-2563

ADDRESS 20523 NW 257TH TERRACE HIGH SPRINGS FL 32643

OWNER DAVID & JOY & CLINTON CLARK PHONE 352-316-2563

ADDRESS 1047 SE OLD BELLAMY RD HIGH SPRINGS FL 32643

CONTRACTOR DAVID CLARK PHONE 352-316-2563

LOCATION OF PROPERTY 441-S TO OLD BELLAMY RD,,TL AND IT'S 9/10 OF A MILE ON L @ DRIVEWAY.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 108200.00

HEATED FLOOR AREA 2164.00 TOTAL AREA 6612.00 HEIGHT ____ STORIES ____

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5'1 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT ____

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

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

PARCEL ID 03-7S-17-09880-001 SUBDIVISION ____

LOT ____ BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 20.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CBC1261505	

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident	Time/STUP No.
EXISTING	18-0083	LC	TC	N	

COMMENTS: 1 FOOT ABOVE ROAD.

Check # or Cash 1010

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power ____ date/app. by

Foundation ____ 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 $ 545.00 CERTIFICATION FEE $ 33.06 SURCHARGE FEE $ 33.06

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

PLAN REVIEW FEE $ 136.00 DP & FLOOD ZONE FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 822.12

INSPECTORS OFFICE ____ CLERKS OFFICE ____

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

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

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

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

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

Columbia County New Building Permit Application

For Office Use Only Application # 1802-48 Date Received 2-14-18 By LH Permit # 36451

Zoning Official LC Date 2-21-18 Flood Zone X Land Use A Zoning A3

FEMA Map # _____ Elevation _____ MFE 1' above road River _____ Plans Examiner T.C. Date 2-21-18

Comments _____

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

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

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

☑ Sub - Clark - 1858 ☐ ~~Signature - Coleman~~

Septic Permit No. 18-0083 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Clinton Clark Phone (352)318-3945

Address 20523 NW 257th Terr. High Springs, Fl 32643

Owners Name David D Clark, Joy E Clark, Clinton D Clark Phone (352)316-2563

911 Address 1047 SE Old Bellamy Rd High Springs, Fl 32643

Contractors Name River Rise Construction LLC / Clinton Clark Phone (352)318-3945

Address 1047 SE Old Bellamy Rd High Springs, Fl 32643

Contractor Email River Rise Construction@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address David Joy and Clinton Clark 20523 NW 257 Terr. High Springs, Fl 32643

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Schafer Engineering LLC 14705 Main St. Alachua, Fl 32615

Mortgage Lenders Name & Address _____

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

Property ID Number 09880-001 03-7S-17- Estimated Construction Cost 125000

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

Driving Directions from a Major Road Turn East off US Highway 441 onto Old Bellamy Rd, Drive 0.9 Miles and turn left into the driveway

Construction of Agriculture Barn with Appartment ____ Commercial OR X Residential

Proposed Use/Occupancy House Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? NO If Yes, blueprints included N/A Or Explain N/A

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 992' Side 140' Side 260' Rear 670'

Number of Stories 2 Heated Floor Area 2164 Total Floor Area 6612 Acreage 20

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

Sent email 2.21.18

$822.12

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 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.

David Clark — **Print Owners Name**

Owners Signature FL DL C462 1646 3 4460

****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 CBC1261505

Columbia County Competency Card Number 001858

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 13 **day of** Feb **20**18.

Personally known ___ **or Produced Identification** FL DL C462 1049 3 2990

State of Florida Notary Signature (For the Contractor)

SEAL:

LUIS ALEJANDRO VERA
MY COMMISSION # FF 917424
EXPIRES: September 10, 2019
Bonded Thru Notary Public Underwriters

36451

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

R09880-001

Clerk's Office Stamp

Inst: 201812006112 Date: 03/27/2018 Time: 2:50PM
Page 1 of 1 B: 1356 P: 1871, P.DeWitt Cason, Clerk of Court
Columbia, County, By: PT
Deputy Clerk

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

1. Description of property *(legal description)*: ~~attached~~ NE Cor of SE¼ and Run S 1800.87 FT to N R/W line of SW Old Bellamy Rd; N 74 DG W Along N R/W 521.14 FT, N 1668.02 FT to N Line of SE¼
   a) Street *(job)* Address: 1047 SE Old Bellamy Rd High Springs, FL 32643
2. General description of improvements: House
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: David Joy and Clinton Clark 20523 NW 257th Terr. High Springs, FL 32643
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property _____
4. Contractor Information
   a) Name and address: River Rise Construction LLC 1047 SE Old Bellamy Rd High Springs, FL 326
   b) Telephone No.: (352)318-3945
5. Surety Information (if applicable, a copy of the payment bond is attached):
   a) Name and address: _____
   b) Amount of Bond: _____
   c) Telephone No.: _____
6. Lender
   a) Name and address: _____
   b) Phone No. _____
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
   a) Name and address: _____
   b) Telephone No.: _____
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name: _____ OF _____
   b) Telephone No.: _____
9. Expiration date of Notice of Commencement **(the expiration date will be 1 year from the date of recording unless a different date is specified):** _____

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. David Clark
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

David Clark Owner
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 27th day of March, 2018, by:

David Clark as Owner for of property noted above.
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known ✓ OR Produced Identification ___ Type _____

Notary Signature _____ Notary Stamp or Seal:

LYNN J. WRIGHT
MY COMMISSION # GG 125590
EXPIRES: August 21, 2021
Bonded Thru Notary Public Underwriters

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1802-48 JOB NAME Clark

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.

ELECTRICAL ☑ CC# 435	Print Name David Clark Signature [signature] Company Name: Clark Electric INC. License #: EC13003577 Phone #: (352)318-3945	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C A ☑ CC# 768	Print Name Robert Bounds Signature [signature] Company Name: Bounds Heating and Air, INC License #: CAC057642 Phone #: (352)472-2761	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
* **PLUMBING/ GAS** ☑ CC# 767	Print Name Paul Kevin Coleman Signature VOC Attached Company Name: Coleman's Plumbing, INC License #: CFC1425624 Phone #: (352) 472-4114	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐ CC# 1858	Print Name Clinton Clark Signature [signature] Company Name: River Rise Construction LLC License #: CBC1261505 Phone #: (352) 318-3945	Need ☐ Lic ☑ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

Columbia County Property Appraiser

updated: 2/1/2018

2017 Tax Year

Tax Collector | Tax Estimator | Property Card | Parcel List Generator

Parcel: 03-7S-17-09880-001

<< Next Lower Parcel | Next Higher Parcel >>

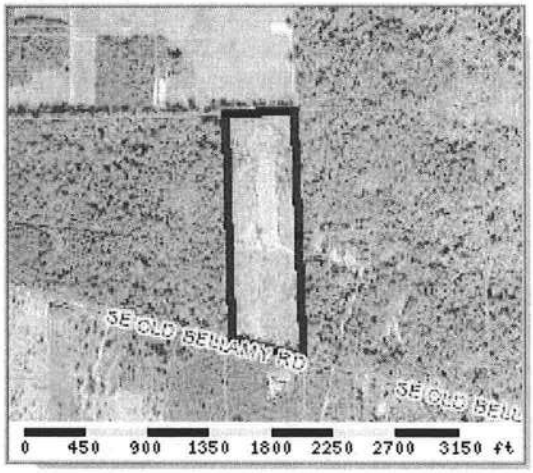
2017 TRIM (pdf) | Interactive GIS Map | Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	CLARK DAVID D & JOY E &		
Mailing Address	CLINTON D CLARK 20523 NW 257TH TERRACE HIGH SPRINGS, FL 32643		
Site Address	1047 SE OLD BELLAMY RD		
Use Desc. (code)	TIMBERLAND (005500)		
Tax District	3 (County)	**Neighborhood**	3717
Land Area	20.000 ACRES	**Market Area**	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		

BEG AT NE COR OF SE1/4 & RUN S 1800.87 FT TO N R/W LINE OF SW OLD BELLAMY RD, N 74 DG W ALONG N R/W 521.14 FT, N 1665.02 FT TO N LINE OF SE1/4, E 502.73 FT TO POB. DC V SEABRANDT 1065-2309, WD 1065-2310, WD 1293-2252



Property & Assessment Values

2017 Certified Values		
Mkt Land Value	cnt: (1)	$1,250.00
Ag Land Value	cnt: (1)	$7,360.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (1)	$1,000.00
Total Appraised Value		$9,610.00
Just Value		$88,780.00
Class Value		$9,610.00
Assessed Value		$9,610.00
Exempt Value		$0.00
Total Taxable Value		Cnty: $9,610 Other: $9,610 | Schl: $9,610

2018 Working Values (...Hide Values)		
Mkt Land Value	cnt: (1)	$1,250.00
Ag Land Value	cnt: (1)	$7,360.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (1)	$1,000.00
Total Appraised Value		$9,610.00
Just Value		$97,433.00
Class Value		$9,610.00
Assessed Value		$9,610.00
Exempt Value		$0.00
Total Taxable Value		Cnty: $9,610 Other: $9,610 | Schl: $9,610

NOTE: **2018 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.**

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
4/20/2015	1293/2252	WD	V	U	30	$120,000.00
11/15/2005	1065/2310	WD	V	Q		$200,000.00

Building Characteristics

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

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0070	CARPORT UF	0	$1,000.00	0000001.000	20 x 18 x 0	(000.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
005500	TIMBER 2 (AG)	20 AC	1.00/1.00/1.00/1.00	$368.00	$7,360.00
009910	MKT.VAL.AG (MKT)	20 AC	1.00/1.00/1.00/1.00	$0.00	$95,183.00
009946	WELL (MKT)	1 UT - (0000000.000AC)	1.00/1.00/1.00/1.00	$1,250.00	$1,250.00

Columbia County Property Appraiser updated: 2/1/2018

DISCLAIMER

This information was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

© Columbia County Property Appraiser | Jeff Hampton - Lake City, Florida 32055 | 386-758-1083 by: GrizzlyLogic.com

Rec 18.50
DOC 840.00
858.50

Prepared by and return to:
Kelley D. Jones
Attorney at Law
Kelley D. Jones, P.A.
1701 NW 80th Boulevard Ste 102
Gainesville, FL 32606
352-377-2004
File Number: **15-058**

Inst:201512007768 Date:5/1/2015 Time:11:54 AM
Doc Stamp-Deed:840.00
DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1293 P:2252

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this **20th** day of **April, 2015** between **Ronald W. Clark and Lori L. Clark, husband and wife** whose post office address is **15816 N.W. CR 1491, Alachua, FL 32615**, grantor, and **David D. Clark and Joy E. Clark, husband and wife and Clinton D. Clark** whose post office address is **20523 N.W. 257th Terrace, High Springs, FL 32643**, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Columbia County, Florida** to-wit:

Begin at the NE corner or the SE 1/4 of Section 3, Township 7 South, Range 17 East, Columbia County, Florida, and run thence S 00°09'59" E, along the East line of said Section 3, 1800.87 feet to the northerly right of way line of SW Old Bellamy Road; thence N 74°53'26" W, along said northerly right of way line, 521.14 feet; thence N 00°09'59" W, 1665.02 feet to the North line of said SE 1/4; thence S 89°59'59" E, along said North line of SE 1/4, 502.73 feet to the Point of Beginning.

Parcel Identification Number: R09880-001

Subject to taxes for 2015 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

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 grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to **December 31, 2014.**

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

District No. 1 - Ronald Williams
District No. 2 - Rusty DePratter
District No. 3 - Bucky Nash
District No. 4 - Everett Phillips
District No. 5 - Tim Murphy

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:	**2/12/2018 3:40:22 PM**
Address:	**1047 SE OLD BELLAMY Rd**
City:	**HIGH SPRINGS**
State:	**FL**
Zip Code	**32643**
Parcel ID	**09880-001**

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

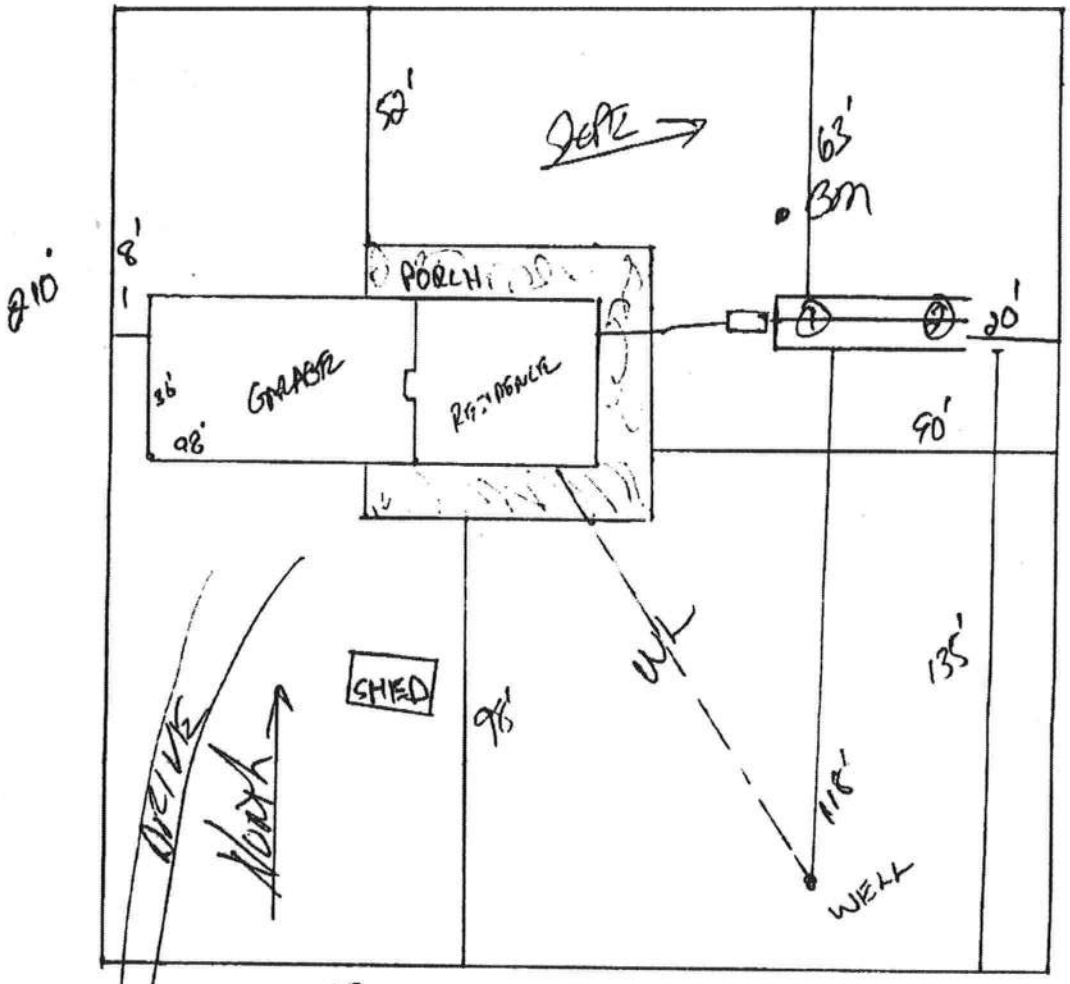
263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com

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

Permit Application Number 18-0083

CLARK ---------- PART II - SITEPLAN ---------- 210'

Scale: 1 inch = 40 feet.



Notes: 1 of 20 Acres See Attached

Site Plan submitted by: Rocky D Ford MASTER CONTRACTOR

Plan Approved X Not Approved ____ Date 2-22-19

By Sallie Ford Env Health Director Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

1802-48

PERMIT #: 12-SC-1819861
APPLICATION #: AP1326500
DATE PAID: 2-1-18
FEE PAID: 310.00
RECEIPT #: 1326500
DOCUMENT #: PR1092594

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: DAVID**18-0083 CLARK

PROPERTY ADDRESS: 1047 SE OLD BELLAMY Rd High Springs, FL 32643

LOT: _____ BLOCK: _____ SUBDIVISION: _____

PROPERTY ID #: 09880-001 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [900] GALLONS / GPD septic tank CAPACITY
A [ ] GALLONS / GPD N/A CAPACITY
N [ ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [ ] GALLONS DOSING TANK CAPACITY [ ]GALLONS @[ ]DOSES PER 24 HRS #Pumps [ ]

D [375] SQUARE FEET drainfield SYSTEM
R [ ] SQUARE FEET N/A SYSTEM
A TYPE SYSTEM: [x] STANDARD [ ] FILLED [ ] MOUND [ ] _____
I CONFIGURATION: [x] TRENCH [ ] BED [ ] _____
N
F LOCATION OF BENCHMARK: Nail in oak tree north of system site
I ELEVATION OF PROPOSED SYSTEM SITE [12.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [42.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [ ] INCHES

O T H E R

The system is sized for 2 bedrooms with a maximum occupancy of 4 persons (2 per bedroom), for a total estimated flow of 300 gpd.
The licensed contractor installing the system is responsible for installing the minimum category of tank in accordance with s. 64E-6.013(3)(f), FAC.

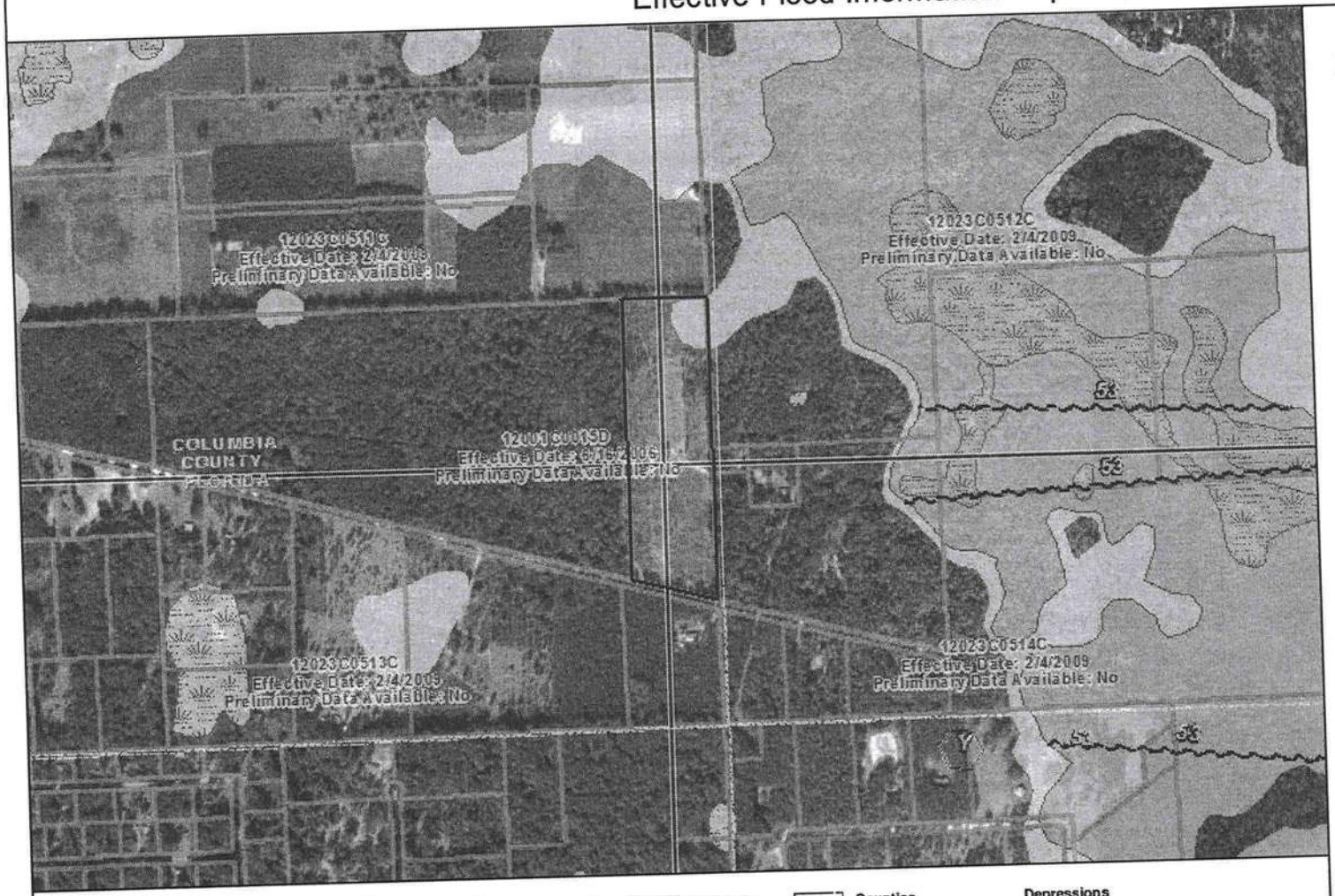
SPECIFICATIONS BY: Rocky Ford TITLE: M Contractor

APPROVED BY: Sallie Ford Sallie A Ford TITLE: Environmental Health Director Columbia CHD

DATE ISSUED: 02/22/2018 EXPIRATION DATE: 08/07/2019

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64E-6.003, FAC

Suwannee River Water Management District
Effective Flood Information Report



LOCATION

Date: 1-22-2018

Parcel: 03-7S-17-09880-001

County: COLUMBIA

STR: S003 T07 R17

Columbia Flood Hazard Areas Status
Effective: 02/04/2009

FLOOD INFORMATION

Special Flood Hazard Area? (SFHA): No

Flood Zone(s): X 0.2 PCT

Floodway: No

1% Annual Chance Flood Elev (BFE): Not Applicable

10% Annual Chance Flood Elev: Not Applicable

50% Annual Chance Flood Elev: Not Applicable

Note: Elevations are based on NAVD88

FIRM Panel(s): 12023C0511C, 12023C0514C, 12023C0513C, 12023C0512C

The Federal Emergency Management Agency (FEMA) maintains information about map features, such as street locations and names, in or near designated flood hazard areas. The information herein represents the best available data as of the effective date shown. The applicable Flood Insurance Study and a Digital Flood Insurance Rate Map is available online (http://www.srwmdfloodreport.com). To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to also consult the FEMA Map Service Center at 1-800-358-9616 (http://www.msc.fema.gov) for information on available products associated with this FIRM panel. Available products from the Map Service Center may include previously issued Letters of Map Change.

Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period on preliminary maps, or through the Letter of Map Change process for effective maps.

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1802-48 JOB NAME Clark

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.

ELECTRICAL ☑ CC# 435	Print Name David Clark Signature [signature] Company Name: Clark Electric INC. License #: EC13003577 Phone #: (352)318-3945	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C A ☑ CC# 768	Print Name Robert Bounds Signature [signature] Company Name: Bounds Heating and Air, INC License #: CAC057642 Phone #: (352)472-2761	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☑ CC# 767	Print Name Paul Kevin Coleman Signature [signature] Company Name: Coleman's Plumbing, INC License #: CFC1425624 Phone #: (352) 472-4114	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☑ CC# 1858	Print Name Clinton Clark Signature [signature] Company Name: River Rise Construction LLC License #: CBC1261505 Phone #: (352) 318-3945	Need ☐ Lic ☑ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. 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.

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 12/2016

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
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.) 2764 Total (Sq. Ft.) under roof 6612	YES / NO / N/A

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 R101.2.1

Site Plan information including:

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

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

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

Elevations Drawing including:

14	All side views of the structure	- ✓
15	Roof pitch	- ✓
16	Overhang dimensions and detail with attic ventilation	- ✓
17	Location, size and height above roof of chimneys	-
18	Location and size of skylights with Florida Product Approval	-
18	Number of stories	- 1 ✓
20A	Building height from the established grade to the roofs highest peak	- ✓

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- ✓
21	Raised floor surfaces located more than 30 inches above the floor or grade	-
22	All exterior and interior shear walls indicated	- ✓
23	Shear wall opening shown (Windows, Doors and Garage doors)	- ✓
24	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.	- ✓
25	Safety glazing of glass where needed	- ✓
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	-
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	- ✓
28	Identify accessibility of bathroom (see FBCR SECTION 320)	- ✓

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

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

YES / NO / N/A

FBCR 403: Foundation Plans

Select From the Dropbox

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

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

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

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

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

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

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	- ✓

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

YES / NO / N/A

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- ✓
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	- ✓
54	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	- ✓
55	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	- ✓
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	- ✓
57	Indicate where pressure treated wood will be placed	- ✓
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	- ✓
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- ✓

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	- ✓
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	- ✓
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	- ✓
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	- ✓
64	Provide dead load rating of trusses	- ✓

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 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.*

YES / NO / N/A

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
73	Show the insulation R value for the following areas of the structure	- ✓
74	Attic space	- ✓
75	Exterior wall cavity	- ✓
76	Crawl space	-

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	- ✓
78	Exhaust fans shown in bathrooms **Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required**	- ✓
79	Show clothes dryer route and total run of exhaust duct	- ✓

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	- ✓
81	Show the location of water heater	- ✓

Private Potable Water

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

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- ✓
86	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**	- ✓
87	Show the location of smoke detectors & Carbon monoxide detectors	- ✓
88	Show service panel, sub-panel, location(s) and total ampere ratings	- ✓
89	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	- ✓
90	Appliances and HVAC equipment and disconnects	- ✓
91	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.	- ✓

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**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.	~~NO~~		
93	**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	~~NO~~	Yes	
94	**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.	~~NO~~		N/A
***	**BELOW ITEMS ONLY NEEDED AFTER ZONING APPROVAL HAS GIVEN.**	****	***	***
95	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	~~NO~~	Yes	
96	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031	NO		N/A
97	**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	NO		
98	**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.			
99	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**			
100	**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.	NO		
101	**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.	~~NO~~	Yes	

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

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 preformed.

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

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 officia is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension sh 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 pern 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 tl 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 becaus 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 worl 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.

product approval sheet			
category	manufaturer	product description	approval #
exterior doors			
swing door	plastpro	series n fiberglass i/o swing 3/0	fl-15213.14
	plastpro	series n fiberglass i/o swing 6/0	fl-15213.17
	pgt	sliding	FL- 21179.1
garage door	raynor	16/0x7/0	fl-15212
WINDOWS	YKK windows	SINGLE HUNG	fl-9965-R3
		Double HUNG	fl-9966-R3
		Casement	fl-9968-R4
		picture	fl-11303-R2
ROOFING			
SHINGLES	gaf	timberline raised profile	fl-10124-r17
Soffitt	Kaycan	Aluminum Soffit	FL-16503.1
Underlayment	tamco	30# felt	fl-12328
STRUCTURAL COMP			
WOOD CONNECTORS	SIMPSON	H16, H2.5A, H10, LSTA24, heta16	FL-11470.2

Schafer Engineering LLC

14705 Main St. Alachua FL 32615

E

Prepared for:

DAVID & JOY CLARK RESIDENCE
1047 SE OLD BELLAMY ROAD
COLUMBIA COUNTY, FLORIDA

By:

Schafer Engineering, LLC

386-462-1340

NO COPIES ARE TO BE PERMITTED

SCHAFER ENGINEERING, LLC

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

Trusses: Pre-engineered, pre-fabricated with the manufacturer's required bracing system installed.

Roof Sheathing: Type: OSB Size: 7/16" Fastener type nails: 8d / .113 Ring Shank

Interior zone spacing: Interior: 6" Periphery: 4"

Edge and end zone spacing: Interior: 6" Periphery: 4"

Double Top Plate: Type: Spruce Grade: #1 #2 Size: 2 x 6 Nail Spacing: 8" o.c.

Stud Type: Spruce Grade: #1 #2 Size: 2 x 6

Interior stud spacing: 16" End stud spacing: 16"

Required Shear Wall Siding: Type: OSB Thickness: 7/16"

58 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 3"

75 ft Long: Fastener 8d/131 Spacing: Int: 8 Edge: 3"

Allowable Unit Shear on Shear Walls: 418 pounds per linear foot

Allowable Unit Shear Transferred from Diaphragm: Trans: 310 Long: 91

Wall Tension Transferred by: Siding Nails: 8d/131 @ 3" O.C. Edges

Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"

Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"

Anchor Bolts @ 48" o.c. Model: A307 Loc. from corner: 8"

Type of Foundation: (1) - #5 rebar continuous required in bond beam.
Floor Slab: 4" Cmu size: 8" x 16" Height: 32" Rein.: #5 at 72" o.c.

Monolithic Footing: Depth: 20" Bottom Width: 16 Rein.: 3 #5 rebars

Stemwall Footing: Width: 20 Depth: 10 Rein.: 3 #5 rebar

Interior Footings 20" Wide X 10" Deep with 3-#5 rebar continuous

Porch Columns: 6 X 6 X 9' syp #2 pt @ 12'-0" max. spacing Column Fasteners: Simpson PC66 \ CB66

Special Comments: Porch headers to be 3 ply 2 x 12 #2 syp.

Notes:
1. Balloon frame all gable ends unless accompanied by gable end detail
2. All walls to be nailed with same nailing pattern as the shear walls.
3. This wind load is not valid without a raised, embossed seal. (NO COPIES).
4. 1500 psf soil bearing pressure minimum.
5. Fiber mesh or WWM may be used in concrete slab. All steel must be grade 40 min.
6. Trusses must be installed and anchored in accordance to the truss engineering.
7. All headers spanning 12' and over must be pre-engineered.
8. This is a windload only. Not a structural analysis. Schafer Engineering strongly recommends always having a structural analysis.
9. The foundatioin is for minimum design use, and may be increased.
10. Wind load is for one use only \ FBC-2017 \ No copies permitted
11. Install anchor bolts at 32" o.c., & Simpson SP1 at bottom plate and Simpson SP2 at top plate or equal for all interior bearing walls.
12. Contractor may use 2x4 walls in lieu of 2x6 walls.
13. Truss company to use all exterior porch walls for bearing when possible.

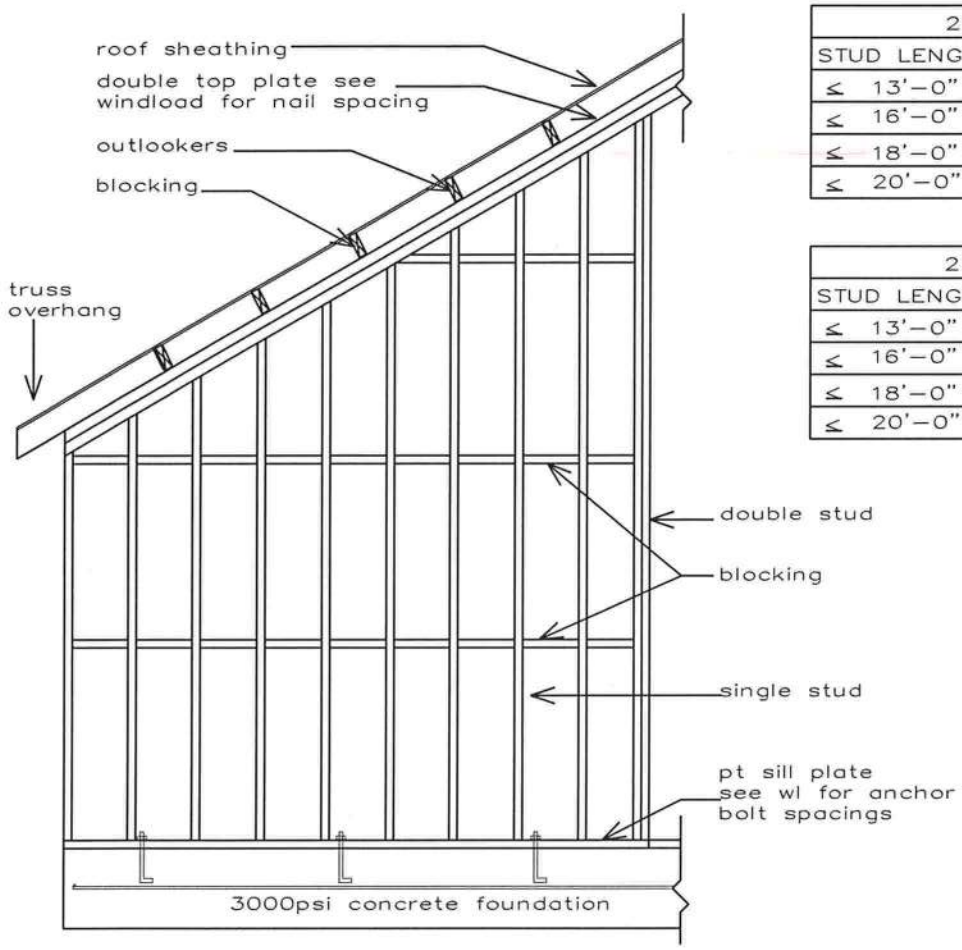
1-15-18

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

SCHAFER ENGINEERING, LLC ca 9312

7104 NW 42ND LANE \ GAINESVILLE FL. 32606

PHONE: 386-462-1340



2 X 4 FRAMING		
STUD LENGTH	SIZE	GRADE
≤ 13'-0"	SINGLE 2 X 4	SPF
≤ 16'-0"	DOUBLE 2 X 4	SPF
≤ 18'-0"	TRIPLE 2 X 4	SPF
≤ 20'-0"	TRIPLE 2 X 4	SYP

2 X 6 FRAMING		
STUD LENGTH	SIZE	GRADE
≤ 13'-0"	SINGLE 2 X 6	SPF
≤ 16'-0"	SINGLE 2 X 6	SPF
≤ 18'-0"	DOUBLE 2 X 6	SPF
≤ 20'-0"	DOUBLE 2 X 6	SYP

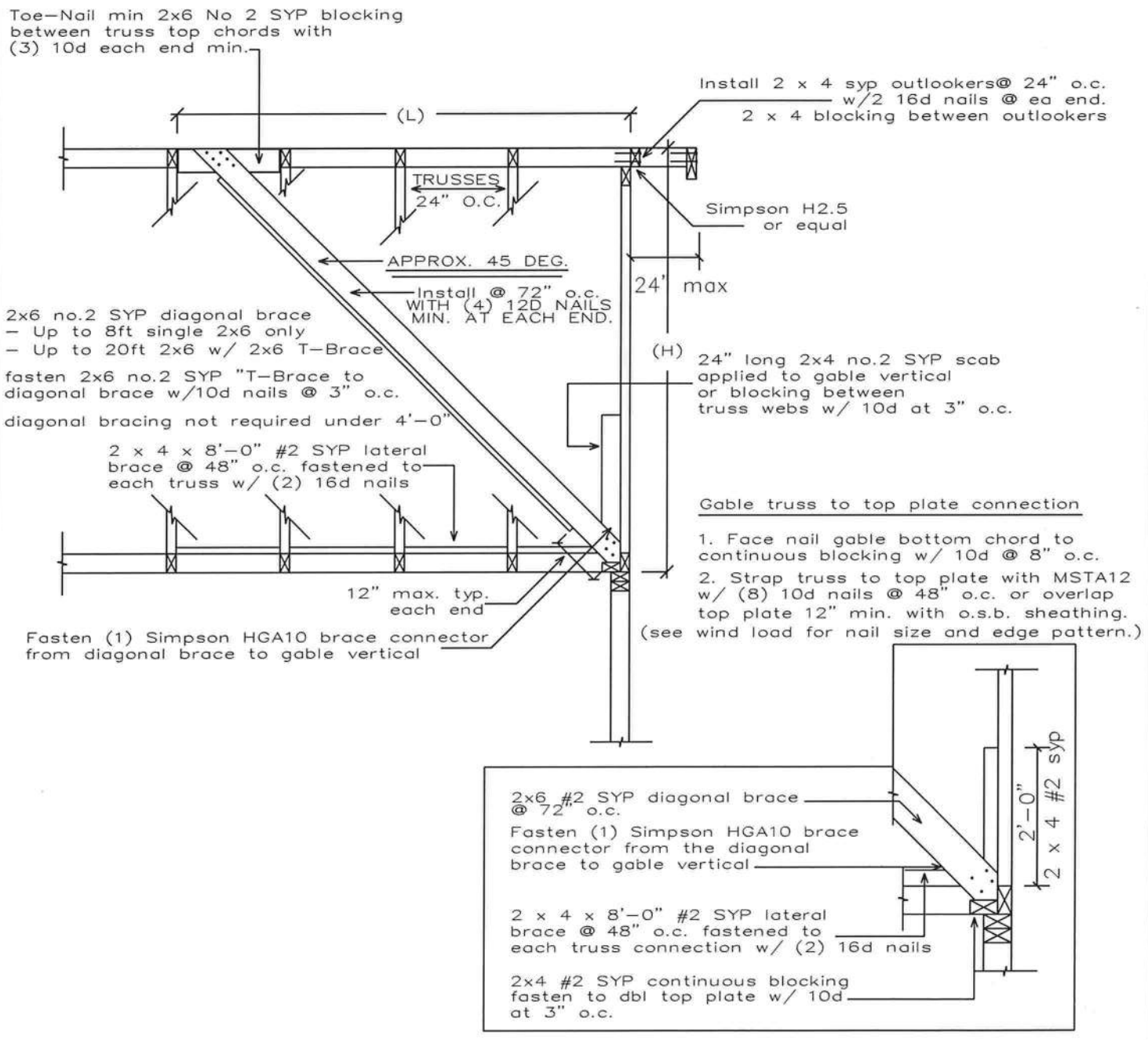
BALLOON FRAMING MINIMUM REQUIREMENTS

NOTES:
1. STUD SPACING TO BE 16" OC MAXIMUM
2. BLOCKING IS REQUIRED @ 48" OC MAXIMUM THROUGHOUT
3. INSTALL BLOCKING WITH (2) – 16D EACH END OF BLOCKING
4. INSTALL WALL SHEATHING TO STUDS AND BLOCKING AS PER WIND LOAD
5. STUDS ARE TO BE FULL LENGTH WITH NO SPLICES
6. STUD LENGTH GREATER THAN 20'-0" REQUIRE FURTHER ENGINEERING
7. USE EITHER 2 X 4 OR 2 X 6 SPECIFIED IN CHARTS ABOVE

1-15-18

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

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

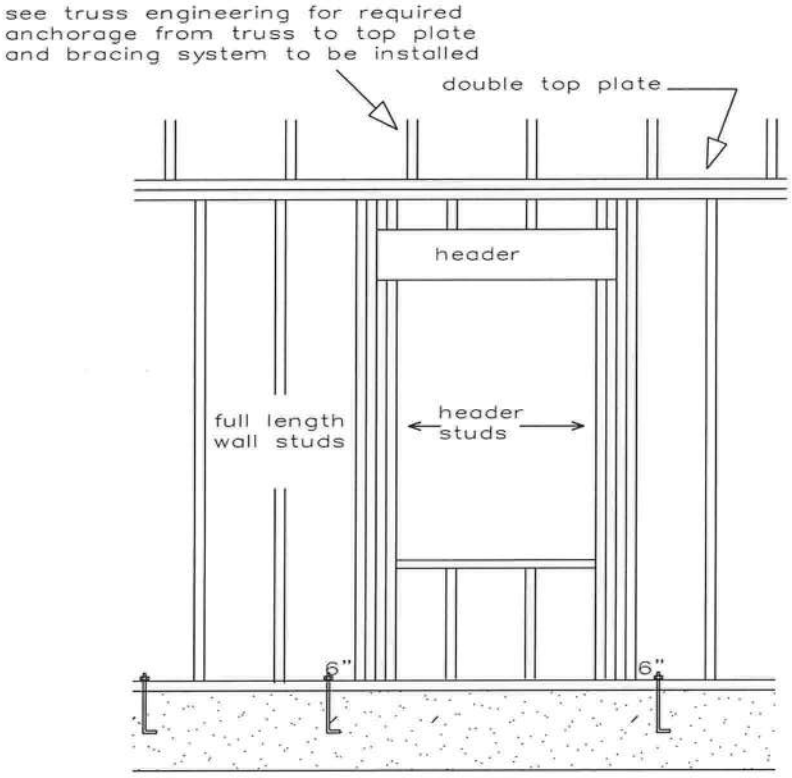


TYPICAL GABLE END BRACING

1-15-18

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

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



total each truss uplift on the header and divide by two for header and header stud anchorages

		Maximum Header Span (ft)					
		3'	6'	9'	12'	15'	18'
		Number of Header Studs Supporting End of Header					
		1	1	2	2	2	2
Unsupported Wall Height	Stud Spacing	Number of Full Length Studs at Each End of Header					
10'-0" or less	12"	2	2	3	3	3	3
	16"	2	2	3	3	3	3
	24"	1	2	2	2	2	2
Greater than 10'-0"	12"	2	2	3	4	5	5
	16"	2	2	3	3	4	4
	24"	1	2	2	2	3	3

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

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

TIE-DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	H3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3130

Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540

Two 12d common toenials are required per truss for each bearing point into top plate.
It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

1. Simpson or equivlent hardware may be used. For nailing into spruce members, multiply table values by .86
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values of any manufactures values.

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

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	135	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	22.6	Deg
Type of Roof	Gabled	
Eave Height (Eht)	16.00	ft
Ridge Height (RHt)	23.83	ft
Mean Roof Height (Ht)	19.91	ft
Width Perp. to Wind (B)	60.00	ft
Width Parallel to Wind (L)	110.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.33
Flexible Structure	No

Calculated Parameters		
Importance Factor	1	
Non-Hurricane, Hurricane (v=85-100 mph) & Alaska		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8880	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8589	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	198.00	ft/s
Vzm	bm*(zm/33)^Am*Vhref	87.00	ft/s
NF1	NatFreq*Lzm/Vzm	3.56	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0627	
Nh	4.6*NatFreq*Ht/Vzm	1.05	
Nb	4.6*NatFreq*B/Vzm	3.17	
Nd	15.4*NatFreq*Depth/Vzm	19.47	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5537	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.2656	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0500	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.7146	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.07	

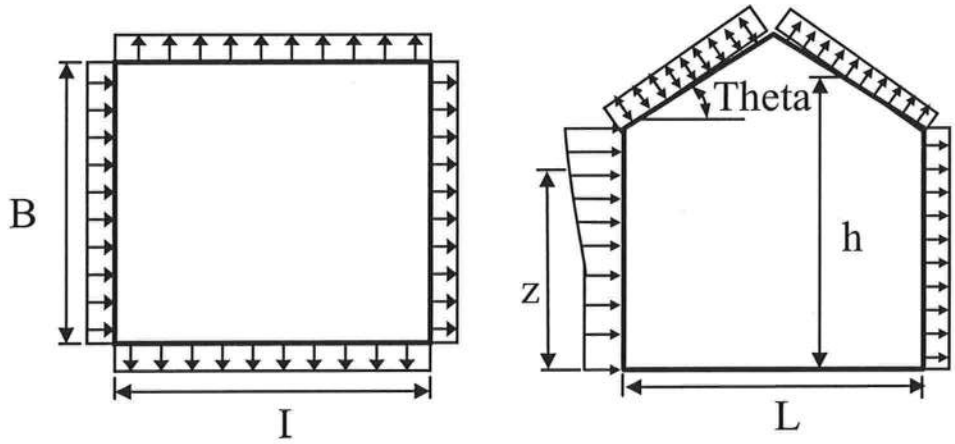
Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.86	Gust Factor (G)	0.86

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

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windward Wall*	
ft			1.00	lb/ft^2	+GCpi	-GCpi
23.83	0.70	1.00	1.00	32.69	17.23	27.69
20	0.70	1.00	1.00	32.69	17.23	27.69
19.91	0.70	1.00	1.00	32.69	17.23	27.69
16	0.70	1.00	1.00	32.69	17.23	27.69
15	0.70	1.00	1.00	32.69	17.23	27.69

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.62	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	29.07	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 60 ft wall)	-0.33	-13.56	-3.09
Leeward Walls (Wind Dir Parallel to 110 ft wall)	-0.50	-17.72	-7.25
Side Walls	-0.70	-22.71	-12.25
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	-0.25	-11.43	-0.96
Windward - Max Positive	0.25	1.06	11.53
Leeward Normal to Ridge	-0.60	-20.22	-9.75
Overhang Top	-0.25	-6.19	-6.19
Overhang Bottom	0.80	0.69	0.69
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 9.955 ft	-0.90	-27.71	-17.24
Dist from Windward Edge: 9.955 ft to 19.91 ft	-0.90	-27.71	-17.24
Dist from Windward Edge: 19.91 ft to 39.82 ft	-0.50	-17.72	-7.25
Dist from Windward Edge: > 39.82 ft	-0.30	-12.72	-2.26

* Horizontal distance from windward edge

Figure 6-4 - External Pressure Coefficients, GCpf

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

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.62
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	29.07

Case A						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	0.54	0.18	-0.18	32.69	11.70	23.46
2	-0.46	0.18	-0.18	32.69	-20.79	-9.02
3	-0.47	0.18	-0.18	32.69	-21.15	-9.38
4	-0.41	0.18	-0.18	32.69	-19.43	-7.66
5	0.00	0.18	-0.18	32.69	-5.88	5.88
6	0.00	0.18	-0.18	32.69	-5.88	5.88
1E	0.77	0.18	-0.18	32.69	19.33	31.10
2E	-0.72	0.18	-0.18	32.69	-29.47	-17.70
3E	-0.65	0.18	-0.18	32.69	-27.08	-15.31
4E	-0.60	0.18	-0.18	32.69	-25.44	-13.68
5E	0.00	0.18	-0.18	32.69	-5.88	5.88
6E	0.00	0.18	-0.18	32.69	-5.88	5.88

* p = qh * (GCpf - GCpi)

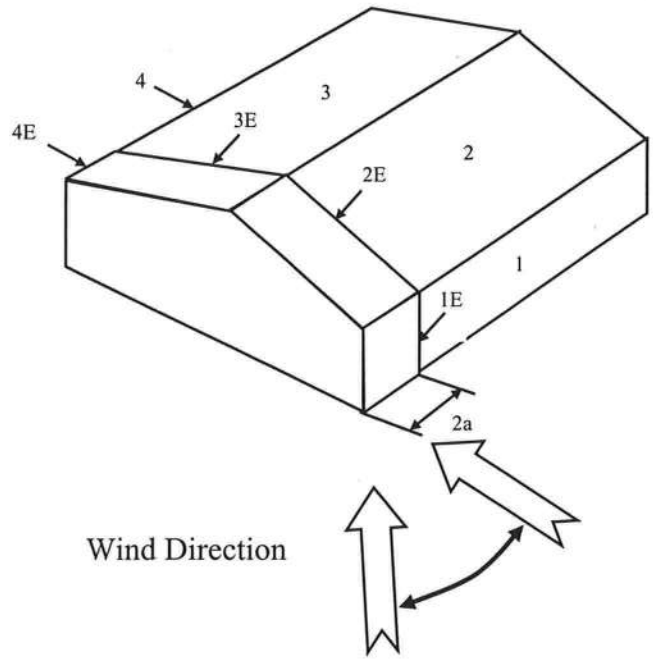


Figure 6-4 - External Pressure Coefficients, GCpf

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

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.62
Kht =	Topographic factor (Fig 6-2)	=	1.00

Qh = 0.00256*(V)^2*ImpFac*Kh*Kht*Kd = 29.07

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	32.69	-20.59	-8.83
2	-0.69	0.18	-0.18	32.69	-28.44	-16.67
3	-0.37	0.18	-0.18	32.69	-17.98	-6.21
4	-0.45	0.18	-0.18	32.69	-20.59	-8.83
5	0.40	0.18	-0.18	32.69	7.19	18.96
6	-0.29	0.18	-0.18	32.69	-15.36	-3.60
1E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
2E	-1.07	0.18	-0.18	32.69	-40.86	-29.09
3E	-0.53	0.18	-0.18	32.69	-23.21	-11.44
4E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
5E	0.61	0.18	-0.18	32.69	14.06	25.82
6E	-0.43	0.18	-0.18	32.69	-19.94	-8.17

* p = qh * (GCpf - GCpi)

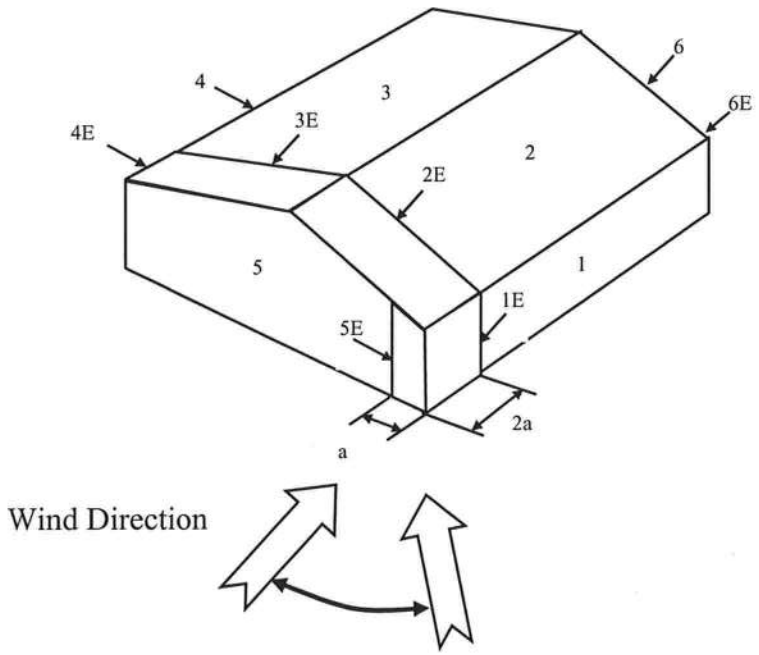
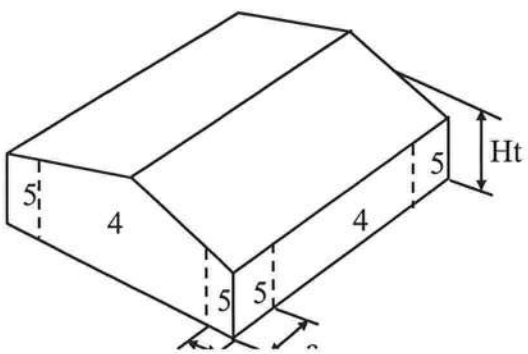
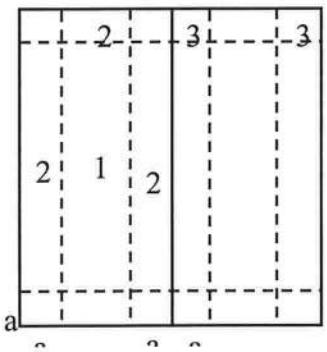


Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





Load Short Form
Entire House
Bounds Heating & Air

Job:
Date: Dec 18, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	68
Design TD (°F)	37	24
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	10	61

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

HEATING EQUIPMENT

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Model	CH14NB0240000A0
AHRI ref	9162254

Efficiency	8.2 HSPF	
Heating input		
Heating output	21800	Btuh @ 47°F
Temperature rise	27	°F
Actual air flow	733	cfm
Air flow factor	0.050	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

Capacity balance point = 30 °F

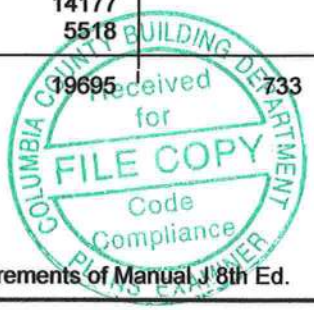
Backup: Carrier CEC0501N05
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

COOLING EQUIPMENT

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Cond	CH14NB0240000A0
Coil	FX4DNF025L
AHRI ref	9162254

Efficiency	11.5 EER, 14 SEER	
Sensible cooling	15400	Btuh
Latent cooling	6600	Btuh
Total cooling	22000	Btuh
Actual air flow	733	cfm
Air flow factor	0.059	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.73	

ROOM NAME		Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Zone 1	p	1323	10443	8401	527	500
Zone 2	p	840	4096	4593	207	273
Entire House	d	2163	14538	12146	733	733
Other equip loads			3766	2469		
Equip. @ 0.97 RSM				14177		
Latent cooling				5518		
TOTALS		2163	18304	19695	733	733



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

Load Short Form
Zone 1
Bounds Heating & Air

Job:
Date: Dec 18, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	68
Design TD (°F)	37	24
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	10	61

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
kitchen/living	717	4956	4631	250	276
bath 2	66	0	486	0	29
WIC 1	65	469	121	24	7
laundry	90	1629	1135	82	68
master bath	190	1071	741	54	44
master bedroom	195	2317	1287	117	77

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

Zone 1	p	1323	10443	8401	527	500
Other equip loads			0	0		
Equip. @ 0.97 RSM				8149		
Latent cooling				922		
TOTALS		1323	10443	9071	527	500

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

Load Short Form
Zone 2
Bounds Heating & Air

Job:
Date: Dec 18, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	68
Design TD (°F)	37	24
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	10	61

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
cond. storage	386	2283	1686	115	100
stairs	49	102	94	5	6
bedroom 2	155	892	1605	45	96
bath 3	59	122	113	6	7
office	191	696	1094	35	65
Zone 2 p	840	4096	4593	207	273
Other equip loads		0	0		
Equip. @ 0.97 RSM			4456		
Latent cooling			687		
TOTALS	840	4096	5142	207	273

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

Project Summary
Entire House
Bounds Heating & Air

Job:
Date: Dec 18, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	68	°F
Design TD	24	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	61	gr/lb

Heating Summary

Structure	14538	Btuh
Ducts	0	Btuh
Central vent (94 cfm) Outside air	3766	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	18304	Btuh

Sensible Cooling Equipment Load Sizing

Structure	12146	Btuh
Ducts	0	Btuh
Central vent (94 cfm) Outside air	2469	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	14177	Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	2163	2163
Volume (ft³)	19467	19467
Air changes/hour	0.11	0.06
Equiv. AVF (cfm)	36	19

Latent Cooling Equipment Load Sizing

Structure	1609	Btuh
Ducts	0	Btuh
Central vent (94 cfm) Outside air	3909	Btuh
Equipment latent load	5518	Btuh
Equipment total load	19695	Btuh
Req. total capacity at 0.70 SHR	1.7	ton

Heating Equipment Summary

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Model	CH14NB0240000A0
AHRI ref	9162254

Efficiency	8.2 HSPF	
Heating input		
Heating output	21800	Btuh @ 47°F
Temperature rise	27	°F
Actual air flow	733	cfm
Air flow factor	0.050	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

Capacity balance point = 30 °F

Backup: Carrier CEC0501N05
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Cond	CH14NB0240000A0
Coil	FX4DNF025L
AHRI ref	9162254

Efficiency	11.5 EER, 14 SEER	
Sensible cooling	15400	Btuh
Latent cooling	6600	Btuh
Total cooling	22000	Btuh
Actual air flow	733	cfm
Air flow factor	0.059	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.73	

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

Bounds HEATING & AIR

Project Summary
Zone 1
Bounds Heating & Air

Job:
Date: Dec 18, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	68	°F
Design TD	24	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	61	gr/lb

Heating Summary

Structure	10443	Btuh
Ducts	0	Btuh
Central vent (58 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	10443	Btuh

Sensible Cooling Equipment Load Sizing

Structure	8401	Btuh
Ducts	0	Btuh
Central vent (58 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	8149	Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	1323	1323
Volume (ft³)	11907	11907
Air changes/hour	0.12	0.06
Equiv. AVF (cfm)	23	13

Latent Cooling Equipment Load Sizing

Structure	922	Btuh
Ducts	0	Btuh
Central vent (58 cfm)	0	Btuh
Equipment latent load	922	Btuh
Equipment total load	9071	Btuh
Req. total capacity at 0.70 SHR	1.0	ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a

Efficiency	n/a	
Heating input		
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	0	cfm
Air flow factor	0	cfm/Btuh
Static pressure	0	in H2O
Space thermostat	n/a	

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a

Efficiency	n/a	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	0	cfm
Air flow factor	0	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0	

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

Bounds HEATING & AIR

Project Summary
Zone 2
Bounds Heating & Air

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Job:
Date: Dec 18, 2017
By: Joe Mullins

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	68	°F
Design TD	24	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	61	gr/lb

Heating Summary

Structure	4096	Btuh
Ducts	0	Btuh
Central vent (37 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	4096	Btuh

Sensible Cooling Equipment Load Sizing

Structure	4593	Btuh
Ducts	0	Btuh
Central vent (37 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	4456	Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	840	840
Volume (ft³)	7560	7560
Air changes/hour	0.10	0.05
Equiv. AVF (cfm)	13	7

Latent Cooling Equipment Load Sizing

Structure	687	Btuh
Ducts	0	Btuh
Central vent (37 cfm)	0	Btuh
Equipment latent load	687	Btuh
Equipment total load	5142	Btuh
Req. total capacity at 0.70 SHR	0.5	ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a

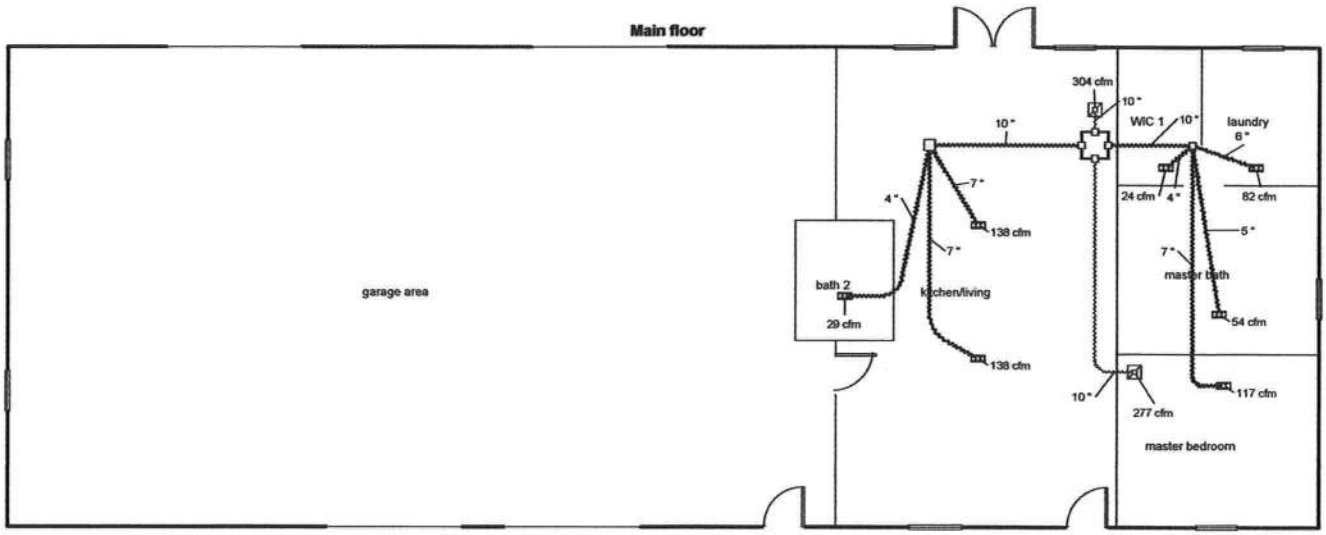
Efficiency	n/a	
Heating input		
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	0	cfm
Air flow factor	0	cfm/Btuh
Static pressure	0	in H2O
Space thermostat	n/a	

Cooling Equipment Summary

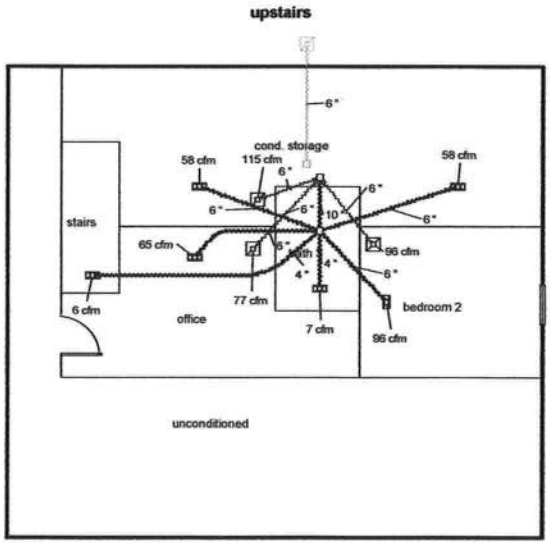
Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a

Efficiency	n/a	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	0	cfm
Air flow factor	0	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0	

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



Job #: **Performed by Joe Mullins for:** Clark 1047 SE Old Belamy Road High Springs, Fl. 32643	**Bounds Heating & Air** 25645 West Newberry Road Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809	Scale: 1 : 163 Page 1 Comfort Builder by Wrightsoft 17.0.21 RSU01870 2017-Dec-19 07:22:45 ...D\2017 J&D\Individuals\Clark.rup



Job #:
Performed by Joe Mullins for:
Clark
1047 SE Old Belamy Road
High Springs, Fl. 32643

Bounds Heating & Air
25645 West Newberry Road
Newberry, Fl. 32669
Phone: 352-472-2761 Fax: 352-472-1809

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Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb6	0x 0	277	195	54.0	0.151	507	10.0	0x 0		VIFx	
rb2	0x 0	250	304	31.7	0.258	558	10.0	0x 0		VIFx	
rb4	0x 0	115	100	35.0	0.234	587	6.0	0x 0		VIFx	
rb5	0x 0	46	77	37.3	0.219	395	6.0	0x 0		VIFx	
rb3	0x 0	45	96	36.4	0.224	486	6.0	0x 0		VIFx	

Duct System Summary
Entire House
Bounds Heating & Air

Job:
Date: Dec 18, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Clark, River Rise Construction
1047 SE Old Belamy Road, High Springs, Fl. 32643

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.23 in H2O	0.23 in H2O
Available static pressure	0.27 in H2O	0.27 in H2O
Supply / return available pressure	0.188 / 0.082 in H2O	0.188 / 0.082 in H2O
Lowest friction rate	0.151 in/100ft	0.151 in/100ft
Actual air flow	733 cfm	733 cfm
Total effective length (TEL)	179 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
WIC 1	h	469	24	7	0.190	4.0	0x0	VlFx	8.9	90.0	st1
bath 2	c	486	0	29	0.154	4.0	0x0	VlFx	26.9	95.0	st3
bath 3	c	113	6	7	0.192	4.0	0x0	VlFx	8.3	90.0	st2
bedroom 2	c	1605	45	96	0.186	6.0	0x0	VlFx	11.3	90.0	st2
cond. storage	h	1142	58	50	0.182	6.0	0x0	VlFx	13.6	90.0	st2
cond. storage-A	h	1142	58	50	0.180	6.0	0x0	VlFx	14.9	90.0	st2
kitchen/living	c	2315	125	138	0.174	7.0	0x0	VlFx	18.4	90.0	st3
kitchen/living-A	c	2315	125	138	0.151	7.0	0x0	VlFx	29.5	95.0	st3
laundry	h	1629	82	68	0.186	6.0	0x0	VlFx	11.3	90.0	st1
master bath	h	1071	54	44	0.173	5.0	0x0	VlFx	19.2	90.0	st1
master bedroom	h	2317	117	77	0.155	7.0	0x0	VlFx	26.7	95.0	st1
office	c	1094	35	65	0.172	6.0	0x0	VlFx	14.3	95.0	st2
stairs	c	94	5	6	0.161	4.0	0x0	VlFx	22.2	95.0	st2

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	250	304	0.151	558	10.0	0 x 0	VinlFlx	
st1	Peak AVF	277	195	0.155	507	10.0	0 x 0	VinlFlx	
st2	Peak AVF	207	273	0.161	501	10.0	0 x 0	VinlFlx	

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	R&M Clark	Builder Name:	
Street:	1047 se old bellamy rd	Permit Office:	
City, State, Zip:	High Springs , FL , 32643	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County::	Alachua (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	2
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1753
Conditioned floor area below grade (ft²)	0

7. Windows(122.7 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.33	122.67 ft²
SHGC:	SHGC=0.23	
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:		1.500 ft.
Area Weighted Average SHGC:		0.230

8. Floor Types (1753.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1323.00 ft²
b. Floor Over Other Space	R=0.0	430.00 ft²
c. N/A	R=	ft²

9. Wall Types (2145.3 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1857.30 ft²
b. Frame - Wood, Exterior	R=13.0	288.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (1323.0 sqft.)	Insulation	Area
a. Roof Deck (Unvented)	R=19.0	1323.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: 2nd Floor, Ret: 2nd Floor, AH: 2nd Floor	6	350.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	22.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	21.8	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 40 gallons
	EF: 0.920
b. Conservation features	
None	

15. Credits CF, Pstat

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

Glass/Floor Area: 0.070

Total Proposed Modified Loads: 41.09

Total Baseline Loads: 45.80

PASS

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

PREPARED BY: _____

DATE: _____

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

OWNER/AGENT: _____

DATE: _____

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

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

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

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

FORM R405-2017

PROJECT

Title:	R&M Clark	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1753	Lot #	
Owner Name:		Total Stories:	2	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	1047 se old bellamy rd
Permit Office:		Cross Ventilation:		County:	Alachua
Jurisdiction:		Whole House Fan:		City, State, Zip:	High Springs , FL , 32643
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	1753	14024

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1323	10584	Yes	1	1	1	Yes	Yes	Yes
2	2nd Floor	430	3440	No	0	1	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Floor Over Other Space	2nd Floor	----	----	430 ft²	0	0.22	0	0.78
_____	2	Slab-On-Grade Edge Insulatio	Main	150 ft	0	1323 ft²	----	0.22	0	0.78

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Metal	1433 ft²	276 ft²	Light	0.96	No	0.9	No	19	22.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	1323 ft²	N	N

FORM R405-2017

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Unvented)	Main	19	Blown	893 ft²	0.11	Wood
_____	2	Under Attic (Unvented)	2nd Floor	19	Blown	430 ft²	0.11	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	Exterior	Frame - Wood	Main	19	39	1	8		312.7 ft²		0.23	0.75	0
____	2	E	Exterior	Frame - Wood	Main	19	36		8		288.0 ft²		0.23	0.75	0
____	3	S	Exterior	Frame - Wood	Main	19	39	1	8		312.7 ft²		0.23	0.75	0
____	4	W	Exterior	Frame - Wood	Main	13	36		8		288.0 ft²		0.23	0.75	0
____	5	N	Exterior	Frame - Wood	2nd Floor	19	36		8		288.0 ft²		0.23	0.75	0
____	6	E	Exterior	Frame - Wood	2nd Floor	19	23		8		184.0 ft²		0.23	0.75	0
____	7	S	Exterior	Frame - Wood	2nd Floor	19	36		8		288.0 ft²		0.23	0.75	0
____	8	W	Exterior	Frame - Wood	2nd Floor	19	23		8		184.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	S	Insulated	Main	None	.46	2		6	8	13.3 ft²
_____	2	N	Insulated	Main	None	.46	3		6	8	20 ft²
_____	3	W	Insulated	2nd Floor	None	.46	3		6	8	20 ft²
_____	4	E	Insulated	Main	None	.46	3		6		18 ft²
_____	5	E	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	15.0 ft²	0 ft 18 in	2 ft 0 in	Drapes/blinds	None
_____	2	N	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	12.0 ft²	0 ft 18 in	2 ft 0 in	Drapes/blinds	None
_____	3	S	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	45.0 ft²	0 ft 18 in	2 ft 0 in	Drapes/blinds	None
_____	4	S	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	26.7 ft²	0 ft 18 in	2 ft 0 in	Drapes/blinds	None
_____	5	W	4	Vinyl	Low-E Double	Yes	0.33	0.23	N	9.0 ft²	0 ft 18 in	2 ft 0 in	Drapes/blinds	None
_____	6	W	8	Vinyl	Low-E Double	Yes	0.33	0.23	N	15.0 ft²	0 ft 18 in	5 ft 0 in	Drapes/blinds	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	1406.988 ft²	1406.988 ft²	157 ft	15 ft	1

FORM R405-2017

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	1168.7	64.16	120.66	.2409	5

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	HSPF:8.2	21.8 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	SEER: 14	22 kBtu/hr	660 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Garage	0.92	40 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	1	2nd Floor	6	350.6 ft	2nd Floor	87.65 ft	Default Leakage	2nd Floor	(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]	[ ]

FORM R405-2017

Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	Fan Watts	HRV	Heating System	Run Time	Cooling System
None	0	0	0		1 - Electric Heat Pump	0%	1 - Central Unit

FORM R405-2017

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 90

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

1047 se old bellamy rd , High Springs, FL, 32643

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		2
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		1753

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.33	122.67 ft²
SHGC:	SHGC=0.23	
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:		1.500 ft.
Area Weighted Average SHGC:		0.230

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1323.00 ft²
b. Floor Over Other Space	R=0.0	430.00 ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1857.30 ft²
b. Frame - Wood, Exterior	R=13.0	288.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Roof Deck (Unvented)	R=19.0	1323.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: 2nd Floor, Ret: 2nd Floor, AH: 2nd Floor	6	350.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	22.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	21.8	HSPF:8.20

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.92
b. Conservation features
None

15. Credits: CF, Pstat

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

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

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

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	R&M Clark	Builder Name:	
Street:	1047 se old bellamy rd	Permit Office:	
City, State, Zip:	High Springs , FL , 32643	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County::	Alachua (Florida Climate Zone 2)

1. New construction or existing		New (From Plans)		
2. Single family or multiple family		Single-family		
3. Number of units, if multiple family		1		
4. Number of Bedrooms		2		
5. Is this a worst case?		No		
6. Conditioned floor area above grade (ft²)		1753		
Conditioned floor area below grade (ft²)		0		
7. Windows(122.7 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.33		122.67	ft²
SHGC:	SHGC=0.23			
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:			1.500	ft.
Area Weighted Average SHGC:			0.230	
8. Floor Types (1753.0 sqft.)		Insulation	Area	
a. Slab-On-Grade Edge Insulation		R=0.0	1323.00	ft²
b. Floor Over Other Space		R=0.0	430.00	ft²
c. N/A		R=		ft²

9. Wall Types (2145.3 sqft.)	Insulation	Area	
a. Frame - Wood, Exterior	R=19.0	1857.30	ft²
b. Frame - Wood, Exterior	R=13.0	288.00	ft²
c. N/A	R=		ft²
d. N/A	R=		ft²
10. Ceiling Types (1323.0 sqft.)	Insulation	Area	
a. Roof Deck (Unvented)	R=19.0	1323.00	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
11. Ducts		R	ft²
a. Sup: 2nd Floor, Ret: 2nd Floor, AH: 2nd Floor		6	350.6
12. Cooling systems	kBtu/hr	Efficiency	
a. Central Unit	22.0	SEER:14.00	
13. Heating systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	21.8	HSPF:8.20	
14. Hot water systems			
a. Electric		Cap: 40 gallons	
		EF: 0.920	
b. Conservation features			
None			
15. Credits		CF, Pstat	

Glass/Floor Area: 0.070

Total Proposed Modified Loads: 41.09

Total Baseline Loads: 45.80

PASS

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

PREPARED BY: Jon UO Tight Seal Inc

DATE: 1/10/18

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

Suwannee River Water Management District
Effective Flood Information Report

Effective Flood Zones described on Page 2

- SFHA - AE w/Floodway
- SFHA - Zones AE, AH, AO
- SFHA - Zone VE
- SFHA - Zone A
- 0.2 % (shaded X)
- Wetlands
- FIRM Panel
- State Lands
- Counties
- SRWMD
- Parcels
- Depressions
- BFE
- Cross Sections

LOCATION

Date: 1-22-2018

Parcel: 03-7S-17-09880-001

County: COLUMBIA

STR: S003 T07 R17

Columbia Flood Hazard Areas Status
Effective: 02/04/2009

FLOOD INFORMATION

Special Flood Hazard Area? (SFHA): No

Flood Zone(s): X 0.2 PCT

Floodway: No

1% Annual Chance Flood Elev (BFE): Not Applicable

10% Annual Chance Flood Elev: Not Applicable

50% Annual Chance Flood Elev: Not Applicable

Note: Elevations are based on NAVD88

FIRM Panel(s): 12023C0511C, 12023C0514C, 12023C0513C, 12023C0512C

The Federal Emergency Management Agency (FEMA) maintains information about map features, such as street locations and names, in or near designated flood hazard areas. The information herein represents the best available data as of the effective date shown. The applicable Flood Insurance Study and a Digital Flood Insurance Rate Map is available online (http://www.srwmdfloodreport.com). To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to also consult the FEMA Map Service Center at 1-800-358-9616 (http://www.msc.fema.gov) for information on available products associated with this FIRM panel. Available products from the Map Service Center may include previously issued Letters of Map Change.

Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period on preliminary maps, or through the Letter of Map Change process for effective maps.

Base Flood Elevation (BFE)

The elevation shown on the Flood Insurance Rate Map for Zones AE, AH, A1-A30, AR, AO, V1-V30, and VE that indicates the water surface elevation resulting from a flood that has a one percent chance of equaling or exceeding that level in any given year.

A

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.

AE, A1-A30

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. In most instances, base flood elevations derived from detailed analyses are shown at selected intervals within these zones.

AH

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Usually areas of ponding with flood depths of 1 to 3 feet. Base Flood Elevations are determined.

AO

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Usually areas of sheet flow on sloping terrain with flood depths of 1 to 3 feet. Base Flood Elevations are determined.

Supplemental Information:

10%-chance flood elevations (10-year flood-risk elevations) and 50%-chance flood elevations (2-year flood-risk elevations), are calculated during detailed flooding studies but are not shown on FEMA Digital Flood Insurance Rate Maps (FIRMs). They have been provided as supplemental information in the Flood Information section of this report.

AE FW (FLOODWAYS)

The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood (1% annual chance flood event). The floodway must be kept open so that flood water can proceed downstream and not be obstructed or diverted onto other properties.

Please note, if you develop within the regulatory floodway, you will need to contact your Local Government and the Suwannee River Water Management District prior to commencing with the activity. Please contact the District at 800.226.1066.

VE

Areas with a 1% annual chance of flooding over the life of a 30-year mortgage with additional hazards due to storm-induced velocity wave action. Base Flood Elevations (BFEs) derived from detailed analyses.

X 0.2 PCT (X Shaded, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD)

Same as Zone X; however, detailed studies have been performed, and the area has been determined to be within the 0.2 percent annual chance floodplain (also known as the 500-year flood zone). Insurance purchase is not required in this zone but is available at a reduced rate and is recommended.

X

All areas outside the 1-percent annual chance floodplain are Zone X. This includes areas of 1% annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones.

LINKS

FEMA:

http://www.fema.gov

SRWMD:

http://www.srwmd.state.fl.us

CONTACT

SRWMD
9225 County Road 49
Live Oak, FL 32060

(386) 362-1001

Toll Free:
(800) 226-1066

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

RE: 1291638 - RIVER RISE CONST. - CLARK

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

Site Information:
Customer Info: River Rise Const. Project Name: 1291638 Model: Clark Res.
Lot/Block: Subdivision:
Address: 1047 SE Old Bellamy Rd
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: Unknown at time of seals License #: Unknown at time of seals
Address: Unknown at time of seals
City: Unknown at time of seals State: Unknown at time of seals

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.1
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T13022005	F01	1/22/18
2	T13022006	F02	1/22/18
3	T13022007	F03	1/22/18
4	T13022008	F04	1/22/18
5	T13022009	F05	1/22/18
6	T13022010	KW1	1/22/18
7	T13022011	KW2	1/22/18
8	T13022012	KW4	1/22/18
9	T13022013	KW5	1/22/18
10	T13022014	T01	1/22/18
11	T13022015	T01G	1/22/18
12	T13022016	T02	1/22/18
13	T13022017	T02G	1/22/18

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2019.

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

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

January 22,2018

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022005
1291638	F01	Floor	17	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:28:57 2018 Page 1
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-28T3DQtwRuw_Xp8rkd_zgMd6u0LEY?6zJWC43Jzsnu4

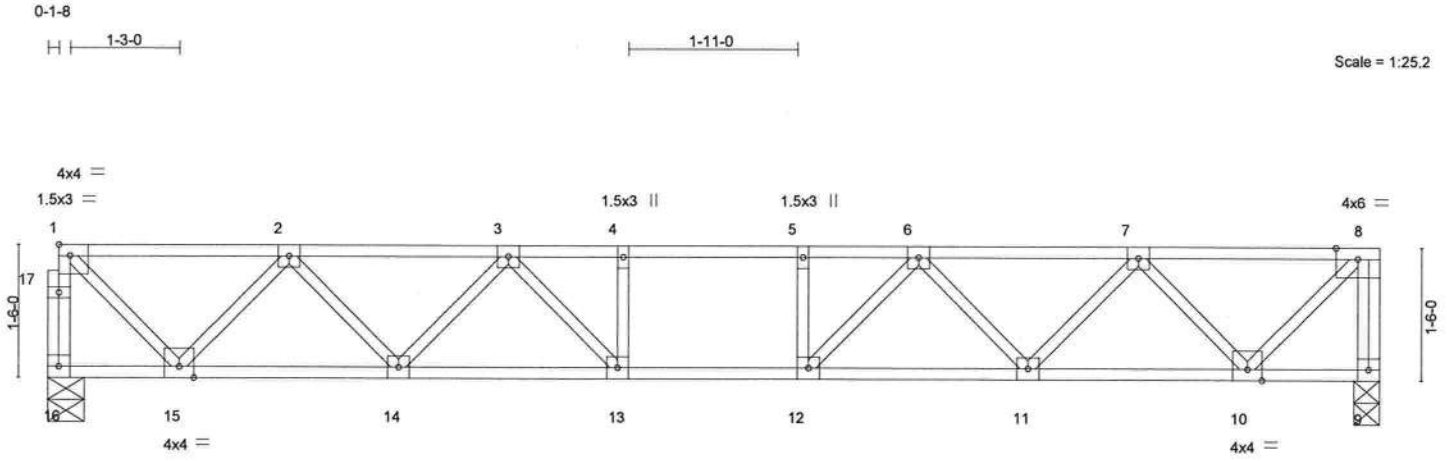


Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.13	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.16	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 82 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 16=814/0-5-0, 9=820/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-809/0, 8-9=-815/0, 1-2=-712/0, 2-3=-1691/0, 3-4=-2199/0, 4-5=-2199/0, 5-6=-2199/0, 6-7=-1692/0, 7-8=-711/0
BOT CHORD 14-15=0/1337, 13-14=0/2021, 12-13=0/2199, 11-12=0/2021, 10-11=0/1338
WEBS 8-10=0/1005, 1-15=0/978, 7-10=-933/0, 2-15=-929/0, 7-11=0/525, 2-14=0/527, 6-11=-489/0, 3-14=-491/0, 6-12=-11/481, 3-13=-11/481, 4-13=-257/0, 5-12=-257/0

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

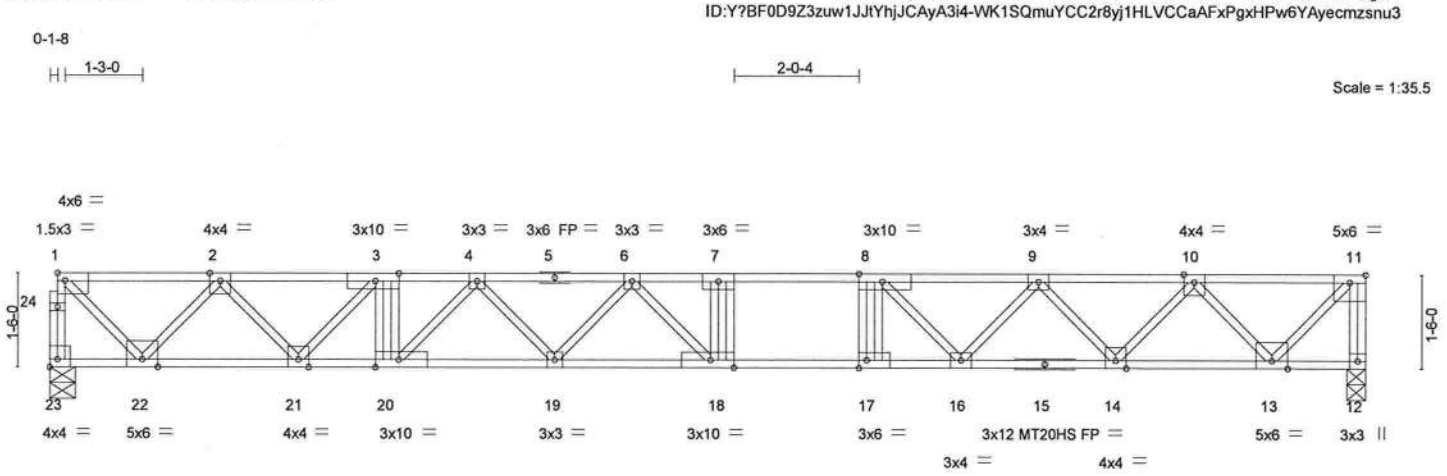
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 22,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK
1291638	F02	Floor	7	1	T13022006
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:28:58 2018 Page 1
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-WK1SQmuYCC2r8yj1HLVCCaAFxPgxHPw6YAyecmzsnu3



	5-3-0	9-4-8	11-0-0	13-0-4	21-1-12
	5-3-0	4-1-8	1-7-8	2-0-4	8-1-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-4-8,Edge], [8:0-4-8,Edge], [17:0-1-8,Edge], [18:0-4-8,Edge], [20:0-4-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.39	18-19	>649	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.52	18-19	>478	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 123 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 23=1143/0-5-0, 12=1149/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-1138/0, 11-12=-1141/0, 1-2=-1041/0, 2-3=-2612/0, 3-4=-3338/0, 4-6=-4113/0, 6-7=-4247/0, 7-8=-4247/0, 8-9=-3677/0, 9-10=-2619/0, 10-11=-1037/0
BOT CHORD 21-22=0/1965, 20-21=0/3306, 19-20=0/3835, 18-19=0/4319, 17-18=0/4247, 16-17=0/4242, 14-16=0/3237, 13-14=0/1966
WEBS 8-17=-57/309, 1-22=0/1432, 2-22=-1374/0, 2-21=0/963, 3-21=-975/0, 3-20=0/493, 4-20=-699/0, 4-19=0/412, 6-19=-365/0, 11-13=0/1467, 10-13=-1380/0, 10-14=0/971, 9-14=-918/0, 9-16=0/713, 8-16=-968/0, 6-18=-406/418

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 22,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022007
1291638	F03	Floor	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:28:58 2018 Page 1
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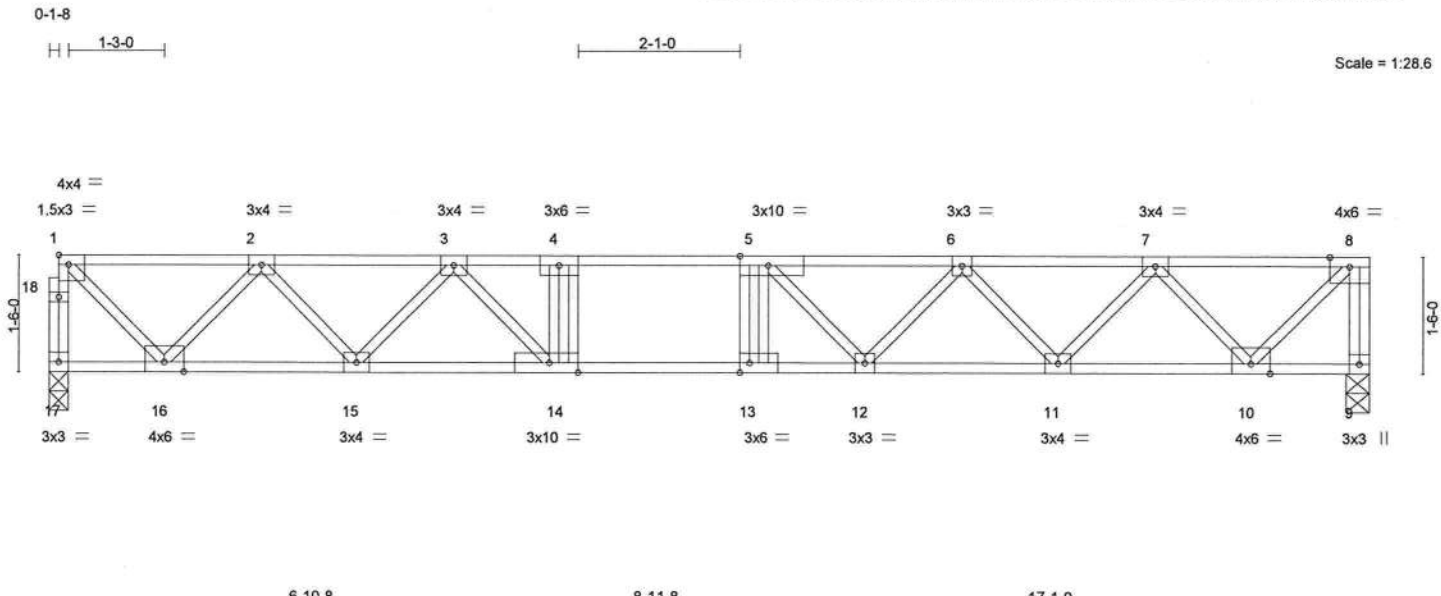

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-4-8,Edge], [13:0-1-8,Edge], [14:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.20	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.25	12-13	>795	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 17=920/0-3-0, 9=926/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-917/0, 8-9=-920/0, 1-2=-821/0, 2-3=-1975/0, 3-4=-2776/0, 4-5=-2785/0, 5-6=-2635/0, 6-7=-1994/0, 7-8=-813/0
BOT CHORD 15-16=0/1536, 14-15=0/2416, 13-14=0/2785, 12-13=0/2787, 11-12=0/2438, 10-11=0/1532
WEBS 8-10=0/1150, 1-16=0/1128, 7-10=-1069/0, 2-16=-1063/0, 7-11=0/687, 2-15=0/653, 6-11=-660/0, 3-15=-655/0, 6-12=0/398, 3-14=0/718, 5-12=-464/56, 4-14=-339/0

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 22,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

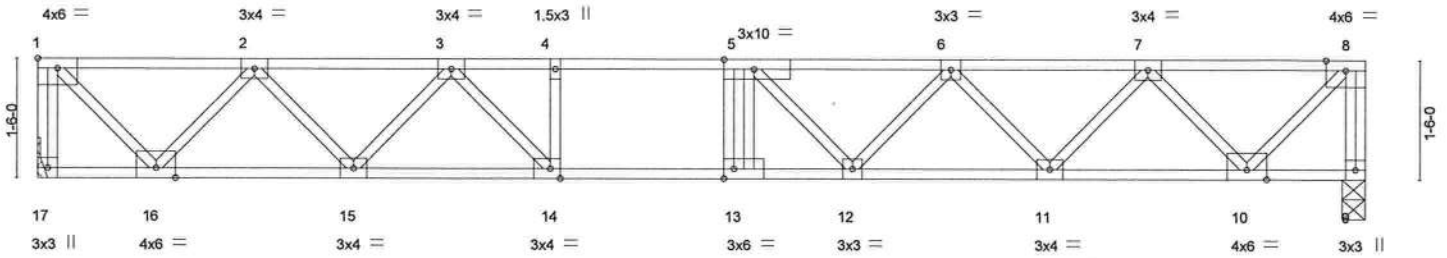
Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022008
1291638	F04	Floor	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:28:59 2018 Page 1
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-_Xbqd6vBzVAim6lDr20RlniVbp4e0ucGnqhB8Czsnu2

1-3-0 2-1-0

Scale = 1:28.0



6-7-8 8-8-8 16-10-0
6-7-8 2-1-0 8-1-8

Plate Offsets (X,Y)— [1:Edge,0-1-8], [5:0-4-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.18	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.23	12-13	>847	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 17=912/Mechanical, 9=912/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-909/0, 8-9=-907/0, 1-2=-806/0, 2-3=-1937/0, 3-4=-2702/0, 4-5=-2702/0, 5-6=-2572/0, 6-7=-1956/0, 7-8=-799/0
BOT CHORD 15-16=0/1511, 14-15=0/2366, 13-14=0/2702, 12-13=0/2705, 11-12=0/2388, 10-11=0/1506
WEBS 4-14=-334/0, 1-16=0/1139, 2-16=-1049/0, 2-15=0/633, 3-15=-638/0, 3-14=0/696, 8-10=0/1131, 7-10=-1050/0, 7-11=0/669, 6-11=-642/0, 6-12=0/377, 5-12=-433/67

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 22,2018

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK
1291638	F05	Floor	3	1	T13022009
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:00 2018 Page 1
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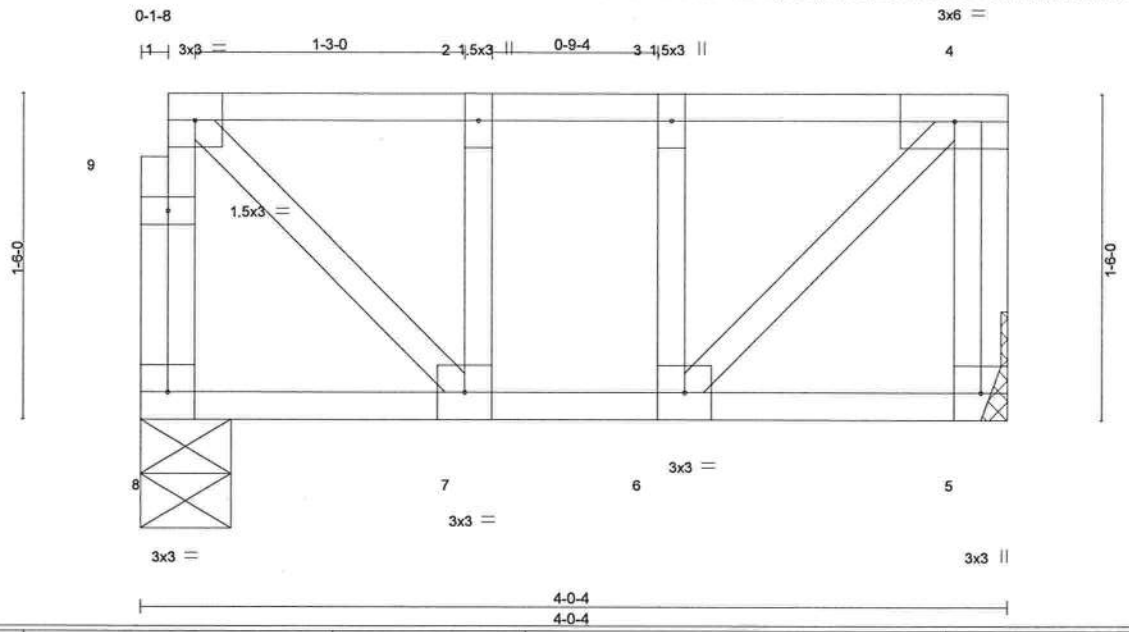

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.00	6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 28 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 8=201/0-5-0, 5=207/Mechanical

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

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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January 22,2018

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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022010
1291638	KW1	GABLE	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:01 2018 Page 1
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-xvja2nwRV7QP?QSczT2vqCovoduKUw?YE8AIC5zsnu0

0-1-8

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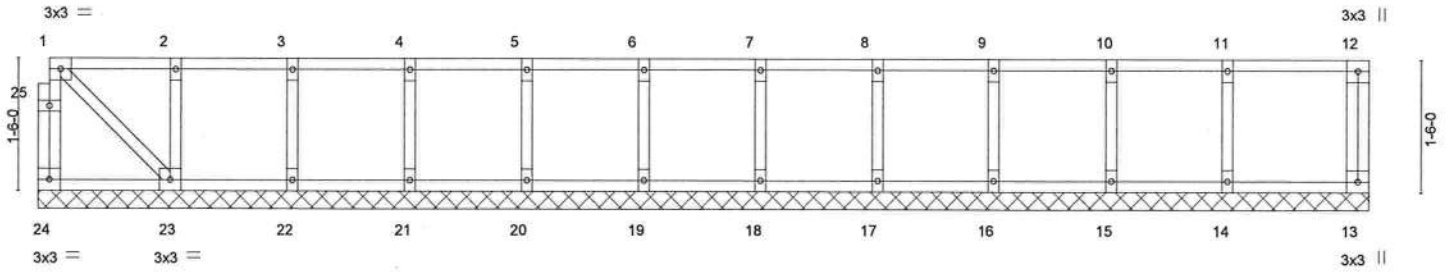

1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	15-2-0
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 73 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 15-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES- (7)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

January 22,2018

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022011
1291638	KW2	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:01 2018 Page 1
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-xvja2nwRV7QP?QSczT2vqCov_duKUw1YE8AIC5zsnu0

0-1-8

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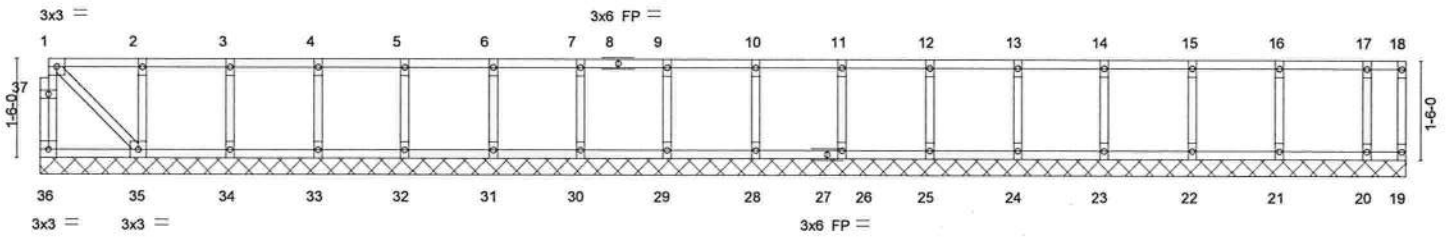

1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	14-10-12	16-2-12	17-6-12	18-10-12	20-2-12	20-9-12
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

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

REACTIONS. All bearings 20-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20

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

NOTES- (7)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

January 22,2018

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022012
1291638	KW4	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:02 2018 Page 1
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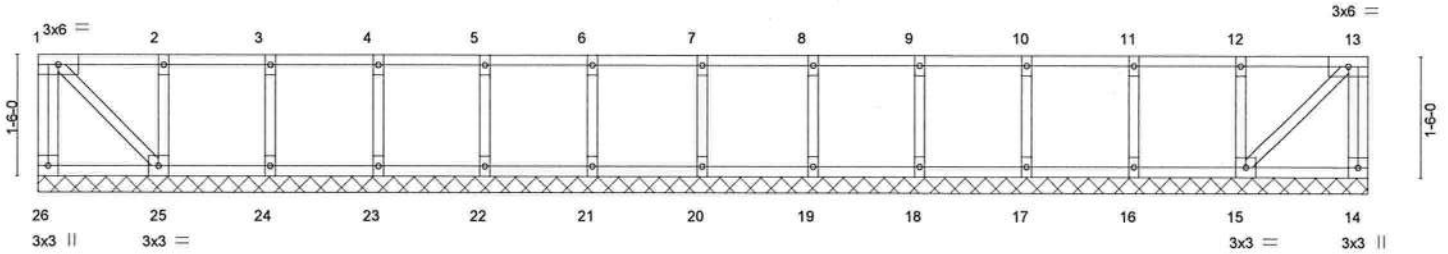

1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-3-4	9-7-12	10-11-12	12-3-12	13-7-12	14-11-12	16-6-8
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-8	1-4-8	1-4-0	1-4-0	1-4-0	1-4-0	1-6-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	14	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 82 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,14-15.

REACTIONS. All bearings 16-6-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

NOTES- (6)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

January 22,2018

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022013
1291638	KW5	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:03 2018 Page 1
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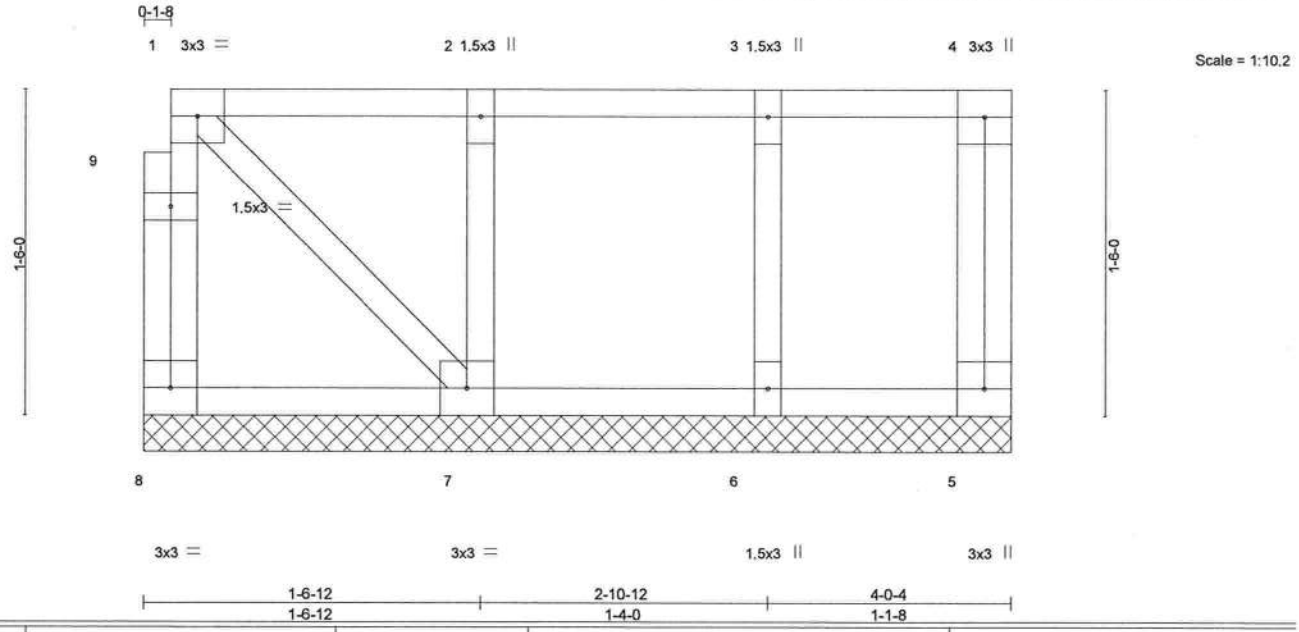

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-P							Weight: 25 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 4-0-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES- (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022014
1291638	T01	Common	29	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:04 2018 Page 1

ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-LUOjhpzJo2o_stBBebccSqQHHqiKh6N?w6PyoQzsntz

-2-0-0	7-0-0	12-0-6	18-0-0	23-11-10	29-0-0	36-0-0	38-0-0
2-0-0	7-0-0	5-0-6	5-11-10	5-11-10	5-0-6	7-0-0	2-0-0

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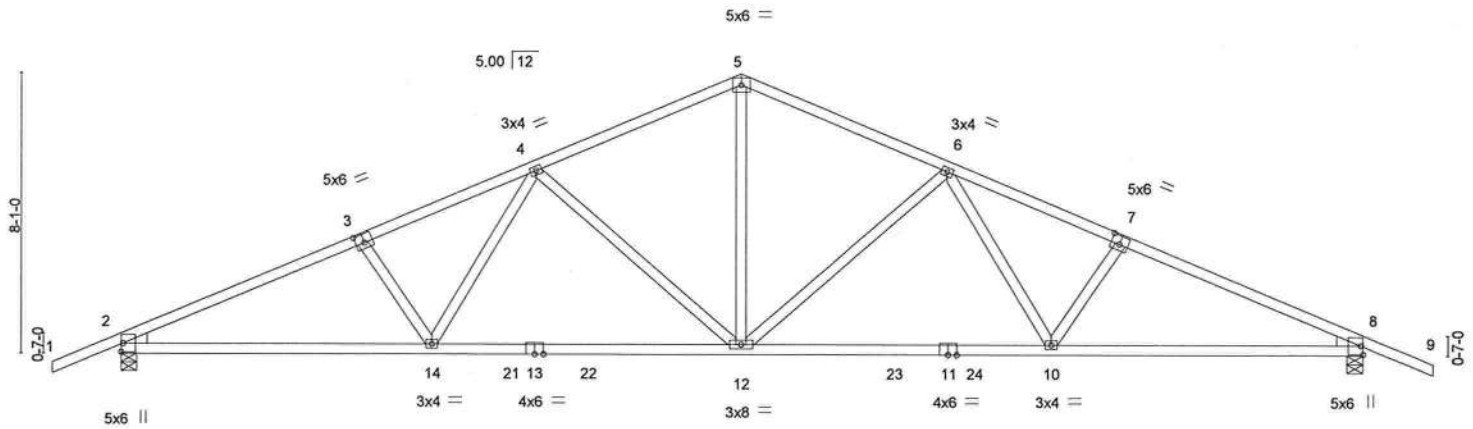

9-0-2	18-0-0	26-11-14	36-0-0
9-0-2	8-11-14	8-11-14	9-0-2

Plate Offsets (X,Y)— [2:0-0-2,0-0-6], [2:0-0-5,0-6-5], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-0-2,0-0-6], [8:0-0-5,0-6-5]

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	0.67	Vert(LL)	-0.26	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.51	12-14	>855	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-4-4 oc bracing.

REACTIONS. (lb/size) 2=1440/0-5-8, 8=1440/0-5-8
Max Horz 2=-181(LC 13)
Max Uplift 2=-600(LC 12), 8=-600(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2604/1450, 3-4=-2435/1420, 4-5=-1756/1092, 5-6=-1756/1092, 6-7=-2435/1420, 7-8=-2604/1449
BOT CHORD 2-14=-1170/2330, 12-14=-951/2010, 10-12=-957/2010, 8-10=-1190/2330
WEBS 5-12=-570/999, 6-12=-623/467, 6-10=-183/442, 7-10=-245/266, 4-12=-623/467, 4-14=-183/442, 3-14=-245/266

NOTES- (6)
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=21ft; 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) 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 600 lb uplift at joint 2 and 600 lb uplift at joint 8.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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6904 Parke East Blvd. Tampa FL 33610
Date:
January 22,2018

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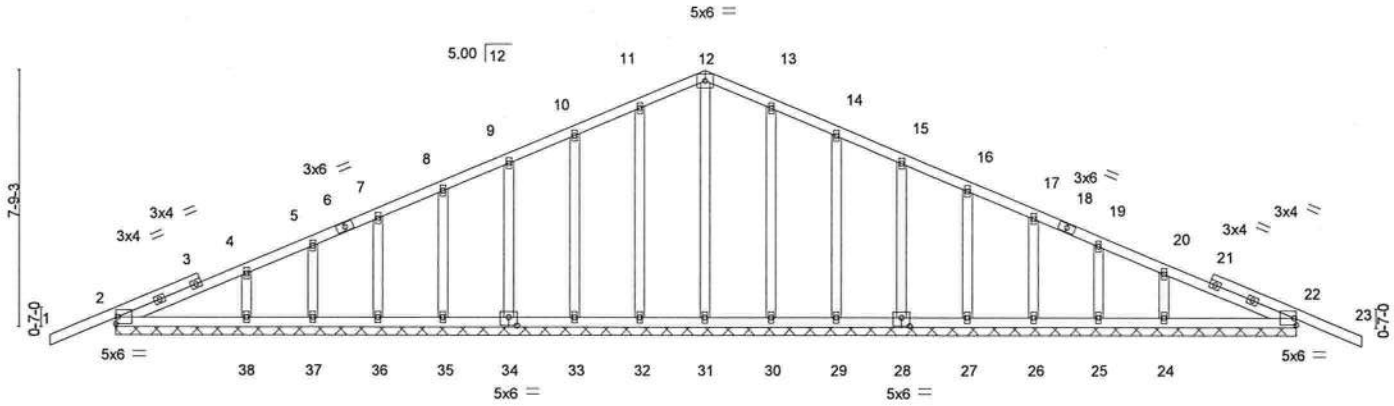
Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	
1291638	T01G	Common Supported Gable	1	1	Job Reference (optional)	T13022015

Builders FirstSource, Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:06 2018 Page 1
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-HtWT6V_aKf2i6BKal0e4XFVisea399XIOQu3tlzsntx

-2-0-0 2-0-0 | 18-0-0 18-0-0 | 36-0-0 18-0-0 | 38-0-0 2-0-0

Scale = 1:67.3



36-0-0
36-0-0

Plate Offsets (X,Y)-- [28:0-3-0,0-3-0], [34:0-3-0,0-3-0]

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	0.28	Vert(LL)	-0.01	23	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 218 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 10-0-0 oc bracing.

REACTIONS. All bearings 36-0-0.
(lb) - Max Horz 2=-174(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 30, 29, 28, 27, 26, 25 except 2=-130(LC 8), 38=-128(LC 12), 24=-129(LC 13), 22=-136(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, 24 except 2=270(LC 1), 22=270(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-92/259, 11-12=-109/307, 12-13=-109/307, 13-14=-92/259

NOTES- (11)
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=21ft; 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) 32, 33, 34, 35, 36, 37, 30, 29, 28, 27, 26, 25 except (jt=lb) 2=130, 38=128, 24=129, 22=136.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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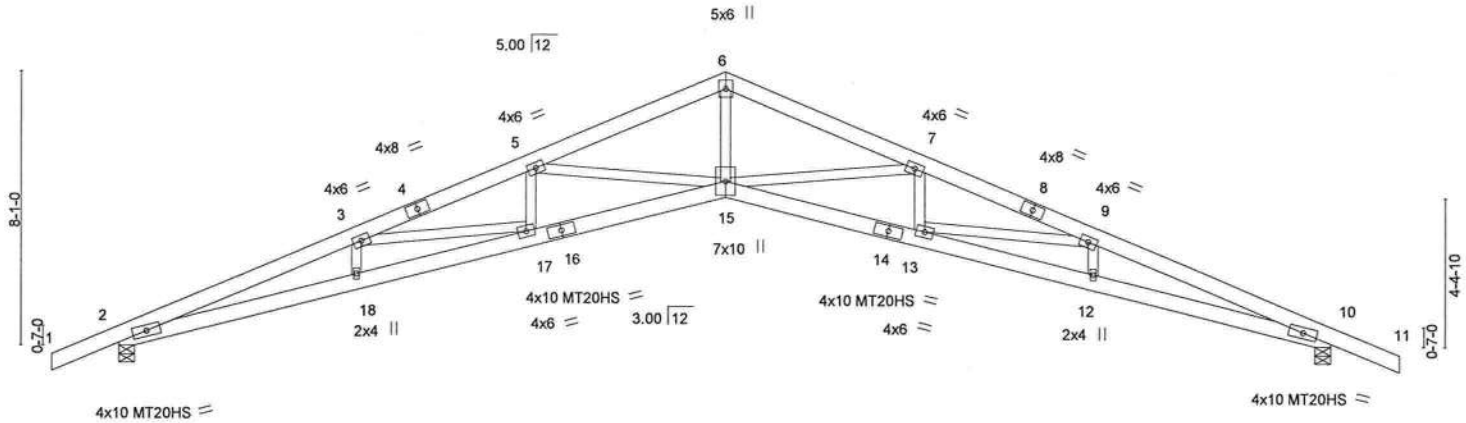
Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022016
1291638	T02	SCISSORS	19	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Jan 22 13:29:07 2018 Page 1

ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-l34rJr?C5zBZjLvmJk9J4T2r22lDuTsRd4dcPkzsntw

-2-0-0	7-0-11	12-2-11	18-0-0	23-9-5	28-11-5	36-0-0	38-0-0
2-0-0	7-0-11	5-2-0	5-9-5	5-9-5	5-2-0	7-0-11	2-0-0

Scale = 1:65.6



7-0-11	12-2-11	18-0-0	23-9-5	28-11-5	36-0-0
7-0-11	5-2-0	5-9-5	5-9-5	5-2-0	7-0-11

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	0.44	Vert(LL)	-0.51	15	>843	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.96	13-15	>452	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.60	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 2-16,10-14: 2x6 SP M 26
WEBS 2x4 SP No.3 *Except* 6-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-1 oc bracing.

REACTIONS. (lb/size) 2=1440/0-5-8, 10=1440/0-5-8
Max Horz 2=-181(LC 13)
Max Uplift 2=-600(LC 12), 10=-600(LC 13)

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

TOP CHORD 2-3=-5482/2853, 3-5=-5168/2664, 5-6=-4099/2030, 6-7=-4099/2030, 7-9=-5168/2676, 9-10=-5482/2894
BOT CHORD 2-18=-2529/5123, 17-18=-2552/5163, 15-17=-2274/4913, 13-15=-2285/4913, 12-13=-2602/5163, 10-12=-2582/5123
WEBS 6-15=-1290/2789, 7-15=-1093/744, 7-13=-74/322, 9-13=-371/357, 5-15=-1093/746, 5-17=-71/322, 3-17=-371/316

NOTES- (8)

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=21ft; 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) All plates are MT20 plates 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.
6) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=600, 10=600.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

January 22,2018

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Job	Truss	Truss Type	Qty	Ply	RIVER RISE CONST. - CLARK	T13022017
1291638	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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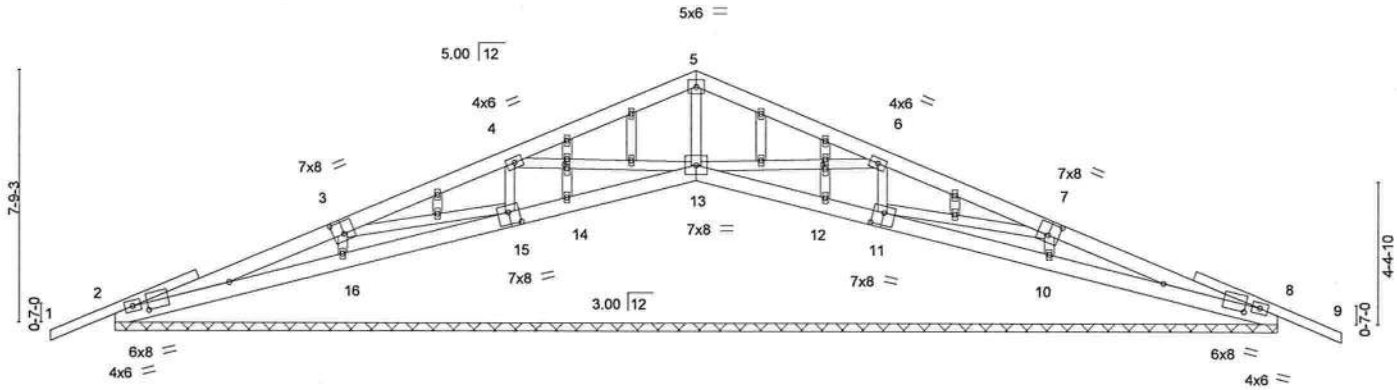
ID:Y?BF0D9Z3zuw1JJtYhjJCAyA3i4-iSCckW1SdaRHzf38R9Bn9u7D8rbkMX0k4O6jTdzsntu

-2-0-0	7-0-11	12-2-11	18-0-0	23-9-5	28-11-5	36-0-0	38-0-0
2-0-0	7-0-11	5-2-0	5-9-5	5-9-5	5-2-0	7-0-11	2-0-0

Scale = 1:68.5



7-0-11	12-2-11	18-0-0	23-9-5	28-11-5	36-0-0
7-0-11	5-2-0	5-9-5	5-9-5	5-2-0	7-0-11

Plate Offsets (X,Y)– [2:0-5-8,0-2-13], [3:0-4-0,0-4-8], [7:0-4-0,0-4-8], [8:0-5-8,0-2-13], [11:0-4-0,0-4-8], [15:0-4-0,0-4-8], [19:0-1-8,0-1-0], [26:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	8-9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.01	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 243 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 1-2,8-9: 2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
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 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,10-11.

REACTIONS. All bearings 36-0-0.

(lb) - Max Horz 2=-172(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 13 except 11=-216(LC 13), 10=-268(LC 13), 15=-228(LC 12), 16=-275(LC 12), 2=-179(LC 8), 8=-211(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 14, 12 except 13=368(LC 1), 11=343(LC 24), 10=513(LC 1), 15=343(LC 23), 16=513(LC 1), 2=343(LC 23), 8=343(LC 24)

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

WEBS 5-13=-288/153, 6-11=-298/258, 7-10=-352/333, 4-15=-298/260, 3-16=-352/332

NOTES- (11)

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=21ft; 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) 13 except (jt=lb) 11=216, 10=268, 15=228, 16=275, 2=179, 8=211.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 11, 10, 15, 16, 14, 12.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

January 22,2018

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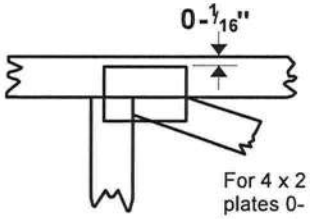
Symbols

PLATE LOCATION AND ORIENTATION

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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

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

PLATE SIZE

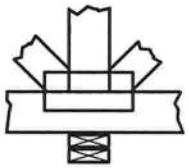
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

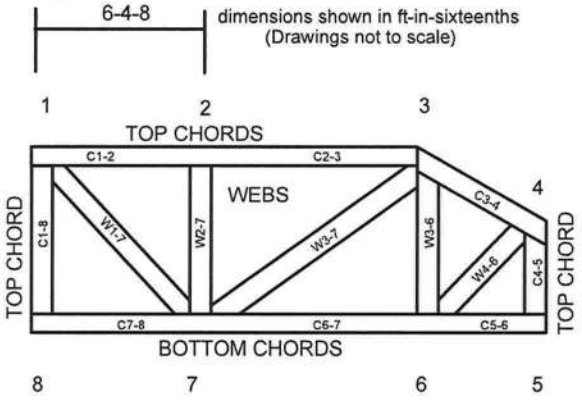


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

⚠ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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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.

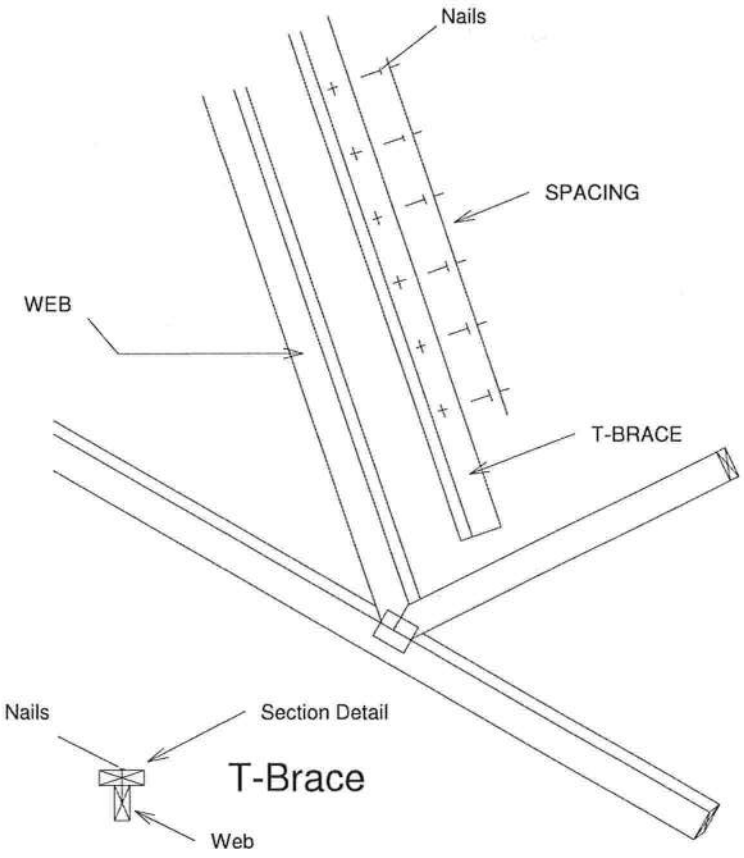
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

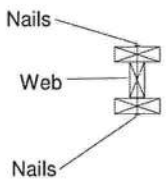
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	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.





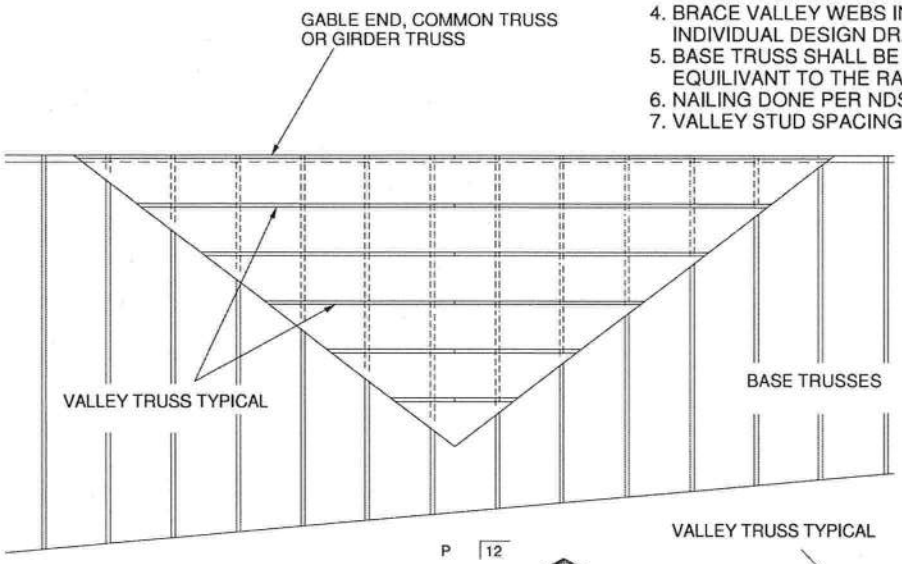
I-Brace

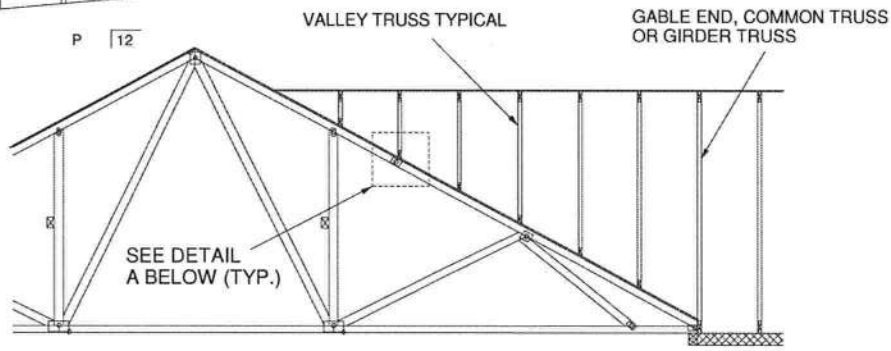
FEBRUARY 14, 2012	TRUSSED VALLEY SET DETAIL	ST-VALLEY HIGH WIND1

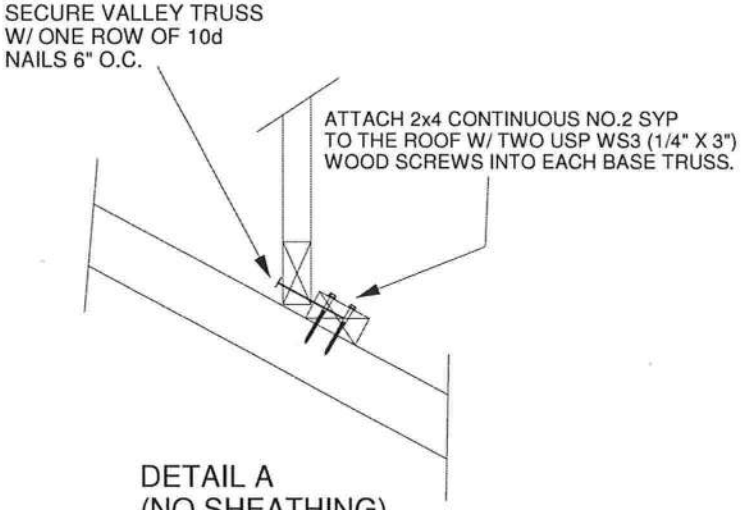
MiTek USA, Inc.

GENERAL SPECIFICATIONS

1. NAIL SIZE = 3" X 0.131" = 10d
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

JANUARY 28, 2015	LATERAL TOE-NAIL DETAIL	ST-TOENAIL_SP

MiTek USA, Inc.

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

	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)					
	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

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

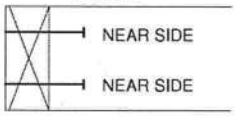
EXAMPLE:
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

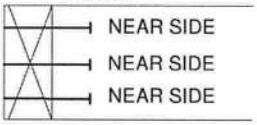
THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

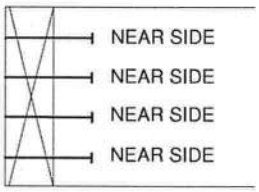
SIDE VIEW
(2x3)
2 NAILS

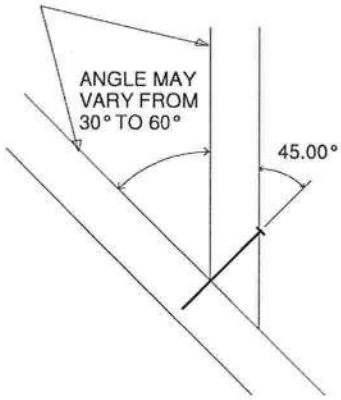


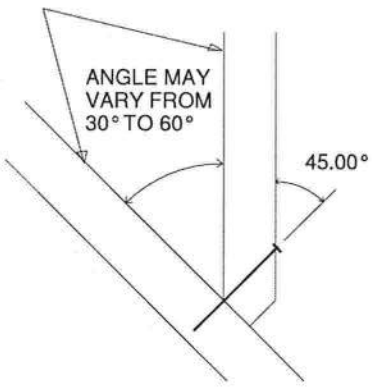
SIDE VIEW
(2x4)
3 NAILS

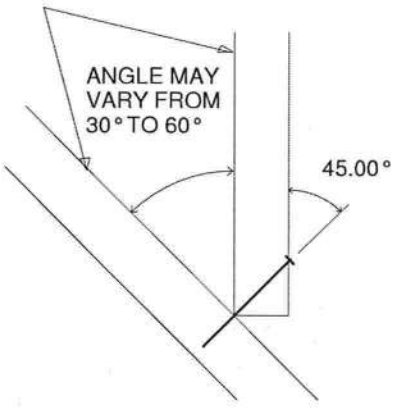


SIDE VIEW
(2x6)
4 NAILS









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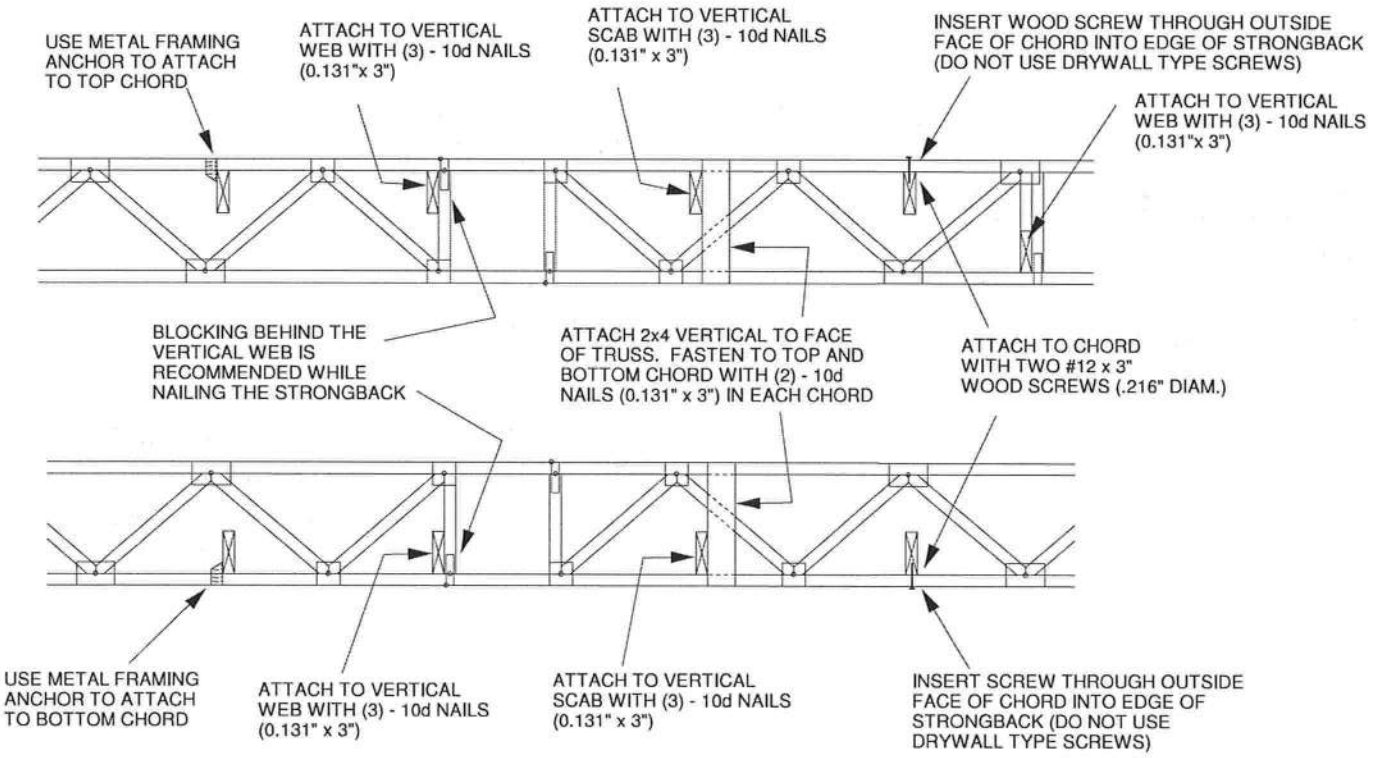
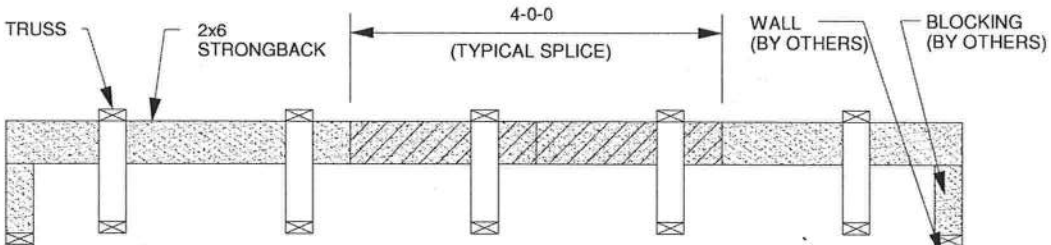
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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 NAILS (0.131" x 3") EQUALLY SPACED.

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

FEBRUARY 14, 2012	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	ST-PIGGY-7-10

MiTek USA, Inc.

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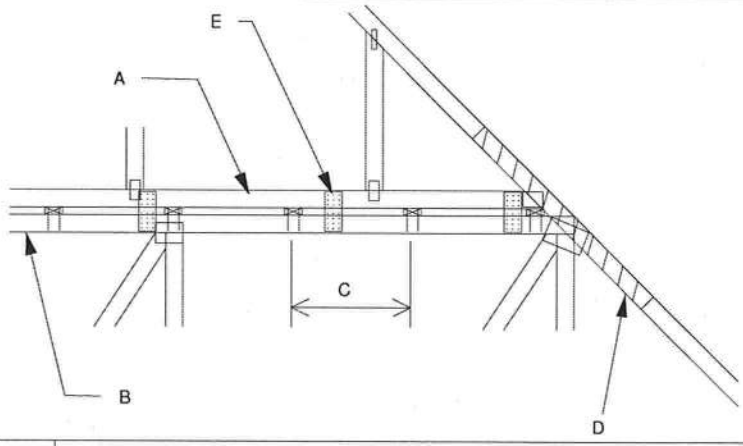
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 DURATION OF LOAD INCREASE : 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

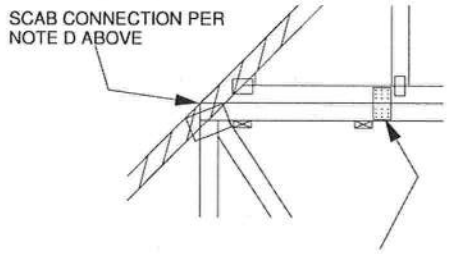
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH.
D - 2 X __ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, 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" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

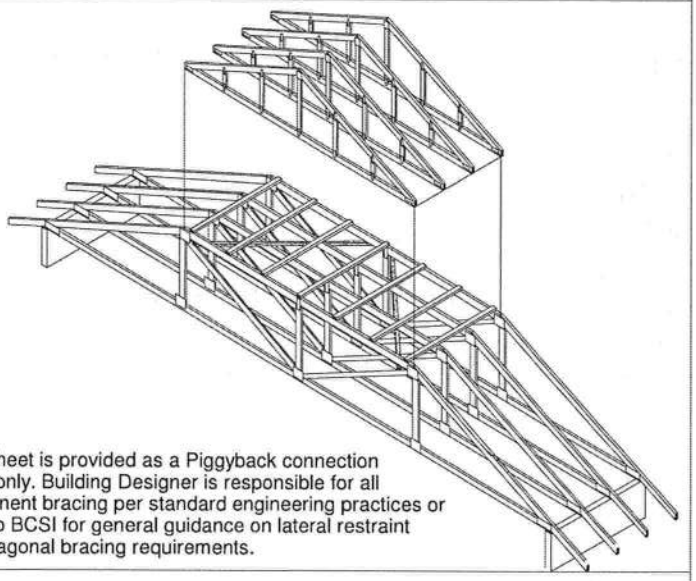


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

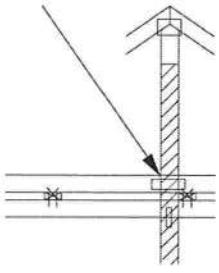


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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.

FEBRUARY 14, 2012	Standard Gable End Detail	ST-GE130-001

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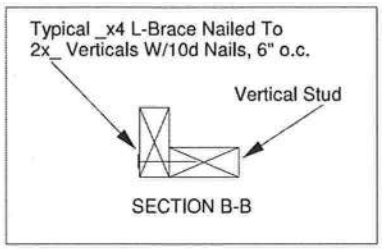
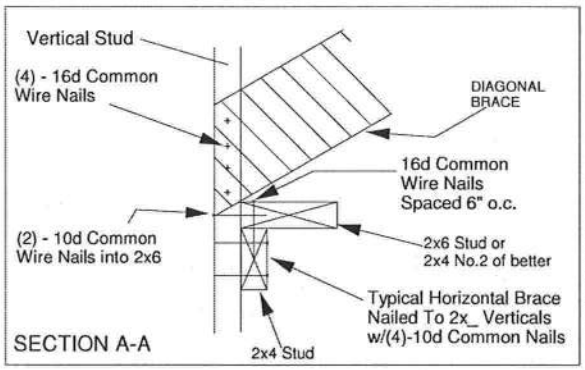
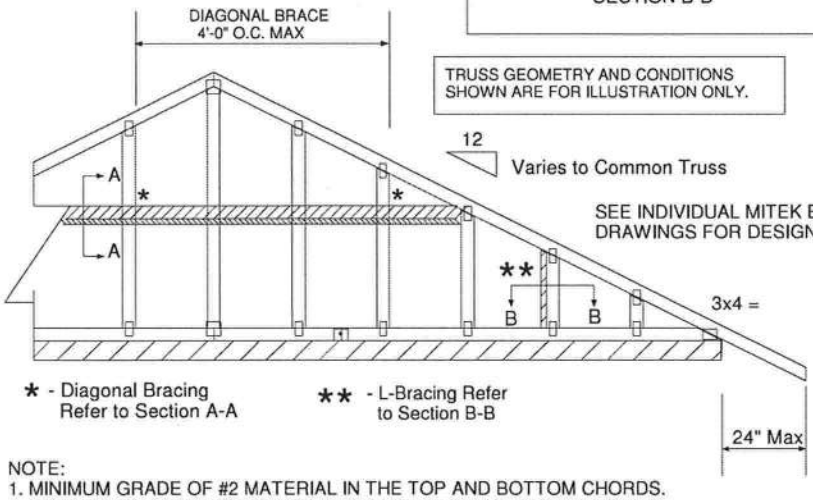






TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

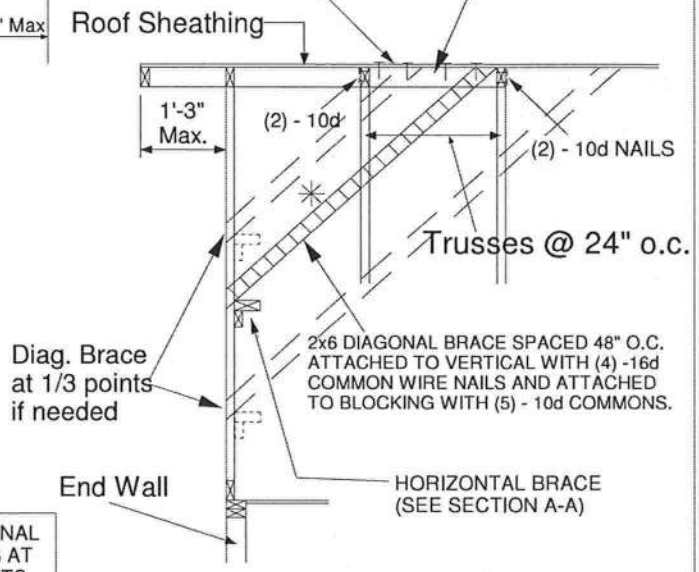
* - Diagonal Bracing Refer to Section A-A

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

24" Max

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 COMMON WIRE NAILS.

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



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.

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 SPF Std/Stud	12" O.C.	4-0-7	4-3-2	6-0-4	8-0-15	12-1-6
2x4 SPF Std/Stud	16" O.C.	3-7-0	3-8-4	5-2-10	7-1-15	10-8-15
2x4 SPF Std/Stud	24" O.C.	2-11-1	3-0-2	4-3-2	5-10-3	8-9-4

✳ 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 common wire nails 8in o.c., with 3in 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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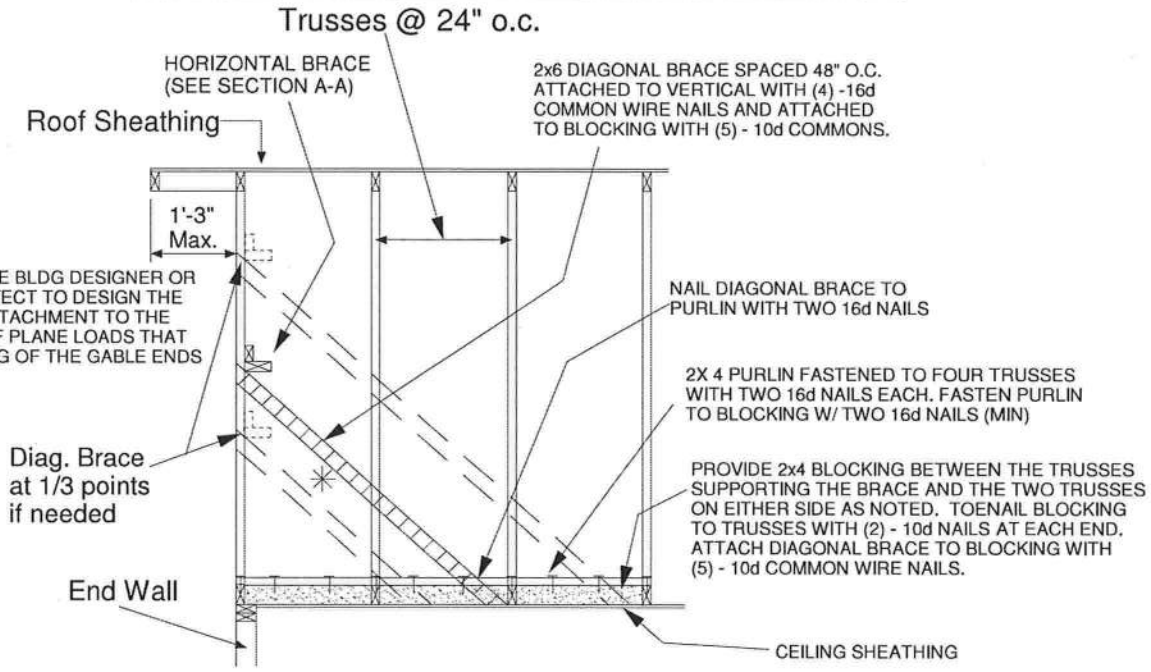
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

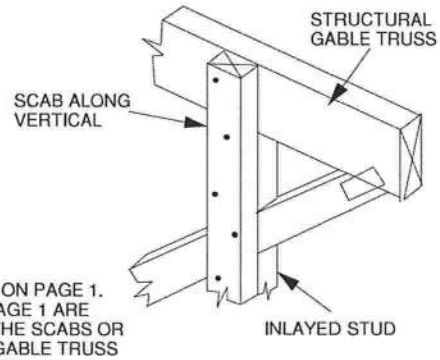
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

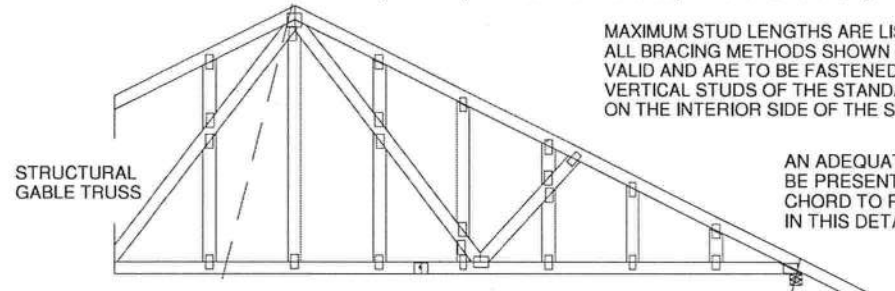
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

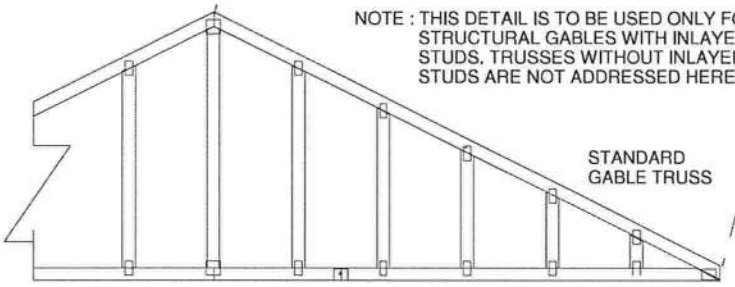


MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.

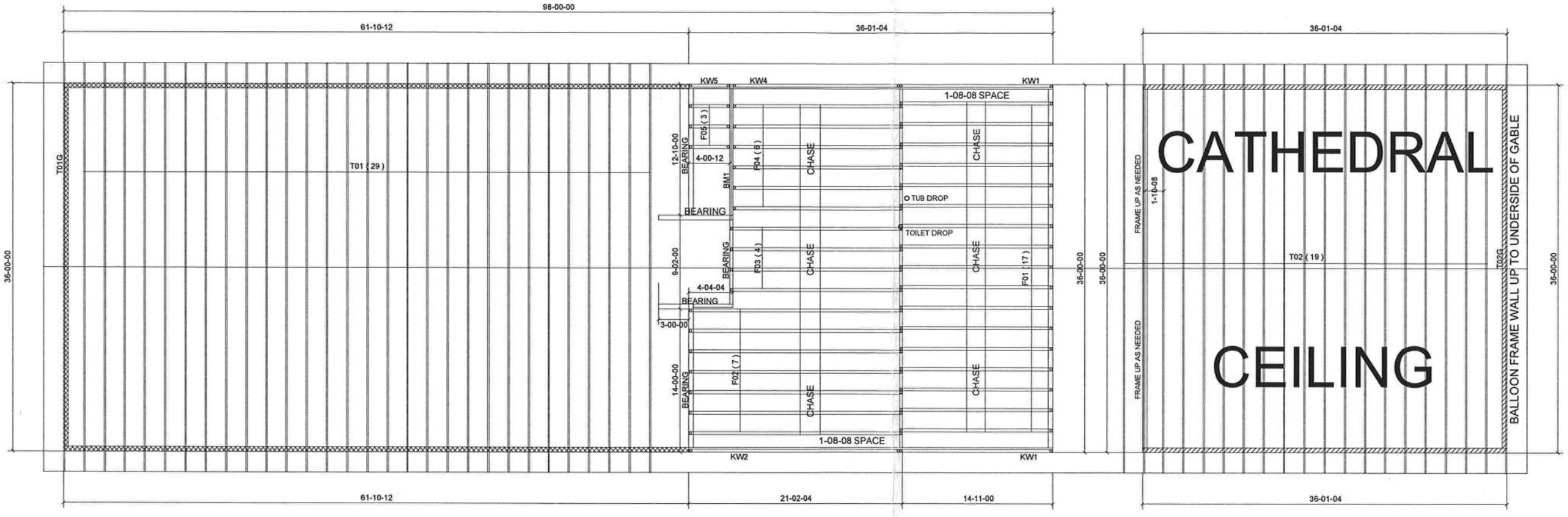


AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

NOTE : THIS DETAIL IS TO BE USED ONLY FOR STRUCTURAL GABLES WITH INLAYED STUDS. TRUSSES WITHOUT INLAYED STUDS ARE NOT ADDRESSED HERE.



5/12 PITCH - 24" O/H



FLOOR TRUSSES
18" DEEP - 24" O/C

9' 1-1/8" FIRST FLOOR
1' 6-3/4" FLOOR/DECKING
5' 5-1/4" SECOND FLOOR

16' 1-1/8"OVERALL PLATE

MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, LP PRODUCT #'s LVL #15228-R3 & LPI #15401-R4

BEARING HEIGHT SCHEDULE

- 9' 1-1/8"
- 5' 5-1/4"
- 16' 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.

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BUILDER: RIVER RISE CONST.		
LEGAL ADDRESS: CLARK RES.		
MODEL:		Revision: / Rev. By:
DATE: 1-22-18	DRAWN BY: KLH	Original Reference #: 1291638
1st Level Job #:	2nd Level Job #:	Roof Job #: 1291638