DATE 10/22/2015

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000033480

APPLICANT JAMES H. JOHNSTON, III. PHONE 386.365.5999

ADDRESS 419 SW LAKEVIEW AVENUE LAKE CITY FL 32025

OWNER MIKE ROBERTS PHONE 386.755.9476

ADDRESS 544 SW GERALD CONNER DR LAKE CITY FL 32024

CONTRACTOR JAMES H. JOHNSTON,III. PHONE 386.365.5999

LOCATION OF PROPERTY 90-W TO C-341,TL TO KICKLIGHTER,TL TO GERALD CONNER,TR AND IT'S 7TH ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 75400.00

HEATED FLOOR AREA 1508.00 TOTAL AREA 2212.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT ____

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

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

PARCEL ID 23-4S-16-03095-107 SUBDIVISION CANNON CREEK PLACE

LOT 7 BLOCK ____ PHASE 2 UNIT ____ TOTAL ACRES 0.50

000002236	____	CRC1328128			
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor		
PWD	15-0488	TC	TC	N	____
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident	Time/STUP No.

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROAD.

Check # or Cash 1107/CASH

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 $ 380.00 CERTIFICATION FEE $ 11.06 SURCHARGE FEE $ 11.06

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

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 502.12

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.

New Construction Subterranean Termite Service Record

#33480

OMB Approval No. 2502-0525
(exp. 04/30/2015)

This form is completed by the licensed Pest Control Company

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information iis required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential, therefore, no assurance of confidentiality is provided.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control company and builder, unless stated otherwise.

Section 1: General Information (Pest Control Company Information)

Company Name: Aspen Pest Control

Company Address P.O. Box 1795 City Lake City State Florida Zip 32056

Company Business License No. JB182948 Company Phone No. (386) 755-3611

FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name Mike Roberts Phone No. 755-9476

Section 3: Property Information

Location of Structure (s) Treated (Street Address or Legal Description, City, State and Zip) 544 SW Gerald Conner DR. Lake City, FL 32024

Section 4: Service Information

Date(s) of Service(s) 11-3-2015

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____

Check all that apply:

☒ A. Soil Applied Liquid Termiticide

Brand Name of Termiticide: Dominion 2L EPA Registration No. 53883-279

Approx. Dilution (%): .05 Approx. Total Gallons Mix Applied: 200 Treatment completed on exterior: ☐ Yes ☒ No

☐ B. Wood Applied Liquid Termiticide

Brand Name of Termiticide: _____ EPA Registration No. _____

Approx. Dilution (%): _____ Approx. Total Gallons Mix Applied: _____

☐ C. Bait system Installed

Name of System _____ EPA Registration No. _____ Number of Stations installed _____

☐ D. Physical Barrier System Installed

Name of System _____ Attach installation information (required)

Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) C. Lacey Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All materials and methods used comply with state and federal regulations.

Authorized Signature _____ Date 11-3-2015

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

#33480

Lake City • (386) 755-3633
Fax • (386) 752-5456

Jacksonville • (904) 381-8901
Fax • (904) 381-8902

CAL-TECH TESTING, INC.

ENGINEERING & TESTING LABORATORY

P.O. Box 1625, Lake City, FL 32056-1625
450 SR. 13 N.• Suite 206-308 • Jacksonville, FL 32259

JOB NO.:
DATE TESTED: 11-3-15

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: ✓ (D-2922) Nuclear _____ (D-2937) Drive Cylinder _____ Other

PROJECT: Lot 7 Cameron Creek Place

CLIENT: Mike Roberts Firemens

GENERAL CONTRACTOR: SAC EARTHWORK CONTRACTOR: SAC

SOIL USE (SEE NOTE): 1 SPECIFICATION REQUIREMENTS: 95%

TECHNICIAN: C. Day

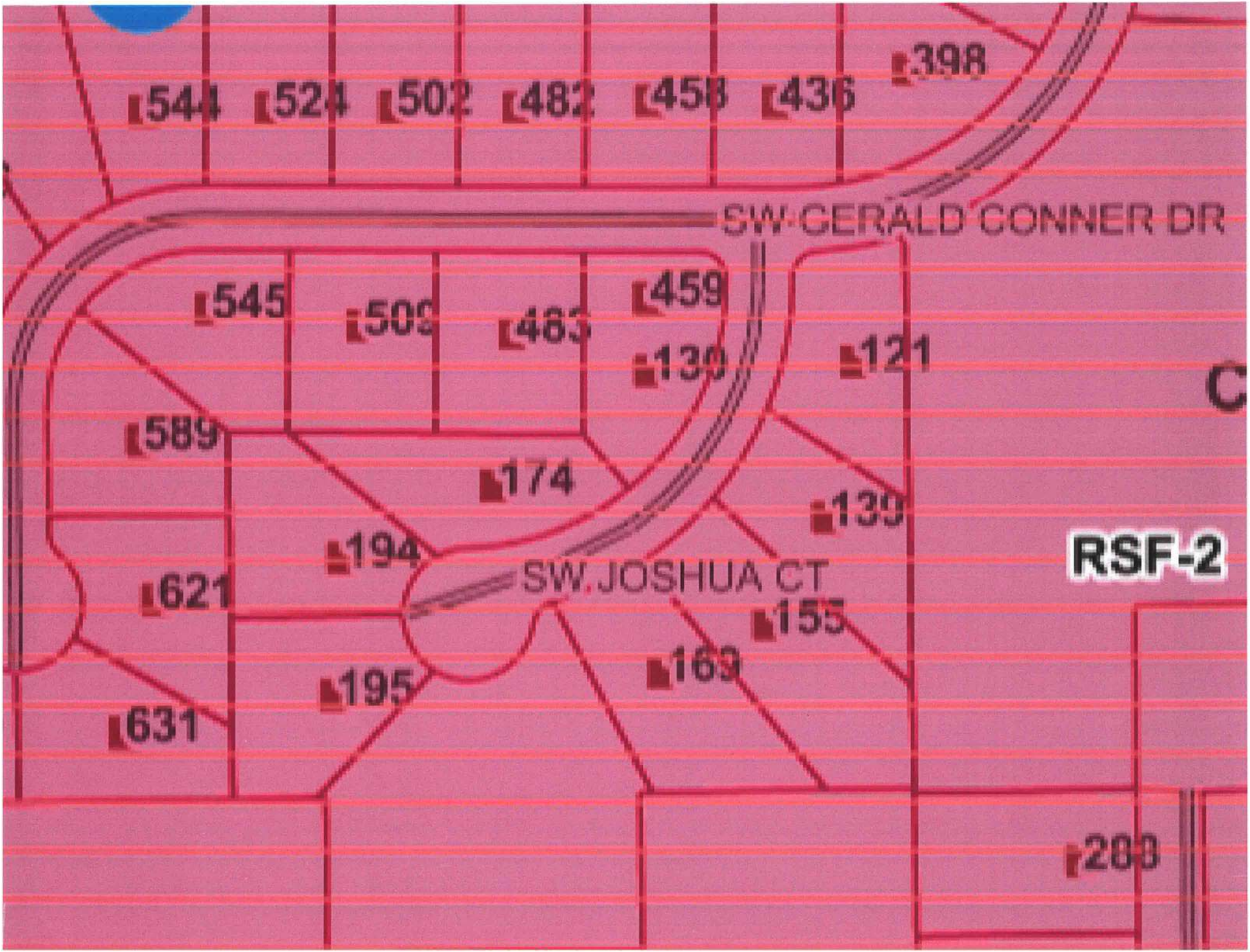
MODIFIED (ASTM D-1557): ✓ STANDARD (ASTM D-698): _____

TEST NO.	TEST LOCATION	TEST: ___DEPTH ___ELEV. ___LIFT	PROCTOR NO.	WET DENS. LBS.CU.FT.	DRY DENS. LBS.CU.FT.	MOIST PERCENT	% MAX. DENS.
1	Center of West end 12' east at subgrade	12"	1	108.0	103.1	4.8	99
2	Center of pad at subgrade	12"	1	107.5	103.5	3.9	100
3	Center of East end 10' west at Subgrade	12"	1	108.2	102.9	5.2	99

REMARKS: _____

PROCTOR NO.	SOIL DESCRIPTION	PROCTOR VALUE	OPT. MOIST.
1	Tan Sand	104	10.0
	Richardson's Ft. White Pit		

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other

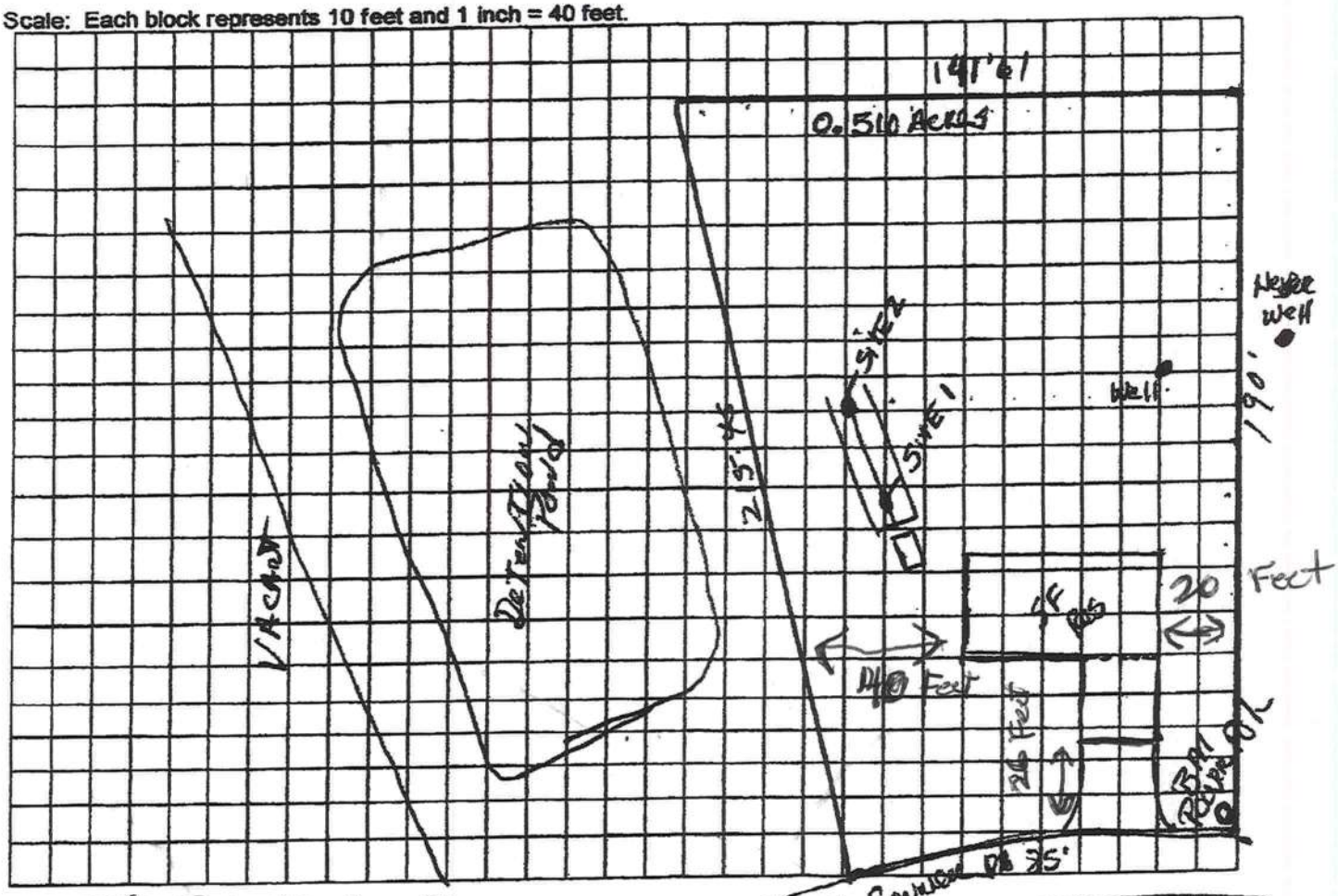

544
524
502
482
458
436
398
SW GERALD CONNER DR
545
509
483
459
130
121
589
174
139
194
621
SW JOSHUA CT
155
163
195
631
RSF-2

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 15-0488

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

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: Mike Roberts Lot 7
Unit 2 Cannon Creek Place
23-4S-16-03095-107 0.510 Acres

Site Plan submitted by: Robert W. Ford 9/15/15

Plan Approved ___ Not Approved ___ Date 9/20/15

By ___ Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

FAXED

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

PERMIT #: 12-SC-1630981
APPLICATION #: AP1204872
DATE PAID: 9/16/15
FEE PAID: 300.00
RECEIPT #: 2794395
DOCUMENT #: PR988116

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: MIKE**15-0488 ROBERTS

PROPERTY ADDRESS: 544 SW GERALD CONNER Dr Lake City, FL 32025

LOT: 7 BLOCK: SUBDIVISION: Cannon Creek Place U-2

PROPERTY ID #: 03095-107 [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 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 power pole
I ELEVATION OF PROPOSED SYSTEM SITE [24.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [52.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [36.00] INCHES

O T H E R

1.) The system is sized for 3 bedrooms with a maximum occupancy of 6 persons (2 per bedroom), for a total estimated flow of 300 gpd.
2.) Contractor specifies install requires the excavation of fill material to a depth of 24"-36" to be replaced with suitable fill material.

SPECIFICATIONS BY: Robert W Ford TITLE: Master Contractor

APPROVED BY: Jeremy X Gifford TITLE: Environmental Specialist I Columbia CHD

DATE ISSUED: 09/20/2015 EXPIRATION DATE: 03/20/2017

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

v 1.1.4 AP1204872 SE971795

2

SUBCONTRACTOR VERIFICATION FORM Lot 7

APPLICATION NUMBER 1510-31 CONTRACTOR James N. Johnston, II PHONE 386.365.5999.

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County 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 permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL 76	Print Name Marcus Matthews License #: EC13005459	Signature Phone #: 344-2029
MECHANICAL/ A/C 802	Print Name Clinton Wilson License #: CAC057886	Signature Phone #: 386-496-9000
PLUMBING/ GAS 298	Print Name Hovetown Plumbing License #: CFC1428890	Signature Phone #: 386 754-6140
ROOFING 486	Print Name James Johnston License #: CRC1328128	Signature Phone #: 365-5999
SHEET METAL N.A	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER N.A	Print Name License#:	Signature Phone #:
SOLAR N.A	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	N. A.		
CONCRETE FINISHER	000025	GARY Moore	
FRAMING	000101	Mike Roberts	
INSULATION	CRC1328128	James Johnston	
STUCCO	N. A.		
DRYWALL	CRC1328128	James Johnston	
PLASTER	"	" "	" "
CABINET INSTALLER	000160	Michael Tuel	Mike Tuel
PAINTING	000848	Mike Roberts	
ACOUSTICAL CEILING	N.A		
GLASS	N. A.		
CERAMIC TILE	000849	Mike Roberts	
FLOOR COVERING	N/A		
ALUM/VINYL SIDING	N/A		
GARAGE DOOR	000619	Carl Bullard JR	
METAL BLDG ERECTOR	N. A.		

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1510-31 CONTRACTOR JAMES H. JOHNSON PHONE 386.365.5999

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County 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 permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name License #:	Signature Phone #:
MECHANICAL/ A/C _____	Print Name License #:	Signature Phone #:
PLUMBING/ GAS	Print Name License #:	Signature Phone #:
ROOFING	Print Name License #:	Signature Phone #:
SHEET METAL	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:	Signature Phone #:
SOLAR	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	25		
CONCRETE FINISHER 25	25	Gary W Moore SR	
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

RECEIVED
OCT 21 2015
By

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

#33480

WoodWorks® SOFTWARE FOR WOOD DESIGN

COMPANY	PROJECT
Mark Disosway PE 386-754-5419 163 sw Midtown Place #103 Lake City, FL 32025 Oct. 29, 2015 14:08:03	Mike Roberts Spec House Lot 7, Cannon Creek Job #150997 Rear Porch Side Header

MARK D DISOSWAY III LICENSE No 53915 STATE OF FLORIDA PROFESSIONAL ENGINEER 10-29-2015

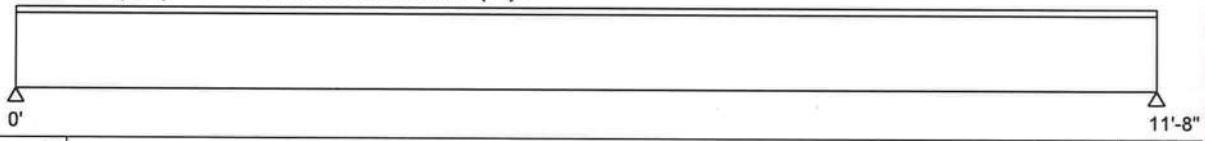
Design Check Calculation Sheet

Sizer 2004

LOADS: (lbs, psf, or plf)

Load	Type	Distribution	Magnitude Start	Magnitude End	Location [ft] Start	Location [ft] End	Pattern Load?
Load1	Live	Point	233		1.00		No
Load2	Live	Point	234		3.00		No
Load3	Live	Point	206		5.00		No
Load4	Live	Point	927		7.00		No
Load5	Live	Point	620		9.00		No
Load6	Live	Point	620		11.00		No

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in) :



Dead	63		63
Live	1053		1787
Total	1115		1850
Bearing:			
LC number	2		2
Length	1.0		1.0

Lumber, SP, #2, 2x10", 3-Plys

Self Weight of 10.79 plf automatically included in loads;

Lateral support: top= full, bottom= at supports; Repetitive factor: applied where permitted (refer to online help); Load combinations: ICC-IBC;

SECTION vs. DESIGN CODE NDS-2001: (stress=psi, and in)

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	fv* = 64	Fv' = 175	fv*/Fv' = 0.36
Bending(+)	fb = 897	Fb' = 931	fb/Fb' = 0.96
Live Defl'n	0.25 = L/565	0.39 = L/360	0.64
Total Defl'n	0.26 = L/530	0.58 = L/240	0.45

*The effect of point loads within a distance d of the support has been included as per NDS 3.4.3.1

ADDITIONAL DATA:

FACTORS:	F	CD	CM	Ct	CL	CF	Cfu	Cr	Cfrt	Ci	Cn	LC#
Fb'+	750	1.00	1.00	1.00	1.000	1.080	1.00	1.15	1.00	1.00	-	2
Fv'	175	1.00	1.00	1.00	-	-	-	-	1.00	1.00	1.00	2
Fcp'	565	-	1.00	1.00	-	-	-	-	1.00	1.00	-	-
E'	1.4 million		1.00	1.00	-	-	-	-	1.00	1.00	-	2

Bending(+): LC# 2 = L, M = 4797 lbs-ft
Shear : LC# 2 = L, V = 1850, V design* = 1763 lbs
Deflection: LC# 2 = L EI= 138.50e06 lb-in2/ply
Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.
(D=dead L=live S=snow W=wind I=impact C=construction CLd=concentrated)
(All LC's are listed in the Analysis output)

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.
2. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
3. BUILT-UP BEAMS: it is assumed that each ply is a single continuous member (that is, no butt joints are present) fastened together securely at intervals not exceeding 4 times the depth and that each ply is equally top-loaded. Where beams are side-loaded, special fastening details may be required.

Columbia County Building Department
Culvert Permit

33480

Culvert Permit No.
000002236

DATE 10/22/2015 PARCEL ID # 23-4S-16-03095-107

APPLICANT JAMES H. JOHNSTON, III. PHONE 386.365.5999

ADDRESS 419 SW LAKEVIEW AVENUE LAKE CITY FL 32025

OWNER MIKE ROBERTS PHONE 386.755.9476

ADDRESS 544 SW GERALD CONNER DR LAKE CITY FL 3204

CONTRACTOR JAMES H. JOHNSTON,III. PHONE 386.365.5999

LOCATION OF PROPERTY 90-W TO C-341,TL TO KICKLIGHTER,TL TO GERALD CONNER,TR AND IT'S 7TH ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CANNON CREEK PLACE 7 2

INSTALLATION INFORMATION

SIGNATURE

(A) A culvert shall be required to be installed as part of any newly constructed private driveway or road, or public road, which connects to a county road in Columbia County. Culvert installation for residential use shall require a permit issued by the Building and Zoning Department. Prior to any culvert permit being issued, an inspection by the Public Works Department shall be required to determine the proper size, length, and location for installation. Culvert installation for commercial, industrial, and other uses shall conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications.

(B) The culvert shall comply and be installed in accordance with Columbia County Land Development Regulation, Access Control: Section 4.2.3 standards. Proper installation of the culvert shall be verified by a final inspection performed by the Public Works Department.

(C) All culverts required by this policy shall be installed prior to the Building Department granting permission to connect permanent electrical service to the facility or facilities being serviced by newly constructed private driveway or road. In cases where no electrical service exists, installation shall be completed prior to final inspection approval.

(D) Mitered-end culverts shall be used in the following applications:
(1) When the culvert is to be placed giving access to a paved street.; (2) When the road is contained within a subdivision (recorded or unrecorded) that has not reached a "build out" of fifty percent (50%) or more.; (3) In all new subdivisions for residential use. New subdivisions shall be required as part of the final plat to specify culvert diameter and length.; (4) When the predominant use already established by the use of mitered-end culverts period.

☐ Culvert installation shall conform to the approved site plan standards.

☐ Department of Transportation Permit installation approved standards.

☒ Shall conform to Public Works Determinations as Stated Below:

INSTALL MIN. 18"x32FT CORR. METAL PIPE WITH CONCRETED MITRED END SECTIONS REINFORCED WITH 6X6 W.W. REBAR AND CULVERT BOOTS

P W Inspectors Name: Donny DuVree Date: 10/29/2015

Final Inspection Date: 10-28-16 P W Inspectors Name: JUSTIN SIKES Signature:

CONTACT FOR REQUIREMENTS AND INSPECTIONS:

PUBLIC WORKS DEPARTMENT
Phone: 386-758-1019

Amount Paid 25.00
Check No. CASH REC'D.

All Proper Safety Requirements Should Be Followed During The Installation Of The Culvert

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL 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 7/1/15

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable		
				Yes	**No**	**N/A**
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.)**	1508	**Total (Sq. Ft.) under roof** 2212	IIIIIII	IIIIIII	IIIII

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 Circled as Applicable		
8	**Plans or specifications must show compliance with FBCR Chapter 3**	IIIIII	IIIII	IIIIII
		YES	**NO**	**N/A**
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			
	Location and size of skylights with Florida Product Approval			
	Number of stories			
	ilding 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 Circled as Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
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).			

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
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 FBCB 2308.9.5			
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 802.1.7.1 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 Energy Conservation R.401

Residential construction shall comply with this code by using the following compliance methods in the Residential buildings compliance methods. **Two of the required forms are to be submitted**, *R 402-2014 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form R 402-2014, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	**NO**	**N/A**
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. NEC 210.12A	✓		

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.	/		
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	/		
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	/		
95	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031			/
96	**Toilet facilities shall be provided for all construction sites**	/		
97	**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.			/
98	**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	/		
99	**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.	/		
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**			/
101	**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.	/		
102	**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.	/		

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 official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

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

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

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

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

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

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

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

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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

_____

Contractor OR Agent Signature Date

NOTES: _____

_____

_____

FLORIDA PRODUCT APPROVALS
10-16-15

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
Underlayment:	Woodland	30# Felt	FL-17206-R3
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

JULIUS LEE PE.

RE: 712357 -

1109 COASTAL BAY BLVD,
BOYNTON BEACH, FL 33435

Site Information:
Project Customer: Mike Roberts Project Name: 712357 Model: Custom
Lot/Block: 7 Subdivision: Cannon Creek Place
Address:
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 seal License #: Unknown at time of seal
Address: Unknown at time of seal
City: Unknown at time of seal State: Unknown at time of seal

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 24 individual, dated 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.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.

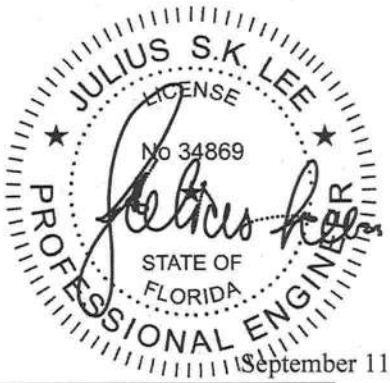
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I10520378	CJ01	9/11/015	18	I10520395	T12	9/11/015
2	I10520379	CJ02	9/11/015	19	I10520396	T15	9/11/015
3	I10520380	CJ03	9/11/015	20	I10520397	T16	9/11/015
4	I10520381	EJ01	9/11/015	21	I10520398	T17	9/11/015
5	I10520382	EJ02	9/11/015	22	I10520399	T18	9/11/015
6	I10520383	HJ01	9/11/015	23	I10520400	T19	9/11/015
7	I10520384	HJ02	9/11/015	24	I10520401	T20	9/11/015
8	I10520385	T03	9/11/015				
9	I10520386	T03G	9/11/015				
10	I10520387	T04	9/11/015				
11	I10520388	T05	9/11/015				
12	I10520389	T06	9/11/015				
13	I10520390	T07	9/11/015				
14	I10520391	T08	9/11/015				
15	I10520392	T09	9/11/015				
16	I10520393	T10	9/11/015				
17	I10520394	T11	9/11/015				

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

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2015.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.



September 11,2015

Julius Lee

Job	Truss	Truss Type	Qty	Ply	
712357	CJ01	Jack-Open Truss	12	1	I10520378
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:55 2015 Page 1

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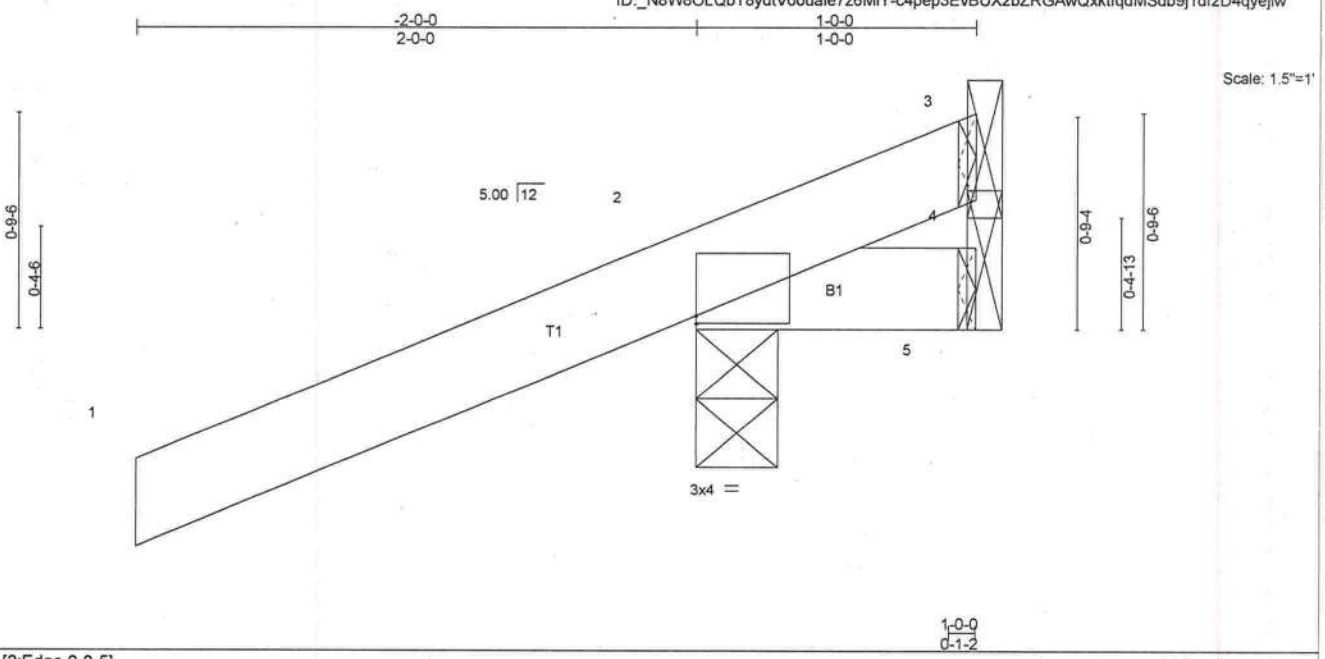

Plate Offsets (X,Y)-- [2:Edge,0-0-5]

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	0.30	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 7 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=-14/Mechanical, 2=233/0-3-8 (min. 0-1-8), 5=-47/Mechanical
Max Horz 2=57(LC 8)
Max Uplift 3=-14(LC 1), 2=-187(LC 8), 5=-47(LC 1)
Max Grav 3=15(LC 8), 2=233(LC 1), 5=45(LC 8)

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

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3, 187 lb uplift at joint 2 and 47 lb uplift at joint 5.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	CJ03	Jack-Open Truss	10	1	I10520380

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:57 2015 Page 1

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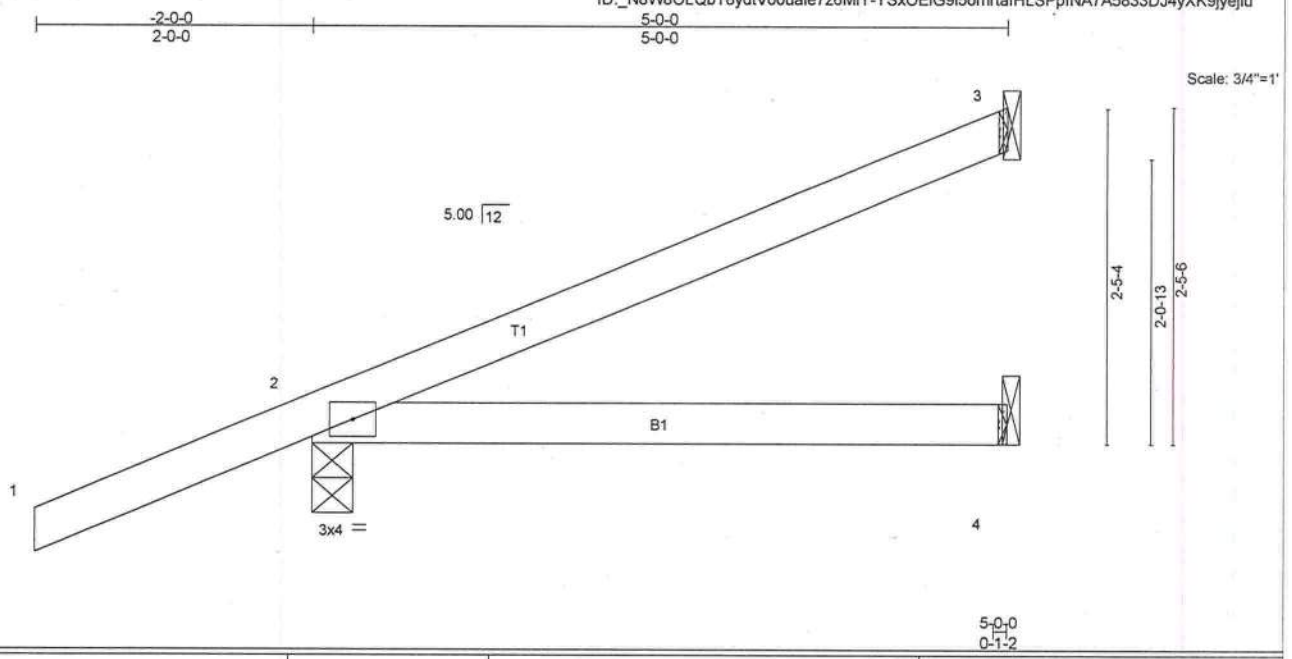


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=98/Mechanical, 2=301/0-3-8 (min. 0-1-8), 4=26/Mechanical
Max Horz 2=135(LC 12)
Max Uplift 3=-87(LC 12), 2=-206(LC 8), 4=-37(LC 9)
Max Grav 3=98(LC 1), 2=301(LC 1), 4=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/636
BOT CHORD 2-4=-915/477

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 206 lb uplift at joint 2 and 37 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

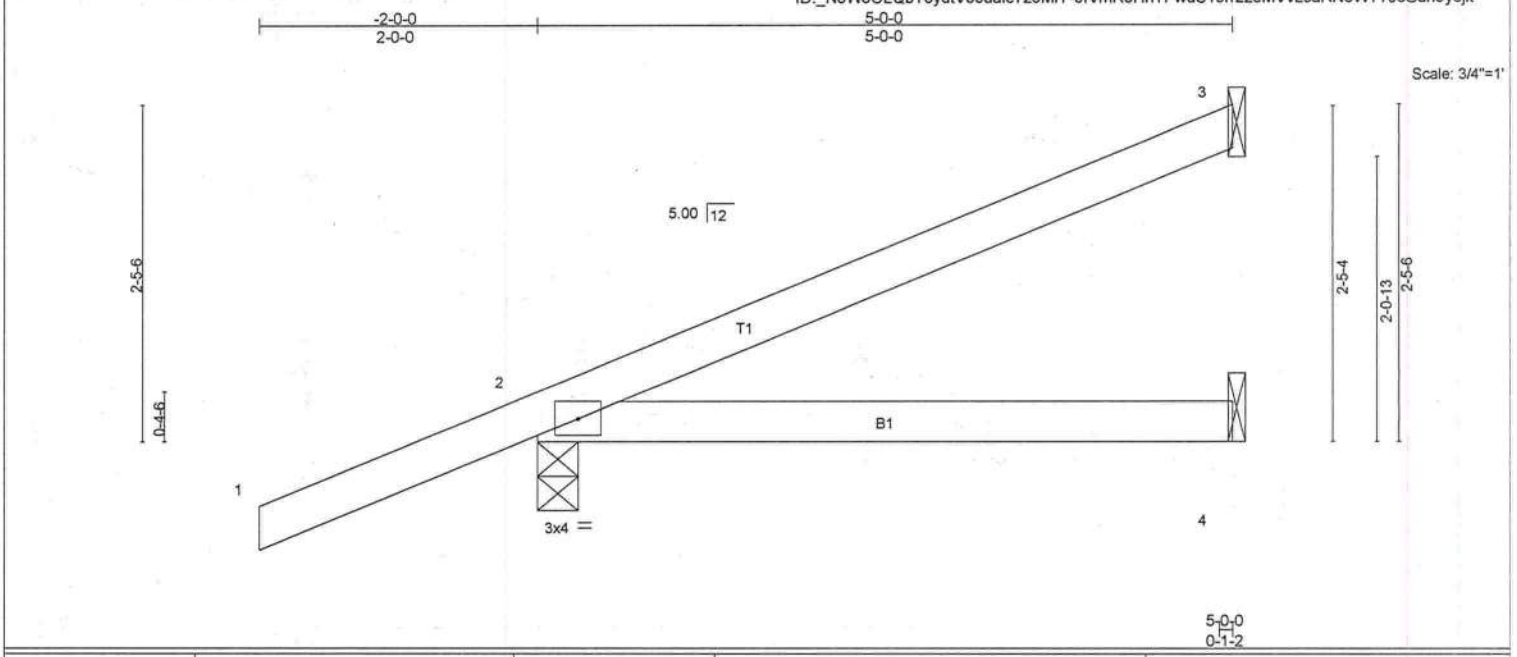
Job	Truss	Truss Type	Qty	Ply	
712357	EJ02	Jack-Open Truss	4	1	I10520382

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:57:58 2015 Page 1

ID:_N8W8OLQbT8ydtVoouale7z6MiY-0fVmR5HnTPwdS19rr2zeMVvLsaRNoWTTJcGuh9yejlt



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	0.30	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=98/Mechanical, 2=301/0-3-8 (min. 0-1-8), 4=26/Mechanical
Max Horz 2=135(LC 12)
Max Uplift 3=-87(LC 12), 2=-206(LC 8), 4=-37(LC 9)
Max Grav 3=98(LC 1), 2=301(LC 1), 4=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/636
BOT CHORD 2-4=-915/477

NOTES- (7-9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 206 lb uplift at joint 2 and 37 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-44, 5-8=-10
   Concentrated Loads (lb)
   Vert: 11=46(F=23, B=23) 12=41(F=20, B=20) 13=-36(F=-18, B=-18) 14=43(F=21, B=21) 15=6(F=3, B=3) 16=-20(F=-10, B=-10)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-14, 5-8=-30
   Concentrated Loads (lb)
   Vert: 11=46(F=23, B=23) 12=3(F=1, B=1) 13=-22(F=-11, B=-11) 14=79(F=40, B=40) 15=19(F=9, B=9) 16=-31(F=-15, B=-15)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=56, 2-4=40, 5-8=17
   Horz: 1-2=-65, 2-4=-49
   Concentrated Loads (lb)
   Vert: 11=-118(F=-59, B=-59) 12=-22(F=-11, B=-11) 13=59(F=30, B=30) 14=-61(F=-30, B=-30) 15=-6(F=-3, B=-3) 16=26(F=13, B=13)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=17, 2-4=24, 5-8=17
   Horz: 1-2=-25, 2-4=-32
   Concentrated Loads (lb)
   Vert: 11=-72(F=-36, B=-36) 12=24(F=12, B=12) 13=105(F=53, B=53) 14=-61(F=-30, B=-30) 15=-6(F=-3, B=-3) 16=26(F=13, B=13)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=28, 2-4=21, 5-8=13
   Horz: 1-2=-42, 2-4=-35
   Concentrated Loads (lb)
   Vert: 11=-62(F=-31, B=-31) 12=33(F=17, B=17) 13=115(F=57, B=57) 14=-50(F=-25, B=-25) 15=6(F=3, B=3) 16=38(F=19, B=19)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=11, 2-4=4, 5-8=13
   Horz: 1-2=-25, 2-4=-18
   Concentrated Loads (lb)
   Vert: 11=-16(F=-8, B=-8) 12=79(F=40, B=40) 13=161(F=80, B=80) 14=-50(F=-25, B=-25) 15=6(F=3, B=3) 16=38(F=19, B=19)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=33, 2-4=40, 5-8=-6
   Horz: 1-2=-42, 2-4=-49
   Concentrated Loads (lb)
   Vert: 11=-118(F=-59, B=-59) 12=-22(F=-11, B=-11) 13=59(F=30, B=30) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=12, 2-4=19, 5-8=-6
   Horz: 1-2=-21, 2-4=-28
   Concentrated Loads (lb)
   Vert: 11=-58(F=-29, B=-29) 12=37(F=19, B=19) 13=119(F=59, B=59) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=33, 2-4=40, 5-8=-6
   Horz: 1-2=-42, 2-4=-49
   Concentrated Loads (lb)
   Vert: 11=-118(F=-59, B=-59) 12=-22(F=-11, B=-11) 13=59(F=30, B=30) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=12, 2-4=19, 5-8=-6
   Horz: 1-2=-21, 2-4=-28
   Concentrated Loads (lb)
   Vert: 11=-58(F=-29, B=-29) 12=37(F=19, B=19) 13=119(F=59, B=59) 14=5(F=2, B=2) 15=60(F=30, B=30) 16=92(F=46, B=46)
12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=28, 2-4=21, 5-8=-10
   Horz: 1-2=-42, 2-4=-35
   Concentrated Loads (lb)
   Vert: 11=-62(F=-31, B=-31) 12=33(F=17, B=17) 13=115(F=57, B=57) 14=16(F=8, B=8) 15=71(F=36, B=36) 16=103(F=52, B=52)
13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=7, 2-4=-0, 5-8=-10
   Horz: 1-2=-21, 2-4=-14
   Concentrated Loads (lb)
   Vert: 11=-3(F=-1, B=-1) 12=93(F=46, B=46) 13=174(F=87, B=87) 14=16(F=8, B=8) 15=71(F=36, B=36) 16=103(F=52, B=52)
14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-4=-14, 5-8=-10
   Concentrated Loads (lb)
   Vert: 11=46(F=23, B=23) 12=10(F=5, B=5) 13=-14(F=-7, B=-7) 14=43(F=21, B=21) 15=6(F=3, B=3) 16=-13(F=-6, B=-6)

Continued on page 3

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 11=-107(F=-53, B=-53) 12=-68(F=-34, B=-34) 13=-66(F=-33, B=-33) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4) 16=-22(F=-11, B=-11)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 5-8=-6
Horz: 1-2=-42, 2-4=-49
Concentrated Loads (lb)
Vert: 11=-166(F=-83, B=-83) 12=-127(F=-64, B=-64) 13=-126(F=-63, B=-63) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4) 16=-22(F=-11, B=-11)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 5-8=-6
Horz: 1-2=-21, 2-4=-28
Concentrated Loads (lb)
Vert: 11=-107(F=-53, B=-53) 12=-68(F=-34, B=-34) 13=-66(F=-33, B=-33) 14=-67(F=-33, B=-33) 15=-8(F=-4, B=-4) 16=-22(F=-11, B=-11)

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=21, 5-8=-10
Horz: 1-2=-42, 2-4=-35
Concentrated Loads (lb)
Vert: 11=-111(F=-55, B=-55) 12=-72(F=-36, B=-36) 13=-70(F=-35, B=-35) 14=-56(F=-28, B=-28) 15=4(F=2, B=2) 16=-11(F=-6, B=-6)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-0, 5-8=-10
Horz: 1-2=-21, 2-4=-14
Concentrated Loads (lb)
Vert: 11=-51(F=-26, B=-26) 12=-12(F=-6, B=-6) 13=-11(F=-5, B=-5) 14=-56(F=-28, B=-28) 15=4(F=2, B=2) 16=-11(F=-6, B=-6)

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 5-8=7
Horz: 1-2=-31, 2-4=-26
Concentrated Loads (lb)
Vert: 11=-72(F=-36, B=-36) 12=-7(F=-4, B=-4) 13=-51(F=-26, B=-26) 14=-82(F=-41, B=-41) 15=-45(F=-22, B=-22) 16=-66(F=-33, B=-33)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-4=-30, 5-8=7
Horz: 1-2=-19, 2-4=-14
Concentrated Loads (lb)
Vert: 11=-38(F=-19, B=-19) 12=27(F=14, B=14) 13=-17(F=-8, B=-8) 14=-82(F=-41, B=-41) 15=-45(F=-22, B=-22) 16=-66(F=-33, B=-33)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-4=-18, 5-8=-10
Horz: 1-2=-31, 2-4=-26
Concentrated Loads (lb)
Vert: 11=-72(F=-36, B=-36) 12=-7(F=-4, B=-4) 13=-51(F=-26, B=-26) 14=-32(F=-16, B=-16) 15=4(F=2, B=2) 16=-17(F=-9, B=-9)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-34, 5-8=-10
Horz: 1-2=-15, 2-4=-10
Concentrated Loads (lb)
Vert: 11=-28(F=-14, B=-14) 12=37(F=19, B=19) 13=-7(F=-3, B=-3) 14=-32(F=-16, B=-16) 15=4(F=2, B=2) 16=-17(F=-9, B=-9)

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LOAD CASE(S)

Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=41(F=20, B=20) 10=43(F=21, B=21) 11=6(F=3, B=3)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 4-5=-30
Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=3(F=1, B=1) 10=79(F=40, B=40) 11=19(F=9, B=9)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-3=40, 4-5=17
Horz: 1-2=-65, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-118(F=-59, B=-59) 9=-22(F=-11, B=-11) 10=-61(F=-30, B=-30) 11=-6(F=-3, B=-3)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-3=24, 4-5=17
Horz: 1-2=-25, 2-3=-32
Concentrated Loads (lb)
Vert: 8=-72(F=-36, B=-36) 9=24(F=12, B=12) 10=-61(F=-30, B=-30) 11=-6(F=-3, B=-3)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=13
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-62(F=-31, B=-31) 9=33(F=17, B=17) 10=-50(F=-25, B=-25) 11=6(F=3, B=3)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=4, 4-5=13
Horz: 1-2=-25, 2-3=-18
Concentrated Loads (lb)
Vert: 8=-16(F=-8, B=-8) 9=79(F=40, B=40) 10=-50(F=-25, B=-25) 11=6(F=3, B=3)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-3=40, 4-5=-6
Horz: 1-2=-42, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-118(F=-59, B=-59) 9=-22(F=-11, B=-11) 10=5(F=2, B=2) 11=60(F=30, B=30)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-58(F=-29, B=-29) 9=37(F=19, B=19) 10=5(F=2, B=2) 11=60(F=30, B=30)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-3=40, 4-5=-6
Horz: 1-2=-42, 2-3=-49
Concentrated Loads (lb)
Vert: 8=-118(F=-59, B=-59) 9=-22(F=-11, B=-11) 10=5(F=2, B=2) 11=60(F=30, B=30)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-58(F=-29, B=-29) 9=37(F=19, B=19) 10=5(F=2, B=2) 11=60(F=30, B=30)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=-10
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-62(F=-31, B=-31) 9=33(F=17, B=17) 10=16(F=8, B=8) 11=71(F=36, B=36)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-3=-0, 4-5=-10
Horz: 1-2=-21, 2-3=-14
Concentrated Loads (lb)
Vert: 8=-3(F=-1, B=-1) 9=93(F=46, B=46) 10=16(F=8, B=8) 11=71(F=36, B=36)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 4-5=-10
Concentrated Loads (lb)
Vert: 8=46(F=23, B=23) 9=10(F=5, B=5) 10=43(F=21, B=21) 11=6(F=3, B=3)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=7
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=72(F=36, B=36) 9=30(F=15, B=15) 10=12(F=6, B=6) 11=8(F=4, B=4)

Continued on page 3

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=12, 2-3=19, 4-5=-6
Horz: 1-2=-21, 2-3=-28
Concentrated Loads (lb)
Vert: 8=-107(F=-53, B=-53) 9=-68(F=-34, B=-34) 10=-67(F=-33, B=-33) 11=-8(F=-4, B=-4)

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=21, 4-5=-10
Horz: 1-2=-42, 2-3=-35
Concentrated Loads (lb)
Vert: 8=-111(F=-55, B=-55) 9=-72(F=-36, B=-36) 10=-56(F=-28, B=-28) 11=4(F=2, B=2)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-3=-0, 4-5=-10
Horz: 1-2=-21, 2-3=-14
Concentrated Loads (lb)
Vert: 8=-51(F=-26, B=-26) 9=-12(F=-6, B=-6) 10=-56(F=-28, B=-28) 11=4(F=2, B=2)

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=7
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=-72(F=-36, B=-36) 9=-7(F=-4, B=-4) 10=-82(F=-41, B=-41) 11=-45(F=-22, B=-22)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-3=-30, 4-5=7
Horz: 1-2=-19, 2-3=-14
Concentrated Loads (lb)
Vert: 8=-38(F=-19, B=-19) 9=27(F=14, B=14) 10=-82(F=-41, B=-41) 11=-45(F=-22, B=-22)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-18, 4-5=-10
Horz: 1-2=-31, 2-3=-26
Concentrated Loads (lb)
Vert: 8=-72(F=-36, B=-36) 9=-7(F=-4, B=-4) 10=-32(F=-16, B=-16) 11=4(F=2, B=2)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-34, 4-5=-10
Horz: 1-2=-15, 2-3=-10
Concentrated Loads (lb)
Vert: 8=-28(F=-14, B=-14) 9=37(F=19, B=19) 10=-32(F=-16, B=-16) 11=4(F=2, B=2)

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=77, 2-4=45, 4-6=45, 6-7=38, 10-11=-6, 8-10=31(F=37), 8-14=-6
Horz: 1-2=-86, 2-4=-54, 4-6=54, 6-7=47

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-4=45, 4-6=45, 6-7=77, 10-11=-6, 8-10=31(F=37), 8-14=-6
Horz: 1-2=-47, 2-4=-54, 4-6=54, 6-7=86

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-4=-33, 4-6=-33, 6-7=-26, 10-11=-10, 8-10=-50(F=-40), 8-14=-10
Horz: 1-2=-12, 2-4=19, 4-6=-19, 6-7=-12

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-4=-33, 4-6=-33, 6-7=-2, 10-11=-10, 8-10=-50(F=-40), 8-14=-10
Horz: 1-2=12, 2-4=19, 4-6=-19, 6-7=12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=43, 2-4=27, 4-6=24, 6-7=17, 10-11=-6, 8-10=13(F=19), 8-14=-6
Horz: 1-2=-51, 2-4=-35, 4-6=32, 6-7=25

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=24, 4-6=27, 6-7=43, 10-11=-6, 8-10=13(F=19), 8-14=-6
Horz: 1-2=-25, 2-4=-32, 4-6=35, 6-7=51

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-4=7, 4-6=4, 6-7=11, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-28, 2-4=-21, 4-6=18, 6-7=25

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-4=4, 4-6=7, 6-7=14, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-25, 2-4=-18, 4-6=21, 6-7=28

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 4-6=19, 6-7=12, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-42, 2-4=-49, 4-6=28, 6-7=21

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 4-6=40, 6-7=33, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-21, 2-4=-28, 4-6=49, 6-7=42

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 4-6=19, 6-7=12, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-42, 2-4=-49, 4-6=28, 6-7=21

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=19, 4-6=40, 6-7=33, 10-11=-6, 8-10=26(F=32), 8-14=-6
Horz: 1-2=-21, 2-4=-28, 4-6=49, 6-7=42

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=21, 4-6=-0, 6-7=7, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-42, 2-4=-35, 4-6=14, 6-7=21

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-4=-0, 4-6=21, 6-7=28, 10-11=-10, 8-10=-39(F=-29), 8-14=-10
Horz: 1-2=-21, 2-4=-14, 4-6=35, 6-7=42

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-14, 4-7=-14, 10-11=-10, 8-10=-33(F=-23), 8-14=-10

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 C-C Wind (Neg. Int) Case 1): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-4=-58, 4-6=-58, 6-7=-53, 10-11=-10, 8-10=-74(F=-64), 8-14=-10
Horz: 1-2=-9, 2-4=14, 4-6=-14, 6-7=-9

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 C-C Wind (Neg. Int) Case 2): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-4=-58, 4-6=-58, 6-7=-35, 10-11=-10, 8-10=-74(F=-64), 8-14=-10
Horz: 1-2=9, 2-4=14, 4-6=-14, 6-7=9

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-23, 2-4=-28, 4-6=-30, 6-7=-25, 10-11=-10, 8-10=-66(F=-56), 8-14=-10
Horz: 1-2=-21, 2-4=-16, 4-6=14, 6-7=19

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-4=-30, 4-6=-28, 6-7=-23, 10-11=-10, 8-10=-66(F=-56), 8-14=-10
Horz: 1-2=-19, 2-4=-14, 4-6=16, 6-7=21

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

Continued on page 3

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	T03G	Common Supported Gable	1	1	I10520386

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:03 2015 Page 1

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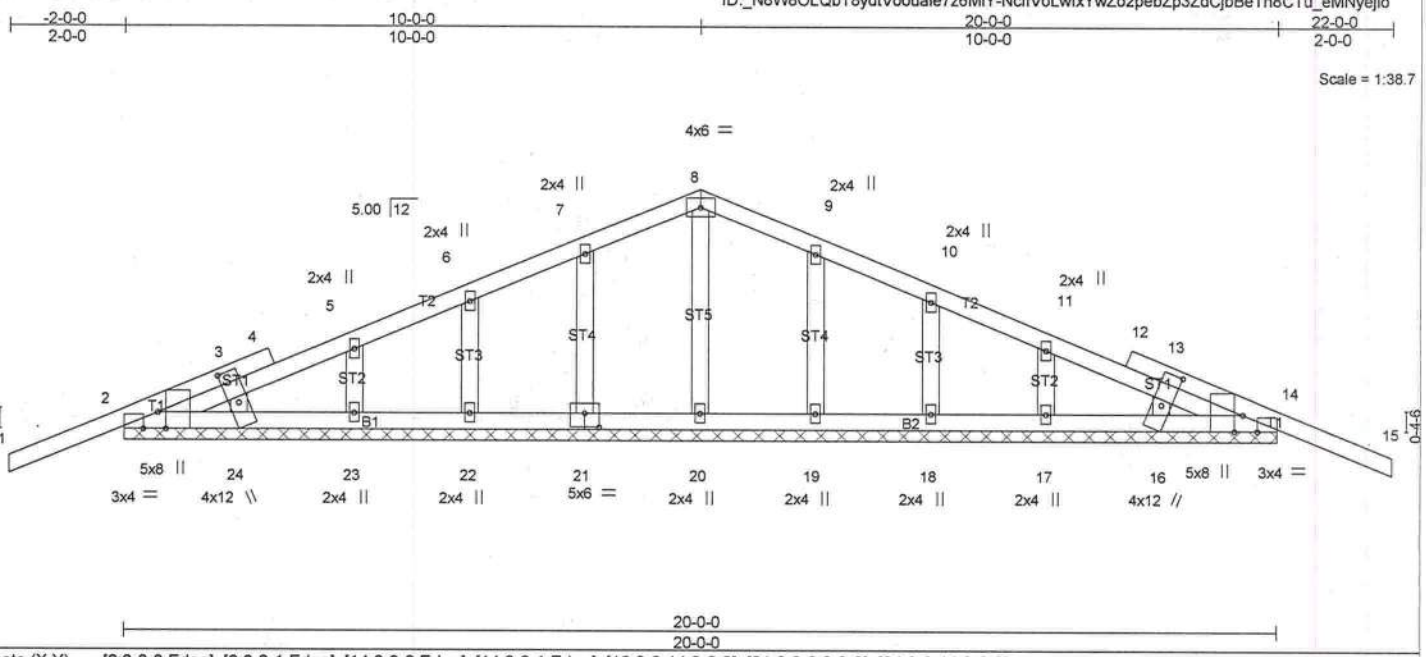

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-1,Edge], [14:0-3-8,Edge], [14:0-3-1,Edge], [16:0-6-14,0-2-0], [21:0-3-0,0-3-0], [24:0-6-14,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.03	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 99 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 20-0-0.
(lb) - Max Horz 2=-98(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 21, 22, 23, 24, 19, 18, 17, 16 except 2=-149(LC 8), 14=-154(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

NOTES- (10-12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 22, 23, 24, 19, 18, 17, 16 except (jt=lb) 2=149, 14=154.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) 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.
11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 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. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44, 4-6=-44, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 4=-119(F) 8=-161(F) 7=-161(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-4=-14, 4-6=-14, 9-12=-30
Concentrated Loads (lb)
Vert: 3=-28(F) 4=-51(F) 8=-191(F) 7=-191(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-4=25, 4-5=17, 5-6=10, 9-12=-6
Horz: 1-2=-41, 2-3=-25, 4-5=25, 5-6=18
Concentrated Loads (lb)
Vert: 3=55(F) 4=141(F) 8=264(F) 7=264(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-4=25, 4-5=16, 5-6=32, 9-12=-6
Horz: 1-2=-18, 2-3=-25, 4-5=25, 5-6=41
Concentrated Loads (lb)
Vert: 3=55(F) 4=141(F) 8=264(F) 7=264(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=6, 4-5=-3, 5-6=4, 9-12=-10
Horz: 1-2=-18, 2-3=-11, 4-5=11, 5-6=18
Concentrated Loads (lb)
Vert: 3=74(F) 4=188(F) 8=274(F) 7=274(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=6, 4-5=-3, 5-6=4, 9-12=-10
Horz: 1-2=-18, 2-3=-11, 4-5=11, 5-6=18
Concentrated Loads (lb)
Vert: 3=74(F) 4=188(F) 8=274(F) 7=274(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27
Concentrated Loads (lb)
Vert: 3=67(F) 4=171(F) 8=264(F) 7=264(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-4=-7, 4-5=-7, 5-6=0, 9-12=-10
Horz: 1-2=-27, 2-3=-20, 4-5=7, 5-6=14
Concentrated Loads (lb)
Vert: 3=87(F) 4=218(F) 8=274(F) 7=274(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-4=-7, 4-5=6, 5-6=13, 9-12=-10
Horz: 1-2=-14, 2-3=-7, 4-5=20, 5-6=27
Concentrated Loads (lb)
Vert: 3=87(F) 4=218(F) 8=274(F) 7=274(F)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 3-4=-14, 4-6=-14, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-24(F) 4=-42(F) 8=-82(F) 7=-82(F)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-3=25, 3-4=13, 4-5=13, 5-6=6, 9-12=-6
Horz: 1-2=-27, 2-3=-34, 4-5=21, 5-6=14
Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=13, 4-5=25, 5-6=18, 9-12=-6
Horz: 1-2=-14, 2-3=-21, 4-5=34, 5-6=27
Concentrated Loads (lb)
Vert: 3=-40(F) 4=-73(F) 8=-96(F) 7=-96(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-3=6, 3-4=-7, 4-5=-7, 5-6=0, 9-12=-10
Horz: 1-2=-27, 2-3=-20, 4-5=7, 5-6=14
Concentrated Loads (lb)
Vert: 3=-20(F) 4=-25(F) 8=-86(F) 7=-86(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-7, 3-4=-7, 4-5=6, 5-6=13, 9-12=-10
Horz: 1-2=-14, 2-3=-7, 4-5=20, 5-6=27
Concentrated Loads (lb)
Vert: 3=-20(F) 4=-25(F) 8=-86(F) 7=-86(F)

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-4=-29, 4-5=-36, 5-6=-30, 9-12=-10
Horz: 1-2=-13, 2-3=-8, 4-5=8, 5-6=14
Concentrated Loads (lb)
Vert: 3=-58(F) 4=-87(F) 8=-132(F) 7=-132(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-4=-29, 4-5=-36, 5-6=-31, 9-12=-10
Horz: 1-2=-14, 2-3=-8, 4-5=8, 5-6=13
Concentrated Loads (lb)
Vert: 3=-58(F) 4=-87(F) 8=-132(F) 7=-132(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-4=-38, 4-5=-38, 5-6=-33, 9-12=-10
Horz: 1-2=-20, 2-3=-15, 4-5=6, 5-6=11
Concentrated Loads (lb)
Vert: 3=-49(F) 4=-65(F) 8=-132(F) 7=-132(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-4=-38, 4-5=-29, 5-6=-24, 9-12=-10
Horz: 1-2=-11, 2-3=-6, 4-5=15, 5-6=20
Concentrated Loads (lb)
Vert: 3=-49(F) 4=-65(F) 8=-132(F) 7=-132(F)

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1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	T06	Hip Truss	1	1	I10520389

Job Reference (optional)

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7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:06 2015 Page 1

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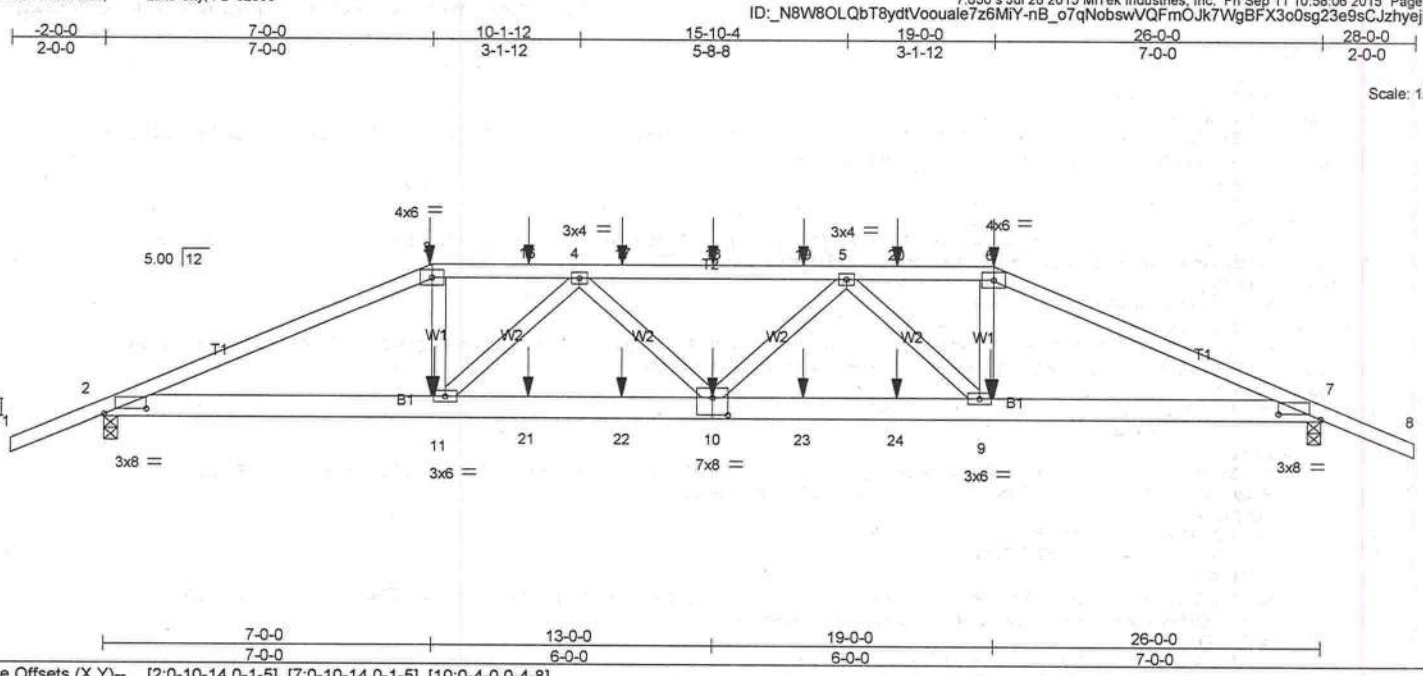

Plate Offsets (X,Y)-- [2:0-10-14,0-1-5], [7:0-10-14,0-1-5], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	0.31	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(TL)	-0.42	10	>749	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(TL)	0.10	7	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix-M)							Weight: 138 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 2=1511/0-3-8 (min. 0-1-13), 7=1538/0-3-8 (min. 0-1-13)
Max Horz 2=-47(LC 28)
Max Uplift 2=-873(LC 4), 7=-915(LC 9)

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

TOP CHORD	2-3=-3139/2013, 3-16=-2878/1910, 4-16=-2878/1910, 4-17=-3511/2372, 17-18=-3511/2372, 18-19=-3511/2372, 5-19=-3511/2372, 5-20=-2940/2018, 6-20=-2940/2018, 6-7=-3208/2124
BOT CHORD	2-11=-1802/2834, 11-21=-2182/3440, 21-22=-2182/3440, 10-22=-2182/3440, 10-23=-2233/3470, 23-24=-2233/3470, 9-24=-2233/3470, 7-9=-1883/2897
WEBS	3-11=-645/903, 4-11=-872/523, 5-9=-829/458, 6-9=-599/872

NOTES- (10-12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=873, 7=915.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 87 lb up at 7-0-0, 87 lb down and 87 lb up at 9-0-12, 87 lb down and 87 lb up at 11-0-12, 87 lb down and 87 lb up at 13-0-0, 87 lb down and 87 lb up at 14-11-4, and 87 lb down and 87 lb up at 16-11-4, and 145 lb down and 218 lb up at 19-0-0 on top chord, and 191 lb down and 274 lb up at 7-0-0, 51 lb down and 59 lb up at 9-0-12, 51 lb down and 59 lb up at 11-0-12, 51 lb down and 59 lb up at 13-0-0, 51 lb down and 59 lb up at 14-11-4, and 51 lb down and 59 lb up at 16-11-4, and 191 lb down and 274 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) 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.
11) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S)

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

September 11,2015

Continued on page 2

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 3=87(F) 6=218(F) 10=59(F) 11=274(F) 9=274(F) 16=87(F) 17=87(F) 18=87(F) 19=87(F) 20=87(F) 21=59(F) 22=59(F) 23=59(F) 24=59(F)

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-14, 6-8=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-24(F) 6=-42(F) 10=-19(F) 11=-82(F) 9=-82(F) 16=-24(F) 17=-24(F) 18=-24(F) 19=-24(F) 20=-24(F) 21=-19(F) 22=-19(F) 23=-19(F) 24=-19(F)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-6=-29, 6-7=-36, 7-8=-30, 2-7=-10
Horz: 1-2=-13, 2-3=-8, 6-7=8, 7-8=14
Concentrated Loads (lb)
Vert: 3=53(F) 6=138(F) 10=39(F) 11=147(F) 9=147(F) 16=53(F) 17=53(F) 18=53(F) 19=53(F) 20=53(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-3=-36, 3-6=-29, 6-7=-36, 7-8=-31, 2-7=-10
Horz: 1-2=-14, 2-3=-8, 6-7=8, 7-8=13
Concentrated Loads (lb)
Vert: 3=53(F) 6=138(F) 10=39(F) 11=147(F) 9=147(F) 16=53(F) 17=53(F) 18=53(F) 19=53(F) 20=53(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-29, 3-6=-38, 6-7=-38, 7-8=-33, 2-7=-10
Horz: 1-2=-20, 2-3=-15, 6-7=6, 7-8=11
Concentrated Loads (lb)
Vert: 3=63(F) 6=161(F) 10=39(F) 11=147(F) 9=147(F) 16=63(F) 17=63(F) 18=63(F) 19=63(F) 20=63(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-38, 3-6=-38, 6-7=-29, 7-8=-24, 2-7=-10
Horz: 1-2=-11, 2-3=-6, 6-7=15, 7-8=20
Concentrated Loads (lb)
Vert: 3=63(F) 6=161(F) 10=39(F) 11=147(F) 9=147(F) 16=63(F) 17=63(F) 18=63(F) 19=63(F) 20=63(F) 21=39(F) 22=39(F) 23=39(F) 24=39(F)

19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 6-8=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 6=-145(F) 10=-26(F) 11=-188(F) 9=-188(F) 16=-87(F) 17=-87(F) 18=-87(F) 19=-87(F) 20=-87(F) 21=-26(F) 22=-26(F) 23=-26(F) 24=-26(F)

20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-54, 6-8=-54, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-87(F) 6=-145(F) 10=-26(F) 11=-188(F) 9=-188(F) 16=-87(F) 17=-87(F) 18=-87(F) 19=-87(F) 20=-87(F) 21=-26(F) 22=-26(F) 23=-26(F) 24=-26(F)

21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-6=-44, 6-8=-14, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 6=-119(F) 10=-24(F) 11=-161(F) 9=-161(F) 16=-71(F) 17=-71(F) 18=-71(F) 19=-71(F) 20=-71(F) 21=-24(F) 22=-24(F) 23=-24(F) 24=-24(F)

22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-14, 3-6=-44, 6-8=-44, 2-7=-10
Concentrated Loads (lb)
Vert: 3=-71(F) 6=-119(F) 10=-24(F) 11=-161(F) 9=-161(F) 16=-71(F) 17=-71(F) 18=-71(F) 19=-71(F) 20=-71(F) 21=-24(F) 22=-24(F) 23=-24(F) 24=-24(F)

23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=16, 3-6=25, 6-7=17, 7-8=10, 2-7=-6
Horz: 1-2=-41, 2-3=-25, 6-7=25, 7-8=18
Concentrated Loads (lb)
Vert: 3=-52(F) 6=-103(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-52(F) 17=-52(F) 18=-52(F) 19=-52(F) 20=-52(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=17, 3-6=25, 6-7=16, 7-8=32, 2-7=-6
Horz: 1-2=-18, 2-3=-25, 6-7=25, 7-8=41
Concentrated Loads (lb)
Vert: 3=-52(F) 6=-103(F) 10=-22(F) 11=-96(F) 9=-96(F) 16=-52(F) 17=-52(F) 18=-52(F) 19=-52(F) 20=-52(F) 21=-22(F) 22=-22(F) 23=-22(F) 24=-22(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-6=6, 6-7=-3, 7-8=4, 2-7=-10
Horz: 1-2=-18, 2-3=-11, 6-7=11, 7-8=18
Concentrated Loads (lb)
Vert: 3=-33(F) 6=-55(F) 10=-18(F) 11=-86(F) 9=-86(F) 16=-33(F) 17=-33(F) 18=-33(F) 19=-33(F) 20=-33(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-6=6, 6-7=-3, 7-8=4, 2-7=-10
Horz: 1-2=-18, 2-3=-11, 6-7=11, 7-8=18

Continued on page 4

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	T07	Hip Truss	1	1	I10520390

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:07 2015 Page 1

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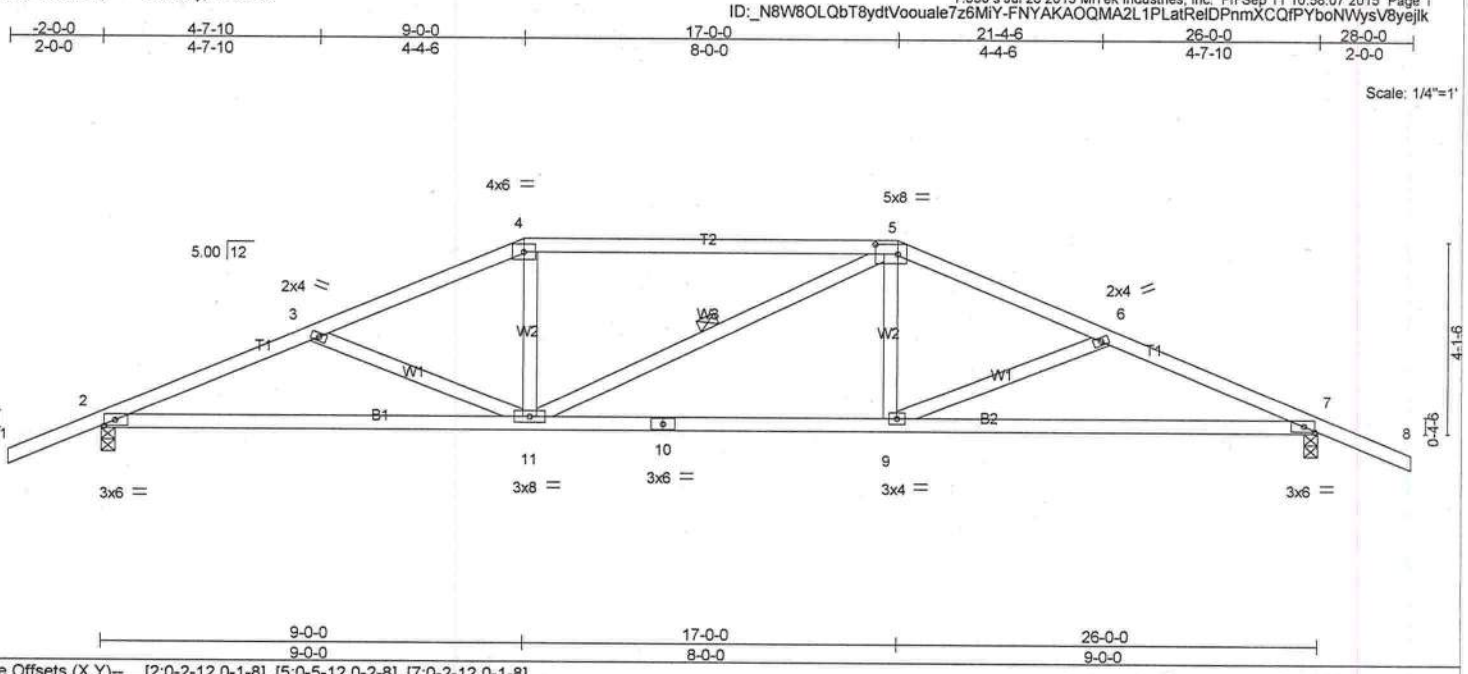

Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [5:0-5-12,0-2-8], [7:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.12	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(TL)	-0.23	9-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-5 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS. (lb/size) 2=940/0-3-8 (min. 0-1-8), 7=940/0-3-8 (min. 0-1-8)
Max Horz 2=-57(LC 13)
Max Uplift 2=-237(LC 8), 7=-237(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1745/1026, 3-4=-1480/856, 4-5=-1358/841, 5-6=-1480/856, 6-7=-1744/1026
BOT CHORD 2-11=-826/1560, 10-11=-600/1312, 9-10=-600/1312, 7-9=-840/1566
WEBS 3-11=-281/261, 4-11=-46/273, 5-9=-48/272, 6-9=-281/260

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=237, 7=237.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	T09	Common Truss	2	1	I10520392

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:09 2015 Page 1
ID:_N8W8OLQbT8ydtVoouale7z6MiY-CmfwlsPhunI3HjVz_sgDIqtBw06PtRS4rqRza0yejli

-2-0-0	6-9-3	13-0-0	19-2-13	26-0-0	28-0-0
2-0-0	6-9-3	6-2-13	6-2-13	6-9-3	2-0-0

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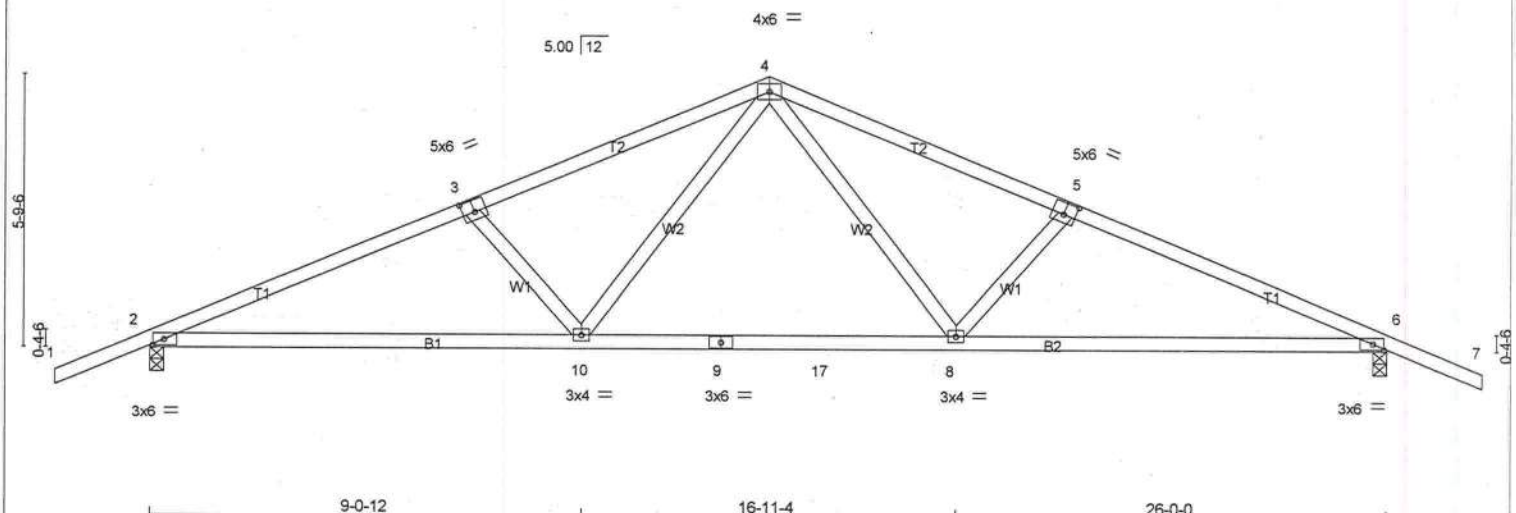

9-0-12	16-11-4	26-0-0
9-0-12	7-10-8	9-0-12

Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.16	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.27	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 117 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-8-3 oc bracing.

REACTIONS. (lb/size) 2=940/0-3-8 (min. 0-1-8), 6=940/0-3-8 (min. 0-1-8)
Max Horz 2=78(LC 16)
Max Uplift 2=-244(LC 12), 6=-244(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1779/989, 3-4=-1568/913, 4-5=-1569/913, 5-6=-1780/989
BOT CHORD 2-10=-778/1579, 9-10=-411/1045, 9-17=-411/1045, 8-17=-411/1045, 6-8=-784/1582
WEBS 4-8=-270/511, 5-8=-380/344, 4-10=-270/510, 3-10=-380/344

NOTES- (7-9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=244, 6=244.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	T11	SCISSOR TRUSS	3	1	I10520394

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:11 2015 Page 1
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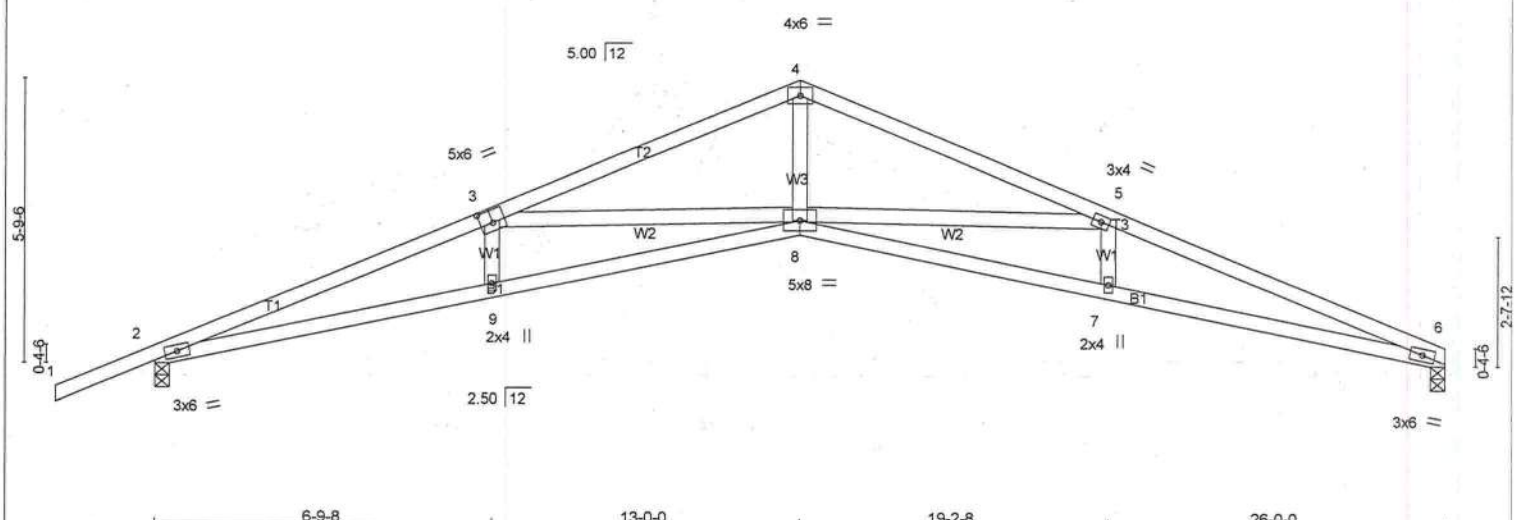
-2-0-0 2-0-0 | 6-9-8 6-9-8 | 13-0-0 6-2-8 | 19-2-8 6-2-8 | 26-0-0 6-9-8

Scale = 1:45.0



6-9-8 6-9-8 | 13-0-0 6-2-8 | 19-2-8 6-2-8 | 26-0-0 6-9-8

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

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	0.67	Vert(LL)	-0.34	8-9	>914	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(TL)	-0.67	8-9	>464	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.38	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix-M)							Weight: 110 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS. (lb/size) 6=829/0-3-8 (min. 0-1-8), 2=943/0-3-8 (min. 0-1-8)
Max Horz 2=90(LC 16)
Max Uplift 6=-205(LC 13), 2=-244(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3144/1750, 3-4=-2254/1228, 4-5=-2255/1229, 5-6=-3168/1780
BOT CHORD 2-9=-1554/2893, 8-9=-1558/2902, 7-8=-1589/2925, 6-7=-1586/2918
WEBS 4-8=-668/1336, 5-8=-882/650, 3-8=-859/619

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=205, 2=244.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	
712357	T15	Hip Truss	1	1	I10520396

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.630 s Jul 28 2015 MiTek Industries, Inc. Fri Sep 11 10:58:13 2015 Page 1
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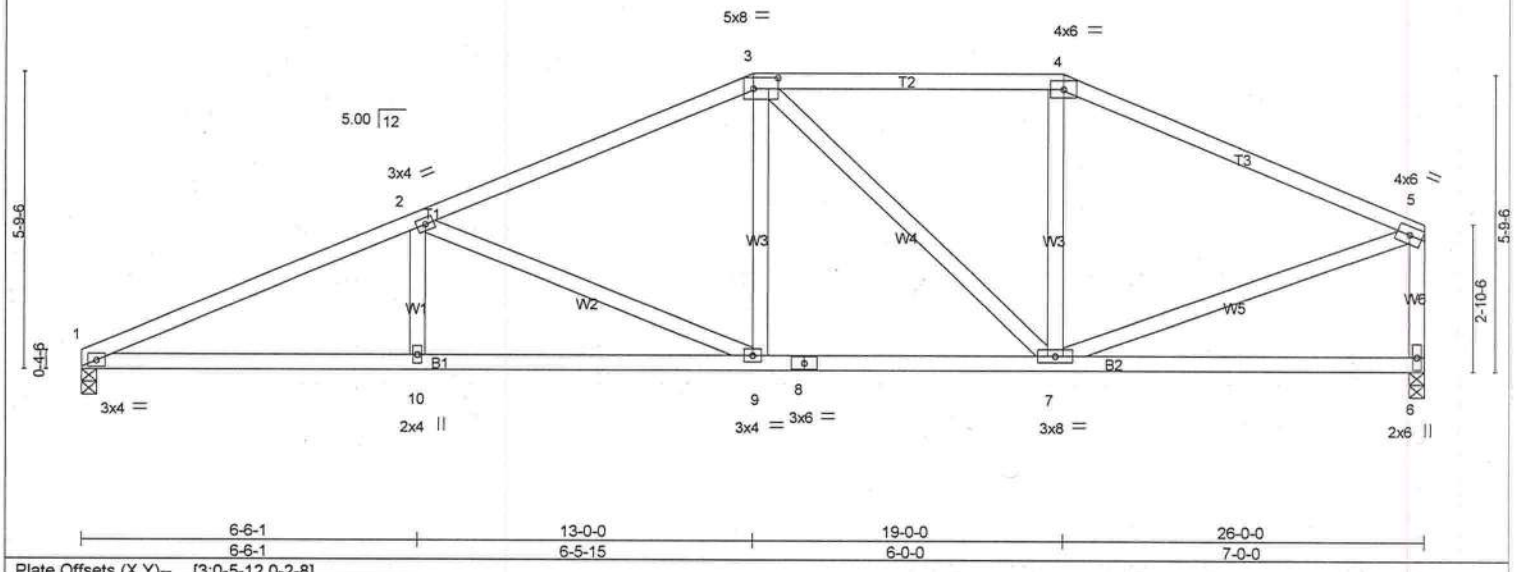


Plate Offsets (X,Y)-- [3:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(TL)	-0.18	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 135 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-15 oc bracing.

REACTIONS. (lb/size) 1=834/0-3-8 (min. 0-1-8), 6=821/0-3-8 (min. 0-1-8)
Max Horz 1=122(LC 12)
Max Uplift 1=-204(LC 12), 6=-172(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1732/968, 2-3=-1184/703, 3-4=-853/583, 4-5=-961/562, 5-6=-828/512
BOT CHORD 1-10=-948/1572, 9-10=-948/1572, 8-9=-555/1023, 7-8=-555/1023
WEBS 2-9=-603/429, 3-9=-133/322, 3-7=-340/173, 5-7=-415/805

NOTES- (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=204, 6=172.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

September 11,2015

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Residential System Sizing Calculation

Summary

Gootee Res

, FL

Project Title:
1308061

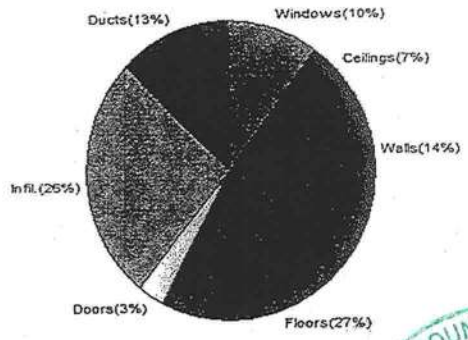
2013-08-23

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**26819**	**Btuh**	**Total cooling load calculation**	**29036**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	126.8	34000	Sensible (SHR = 0.75)	115.1	25500
Heat Pump + Auxiliary(0.0kW)	126.8	34000	Latent	123.6	8500
			Total (Electric Heat Pump)	117.1	34000

WINTER CALCULATIONS

Winter Heating Load (for 1508 sqft)

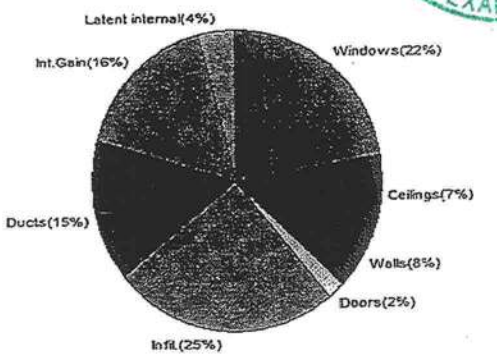
Load component			Load	
Window total	144	sqft	2735	Btuh
Wall total	1146	sqft	3765	Btuh
Door total	53	sqft	789	Btuh
Ceiling total	1508	sqft	1777	Btuh
Floor total	1508	sqft	7335	Btuh
Infiltration	173	cfm	7024	Btuh
Duct loss			3395	Btuh
Subtotal			**26819**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**26819**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1508 sqft)

Load component			Load	
Window total	144	sqft	6487	Btuh
Wall total	1146	sqft	2301	Btuh
Door total	53	sqft	597	Btuh
Ceiling total	1508	sqft	2017	Btuh
Floor total			0	Btuh
Infiltration	130	cfm	2420	Btuh
Internal gain			4780	Btuh
Duct gain			3558	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**22161**	**Btuh**
Latent gain(ducts)			923	Btuh
Latent gain(infiltration)			4753	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**6876**	**Btuh**
TOTAL HEAT GAIN			**29036**	**Btuh**



Powered by MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: Evan Bonnell
DATE: 2013-08-23

Page 0

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Gootee Res

, FL

Project Title:
1308061
Building Type: User

2013-08-23

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.35	Metal	0.35	E	30.0	12.9	388 Btuh
2	2, NFRC 0.35	Metal	0.35	E	6.0	12.9	78 Btuh
3	2, NFRC 0.35	Metal	0.35	E	26.7	12.9	345 Btuh
4	2, NFRC 0.35	Metal	0.35	S	30.0	12.9	388 Btuh
5	2, NFRC 0.66	Metal	0.87	W	45.0	32.2	1449 Btuh
6	2, NFRC 0.35	Metal	0.35	W	6.7	12.9	86 Btuh
	Window Total				144.3(sqft)		2735 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	216	3.28	710 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	178	3.28	585 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	388	3.28	1274 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	208	3.28	683 Btuh
5	Frame - Wood	- Adj	(0.089)	13.0/0.0	156	3.28	512 Btuh
	Wall Total				1146(sqft)		3765 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)	20	14.8	296 Btuh
2	Insulated - Exterior,	n	(0.400)	13	14.8	197 Btuh
3	Insulated - Garage,	n	(0.400)	20	14.8	296 Btuh
	Door Total			53(sqft)		789Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shing	(0.032)	30.0/0.0	1508	1.2	1777 Btuh
	Ceiling Total			1508(sqft)		1777Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	168.0 ft(perim.)	43.7	7335 Btuh
	Floor Total			1508 sqft		7335 Btuh

	Envelope Subtotal:	16401 Btuh

Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural		0.86	12064	1.00	173.4	7024 Btuh

Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.145)	3395 Btuh
All Zones	**Sensible Subtotal All Zones**	**26819 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Gootee Res
, FL

Project Title:
1308061
Building Type: User

2013-08-23

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	26819 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	26819 Btuh

EQUIPMENT

1. Electric Heat Pump	#	34000 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)

Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Gootee Res

, FL

Project Title:
1308061

2013-08-23

Reference City: Gainesville, FL Temperature Difference: 17.0F(MJ8 99%) Humidity difference: 54gr.

Component Loads for Whole House

	Type*					Overhang		Window Area(sqft)			HTM		Load
Window	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2 NFRC	0.35, 0.35		No	No	E	1.5ft	1.0ft	30.0	1.5	28.5	13	40	1152 Btuh
2	2 NFRC	0.35, 0.35		No	No	E	1.5ft	1.0ft	6.0	0.5	5.5	13	40	225 Btuh
3	2 NFRC	0.35, 0.35		No	No	E	1.5ft	1.0ft	26.7	1.0	25.7	13	40	1033 Btuh
4	2 NFRC	0.35, 0.35		No	No	S	1.5ft	1.0ft	30.0	30.0	0.0	13	16	399 Btuh
5	2 NFRC	0.66, 0.87		No	No	W	1.5ft	1.0ft	45.0	2.2	42.8	29	78	3419 Btuh
6	2 NFRC	0.35, 0.35		No	No	W	1.5ft	1.0ft	6.7	0.2	6.4	13	40	258 Btuh
	Window Total								144 (sqft)					6487 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.0	216.3	2.1	451 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	178.0	2.1	371 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	388.0	2.1	809 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.0	208.0	2.1	434 Btuh
5	Frame - Wood - Adj	0.09	13.0/0.0	156.0	1.5	235 Btuh
	Wall Total			1146 (sqft)		2301 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	11.2	224 Btuh
2	Insulated - Exterior	13.3	11.2	149 Btuh
3	Insulated - Garage	20.0	11.2	224 Btuh
	Door Total	53 (sqft)		597 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Light/Shingle	0.032	30.0/0.0	1508.0	1.34	2017 Btuh
	Ceiling Total			1508 (sqft)		2017 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	1508 (ft-perimeter)	0.0	0 Btuh
	Floor Total		1508.0 (sqft)		0 Btuh

	Envelope Subtotal:	11402 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.65	12064	1	130.0	2420 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	6	X 230	+	3400	4780 Btuh

	Sensible Envelope Load:	18602 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.191)	3558 Btuh
	Sensible Load All Zones	**22161 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Gootee Res

, FL

Project Title: 1308061

Climate:FL_GAINESVILLE_REGIONAL_A

2013-08-23

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**18602 Btuh**
	Sensible Duct Load	3558 Btuh
	Total Sensible Zone Loads	**22161 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**22161 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4753 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	923 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6876 Btuh**
	TOTAL GAIN	**29036 Btuh**

EQUIPMENT

1. Central Unit	#	34000 Btuh

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

Version 8

L+H 2

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	New Project	Builder Name:	MIKE ROBERTS
Street:		*Permit Office:*	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville		

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1508
Conditioned floor area below grade (ft²)	0

7. Windows (129.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.52	129.00 ft²
SHGC:	SHGC=0.29	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		2.000 ft.
Area Weighted Average SHGC:		0.290

8. Floor Types (1508.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1508.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (1344.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1184.00 ft²
b. Frame - Wood, Adjacent	R=13.0	160.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (1508.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	1508.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Garage	6	301.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	28.0	SEER:13.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	30.0	HSPF:8.00

14. Hot water systems	
a. Electric	Cap: 40 gallons
	EF: 0.960
b. Conservation features	
None	
15. Credits	Pstat

Glass/Floor Area: 0.086

Total Proposed Modified Loads: 28.31

Total Standard Reference Loads: 35.26

PASS

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

PREPARED BY: _____

DATE: 3-7-13

SUNCOAST INSULATORS
825 NW 253rd Terrace
Newberry, FL 32669
(352) 472-8595
Fax (352) 472-2633

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

OWNER/AGENT: _____

DATE: 3/8/13

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 completion of a Florida Air Barrier and Insulation Inspection Checklist

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

PROJECT

Title:	New Project	Bedrooms:	3	Address Type:	Street Address
Building Type:	FLProp2010	Conditioned Area:	6072	Lot #	
Owner:		Total Stories:	1	Block/SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	MIKE ROBERTS	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	COLUMBIA
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	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	2	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1508	12064

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	1508	12064	Yes	3	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	RoomsInBlock1	168 ft	0	1508 ft²	----	0	0	1

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	1633 ft²	314 ft²	Medium	0.96	No	0.9	No	0	22.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1508 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	RoomsInBlock1	38	1508 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	RoomsInBlock	13	38		8		304 ft²		0.23	0.75	0
____	2	N	Garage	Frame - Wood	RoomsInBlock	13	20		8		160 ft²		0.23	0.01	0
____	3	E	Exterior	Frame - Wood	RoomsInBlock	13	26		8		208 ft²		0.23	0.75	0
____	4	S	Exterior	Frame - Wood	RoomsInBlock	13	58		8		464 ft²		0.23	0.75	0
____	5	W	Exterior	Frame - Wood	RoomsInBlock	13	26		8		208 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
____	1	N	Insulated	RoomsInBlock	None	0.460000	3		6	8	20 ft²
____	2	N	Insulated	RoomsInBlock	None	0.460000	3		6	8	17.77777
____	3	S	Insulated	RoomsInBlock	None	0.460000	3		6	8	36.66666

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
____	1	N	1	Metal	Double (Clear)	Yes	0.52	0.29	N	40 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
____	2	N	1	Metal	Double (Clear)	Yes	0.52	0.29	N	13 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
____	3	E	3	Metal	Double (Clear)	Yes	0.52	0.29	N	30 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
____	4	S	4	Metal	Double (Clear)	Yes	0.52	0.29	N	6 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
____	5	S	4	Metal	Double (Clear)	Yes	0.52	0.29	N	40 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
____	1	440 ft²	440 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0.000360	1423.98	78.1747	147.019	0.27719	7.08214

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
____	1	Electric Heat Pump	None	HSPF: 8	30 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
____	1	Central Unit	None	SEER: 13	28 kBtu/hr	840 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
____	1	Electric	None	Garage	0.96	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

√	#	Supply Location	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat	HVAC # Cool
____	1	Attic	6	301.6 ft²	Attic	75.4 ft²	DSE=0.88	Garage	0.0 cfm	0.00 %	0.00	0.60	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]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Heating	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Venting	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]

Thermostat Schedule: HERS 2006 Reference

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

FORM 405-10

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS:	PERMIT #:
, FL,	

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating *and cooling system. Where forced-air furnace is primary system,* programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2 403.3.3	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code. Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	*Pool pumps and pool pump motors with a total horsepower* (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 80

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

, , FL,

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area (ft²)	6072

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.52	129.00 ft²
SHGC:	SHGC=0.29	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		2.000 ft.
Area Weighted Average SHGC:		0.290

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1508.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1184.00 ft²
b. Frame - Wood, Adjacent	R=13.0	160.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=38.0	1508.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Garage	6	301.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	28.0	SEER:13.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	30.0	HSPF:8.00

14. Hot water systems	
a. Electric	Cap: 40 gallons EF: 0.96
b. Conservation features None	
15. Credits	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: [signature] Date: 10/8/15

Address of New Home: 544 SW Gerald Conner Dr City/FL Zip: 32024

THE GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

*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. Contact the EnergyGauge Hotline at (321) 638-1492 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 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 23-4S-16-03095-107 **Building permit No.** 000033480

Use Classification SFD/UTILITY **Fire:** 61.12

Permit Holder JAMES H. JOHNSTON,III, **Waste:** 64.36

Owner of Building MIKE ROBERTS **Total:** 125.48

Location: 544 SW GERALD CONNER DR, LAKE CITY, FL 32024

Date: 06/28/2016

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)